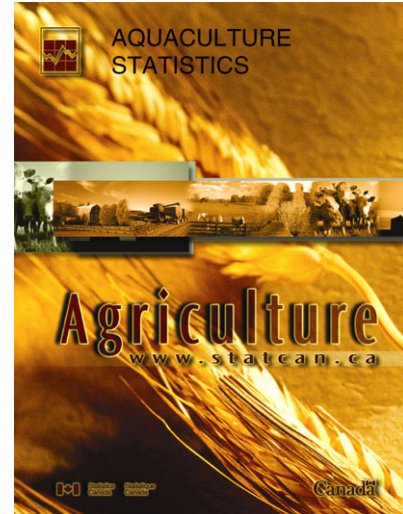




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Aquaculture Statistics

2002



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Statistics Canada
Agriculture Division

Aquaculture Statistics

2002

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Note of appreciation

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The following standard symbols are used in Statistics Canada's publications:

- . not available for any reference period
- .. not available for a specific reference period
- ... not applicable
- P preliminary
- r revised
- x suppressed to meet the confidentiality requirements of the Statistics Act
- E use with caution
- F too unreliable to be published

Note: Due to rounding, totals may not add.

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Highlights

Aquaculture Statistics, 2002

Revenues from Canada's aquaculture industry rebounded last year in the wake of increased production but lower prices for farmed salmon.

The aquaculture industry reported record operating revenues of \$732.3 million in 2002, up 4.9% from \$697.8 million in 2001. Sales of products and services reached \$711.8 million, a 6.0% increase. Of that, finfish, mostly salmon, accounted for just over 90% of total sales, or \$644.3 million.

Increased production and exports resulted in sales of finfish growing 7.0% from 2001. However, significantly lower prices for farmed salmon, due mainly to larger supplies in the United States, together with outbreaks of disease, had a major impact on revenues.

The value of aquaculture exports totalled \$641.7 million last year, up 7.0%. Exports to the United States jumped 7.3% driven by strong demand for salmon, especially in fresh and frozen filleted form. Canada's exports of filleted products to the United States grew by 9.6%. However, the value of filleted products rose only 4.7% because of downward pressure on prices.

Sales of molluscs, which accounted for 8.6% of total sales, rose modestly to \$61.3 million. Sales in Prince Edward Island fell 6.0% to 26.5 million, but still accounted for over 40% of the national total.

British Columbia, Canada's largest aquaculture producing province, generated sales of \$329.6 million in 2002, up 12.3% from 2001. A significant 32.2% increase in the quantity of finfish produced was somewhat offset by falling prices for farmed salmon and outbreaks of disease. Finfish sales totalled \$309.6 million, up 13.1%. Sales of molluscs reached \$19.0 million, up 5.6%.

New Brunswick, the second largest producer of farmed salmon, generated \$282.3 million in sales of products and services in 2002, up 1.9% from 2001. Production gains were also offset by low prices and disease. British Columbia and New Brunswick accounted for over 85% of aquaculture revenues last year.

Nationally, product expenses, which consist of cost of products and services purchased from other businesses excluding capital and labour costs, totalled \$505.1 million in 2002, up 8.1%. Feed costs, which accounted for over 43% of all product expenses for finfish producers, increased by 11.7% to \$219.2 million.

The aquaculture industry produced a gross output, including sales, subsidies and growth in inventories, of \$734.7 million in 2002, up slightly from 2001. The gross value added by the industry to the economy, the difference between gross output and total product expenses, reached \$230.4 million, a 13.7% decrease.

Concepts and methods

Production and value of aquaculture

Statistics Canada defines aquaculture as an industry comprising establishments primarily engaged in farm-raising finfish, shellfish or any other kind of aquatic animal. The aquaculture production and value data, produced by species and province, represent the quantity of production and the farm-gate value of that production.

The series begins in 1991. Until 1994, these data were collected and released by Fisheries and Oceans Canada. Statistics Canada first published the time series in 1996.

The administrative data are provided annually from each of the provincial ministries responsible for aquaculture. Producers must report their production and value as part of their provincial licensing agreements. The data are supplemented through consultation with industry specialists and with data provided by Fisheries and Oceans Canada.

Generally, finfish production is reported as gutted head-on and the value is based on a farm-gate price. Shellfish is reported as whole, again with a farm-gate value.

Exports of selected aquaculture products

Canadian import and export statistics are derived by the International Trade Division of Statistics Canada from administrative records collected by Revenue Canada. The one exception to this process is Canadian exports to the United States and the imports from the United States into Canada. As of January 1, 1990, Canada and the United States have been using the other's import data to replace its own export data. Export data are presented by province of origin, which represents the province in which the product was grown or manufactured.

Exports for three categories of aquaculture products have been selected. All of these categories define the products as fresh, chilled or frozen and are based on the harmonised system of coding.

Mussels - code 3073110

Spring salmon - includes coho and spring (chinook) salmon, code 3021221

Atlantic salmon - codes 3021211, 3021212, 3032200

Atlantic salmon fillets – code 3041031

Small quantities of fish fillets may be included in other categories that include products from the commercial fishery, however, as the exports under these categories are relatively small, the quantity of aquaculture products in the categories must also be small.

Aquaculture value added

Concepts

The aquaculture value added account is designed to measure the economic production (value added) of goods and services from aquaculture establishments. Economic production can be defined as any process that creates value or adds value to existing goods. Consistent with this definition, the Canadian System of National Accounts defines economic production as the production of goods or services, which are exchanged for money in the marketplace.

Starting in 1997, the account displays the inputs and outputs (mostly revenues and expenses except for the change in inventory values) on a calendar year basis. These data are displayed by province, except for the Prairie Provinces where aquaculture is a relatively small industry. Gross value added at factor cost is residually derived by subtracting product inputs, or purchases from other businesses, from the gross output of the sector.

Aquaculture is the managed production of fish. In Canada, the industry is dominated by the production of finfish, primarily salmon off the coasts of British Columbia and New Brunswick. Production of shellfish is smaller with Prince Edward Island and British Columbia being the major producing provinces.

Under the North American Industrial Classification System (NAICS), this industry comprises establishments primarily engaged in farm-raising finfish, shellfish, or any other kind of aquatic animal. These establishments use some form of intervention in the rearing process to enhance production, such as keeping animals in captivity, regular stocking and feeding of animals, and protecting them from predators.

The aquaculture industry includes hatcheries and sales within the industry, for example, sales from a hatchery to a grow-out operation are included. The aquaculture industry does not include sport fishing or the wild fishery.

The estimates also include the costs and revenues derived from processing where it is an integral part of the establishment, but not the main activity or source of revenue.

Definitions

A business entity and an establishment

A business entity is an economic transactor having the responsibility and the authority to allocate resources in the production of goods and services.

A statistical establishment is one production entity or the smallest grouping of production entities which produces as homogeneous a set of goods and/or services as possible; which does not cross provincial boundaries; and for which records provide data on the value of output together with the cost of principal intermediate inputs used and cost and quantity of labour resources used to produce the output.

The population of interest

The population of interest is all establishments classified to aquaculture under NAICS 112510 and operating for at least one day during the reference year.

Financial variables

Operating revenues are generated from the sale of: whole fish (fresh or chilled); fish eggs or live fish for grow-out; live fish; whole fish dressed and frozen; fish fillets; fish that are dried, smoked or in brine; molluscs (oysters, mussels, clams, scallops;) and, seed or larvae for grow-out. Operating revenue may also include revenue from other sources such as real estate rental, consulting or government subsidies. Non-operating revenues include income from interest or dividends.

Salaries and benefits include wages, salaries and benefits such as vacation pay, commissions or bonuses paid to employees as defined by Revenue Canada and requiring a T4 Supplementary Form. This item includes the employer portion of employee benefits for items such as health care insurance plans, Canada Pension Plan contributions or Employment Insurance premiums.

The processing services are the costs incurred when another company provides services related to gutting, cleaning, slitting or shelling.

Other operating expenses include a long list of items such as: energy (electricity, gasoline, diesel, propane); water; transportation; rental and leasing; maintenance and repair; legal; accounting; consulting; veterinary; financial services; insurance; advertising; travel; property taxes; licenses; permits; office; management; and depreciation.

Non-operating expenses relate to interest expenses on loans or the interest component of a capital lease.

Methods

These data are produced as part of Statistics Canada's Unified Enterprise Survey (UES) conducted in 1997 for the first time. The survey incorporates several annual business surveys into an integrated survey. It aims to ensure Statistics Canada receives consistent and integrated data from many types of surveys and sizes of businesses, with enough detail to produce accurate provincial statistics.

Target population

The target population for this survey is: all establishments classified to aquaculture under NAICS 112510 that operated for at least one day during the reference year.

Frame and sample design

Two sources of data are used to derive the estimates:

- a probability sample survey of aquaculture establishments with a gross business revenue greater than or equal to a cut-off that varied by province from \$30,000 to \$250,000.
- taxation data are used to estimate for businesses with a gross business revenue less than the cut-off.

The frame that is used for the selection of the probability sample is Statistics Canada's Business Register. This list frame is updated and verified prior to sample selection. For 2002, the frame included 653 establishments classified to aquaculture.

Before a sample is taken, the records are stratified by province. Within each province, to improve the efficiency of the sample design, strata are defined using the gross revenue variable on the Business Register.

The "must-take" stratum contains the enterprises (with all its associated establishments) with revenue greater than or equal to \$25,000,000. All of these establishments are sent a questionnaire.

The "take-none" stratum contains the establishments with gross business revenue less than the cut-off. Data for these businesses are obtained from taxation data.

For the establishments not selected in the "must-take" (greater than \$25,000,000) or "take none" (less than the cut-off), three strata are defined to improve the efficiency of the sample design. There is a "take-all" stratum (all establishments are sent a questionnaire) and there are two "take-some" strata (a sample of establishments are selected and sent a questionnaire).

The overall sample size for 2002 was 161 establishments.

Data collection

In the spring, respondents selected in the questionnaire part of the sample were asked to report their fiscal year transactions. The fiscal year data are subsequently aligned to produce calendar year data using provincial level industry indicators.

The survey is conducted by mail along with Computer Assisted Telephone Interviews. These data are examined for inconsistencies and errors using automated edits coupled with an analytical review. Data for non-respondents and no-contacts are imputed, partially with the assistance of tax data.

Estimation design

The sampling weights derived from the sample design are modified and improved if necessary, using post stratification. This is possible because, during the passage of time since the sample was selected, the Business Register is updated further with more complete information.

Analysis of the estimates

The last step of the process is analytical. The financial picture for aquaculture is assessed within the context of other related production statistics available from provincial regulatory sources. Although the two sources measure different things, the provincial administrative data are valuable in the analysis to assist in the reduction of error and in confirming the accuracy of the estimates.

Data quality

All surveys are subject to sampling and non-sampling errors. Statistics Canada uses a variety of methods to minimize all types of errors. Measures of sampling error along with other indicators of quality are provided.

The coefficients of variation (CV), a measure of sampling error, are computed. The quality of the estimates are classified as Excellent (CV is 0.01 to 4.99%); Very good (CV is 5.00% to 9.99%); Good (CV is 10.00% to 14.99%); Acceptable (CV is 15.00% to 24.99%); Use with caution (CV is 25.00% to 34.99%); and Unreliable (> 35.00%).

Using these ratings at the national level, the 2002 estimates are judged to be excellent, and at the provincial level, the estimates range from excellent to good. The estimates for New Brunswick and British Columbia, accounting for 85% of total operating revenue of aquaculture, are judged to be excellent.

Every effort is made to minimize the non-sampling error of omission, duplication, reporting and processing. When necessary, some records are imputed using information from tax files where possible.

For 2002, the response rates of the 161 sampled establishments receiving a questionnaire are: Completed: 71%; Refusal: 3%; Non-response (non-response by survey deadline, unable to locate): 16%; Out-of-scope (inactive, out of business, out-of-scope): 10%. These response rates are considered normal for a business survey. The out-of-scope rate reflects the quality of the Business Register at the time of sampling. Of the original sample, 16% required imputation to complete the estimates. Reasons for imputation include partial response, failure to respond before the survey deadline, refusals, and inability to contact the respondent.

Finally, the aquaculture estimates were compared to and found to be consistent with administrative data sources obtained from the provinces, reinforcing confidence in the quality of the aquaculture statistics. All of the data are reviewed for accuracy and consistency and provide a reliable portrait of the aquaculture industry.

Table 1. Aquaculture: Production and Value, by Province and Canada, 1991

	N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada ²
Production	tonnes										
Salmon	66	x	601	9,000	x	80	0	0	0	24,362	34,109 ²
Trout	10	x	0	272	x	2,300	x	110	34	113	2,839 ²
Steelhead	76	0	409	0	0	0	0	0	0	0	485 ²
Other ¹	x	x	x	x	x	x	x	x	x	x	34 ¹
Total Finfish³	152	37	1,010	9,272	1,500	2,380	x	110	34	24,475	39,004
Clams	0	473	0	0	0	0	0	0	0	169	642
Oysters	0	1,227	55	136	0	0	0	0	0	4,482	5,900
Mussels	320	3,404	177	55	x	0	0	0	0	0	3,956 ²
Scallops	2	0	0	0	x	0	0	0	0	0	2 ²
Other	0	0	0	0	0	0	0	0	0	0	0
Total Shellfish	322	5,104	232	191	90	0	0	0	0	4,651	10,590
Total	474	5,141	1,242	9,463	1,590	2,380	x	110	34	29,126	49,594
Value	'000 of dollars										
Salmon	260	x	3,965	80,000	x	400	0	0	0	110,913	195,538 ²
Trout	30	x	0	1,700	x	10,500	x	240	187	538	13,195 ²
Steelhead	250	0	2,130	0	0	0	0	0	0	0	2,380 ²
Other ¹	x	x	x	x	x	x	x	x	x	x	266 ¹
Total Finfish³	540	309	6,095	81,700	9,640	10,900	x	240	187	111,451	221,328
Clams	0	734	0	0	0	0	0	0	0	556	1,290
Oysters	0	1,930	107	450	0	0	0	0	0	3,465	5,952
Mussels	560	4,000	195	120	x	0	0	0	0	0	4,875 ²
Scallops	8	0	0	0	x	0	0	0	0	0	8 ²
Other	0	0	0	0	0	0	0	0	0	0	0
Total Shellfish	568	6,664	302	570	106	0	0	0	0	4,021	12,231
Total	1,108	6,973	6,397	82,270	9,746	10,900	x	240	187	115,472	233,559

¹ Includes Char, Other Finfish and Total Manitoba Finfish.

² Excludes Confidential Data.

³ Excludes "Other" for provinces.

The production and value of Aquaculture include the amount and value produced on sites and exclude hatcheries or value added products. The data, collected from each of the provincial departments responsible for aquaculture, are considered accurate and reliable. The data will continue to be collected in the year following the reference year and released that September.

Table 1. Aquaculture: Production and Value, by Province and Canada, 1992

	N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada ²
Production	tonnes										
Salmon	75	x	416	10,000	x	20	0	0	0	19,814	30,325 ²
Trout	3	x	0	375	x	2,800	x	160	96	77	3,511 ²
Steelhead	88	0	328	0	0	0	0	0	0	0	416 ²
Other ¹	x	x	x	x	x	x	x	x	x	x	89 ¹
Total Finfish³	166	42	744	10,375	1,425	2,820	x	160	96	19,891	35,808
Clams	0	0	0	0	0	0	0	0	0	308	308
Oysters	0	1,178	67	114	0	0	0	0	0	4,484	5,843
Mussels	160	4,186	406	125	x	0	0	0	0	0	4,877 ²
Scallops	2	0	0	0	x	0	0	0	0	6	8 ²
Other	0	0	0	0	0	0	0	0	0	0	0
Total Shellfish	162	5,364	473	239	87	0	0	0	0	4,798	11,123
Total	328	5,406	1,217	10,614	1,512	2,820	x	160	96	24,689	46,931
Value	'000 of dollars										
Salmon	630	x	3,987	82,500	x	100	0	0	0	115,518	202,735 ²
Trout	20	x	0	2,300	x	14,000	x	540	420	324	17,604 ²
Steelhead	569	0	2,061	0	0	0	0	0	0	0	2,630 ²
Other ¹	x	x	x	x	x	x	x	x	x	x	631 ¹
Total Finfish³	1,219	244	6,048	84,800	7,224	14,100	x	540	420	115,842	231,068
Clams	0	0	0	0	0	0	0	0	0	1,003	1,003
Oysters	0	2,062	115	300	0	0	0	0	0	3,572	6,049
Mussels	137	4,959	470	130	x	0	0	0	0	0	5,696 ²
Scallops	10	0	0	0	x	0	0	0	0	24	34 ²
Other	0	0	0	0	0	0	0	0	0	0	0
Total Shellfish	147	7,021	585	430	164	0	0	0	0	4,599	12,946
Total	1,366	7,265	6,633	85,230	7,388	14,100	x	540	420	120,441	244,014

¹ Includes Char, Other Finfish and Total Manitoba Finfish.

² Excludes Confidential Data.

³ Excludes "Other" for provinces.

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Table 1. Aquaculture: Production and Value, by Province and Canada, 1993

	N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada ²
Production	tonnes										
Salmon	100	x	850	10,145	x	20	0	0	0	25,555	36,670 ²
Trout	0	x	0	380	x	3,000	x	160	127	51	3,718 ²
Steelhead	118	0	285	0	0	0	0	0	0	0	403 ²
Other ¹	x	x	x	x	x	x	x	x	x	x	99 ¹
Total Finfish³	218	35	1,135	10,525	1,424	3,020	x	160	127	25,606	42,349
Clams	0	0	0	0	0	0	0	0	0	347	347
Oysters	0	1,078	80	120	0	0	0	0	0	4,758	6,036
Mussels	224	4,567	200	150	x	0	0	0	0	0	5,141 ²
Scallops	3	0	0	0	x	0	0	0	0	17	20 ²
Other	0	0	0	0	0	0	0	0	0	0	0
Total Shellfish	227	5,645	280	270	34	0	0	0	0	5,122	11,578
Total	445	5,680	1,415	10,795	1,458	3,020	x	160	127	30,728	53,927
Value	'000 of dollars										
Salmon	713	x	5,800	89,280	x	100	0	0	0	138,143	234,036 ²
Trout	0	x	0	2,400	x	15,180	x	540	560	257	18,937 ²
Steelhead	1,200	0	1,600	0	0	0	0	0	0	0	2,800 ²
Other ¹	x	x	x	x	x	x	x	x	x	x	698 ¹
Total Finfish³	1,913	247	7,400	91,680	7,224	15,280	x	540	560	138,400	263,942
Clams	0	0	0	0	0	0	0	0	0	1,162	1,162
Oysters	0	1,973	200	400	0	0	0	0	0	4,000	6,573
Mussels	173	5,024	330	200	x	0	0	0	0	0	5,727 ²
Scallops	28	0	0	0	x	0	0	0	0	97	125 ²
Other	0	0	0	0	0	0	0	0	0	0	0
Total Shellfish	201	6,997	530	600	75	0	0	0	0	5,259	13,662
Total	2,114	7,244	7,930	92,280	7,299	15,280	x	540	560	143,659	277,604

¹ Includes Char, Other Finfish and Total Manitoba Finfish.

² Excludes Confidential Data.

³ Excludes "Other" for provinces.

The production and value of Aquaculture include the amount and value produced on sites and exclude hatcheries or value added products. The data, collected from each of the provincial departments responsible for aquaculture, are considered accurate and reliable. The data will continue to be collected in the year following the reference year and released that September.

Table 1. Aquaculture: Production and Value, by Province and Canada, 1994

	N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada ²
Production	tonnes										
Salmon	46	x	544	11,836	x	0	0	0	0	23,657	36,083 ²
Trout	0	x	94	330	x	3,200	x	260	45	75	4,004 ²
Steelhead	334	0	96	0	0	0	0	0	0	0	430 ²
Other ¹	x	x	x	x	x	x	x	x	x	x	71 ¹
Total Finfish³	380	31	734	12,166	1,500	3,200	x	260	45	23,732	42,119
Clams	0	0	7	0	0	0	0	0	0	542	549
Oysters	0	2,035	96	413	0	0	0	0	0	4,990	7,534
Mussels	400	5,950	439	78	x	0	0	0	0	0	6,867 ²
Scallops	12	0	6	0	x	0	0	0	0	27	45 ²
Other	0	0	0	0	0	0	0	0	0	0	0
Total Shellfish	412	7,985	548	491	33	0	0	0	0	5,559	15,028
Total	792	8,016	1,282	12,657	1,533	3,200	x	260	45	29,291	57,147
Value	'000 of dollars										
Salmon	502	x	3,835	91,000	x	0	0	0	0	153,815	249,152 ²
Trout	0	x	519	3,638	x	16,192	x	1,160	275	376	22,160 ²
Steelhead	1,635	0	374	0	0	0	0	0	0	0	2,009 ²
Other ¹	x	x	x	x	x	x	x	x	x	x	548 ¹
Total Finfish³	2,137	213	4,728	94,638	9,000	16,192	x	1,160	275	154,191	283,082
Clams	0	0	13	0	0	0	0	0	0	1,894	1,907
Oysters	0	3,265	268	982	0	0	0	0	0	4,566	9,081
Mussels	312	6,530	633	100	x	0	0	0	0	0	7,575 ²
Scallops	61	0	48	0	x	0	0	0	0	155	264 ²
Other	0	0	0	0	0	0	0	0	0	0	0
Total Shellfish	373	9,795	962	1,082	83	0	0	0	0	6,615	18,910
Total	2,510	10,008	5,690	95,720	9,083	16,192	x	1,160	275	160,806	301,992

¹ Includes Char, Other Finfish and Total Manitoba Finfish.

² Excludes Confidential Data.

³ Excludes "Other" for provinces.

The production and value of Aquaculture include the amount and value produced on sites and exclude hatcheries or value added products. The data, collected from each of the provincial departments responsible for aquaculture, are considered accurate and reliable. The data will continue to be collected in the year following the reference year and released that September.

Table 1. Aquaculture: Production and Value, by Province and Canada, 1995

	N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada ²
Production	tonnes										
Salmon	115	x	630	14,490	x	0	0	5	0	27,275	42,515 ²
Trout	18	x	50	550	x	3,300	x	317	109	85	4,429 ²
Steelhead	447	0	440	0	0	0	0	0	0	0	887 ²
Other ¹	x	x	x	x	x	x	x	x	x	x	81 ¹
Total Finfish³	580	59	1,120	15,040	883	3,300	x	322	109	27,360	48,854
Clams	0	0	0	0	0	0	0	0	0	885	885
Oysters	0	1,792	156	511	0	0	0	0	0	5,260	7,719
Mussels	411	7,469	502	240	x	0	0	0	0	4	8,626 ²
Scallops	12	0	1	0	x	0	0	0	0	24	37 ²
Other	3	0	29	0	0	0	0	0	0	0	32
Total Shellfish	426	9,261	688	751	116	0	0	0	0	6,173	17,415
Total	1,006	9,320	1,808	15,791	999	3,300	x	322	109	33,533	66,269
Value	'000 of dollars										
Salmon	759	x	4,135	111,573	x	0	0	20	0	170,365	286,852 ²
Trout	134	x	279	6,000	x	13,250	x	1,400	660	435	22,158 ²
Steelhead	2,190	0	1,868	0	0	0	0	0	0	0	4,058 ²
Other ¹	x	x	x	x	x	x	x	x	x	x	501 ¹
Total Finfish³	3,083	532	6,282	117,573	3,652	13,250	x	1,420	660	170,800	317,753
Clams	0	0	0	0	0	0	0	0	0	3,885	3,885
Oysters	0	3,070	217	1,060	0	0	0	0	0	5,355	9,702
Mussels	295	8,596	712	278	x	0	0	0	0	10	9,891 ²
Scallops	67	0	15	0	x	0	0	0	0	156	238 ²
Other	3	0	392	0	0	0	0	0	0	0	395
Total Shellfish	365	11,666	1,336	1,338	93	0	0	0	0	9,406	24,204
Total	3,448	12,198	7,618	118,911	3,745	13,250	x	1,420	660	180,206	341,957

¹ Includes Char, Other Finfish and Total Manitoba Finfish.

² Excludes Confidential Data.

³ Excludes "Other" for provinces.

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Table 1. Aquaculture: Production and Value, by Province and Canada, 1996

	N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada ²
Production	tonnes										
Salmon	295	x	1,125	16,380	0	0	0	68	0	27,756	45,624 ²
Trout	24	x	23	550	864	4,240	x	707	110	74	6,592 ²
Steelhead	734	0	363	0	0	0	0	0	0	0	1,097 ²
Other ¹	x	x	x	x	x	x	x	x	x	x	50 ¹
Total Finfish³	1,053	64	1,511	16,930	864	4,240	x	775	110	27,830	53,427
Clams	0	0	0	0	0	0	0	0	0	979	979
Oysters	0	1,676	247	586	0	0	0	0	0	5,480	7,989
Mussels	377	8,817	491	147	66	0	0	0	0	0	9,898 ²
Scallops	19	0	16	0	8	0	0	0	0	142	185 ²
Other	1	0	19	0	0	0	0	0	0	0	20
Total Shellfish	397	10,493	773	733	74	0	0	0	0	6,601	19,071
Total	1,450	10,557	2,284	17,663	938	4,240	x	775	110	34,431	72,498
Value	'000 of dollars										
Salmon	1,665	x	6,736	122,522	0	0	0	300	0	155,931	287,154 ²
Trout	154	x	147	6,000	3,992	19,600	x	3,120	660	391	34,064 ²
Steelhead	3,210	0	1,454	0	0	0	0	0	0	0	4,664 ²
Other ¹	x	x	x	x	x	x	x	x	x	x	245 ¹
Total Finfish³	5,029	806	8,337	128,522	3,992	19,600	x	3,420	660	156,322	326,933
Clams	0	0	0	0	0	0	0	0	0	4,427	4,427
Oysters	0	2,945	913	1,193	0	0	0	0	0	5,659	10,710
Mussels	333	10,693	807	103	66	0	0	0	0	0	12,002 ²
Scallops	104	0	53	0	32	0	0	0	0	858	1,047 ²
Other	19	0	311	0	0	0	0	0	0	0	330
Total Shellfish	456	13,638	2,084	1,296	98	0	0	0	0	10,944	28,516
Total	5,485	14,444	10,421	129,818	4,090	19,600	x	3,420	660	167,266	355,449

¹ Includes Char, Other Finfish and Total Manitoba Finfish.

² Excludes Confidential Data.

³ Excludes "Other" for provinces.

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Table 1. Aquaculture: Production and Value, by Province and Canada, 1997

	N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada ²
Production	tonnes										
Salmon	613	x	1,112	18,585	0	0	0	0	0	36,465	56,775 ²
Trout	14	x	33	550	647	3,725	5	721	3	212	5,910 ²
Steelhead	355	0	591	0	0	0	0	0	0	0	946 ²
Other ¹	x	x	x	x	x	x	x	x	x	x	117 ¹
Total Finfish³	982	94	1,736	19,135	647	3,725	5	721	3	36,677	63,842
Clams	0	0	0	0	0	0	0	0	0	649	649
Oysters	0	1,428	288	265	0	0	0	0	0	3,650	5,631
Mussels	752	9,974	577	137	121	0	0	0	0	9	11,570 ²
Scallops	12	0	16	0	0	0	0	0	0	23	51 ²
Other	4	0	14	0	2	0	0	0	0	0	20
Total Shellfish	768	11,402	895	402	123	0	0	0	0	4,331	17,921
Total	1,750	11,496	2,631	19,537	770	3,725	5	721	3	41,008	81,763
Value	'000 of dollars										
Salmon	2,714	x	6,356	139,016	0	0	0	0	0	175,944	324,030 ²
Trout	93	x	164	6,000	2,763	15,900	23	3,175	12	822	28,952 ²
Steelhead	1,475	0	2,683	0	0	0	0	0	0	0	4,158 ²
Other ¹	x	x	x	x	x	x	x	x	x	x	673 ¹
Total Finfish³	4,282	851	9,203	145,016	2,763	15,900	23	3,175	12	176,766	358,664
Clams	0	0	0	0	0	0	0	0	0	2,902	2,902
Oysters	0	3,181	1,030	567	0	0	0	0	0	3,917	8,695
Mussels	635	12,096	819	108	121	0	0	0	0	19	13,798 ²
Scallops	54	0	55	0	0	0	0	0	0	173	282 ²
Other	40	0	20	0	4	0	0	0	0	0	64
Total Shellfish	729	15,277	1,924	675	125	0	0	0	0	7,011	25,741
Total	5,011	16,128	11,127	145,691	2,888	15,900	23	3,175	12	183,777	384,405

¹ Includes Char, Other Finfish.

² Excludes Confidential Data.

³ Excludes "Other" for provinces.

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Table 1. Aquaculture: Production and Value, by Province and Canada, 1998

	N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada ²
Production	tonnes										
Salmon	401	x	1,785	14,232	0	0	0	0	0	42,200	58,618 ²
Trout	48	x	0	550	835	3,580	14	875	x	60	5,962 ²
Steelhead	1,316	0	1,038	0	0	0	0	0	0	0	2,354 ²
Other ¹	x	x	x	x	x	x	x	x	x	x	402 ¹
Total Finfish³	1,765	99	2,823	14,782	835	3,580	14	875	x	42,260	67,435
Clams	0	0	0	0	0	0	0	0	0	704	704
Oysters	0	1,974	377	286	0	0	0	0	0	5,500	8,137
Mussels	946	12,459	835	680	98	0	0	0	0	0	15,018 ²
Scallops	9	0	21	0	30	0	0	0	0	40	100 ²
Other	7	0	10	0	0	0	0	0	0	0	17
Total Shellfish	962	14,433	1,243	966	128	0	0	0	0	6,244	23,976
Total	2,727	14,532	4,066	15,748	963	3,580	14	875	x	48,504	91,411
Value	'000 of dollars										
Salmon	2,925	x	10,540	106,678	0	0	0	0	0	228,900	349,043 ²
Trout	197	x	0	6,100	3,340	14,200	62	3,859	x	300	28,058 ²
Steelhead	6,919	0	6,095	0	0	0	0	0	0	0	13,014 ²
Other ¹	x	x	x	x	x	x	x	x	x	x	3,862 ¹
Total Finfish³	10,041	882	16,635	112,778	3,340	14,200	62	3,859	x	229,200	394,859
Clams	0	0	0	0	0	0	0	0	0	3,619	3,619
Oysters	0	4,447	1,186	788	0	0	0	0	0	4,900	11,321
Mussels	815	15,110	1,458	1,455	147	0	0	0	0	0	18,985 ²
Scallops	53	0	135	0	180	0	0	0	0	300	668 ²
Other	32	0	23	0	0	0	0	0	0	0	55
Total Shellfish	900	19,557	2,802	2,243	327	0	0	0	0	8,819	34,648
Total	10,941	20,439	19,437	115,021	3,667	14,200	62	3,859	x	238,019	429,507

¹ Includes Char, Other Finfish and Total Alberta Finfish.

² Excludes Confidential Data.

³ Excludes "Other" for provinces.

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Table 1. Aquaculture: Production and Value, by Province and Canada, 1999

	N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada ²
Production	tonnes										
Salmon	399	x	791	22,000	0	0	0	0	0	49,700	72,890 ²
Trout	10	x	0	550	1,192	3,850	4	875	x	100	6,581 ²
Steelhead	2,078	0	3,924	0	0	0	0	0	0	0	6,002 ²
Other ¹	x	x	x	x	x	x	x	x	x	x	595 ¹
Total Finfish³	2,487	82	4,715	22,550	1,192	3,850	4	875	x	49,800	86,150
Clams	0	0	0	0	0	0	0	0	0	800	800
Oysters	0	2,423	776	286	0	0	0	0	0	5,300	8,785
Mussels	1,700	13,890	945	665	197	0	0	0	0	0	17,397 ²
Scallops	0	0	25	0	0	0	0	0	0	30	55 ²
Other	0	0	16	0	25	0	0	0	0	0	41
Total Shellfish	1,700	16,313	1,762	951	222	0	0	0	0	6,130	27,078
Total	4,187	16,395	6,477	23,501	1,414	3,850	4	875	x	55,930	113,228
Value	'000 of dollars										
Salmon	2,462	x	7,022	150,000	0	0	0	0	0	290,600	450,084 ²
Trout	80	x	0	6,100	6,092	15,500	16	3,859	x	400	32,047 ²
Steelhead	11,402	0	17,352	0	0	0	0	0	0	0	28,754 ²
Other ¹	x	x	x	x	x	x	x	x	x	x	5,176 ¹
Total Finfish³	13,944	786	24,374	156,100	6,092	15,500	16	3,859	x	291,000	516,847
Clams	0	0	0	0	0	0	0	0	0	4,200	4,200
Oysters	0	5,075	1,815	788	0	0	0	0	0	5,600	13,278
Mussels	3,800	16,845	1,485	798	316	0	0	0	0	0	23,244 ²
Scallops	0	0	166	0	0	0	0	0	0	100	266 ²
Other	0	0	43	0	26	0	0	0	0	0	69
Total Shellfish	3,800	21,920	3,509	1,586	342	0	0	0	0	9,900	41,057
Total	17,744	22,706	27,883	157,686	6,434	15,500	16	3,859	x	300,900	557,904

¹ Includes Char, Other Finfish and Total Alberta Finfish.

² Excludes Confidential Data.

³ Excludes "Other" for provinces.

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Table 1. Aquaculture: Production and Value, by Province and Canada, 2000

	N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada ²
Production	tonnes										
Salmon	670	x	3,425	29,100	0	0	0	0	0	49,000	82,195 ²
Trout	0	x	0	550	875	4,000	7	875	x	100	6,407 ²
Steelhead	842	0	4,681	0	0	0	0	0	0	0	5,523 ²
Other ¹	x	x	x	x	x	x	x	x	x	x	694 ¹
Total Finfish³	1,512	76	8,106	29,650	875	4,000	7	875	x	49,100	94,895
Clams	0	0	0	0	0	0	0	0	0	1,000	1,000
Oysters	0	2,731	773	620	0	0	0	0	0	5,500	9,624
Mussels	1,051	17,895	1,252	750	339	0	0	0	0	0	21,287 ²
Scallops	0	0	19	0	0	0	0	0	0	50	69 ²
Other	0	0	306	0	53	0	0	0	0	0	359
Total Shellfish	1,051	20,626	2,350	1,370	392	0	0	0	0	6,550	32,339
Total	2,563	20,702	10,456	31,020	1,267	4,000	7	875	x	55,650	127,234
Value	'000 of dollars										
Salmon	4,962	x	18,893	181,500	0	0	0	0	0	278,400	483,755 ²
Trout	0	x	0	6,100	4,674	16,500	27	3,859	x	500	31,660 ²
Steelhead	5,494	0	19,395	0	0	0	0	0	0	0	24,889 ²
Other ¹	x	x	x	x	x	x	x	x	x	x	6,770 ¹
Total Finfish³	10,456	733	38,288	187,600	4,674	16,500	27	3,859	x	278,900	547,807
Clams	0	0	0	0	0	0	0	0	0	6,600	6,600
Oysters	0	6,324	1,891	1,700	0	0	0	0	0	6,600	16,515
Mussels	2,700	21,703	1,442	825	543	0	0	0	0	0	27,213 ²
Scallops	0	0	162	0	0	0	0	0	0	300	462 ²
Other	0	0	1,693	0	82	0	0	0	0	0	1,775
Total Shellfish	2,700	28,027	5,188	2,525	625	0	0	0	0	13,500	52,565
Total	13,156	28,760	43,476	190,125	5,299	16,500	27	3,859	x	292,400	600,372

¹ Includes Char, Other Finfish and Total Alberta Finfish.

² Excludes Confidential Data.

³ Excludes "Other" for provinces.

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Table 1. Aquaculture: Production and Value, by Province and Canada, 2001

	N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada ²
Production	tonnes										
Salmon	1,092	x	2,614	33,900	0	0	0	0	0	68,000	105,606 ²
Trout	0	x	0	550	875	4,135	16	989	x	100	6,665 ²
Steelhead	1,719	0	2,986	0	0	0	0	0	0	0	4,705 ²
Other ¹	x	x	x	x	x	x	x	x	x	x	1,546 ¹
Total Finfish³	2,811	88	5,600	34,450	875	4,135	16	989	x	68,100	118,522
Clams	0	0	0	0	0	0	0	0	0	1,400	1,400
Oysters	0	2,737	438	744	0	0	0	0	0	7,400	11,319
Mussels	1,452	17,513	1,619	439	339	0	0	0	0	0	21,362 ²
Scallops	0	0	8	0	0	0	0	0	0	110	118 ²
Other	0	0	402	0	53	0	0	0	0	0	455
Total Shellfish	1,452	20,250	2,467	1,183	392	0	0	0	0	8,910	34,654
Total	4,263	20,338	8,067	35,633	1,267	4,135	16	989	x	77,010	153,176
Value	'000 of dollars										
Salmon	5,200	x	14,361	180,010	0	0	0	0	0	270,900	470,471 ²
Trout	0	x	0	6,100	4,674	16,100	62	4,971	x	500	32,407 ²
Steelhead	9,752	0	9,777	0	0	0	0	0	0	0	19,529 ²
Other ¹	x	x	x	x	x	x	x	x	x	x	17,270 ¹
Total Finfish³	14,952	811	24,138	186,110	4,674	16,100	62	4,971	x	271,400	539,677
Clams	0	0	0	0	0	0	0	0	0	8,200	8,200
Oysters	0	6,273	1,327	772	0	0	0	0	0	8,400	16,772
Mussels	3,929	23,160	2,002	552	543	0	0	0	0	0	30,186 ²
Scallops	0	0	88	0	0	0	0	0	0	500	588 ²
Other	0	0	2,096	0	82	0	0	0	0	0	2,178
Total Shellfish	3,929	29,433	5,513	1,324	625	0	0	0	0	17,100	57,924
Total	18,881	30,244	29,651	187,434	5,299	16,100	62	4,971	x	288,500	597,601

¹ Includes Char, Other Finfish and Total Alberta Finfish.

² Excludes Confidential Data.

³ Excludes "Other" for provinces.

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Table 1. Aquaculture: Production and Value, by Province and Canada, 2002

	N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Canada ²
Production	tonnes										
Salmon	1,270	x	1,951	38,900	0	0	0	0	0	89,900	132,021 ²
Trout	0	x	0	550	850	4,650	16	914	x	100	7,080 ²
Steelhead	1,600	0	434	0	0	0	0	0	0	0	2,034 ²
Other ¹	x	x	x	x	x	x	x	x	x	x	1,521 ¹
Total Finfish³	2,870	33	2,385	39,450	850	4,650	16	914	x	90,000	142,656
Clams	0	0	0	0	0	0	0	0	0	1,400	1,400
Oysters	0	2,736	349	1,235	0	0	0	0	0	7,200	11,520
Mussels	1,700	16,785	1,073	637	345	0	0	0	0	0	20,540 ²
Scallops	0	0	16	0	0	0	0	0	0	90	106 ²
Other	0	0	374	0	100	0	0	0	0	0	474
Total Shellfish	1,700	19,521	1,812	1,872	445	0	0	0	0	8,690	34,040
Total	4,570	19,554	4,197	41,322	1,295	4,650	16	914	x	98,690	176,696
Value	'000 of dollars										
Salmon	6,132	x	12,504	194,500	0	0	0	0	0	307,600	520,736 ²
Trout	0	x	0	6,100	4,675	17,900	63	4,607	x	500	33,845 ²
Steelhead	8,800	0	1,368	0	0	0	0	0	0	0	10,168 ²
Other ¹	x	x	x	x	x	x	x	x	x	x	18,120 ¹
Total Finfish³	14,932	892	13,872	200,600	4,675	17,900	63	4,607	x	308,100	582,869
Clams	0	0	0	0	0	0	0	0	0	6,900	6,900
Oysters	0	5,727	1,076	1,173	0	0	0	0	0	6,900	14,876
Mussels	5,500	22,202	2,288	801	550	0	0	0	0	0	31,341 ²
Scallops	0	0	152	0	0	0	0	0	0	500	652 ²
Other	0	0	2,247	0	150	0	0	0	0	0	2,397
Total Shellfish	5,500	27,929	5,763	1,974	700	0	0	0	0	14,300	56,166
Total	20,432	28,821	19,635	202,574	5,375	17,900	63	4,607	x	322,400	639,035

¹ Includes Char, Other Finfish and Total Alberta Finfish.

² Excludes Confidential Data.

³ Excludes "Other" for provinces.

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Table 2. Aquaculture: Exports of Selected Canadian Aquaculture Products, by Country of Destination, 1992 and 1993

<i>Destination:</i>	1992			1993		
	Mussels	Other Salmon ¹	Atlantic Salmon	Mussels	Other Salmon ¹	Atlantic Salmon
	tonnes			tonnes		
United States	727	7,744	10,375	1,187	5,242	14,028
California	237	728	652	245	255	459
Maine	307	0	504	516	0	900
Massachusetts	38	374	3,431	98	11	3,133
New York	12	67	470	96	85	580
Washington	47	5,693	4,423	110	4,640	8,506
Other	86	882	895	122	251	450
France	8	0	0	²	0	0
Japan	0	280	1	0	224	10
Taiwan	0	1	0	0	0	0
Other	236	8	1	43	19	3
Total	971	8,033	10,377	1,230	5,485	14,041
	'000 of dollars			'000 of dollars		
United States	1,741	49,545	84,767	2,788	38,011	113,472
California	476	4,986	5,190	519	1,903	3,786
Maine	724	0	4,034	1,106	0	7,584
Massachusetts	161	2,308	27,303	289	93	25,725
New York	32	401	3,626	271	450	4,598
Washington	109	36,229	37,299	277	33,825	68,162
Other	239	5,621	7,315	326	1,740	3,617
France	24	0	0	1	0	0
Japan	0	2,505	10	0	2,082	94
Taiwan	0	3	0	0	0	0
Other	758	42	10	148	120	17
Total	2,523	52,095	84,787	2,937	40,213	113,583

¹ Includes Coho and Spring (Chinook).² Less than 1 tonne.

Table 2. Aquaculture: Exports of Selected Canadian Aquaculture Products, by Country of Destination, 1994 and 1995

<i>Destination:</i>	1994			1995		
	Mussels	Other Salmon ¹	Atlantic Salmon	Mussels	Other Salmon ¹	Atlantic Salmon
	tonnes			tonnes		
United States	1,640	4,225	18,566	2,619	6,363	21,898
California	132	117	1,590	150	110	1,435
Maine	791	0	905	1,155	0	734
Massachusetts	180	62	3,937	286	29	4,876
New York	192	174	1,387	133	5	2,081
Washington	4	3,650	10,163	8	6,155	12,118
Other	341	222	584	887	64	654
France	0	0	0	0	0	0
Japan	1	96	248	0	173	276
Taiwan	0	1	33	0	15	233
Other	36	19	9	3	9	248
Total	1,677	4,341	18,856	2,622	6,560	22,655
	'000 of dollars			'000 of dollars		
United States	4,271	33,509	157,406	7,063	53,396	182,883
California	425	896	12,831	485	799	11,326
Maine	1,714	0	7,571	2,836	0	6,491
Massachusetts	519	392	32,980	772	214	43,685
New York	580	1,037	11,198	372	16	16,974
Washington	10	29,559	88,120	30	51,903	98,434
Other	1,023	1,625	4,706	2,568	464	5,973
France	0	0	0	0	0	0
Japan	5	1,038	2,531	0	1,839	3,190
Taiwan	0	9	264	0	131	2,222
Other	130	58	48	5	85	2,255
Total	4,406	34,614	160,249	7,068	55,451	190,550

¹ Includes Coho and Spring (Chinook).

Source: International Trade Division, Statistics Canada

Table 2. Aquaculture: Exports of Selected Canadian Aquaculture Products, by Country of Destination, 1996 and 1997

<i>Destination:</i>	1996			1997		
	Mussels	Other Salmon ¹	Atlantic Salmon	Mussels	Other Salmon ¹	Atlantic Salmon
	tonnes			tonnes		
United States	3,440	6,922	23,261	4,897	4,703	33,365
California	119	374	844	232	546	3,300
Maine	1,458	0	1,360	1,905	9	1,752
Massachusetts	877	26	6,868	1,741	40	7,277
New York	179	22	2,407	316	44	2,629
Washington	17	6,413	10,561	28	3,927	15,944
Other	790	87	1,221	675	137	2,463
France	0	0	0	0	2	0
Japan	0	28	134	0	81	448
Taiwan	0	0	267	0	13	596
Other	0	2	262	²	0	96
Total	3,440	6,952	23,924	4,897	4,799	34,505
	'000 of dollars			'000 of dollars		
United States	8,757	54,262	186,914	12,450	38,323	271,158
California	321	2,521	5,929	624	3,418	21,510
Maine	3,297	0	10,998	4,046	69	14,428
Massachusetts	2,244	158	56,886	4,573	232	62,823
New York	508	135	19,791	891	278	20,497
Washington	46	50,827	83,298	82	33,395	133,365
Other	2,341	621	10,012	2,234	931	18,535
France	0	0	0	0	16	0
Japan	0	277	1,747	0	848	3,524
Taiwan	0	0	2,348	0	100	4,852
Other	0	16	2,804	2	0	1,166
Total	8,757	54,555	193,813	12,452	39,287	280,700

¹ Includes Coho and Spring (Chinook).² Less than 1 tonne.

Table 2. Aquaculture: Exports of Selected Canadian Aquaculture Products, by Country of Destination, 1998 and 1999

Destination:	1998				1999			
	Mussels	Other Salmon ¹	Atlantic Salmon ²	Atlantic Salmon Fillets ^{3,4}	Mussels	Other Salmon ¹	Atlantic Salmon ²	Atlantic Salmon Fillets ^{3,4}
	tonnes				tonnes			
United States	5,566	5,122	37,141	3,887	6,018	3,647	38,981	5,485
California	361	1,536	2,501	..	313	1,678	7,959	..
Maine	2,082	1	1,114	..	2,669	0	1,237	..
Massachusetts	2,088	75	7,809	..	1,959	9	8,475	..
New York	394	119	2,568	..	519	15	2,659	..
Washington	28	3,114	20,312	..	26	1,610	15,715	..
Other	613	277	2,837	..	532	335	2,936	..
France	143	0	8	..	166	0	20	..
Japan	0	63	774	..	0	360	494	..
Taiwan	0	19	978	..	0	0	603	..
Other	0	3	146	..	8	0	12	..
Total	5,709	5,207	39,047	3,887	6,192	4,007	40,110	5,485
	'000 of dollars				'000 of dollars			
United States	14,305	39,318	296,654	45,307	14,889	27,213	330,281	68,363
California	986	10,630	19,339	..	912	12,272	74,564	..
Maine	4,464	6	8,623	..	5,415	0	9,310	..
Massachusetts	5,806	466	64,036	..	5,462	55	66,106	..
New York	1,100	776	19,972	..	1,390	143	19,410	..
Washington	83	25,578	163,351	..	83	12,264	138,904	..
Other	1,866	1,862	21,333	..	1,627	2,479	21,987	..
France	186	0	75	..	573	0	87	..
Japan	0	610	6,840	..	0	3,749	4,165	..
Taiwan	0	148	7,822	..	0	0	4,898	..
Other	0	22	1,170	..	35	0	121	..
Total	14,491	40,098	312,561	45,307	15,497	30,962	339,552	68,363

¹ Includes Coho and Spring (Chinook).

² Includes fresh, chilled and frozen

³ For years 1998 - 2000 data originate from the United States Bureau of Commerce. Totals include data for United States only; data for other countries not available. For years 2001 onward data originate from International Trade Division, Statistics Canada.

⁴ For years 1998-2000 data on value for Atlantic Salmon fillets converted to Canadian dollars using the Bank of Canada exchange rate.

Table 2. Aquaculture: Exports of Selected Canadian Aquaculture Products, by Country of Destination, 2000 and 2001

Destination:	2000				2001			
	Mussels	Other Salmon ¹	Atlantic Salmon ²	Atlantic Salmon Fillets ^{3,4}	Mussels	Other Salmon ¹	Atlantic Salmon ²	Atlantic Salmon Fillets ³
	tonnes				tonnes			
United States	7,760	2,978	40,535	7,851	8,445	3,242	48,734	13,352
California	310	1,164	8,645	..	250	1,320	12,123	1,624
Maine	3,068	0	796	..	3,387	0	803	458
Massachusetts	2,821	4	8,787	..	3,308	87	6,890	784
New York	586	14	3,319	..	652	79	4,529	397
Washington	9	1,283	14,510	..	10	1,311	14,406	6,173
Other	966	513	4,478	..	838	445	9,983	3,916
France	24	0	0	..	0	0	0	0
Japan	45	193	265	..	63	44	572	81
Taiwan	0	2	769	..	0	64	1,312	0
Other	0	0	150	..	8	0	139	0
Total	7,829	3,173	41,719	7,851	8,516	3,350	50,757	13,433
	'000 of dollars				'000 of dollars			
United States	19,341	23,249	327,399	94,944	22,017	19,571	387,282	153,325
California	899	9,135	81,782	..	802	8,077	109,443	14,506
Maine	6,429	0	6,033	..	7,640	0	6,778	8,592
Massachusetts	7,524	28	68,276	..	9,146	356	48,287	9,897
New York	1,628	128	26,524	..	1,823	504	34,469	5,530
Washington	35	9,808	110,544	..	36	7,568	108,563	69,448
Other	2,826	4,150	34,240	..	2,570	3,066	79,742	45,352
France	97	0	0	..	0	0	0	0
Japan	201	1,890	2,205	..	264	314	4,218	573
Taiwan	0	14	6,227	..	0	494	10,118	0
Other	0	0	1,109	..	20	0	1,044	0
Total	19,639	25,153	336,940	94,944	22,301	20,379	402,662	153,898

¹ Includes Coho and Spring (Chinook).² Includes fresh, chilled and frozen³ For years 1998 - 2000 data originate from the United States Bureau of Commerce. Totals include data for United States only; data for other countries not available. For years 2001 onward data originate from International Trade Division, Statistics Canada.⁴ For years 1998-2000 data on value for Atlantic Salmon fillets converted to Canadian dollars using the Bank of Canada exchange rate.

Table 2. Aquaculture: Exports of Selected Canadian Aquaculture Products, by Country of Destination, 2002

<i>Destination:</i>	2002			
	Mussels	Other Salmon ¹	Atlantic Salmon ²	Atlantic Salmon Fillets ³
	tonnes			
United States	7,826	4,209	56,397	14,639
California	139	1,322	13,312	1,850
Maine	3,422	0	3,384	1,559
Massachusetts	2,857	612	8,820	849
New York	628	171	7,090	458
Washington	14	1,459	15,977	6,246
Other	766	645	7,814	3,677
France	0	0	18	0
Japan	17	392	906	92
Taiwan	0	0	514	1
Other	5	22	521	0
Total	7,848	4,623	58,356	14,732
	'000 of dollars			
United States	21,926	22,316	420,284	160,545
California	530	7,714	111,672	15,770
Maine	8,132	0	24,712	20,518
Massachusetts	8,773	2,467	58,485	9,897
New York	2,006	1,058	51,765	6,374
Washington	52	7,222	116,278	65,196
Other	2,433	3,855	57,372	42,790
France	0	0	113	0
Japan	73	2,236	7,177	975
Taiwan	0	0	3,200	3
Other	24	82	2,700	0
Total	22,023	24,634	433,474	161,523

¹ Includes Coho and Spring (Chinook).

² Includes fresh, chilled and frozen

³ For years 1998 - 2000 data originate from the United States Bureau of Commerce. Totals include data for United States only; data for other countries not available. For years 2001 onward data originate from International Trade Division, Statistics Canada.

Table 3. Aquaculture: Value Added Account - Aquaculture Industry¹, by Province and Canada, 1997

	N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	B.C.	Canada ²
	'000 of dollars							
A. Sources of output								
Sales of aqua products/services	6,300	16,400	11,200	162,000	8,700	17,900	224,800	447,300
Whole fish dressed, fresh or chilled	..	..	7,800	110,000	2,900	..	170,000	291,100
Fish eggs & live fish for grow-out	..	..	1,000	17,000	..	..	16,000	36,100
Whole fish live (ex for grow-out)	..	..	..	..	3,100	..	..	10,800
Whole fish dressed & frozen	..	..	..	..	..	..	..	12,500
Fish fillets, fresh or frozen	..	..	..	..	..	..	17,500	35,800
Fish, dried, smoked or in brine	..	..	..	..	..	..	..	500
Total finfish	5,600	800	9,000	157,700	8,500	17,500	206,000	405,100
Total molluscs	700	15,400	2,000	3,000	..	..	10,000	31,250
Other goods & services NES ³	..	200	200	1,300	..	..	8,800	10,950
Subsidies	500	..	500	100	..	..	1,200	2,700
Other operating revenue	200	100	100	1,900	..	..	4,000	11,400
Total operating revenue	7,000	16,500	11,800	164,000	9,100	23,000	230,000	461,400
Change in inventory value - goods	1,000	..	2,900	2,000	-1,000	..	45,000	49,900
Gross output	8,000	16,500	14,700	166,000	8,100	23,000	275,000	511,300
B. Product inputs								
Product expenses	4,650	5,000	9,110	109,700	5,090	14,880	178,500	326,930
Feed	2,200	200	3,800	37,000	2,300	6,500	69,000	121,000
Therapeutants	300	..	200	1,500	50	80	3,000	5,130
Purchases, eggs/fish - grow-out	300	..	3,000	7,400	..	4,000	28,000	44,600
Purchases, fish - processing/resale	..	..	..	39,000	..	..	4,000	43,200
Insurance premiums	50	150	140	2,050	100	300	5,000	7,790
Energy (electricity, fuel, etc.)	200	250	300	1,900	400	700	3,000	6,750
Goods transportation & storage	300	..	150	4,000	100	200	12,000	16,750
Processing services	600	1,200	200	4,000	..	..	28,000	34,350
Rental & leasing expenses	50	200	70	120	50	200	2,300	2,990
Maintenance/repairs, buildings	150	650	100	200	100	400	2,000	3,600
Maintenance/repairs, machinery	150	300	300	2,000	200	350	4,000	7,300
Professional services	110	300	290	1,910	170	..	6,600	9,380
Other operating expenses NES ³	240	850	560	8,620	370	1,850	11,600	24,090
Change in inventory value -raw materials	..	..	100	500	..	..	1,000	1,600
Total of product inputs	4,650	5,000	9,010	109,200	5,090	14,880	177,500	325,330
C. Gross value added (factor cost)	3,350	11,500	5,690	56,800	3,010	8,120	97,500	185,970
D. Selected primary inputs								
Salaries & wages	2,300	6,500	4,000	23,200	1,700	4,000	30,000	71,700
Employer portion of employee benefits	200	650	300	1,800	200	300	3,000	6,450
Depreciation	600	1,500	800	5,500	600	1,000	9,500	19,500
Interest paid	500	350	500	4,200	350	1,000	5,000	11,900

¹ This account is experimental in nature and should be used with caution. Data and account structure are subject to revision.² Sum of estimated provinces excludes Manitoba, Saskatchewan & Alberta.³ NES = not elsewhere specified.

Table 3. Aquaculture: Value Added Account - Aquaculture Industry¹, by Province and Canada, 1998

	N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	B.C.	Canada ²
	'000 of dollars							
A. Sources of output								
Sales of aqua products/services	9,400	21,100	19,100	181,150	9,250	16,400	263,700	520,100
Whole fish dressed, fresh or chilled	..	..	6,000	122,000	3,000	..	178,000	309,000
Fish eggs & live fish for grow-out	..	..	6,500	16,000	..	..	24,000	47,900
Whole fish live (ex for grow-out)	..	..	..	8,000	3,200	..	..	28,300
Whole fish dressed & frozen	..	..	..	..	..	..	..	8,000
Fish fillets, fresh or frozen	..	..	..	..	..	..	26,000	53,800
Fish, dried, smoked or in brine	..	..	..	..	..	..	..	500
Total finfish	8,500	900	16,000	174,000	9,000	16,000	248,500	472,900
Total molluscs	900	20,000	3,000	3,000	..	..	10,000	37,050
Other goods & services NES ³	..	200	100	4,150	..	..	5,200	10,150
Subsidies	1,800	..	300	3,700	..	..	..	6,800
Other operating revenue	80	100	100	1,950	..	..	..	13,030
Total operating revenue	11,280	21,200	19,500	186,800	9,500	21,550	270,100	539,930
Change in inventory value - goods	750	..	4,500	3,000	200	..	15,000	24,750
Gross output	12,030	21,800	24,000	189,800	9,700	22,250	285,100	564,680
B. Product inputs								
Product expenses	8,650	6,000	14,620	118,250	5,630	14,150	174,140	341,440
Feed	4,600	250	6,000	39,000	2,400	6,000	83,000	141,250
Therapeutants	400	..	400	1,300	50	100	3,700	5,950
Purchases, eggs/fish - grow-out	500	..	5,000	16,000	..	3,500	14,000	41,000
Purchases, fish - processing/resale	..	..	200	36,000	..	..	4,000	40,400
Insurance premiums	50	200	400	2,050	100	300	4,300	7,400
Energy (electricity, fuel, etc.)	300	300	500	1,500	500	800	3,200	7,100
Goods transportation & storage	400	..	250	4,100	100	200	12,000	17,050
Processing services	850	1,200	300	3,600	..	..	23,000	29,300
Rental & leasing expenses	300	250	200	500	50	200	2,200	3,700
Maintenance/repairs, buildings	200	700	100	1,000	150	400	1,600	4,150
Maintenance/repairs, machinery	100	350	350	2,200	250	400	4,500	8,150
Professional services	450	350	130	1,550	150	..	2,410	5,040
Other operating expenses NES ³	500	1,400	790	9,450	630	1,950	16,230	30,950
Change in inventory value -raw materials	-100	..	100	1,500	100	200	1,000	2,800
Total of product inputs	8,750	6,000	14,520	116,750	5,530	13,950	173,140	338,640
C. Gross value added (factor cost)	3,280	15,800	9,480	73,050	4,170	8,300	111,960	226,040
D. Selected primary inputs								
Salaries & wages	3,000	8,000	6,000	20,000	1,800	4,000	30,500	73,300
Employer portion of employee benefits	300	800	500	1,700	200	300	3,000	6,800
Depreciation	700	1,900	1,500	5,800	600	1,050	14,000	25,550
Interest paid	700	450	700	5,000	350	1,200	6,000	14,400

¹ This account is experimental in nature and should be used with caution. Data and account structure are subject to revision.² Sum of estimated provinces excludes Manitoba, Saskatchewan & Alberta.³ NES = not elsewhere specified.

Table 3. Aquaculture: Value Added Account - Aquaculture Industry¹, by Province and Canada, 1999

	N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	B.C.	Canada ²
	'000 of dollars							
A. Sources of output								
Sales of aqua products/services	12,800	23,300	29,400	228,360	11,170	17,000	299,400	621,430
Whole fish dressed, fresh or chilled	..	..	8,000	150,000	800	..	219,700	378,500
Fish eggs & live fish for grow-out	..	..	200	22,000	3,000	..	20,000	45,200
Whole fish live (ex for grow-out)	..	..	..	..	4,100	..	..	14,100
Whole fish dressed & frozen	..	..	9,000	..	..	..	..	14,700
Fish fillets, fresh or frozen	..	..	8,200	37,000	2,200	..	42,000	89,400
Fish, dried, smoked or in brine	..	..	..	..	470	..	..	770
Total finfish	9,800	800	25,400	220,700	10,570	16,900	286,000	570,170
Total molluscs	3,000	22,300	3,500	4,000	200	..	11,750	44,750
Other goods & services NES ³	..	200	500	3,660	400	100	1,650	6,510
Subsidies	600	..	300	200	70	..	..	2,020
Other operating revenue	115	100	100	7,420	130	..	..	27,865
Total operating revenue	13,515	23,400	29,800	235,980	11,370	22,350	314,900	651,315
Change in inventory value - goods	1,400	600	5,800	30,000	..	320	18,000	56,120
Gross output	14,915	24,000	35,600	265,980	11,370	22,670	332,900	707,435
B. Product inputs								
Product expenses	8,935	7,050	18,675	177,815	5,945	15,050	199,505	432,975
Feed	5,000	300	8,200	60,000	2,500	6,000	95,000	177,000
Therapeutants	..	..	..	2,100	150	100	4,000	6,850
Purchases, eggs/fish - grow-out	550	1,050	4,500	22,000	710	4,500	16,000	49,310
Purchases, fish - processing/resale	..	..	200	59,000	150	..	9,200	68,550
Insurance premiums	150	200	725	2,500	150	300	4,100	8,125
Energy (electricity, fuel, etc.)	300	300	500	1,900	900	700	3,200	7,800
Goods transportation & storage	500	..	425	4,900	35	200	9,500	15,560
Processing services	800	1,400	..	5,000	..	300	22,150	29,760
Rental & leasing expenses	350	250	150	1,200	30	200	2,000	4,180
Maintenance/repairs, buildings	..	900	100	1,100	..	400	1,200	4,105
Maintenance/repairs, machinery	100	400	350	3,400	360	350	5,000	9,960
Professional services	360	350	1,000	2,080	275	..	3,480	7,545
Other operating expenses NES ³	375	1,900	2,175	12,635	470	2,000	24,675	44,230
Change in inventory value -raw materials	..	..	700	800	-600	-30	600	1,470
Total of product inputs	8,935	7,050	17,975	177,015	6,545	15,080	198,905	431,505
C. Gross value added (factor cost)	5,980	16,950	17,625	88,965	4,825	7,590	133,995	275,930
D. Selected primary inputs								
Salaries & wages	3,200	9,000	7,500	25,000	2,200	3,900	35,000	85,800
Employer portion of employee benefits	350	900	700	2,500	200	300	4,000	8,950
Depreciation	800	2,100	1,700	7,000	800	1,100	16,000	29,500
Interest paid	400	500	1,600	6,000	400	800	6,200	15,900

¹ This account is experimental in nature and should be used with caution. Data and account structure are subject to revision.² Sum of estimated provinces excludes Manitoba, Saskatchewan & Alberta.³ NES = not elsewhere specified.

Table 3. Aquaculture: Value Added Account - Aquaculture Industry¹, by Province and Canada, 2000

	N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	B.C.	Canada ²
	'000 of dollars							
A. Sources of output								
Sales of aqua products/services	12,200	29,000	43,500	281,900	12,000	17,600	296,300	692,500
Whole fish dressed, fresh or chilled	..	..	15,000	187,000	900	..	217,000	419,900
Fish eggs & live fish for grow-out	..	..	1,000	25,000	3,300	..	19,500	48,800
Whole fish live (ex for grow-out)	..	..	..	11,500	4,100	..	..	15,600
Whole fish dressed & frozen	..	..	12,000	2,000	..	..	4,000	18,000
Fish fillets, fresh or frozen	..	..	9,000	46,700	2,300	..	41,000	99,000
Fish, dried, smoked or in brine	..	..	..	200	600	..	100	900
Total finfish	9,200	1,000	37,000	272,400	11,200	17,500	281,600	629,900
Total molluscs	3,000	27,800	5,500	5,500	400	..	13,000	55,200
Other goods & services NES ³	..	200	1,000	4,000	400	100	1,700	7,400
Subsidies	600	..	400	400	..	..	500	2,170
Other operating revenue	200	100	100	7,600	..	..	15,000	28,200
Total operating revenue	13,000	29,100	44,000	289,900	12,270	22,800	311,800	722,870
Change in inventory value - goods	..	300	3,000	25,000	100	200	25,000	53,600
Gross output	13,000	29,400	47,000	314,900	12,370	23,000	336,800	776,470
B. Product inputs								
Product expenses	8,450	8,100	25,900	209,500	6,800	15,000	200,700	474,450
Feed	4,400	350	12,000	72,000	2,700	5,900	92,000	189,350
Therapeutants	300	..	500	2,500	200	100	4,300	7,900
Purchases, eggs/fish - grow-out	500	1,300	6,000	28,000	800	4,500	17,000	58,100
Purchases, fish - processing/resale	..	..	..	65,000	..	..	9,500	75,000
Insurance premiums	150	250	1,000	2,500	200	300	4,300	8,700
Energy (electricity, fuel, etc.)	300	350	1,000	3,000	1,100	700	3,500	9,950
Goods transportation & storage	500	..	600	6,000	50	200	9,700	17,050
Processing services	..	1,650	..	6,000	..	300	23,000	31,950
Rental & leasing expenses	350	300	200	2,000	50	200	2,200	5,300
Maintenance/repairs, buildings	250	1,000	200	2,000	200	400	1,400	5,450
Maintenance/repairs, machinery	100	450	500	4,000	400	400	5,500	11,350
Professional services	400	400	1,000	2,500	300	..	3,500	8,100
Other operating expenses NES ³	400	2,050	2,500	14,000	500	2,000	24,800	46,250
Change in inventory value -raw materials	..	..	500	1,000	200	100	..	1,800
Total of product inputs	8,450	8,100	25,400	208,500	6,600	14,900	200,700	472,650
C. Gross value added (factor cost)	4,550	21,300	21,600	106,400	5,770	8,100	136,100	303,820
D. Selected primary inputs								
Salaries & wages	2,800	10,000	8,000	26,000	2,200	4,000	37,000	90,000
Employer portion of employee benefits	250	1,100	900	2,800	200	300	4,000	9,550
Depreciation	850	2,400	2,000	7,500	800	1,100	16,500	31,150
Interest paid	400	550	2,000	6,500	400	800	6,300	16,950

¹ This account is experimental in nature and should be used with caution. Data and account structure are subject to revision.² Sum of estimated provinces excludes Manitoba, Saskatchewan & Alberta.³ NES = not elsewhere specified.

Table 3. Aquaculture: Value Added Account - Aquaculture Industry¹, by Province and Canada, 2001

	N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	B.C.	Canada ²
	'000 of dollars							
A. Sources of output								
Sales of aqua products/services	14,200	29,400	26,900	277,100	12,230	17,800	293,400	671,030
Whole fish dressed, fresh or chilled	..	..	6,200	184,000	1,200	..	190,000	381,400
Fish eggs & live fish for grow-out	..	..	1,500	24,000	3,300	..	15,100	43,900
Whole fish live (ex for grow-out)	..	..	400	11,500	4,130	..	..	16,030
Whole fish dressed & frozen	..	..	4,000	2,000	..	..	7,000	13,000
Fish fillets, fresh or frozen	..	..	6,200	48,000	2,200	..	61,500	117,900
Fish, dried, smoked or in brine	..	..	..	..	600	..	100	700
Total finfish	10,400	1,000	18,300	269,500	11,430	17,700	273,700	602,030
Total molluscs	3,800	28,200	7,000	3,500	500	..	18,000	61,000
Other goods & services NES ³	..	200	1,600	4,100	300	100	1,700	8,000
Subsidies	500	..	300	400	..	..	500	1,970
Other operating revenue	300	100	200	5,000	..	..	14,000	24,800
Total operating revenue	15,000	29,500	27,400	282,500	12,500	23,000	307,900	697,800
Change in inventory value - goods	..	100	-1,000	15,000	..	300	20,000	34,400
Gross output	15,000	29,600	26,400	297,500	12,500	23,300	327,900	732,200
B. Product inputs								
Product expenses	9,450	8,250	16,050	207,900	6,950	14,300	204,400	467,300
Feed	4,800	325	7,500	75,000	2,800	5,900	100,000	196,325
Therapeutants	350	..	300	2,400	200	100	4,300	7,650
Purchases, eggs/fish - grow-out	550	1,375	3,000	27,500	750	4,500	13,000	50,675
Purchases, fish - processing/resale	..	..	..	62,500	..	..	8,000	70,950
Insurance premiums	150	250	600	2,500	250	300	5,000	9,050
Energy (electricity, fuel, etc.)	400	400	600	3,300	1,100	700	3,800	10,300
Goods transportation & storage	550	..	500	6,100	50	200	9,300	16,700
Processing services	850	1,700	100	6,000	100	300	24,000	33,050
Rental & leasing expenses	400	300	..	2,000	..	200	2,400	5,600
Maintenance/repairs, buildings	300	1,025	150	1,000	200	300	1,200	4,175
Maintenance/repairs, machinery	200	425	550	4,100	400	300	6,000	11,975
Professional services	400	400	400	2,500	300	..	3,700	7,700
Other operating expenses NES ³	500	2,050	1,900	13,000	500	1,500	23,700	43,150
Change in inventory value -raw materials	..	..	-100	..	100	100	2,000	2,100
Total of product inputs	9,450	8,250	16,150	207,900	6,850	14,200	202,400	465,200
C. Gross value added (factor cost)	5,550	21,350	10,250	89,600	5,650	9,100	125,500	267,000
D. Selected primary inputs								
Salaries & wages	3,000	10,500	7,000	29,000	2,500	4,100	38,000	94,100
Employer portion of employee benefits	300	1,200	700	3,000	200	350	4,100	9,850
Depreciation	600	2,500	1,200	8,500	800	1,000	19,000	33,600
Interest paid	350	500	1,500	6,300	400	750	7,000	16,800

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Table 3. Aquaculture: Value Added Account - Aquaculture Industry¹, by Province and Canada, 2002

	N.L.	P.E.I.	N.S.	N.B.	Que.	Ont.	B.C.	Canada ²
	'000 of dollars							
A. Sources of output								
Sales of aqua products/services	15,400	27,700	24,300	282,300	12,800	19,700	329,600	711,800
Whole fish dressed, fresh or chilled	..	..	3,450	180,000	1,150	..	210,100	394,700
Fish eggs & live fish for grow-out	..	..	3,000	25,500	3,650	..	16,500	48,650
Whole fish live (ex for grow-out)	..	..	800	12,000	4,500	..	..	17,300
Whole fish dressed & frozen	..	..	2,950	..	..	..	6,900	9,850
Fish fillets, fresh or frozen	..	..	5,800	57,500	2,100	..	76,000	141,400
Fish, dried, smoked or in brine	..	..	..	..	600	..	100	700
Total finfish	11,200	1,000	16,000	275,000	12,000	19,500	309,600	644,300
Total molluscs	4,200	26,500	7,300	3,800	500	..	19,000	61,300
Other goods & services NES ³	..	200	1,000	3,500	300	200	1,000	6,200
Subsidies	550	..	100	300	..	..	350	1,620
Other operating revenue	350	100	100	4,000	..	..	8,000	18,900
Total operating revenue	16,300	27,800	24,500	286,600	13,250	25,920	337,950	732,320
Change in inventory value - goods	..	200	..	27,000	100	100	-25,000	2,400
Gross output	16,300	28,000	24,500	313,600	13,350	26,020	312,950	734,720
B. Product inputs								
Product expenses	9,625	8,400	14,500	215,400	7,320	14,500	235,300	505,045
Feed	5,150	350	6,800	78,000	2,700	6,200	120,000	219,200
Therapeutants	350	..	350	3,100	150	100	4,500	8,550
Purchases, eggs/fish - grow-out	500	1,500	3,100	29,000	800	3,500	12,000	50,400
Purchases, fish - processing/resale	..	..	250	67,500	250	..	8,100	76,100
Insurance premiums	175	260	500	2,800	270	350	6,000	10,355
Energy (electricity, fuel, etc.)	450	450	750	3,300	1,200	800	4,500	11,450
Goods transportation & storage	450	500	450	6,000	100	250	15,000	22,750
Processing services	750	1,600	100	8,000	100	250	30,000	40,800
Rental & leasing expenses	425	280	200	2,100	200	250	2,200	5,655
Maintenance/repairs, buildings	250	1,100	200	1,600	250	350	1,300	5,050
Maintenance/repairs, machinery	275	450	350	3,500	350	350	7,000	12,275
Professional services	350	410	450	1,500	400	..	4,700	7,810
Other operating expenses NES ³	500	1,500	1,000	9,000	550	2,100	20,000	34,650
Change in inventory value -raw materials	..	..	100	-100	..	100	600	700
Total of product inputs	9,625	8,400	14,400	215,500	7,320	14,400	234,700	504,345
C. Gross value added (factor cost)	6,675	19,600	10,100	98,100	6,030	11,620	78,250	230,375
D. Selected primary inputs								
Salaries & wages	3,200	10,800	6,000	31,000	3,000	4,300	41,000	99,300
Employer portion of employee benefits	300	1,200	600	3,000	200	400	4,100	9,800
Depreciation	800	2,000	1,300	9,500	850	900	23,500	38,850
Interest paid	325	500	1,000	6,500	350	800	9,000	18,475

¹ This account is experimental in nature and should be used with caution. Data and account structure are subject to revision.² Sum of estimated provinces excludes Manitoba, Saskatchewan & Alberta.³ NES = not elsewhere specified.