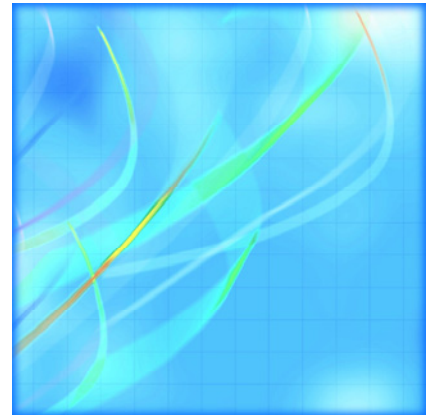




Catalogue no. 23-222-XIE

Aquaculture statistics

2004



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Statistics Canada
Agriculture Division
Livestock Section

Aquaculture statistics

2004

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Note of appreciation

Canada owes the success of its statistical system to a long standing partnership between Statistics Canada, the citizens of Canada, its businesses, governments and other institutions. Accurate and timely statistical information could not be produced without their continued cooperation and goodwill.

User information

Symbols

The following standard symbols are used in Statistics Canada publications:

- . not available for any reference period
- .. not available for a specific reference period
- ... not applicable
- 0 true zero or a value rounded to zero
- 0^s value rounded to 0 (zero) where there is a meaningful distinction between true zero and the value that was rounded
- 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

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Highlights

- Revenues generated by Canada's aquaculture industry fell for the second year in a row in 2004 in the wake of a decline in production and exports.
- The industry reported operating revenues of \$668.9 million in 2004, down 9.3% from 2003 and 11.3% from the \$754.4 million peak in 2002.
- Finfish sales fell 10.4% to \$580.9 million the result of a 12.3% decrease in the value of salmon production, which dominates the industry.
- The value of aquaculture exports plunged 13.4% to \$424.9 million.
- Revenue from molluscs dipped slightly to stand at \$67.5 million.
- The gross value added by the industry to the economy reached \$198.2 million, a 5.5% drop from 2003.

Introduction

Aquaculture is defined as 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.

The annual publication, Aquaculture Statistics 23-222-X, presents an overview of this sector using data collected from two survey programs in particular.

The annual Aquaculture production and value report collects data on estimated aquaculture production and value for Canada and the provinces each year beginning in 1997. The administrative data are provided 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. Prior to 1997 the data were collected and provided by Fisheries and Oceans Canada.

The Survey of the Aquaculture Industry is designed to provide economic variables that result in the aquaculture value added account, which measures the economic production (value added) of goods and services from aquaculture establishments.

The data presented are used by aquaculture industry analysts and producers as they make production and marketing decisions and by government analysts or special interest groups to monitor the industry or develop policies related to aquaculture in Canada. The data are also used in the Canadian System of National Accounts to develop provincial and national level accounts.

Analysis

Revenues generated by Canada's aquaculture industry fell for the second year in a row in 2004 in the wake of a decline in production and exports.

The industry reported operating revenues of \$668.9 million in 2004, down 9.3% from 2003 and 11.3% from the \$754.4 million peak in 2002.

Finfish sales, which accounted for almost 87% of total operating revenues, were down for the second consecutive year. They fell 10.4% to \$580.9 million, the result of a 12.3% decrease in the value of salmon production, which dominates the industry.

The value of aquaculture exports plunged 13.4% to \$424.9 million. The most significant contributor to this decline was a 28.0 % drop in the value of Atlantic salmon fillets exported to the United States, Canada's most important market.

Finfish sales fell in both of the country's largest aquaculture producing provinces – New Brunswick and British Columbia. Lower prices for farmed salmon, attributable to increased international competition, along with a strengthened Canadian dollar, were the main factors.

Lower salmon production in British Columbia resulted in a 12.2 % decline in finfish revenues to \$283.2 million. In New Brunswick, fish farmers increased their production. However, sales declined 8.0% to \$242.0 million.

Revenue from molluscs dipped slightly to stand at \$67.5 million. Sales in Prince Edward Island, which accounted for 44.4% of mollusc production in Canada, dropped 3.2%.

Nationally, product expenses grew a modest 1.3% to \$529.9 million last year. These consist of the cost of products and services purchased from other businesses, excluding capital and labour costs.

Purchases of fish and eggs, along with processing, transportation and storage and energy costs increased notably in 2004. However, feed costs, which account for 45.0 % of all product expenses for finfish producers, remained stable at \$238.3 million.

The aquaculture industry produced a gross output, including sales, subsidies and inventory change of \$726.1 million in 2004, virtually unchanged from a year ago.

The gross value added by the industry to the economy, the difference between gross output and total product expenses, reached \$198.2 million, a 5.5% drop from 2003.

Note: The article **Taking stock: A profile of Canada's aquaculture industry** will appear in the October 2005 issue of the newsletter **Vista on the agri-food industry and the farm community** (21-004-X, Free) to be released October 25. From 'Our products and service' page, under Browse our Internet publications, choose Free, then Agriculture.

Chart 1

Canadian finfish production

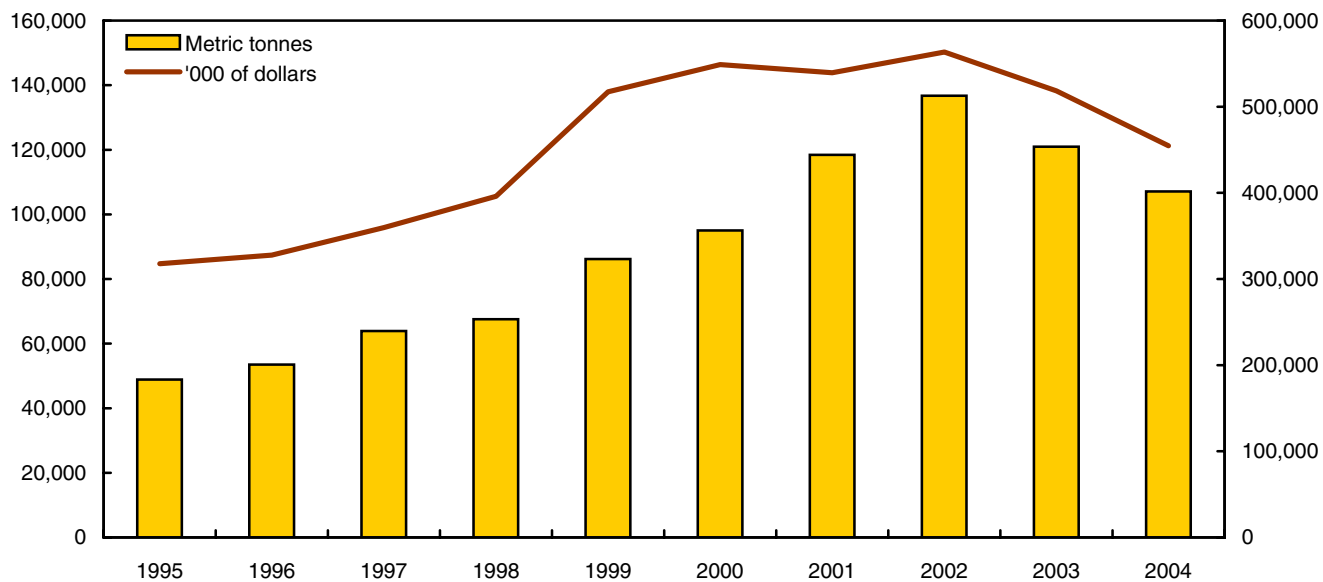


Chart 2

Canadian shellfish production

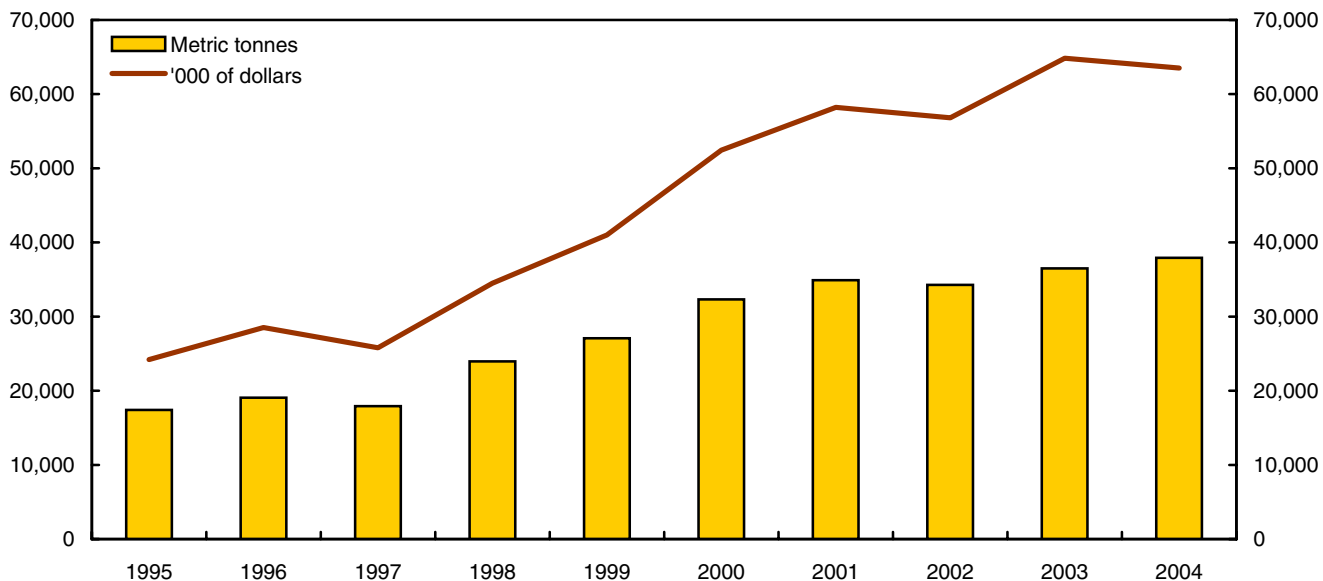


Chart 3

Canadian exports of atlantic salmon and atlantic salmon fillets

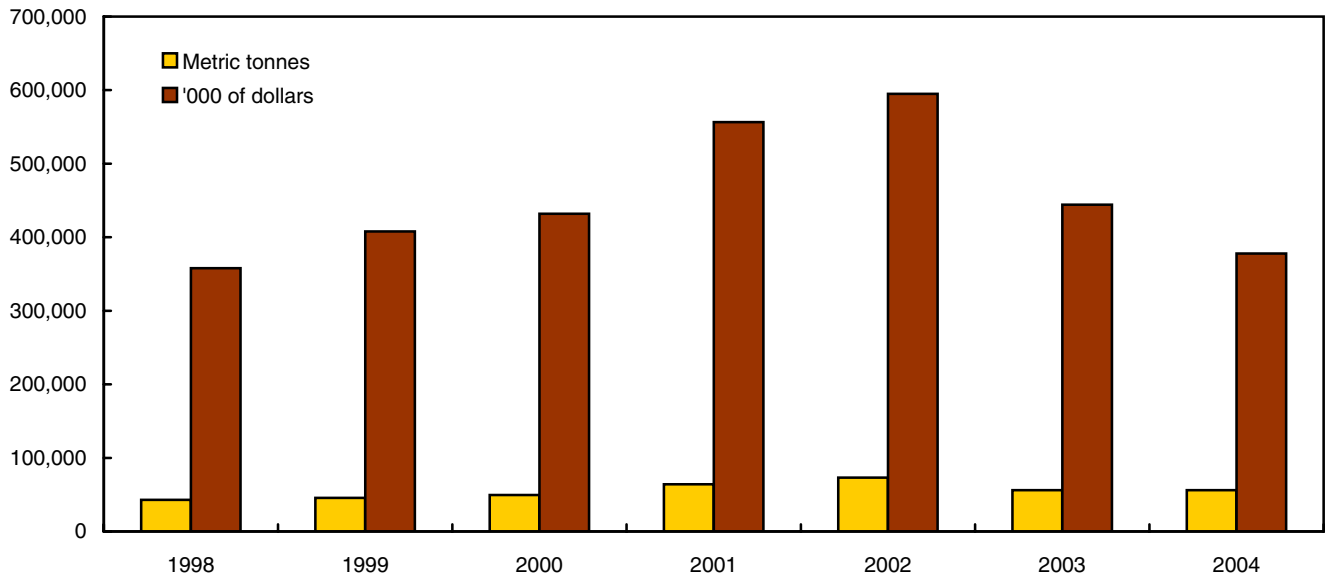
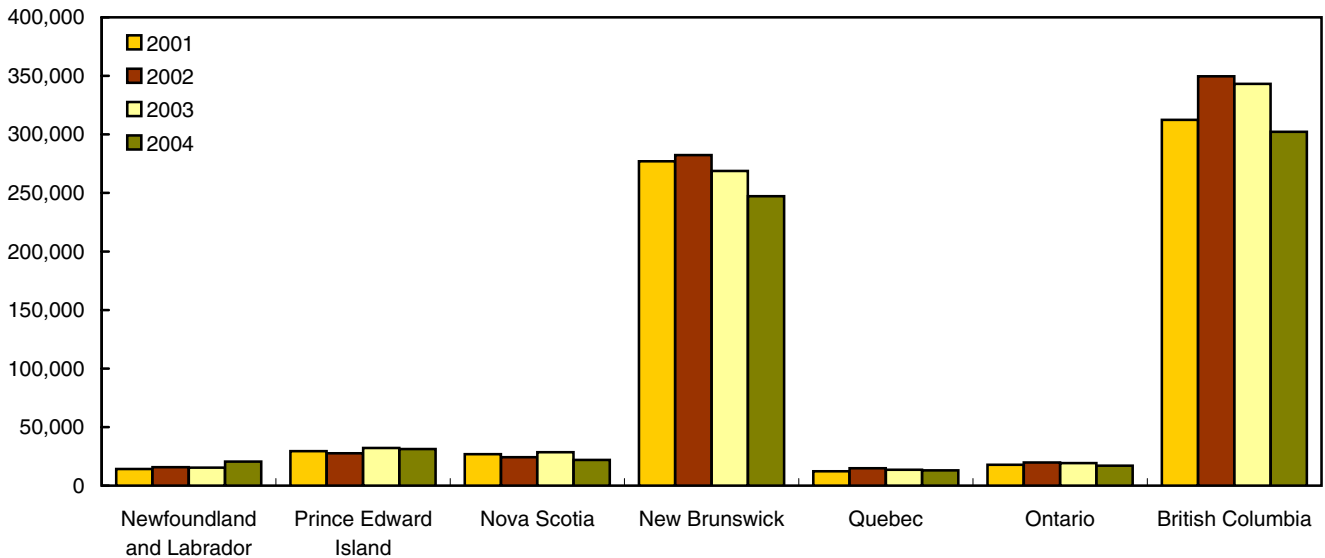


Chart 4

Sales of aquaculture products & services

'000 of dollars



Related products

Selected publications from Statistics Canada

21-206-X	Statistics on income of farm operators
21-207-X	Statistics on income of farm families

Selected CANSIM tables from Statistics Canada

003-0001	Aquaculture, production and value
003-0003	Aquaculture economic statistics, value added account

Selected surveys from Statistics Canada

2927	Canadian Aquaculture Industry Survey
3479	Aquaculture, production and value, annual
4701	Survey of the Aquaculture Industry

Selected tables of Canadian statistics from Statistics Canada

- *Canadian Statistics - Aquaculture industry, by provinces*

Statistical tables

Table 1-1

 Aquaculture, production and value¹, by province and Canada — 1991

	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia	Canada
tonnes											
Production											
Salmon ³	66	x	601	9,000	x	80	0	0	0	24,362	34,109
Trout ³	10	x	0	272	x	2,300	x	110	34	113	2,839
Steelhead ³	76	0	409	0	0	0	0	0	0	0	485
Other finfish ⁴	x	x	x	x	x	x	x	x	x	x	34
Total finfish ²	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 ³	320	3,404	177	55	x	0	0	0	0	0	3,956
Scallops ³	2	0	0	0	x	0	0	0	0	0	2
Other shellfish	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 aquaculture ²	474	5,141	1,242	9,463	1,590	2,380	x	110	34	29,126	49,594
'000 of dollars											
Value											
Salmon ³	260	x	3,965	80,000	x	400	0	0	0	110,913	195,538
Trout ³	30	x	0	1,700	x	10,500	x	240	187	538	13,195
Steelhead ³	250	0	2,130	0	0	0	0	0	0	0	2,380
Other finfish ⁴	x	x	x	x	x	x	x	x	x	x	266
Total finfish ²	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 ³	560	4,000	195	120	x	0	0	0	0	0	4,875
Scallops ³	8	0	0	0	x	0	0	0	0	0	8
Other shellfish	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 aquaculture ²	1,108	6,973	6,397	82,270	9,746	10,900	x	240	187	115,472	233,559

1. The production and value of aquaculture includes the amount and value produced on sites and excludes hatcheries or processing. Shellfish also includes some wild production. The data, collected from each of the provincial departments responsible for aquaculture, are considered accurate and reliable. The data will continue to be collected and released in the year following the reference year.

2. Excludes other finfish for all provinces.

3. Excludes confidential data at Canada level.

4. Other finfish data is only available at the Canada level and includes confidential data from the provinces.

Table 1-2

Aquaculture, production and value¹, by province and Canada — 1992

	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia	Canada
tonnes											
Production											
Salmon ³	75	x	416	10,000	x	20	0	0	0	19,814	30,325
Trout ³	3	x	0	375	x	2,800	x	160	96	77	3,511
Steelhead ³	88	0	328	0	0	0	0	0	0	0	416
Other finfish ⁴	x	x	x	x	x	x	x	x	x	x	89
Total finfish ²	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 ³	160	4,186	406	125	x	0	0	0	0	0	4,877
Scallops ³	2	0	0	0	x	0	0	0	0	6	8
Other shellfish	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 aquaculture ²	328	5,406	1,217	10,614	1,512	2,820	x	160	96	24,689	46,931
'000 of dollars											
Value											
Salmon ³	630	x	3,987	82,500	x	100	0	0	0	115,518	202,735
Trout ³	20	x	0	2,300	x	14,000	x	540	420	324	17,604
Steelhead ³	569	0	2,061	0	0	0	0	0	0	0	2,630
Other finfish ⁴	x	x	x	x	x	x	x	x	x	x	631
Total finfish ²	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 ³	137	4,959	470	130	x	0	0	0	0	0	5,696
Scallops ³	10	0	0	0	x	0	0	0	0	24	34
Other shellfish	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 aquaculture ²	1,366	7,265	6,633	85,230	7,388	14,100	x	540	420	120,441	244,014

1. The production and value of aquaculture includes the amount and value produced on sites and excludes hatcheries or processing. Shellfish also includes some wild production. The data, collected from each of the provincial departments responsible for aquaculture, are considered accurate and reliable. The data will continue to be collected and released in the year following the reference year.

2. Excludes other finfish for all provinces.

3. Excludes confidential data at Canada level.

4. Other finfish data is only available at the Canada level and includes confidential data from the provinces.

Table 1-3

 Aquaculture, production and value¹, by province and Canada — 1993

	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia	Canada
tonnes											
Production											
Salmon ³	100	x	850	10,145	x	20	0	0	0	25,555	36,670
Trout ³	0	x	0	380	x	3,000	x	160	127	51	3,718
Steelhead ³	118	0	285	0	0	0	0	0	0	0	403
Other finfish ⁴	x	x	x	x	x	x	x	x	x	x	99
Total finfish²	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 ³	224	4,567	200	150	x	0	0	0	0	0	5,141
Scallops ³	3	0	0	0	x	0	0	0	0	17	20
Other shellfish	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 aquaculture²	445	5,680	1,415	10,795	1,458	3,020	x	160	127	30,728	53,927
'000 of dollars											
Value											
Salmon ³	713	x	5,800	89,280	x	100	0	0	0	138,143	234,036
Trout ³	0	x	0	2,400	x	15,180	x	540	560	257	18,937
Steelhead ³	1,200	0	1,600	0	0	0	0	0	0	0	2,800
Other finfish ⁴	x	x	x	x	x	x	x	x	x	x	698
Total finfish²	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 ³	173	5,024	330	200	x	0	0	0	0	0	5,727
Scallops ³	28	0	0	0	x	0	0	0	0	97	125
Other shellfish	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 aquaculture²	2,114	7,244	7,930	92,280	7,299	15,280	x	540	560	143,659	277,604

1. The production and value of aquaculture includes the amount and value produced on sites and excludes hatcheries or processing. Shellfish also includes some wild production. The data, collected from each of the provincial departments responsible for aquaculture, are considered accurate and reliable. The data will continue to be collected and released in the year following the reference year.

2. Excludes other finfish for all provinces.

3. Excludes confidential data at Canada level.

4. Other finfish data is only available at the Canada level and includes confidential data from the provinces.

Table 1-4

Aquaculture, production and value¹, by province and Canada — 1994

	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia	Canada
tonnes											
Production											
Salmon ³	46	x	544	11,836	x	0	0	0	0	23,657	36,083
Trout ³	0	x	94	330	x	3,200	x	260	45	75	4,004
Steelhead ³	334	0	96	0	0	0	0	0	0	0	430
Other finfish ⁴	x	x	x	x	x	x	x	x	x	x	71
Total finfish ²	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 ³	400	5,950	439	78	x	0	0	0	0	0	6,867
Scallops ³	12	0	6	0	x	0	0	0	0	27	45
Other shellfish	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 aquaculture ²	792	8,016	1,282	12,657	1,533	3,200	x	260	45	29,291	57,147
'000 of dollars											
Value											
Salmon ³	502	x	3,835	91,000	x	0	0	0	0	153,815	249,152
Trout ³	0	x	519	3,638	x	16,192	x	1,160	275	376	22,160
Steelhead ³	1,635	0	374	0	0	0	0	0	0	0	2,009
Other finfish ⁴	x	x	x	x	x	x	x	x	x	x	548
Total finfish ²	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 ³	312	6,530	633	100	x	0	0	0	0	0	7,575
Scallops ³	61	0	48	0	x	0	0	0	0	155	264
Other shellfish	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 aquaculture ²	2,510	10,008	5,690	95,720	9,083	16,192	x	1,160	275	160,806	301,992

1. The production and value of aquaculture includes the amount and value produced on sites and excludes hatcheries or processing. Shellfish also includes some wild production. The data, collected from each of the provincial departments responsible for aquaculture, are considered accurate and reliable. The data will continue to be collected and released in the year following the reference year.

2. Excludes other finfish for all provinces.

3. Excludes confidential data at Canada level.

4. Other finfish data is only available at the Canada level and includes confidential data from the provinces.

Table 1-5

 Aquaculture, production and value¹, by province and Canada — 1995

	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia	Canada
tonnes											
Production											
Salmon ³	115	x	630	14,490	x	0	0	5	0	27,275	42,515
Trout ³	18	x	50	550	x	3,300	x	317	109	85	4,429
Steelhead ³	447	0	440	0	0	0	0	0	0	0	887
Other finfish ⁴	x	x	x	x	x	x	x	x	x	x	81
Total finfish²	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 ³	411	7,469	502	240	x	0	0	0	0	4	8,626
Scallops ³	12	0	1	0	x	0	0	0	0	24	37
Other shellfish	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 aquaculture²	1,006	9,320	1,808	15,791	999	3,300	x	322	109	33,533	66,269
'000 of dollars											
Value											
Salmon ³	759	x	4,135	111,573	x	0	0	20	0	170,365	286,852
Trout ³	134	x	279	6,000	x	13,250	x	1,400	660	435	22,158
Steelhead ³	2,190	0	1,868	0	0	0	0	0	0	0	4,058
Other finfish ⁴	x	x	x	x	x	x	x	x	x	x	501
Total finfish²	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 ³	295	8,596	712	278	x	0	0	0	0	10	9,891
Scallops ³	67	0	15	0	x	0	0	0	0	156	238
Other shellfish	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 aquaculture²	3,448	12,198	7,618	118,911	3,745	13,250	x	1,420	660	180,206	341,957

1. The production and value of aquaculture includes the amount and value produced on sites and excludes hatcheries or processing. Shellfish also includes some wild production. The data, collected from each of the provincial departments responsible for aquaculture, are considered accurate and reliable. The data will continue to be collected and released in the year following the reference year.

2. Excludes other finfish for all provinces.

3. Excludes confidential data at Canada level.

4. Other finfish data is only available at the Canada level and includes confidential data from the provinces.

Table 1-6

Aquaculture, production and value¹, by province and Canada — 1996

	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia	Canada
tonnes											
Production											
Salmon ⁴	295	x	1,125	16,380	0	0	0	68	0	27,756	45,624
Trout ⁴	24	x	23	550	887	4,240	x	707	110	74	6,615
Steelhead ⁴	734	0	363	0	0	0	0	0	0	0	1,097
Other finfish ⁵	x	x	x	x	x	x	x	x	x	x	99
Total finfish³	1,053	64	1,511	16,930	887	4,240	x	775	110	27,830	53,499
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 ⁴	377	8,817	491	147	66	0	0	0	0	0	9,898
Scallops ⁴	19	0	16	0	0	0	0	0	0	142	177
Other shellfish	1	0	19	0	10	0	0	0	0	0	30
Total shellfish	397	10,493	773	733	76	0	0	0	0	6,601	19,073
Total aquaculture³	1,450	10,557	2,284	17,663	963	4,240	x	775	110	34,431	72,572
Re-stocking²	.	.	.	.	615	.	.	.	.	.	615
Total aquaculture (including re-stocking)²	1,450	10,557	2,284	17,663	1,578	4,240	x	775	110	34,431	73,187
'000 of dollars											
Value											
Salmon ⁴	1,665	x	6,736	122,522	0	0	0	300	0	155,931	287,154
Trout ⁴	154	x	147	6,000	4,257	19,600	x	3,120	660	391	34,329
Steelhead ⁴	3,210	0	1,454	0	0	0	0	0	0	0	4,664
Other finfish ⁵	x	x	x	x	x	x	x	x	x	x	768
Total finfish³	5,029	806	8,337	128,522	4,257	19,600	x	3,420	660	156,322	327,721
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 ⁴	333	10,693	807	103	86	0	0	0	0	0	12,022
Scallops ⁴	104	0	53	0	0	0	0	0	0	858	1,015
Other shellfish	19	0	311	0	16	0	0	0	0	0	346
Total shellfish	456	13,638	2,084	1,296	102	0	0	0	0	10,944	28,520
Total aquaculture³	5,485	14,444	10,421	129,818	4,359	19,600	x	3,420	660	167,266	356,241
Re-stocking²	.	.	.	.	6,286	.	.	.	.	.	6,286
Total aquaculture (including re-stocking)²	5,485	14,444	10,421	129,818	10,645	19,600	x	3,420	660	167,266	362,527

1. The production and value of aquaculture includes the amount and value produced on sites and excludes hatcheries or processing. Shellfish also includes some wild production. The data, collected from each of the provincial departments responsible for aquaculture, are considered accurate and reliable. The data will continue to be collected and released in the year following the reference year.

2. To outfitters: operations offering lodging and services for hunting, fishing and trapping.

3. Excludes other finfish for all provinces.

4. Excludes confidential data at Canada level.

5. Other finfish data is only available at the Canada level and includes confidential data from the provinces.

Table 1-7

 Aquaculture, production and value¹, by province and Canada — 1997

	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia	Canada
tonnes											
Production											
Salmon ⁴	613	x	1,112	18,585	0	0	0	0	0	36,465	56,775
Trout ⁴	14	x	33	550	667	3,725	5	721	3	212	5,930
Steelhead ⁴	355	0	591	0	0	0	0	0	0	0	946
Other finfish ⁵	x	x	x	x	x	x	x	x	x	x	173
Total finfish³	982	94	1,736	19,135	667	3,725	5	721	3	36,677	63,918
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 ⁴	752	9,974	577	137	121	0	0	0	0	9	11,570
Scallops ⁴	12	0	16	0	0	0	0	0	0	23	51
Other shellfish	4	0	14	0	6	0	0	0	0	0	24
Total shellfish	768	11,402	895	402	127	0	0	0	0	4,331	17,925
Total aquaculture³	1,750	11,496	2,631	19,537	794	3,725	5	721	3	41,008	81,843
Re-stocking²	.	.	.	.	644	.	.	.	.	.	644
Total aquaculture (including re-stocking)²	1,750	11,496	2,631	19,537	1,438	3,725	5	721	3	41,008	82,487
'000 of dollars											
Value											
Salmon ⁴	2,714	x	6,356	139,016	0	0	0	0	0	175,944	324,030
Trout ⁴	93	x	164	6,000	3,282	15,900	23	3,175	12	822	29,471
Steelhead ⁴	1,475	0	2,683	0	0	0	0	0	0	0	4,158
Other finfish ⁵	x	x	x	x	x	x	x	x	x	x	1,145
Total finfish³	4,282	851	9,203	145,016	3,282	15,900	23	3,175	12	176,766	359,655
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 ⁴	635	12,096	819	108	157	0	0	0	0	19	13,834
Scallops ⁴	54	0	55	0	0	0	0	0	0	173	282
Other shellfish	40	0	20	0	19	0	0	0	0	0	79
Total shellfish	729	15,277	1,924	675	176	0	0	0	0	7,011	25,792
Total aquaculture³	5,011	16,128	11,127	145,691	3,458	15,900	23	3,175	12	183,777	385,447
Re-stocking²	.	.	.	.	6,676	.	.	.	.	.	6,676
Total aquaculture (including re-stocking)²	5,011	16,128	11,127	145,691	10,134	15,900	23	3,175	12	183,777	392,123

1. The production and value of aquaculture includes the amount and value produced on sites and excludes hatcheries or processing. Shellfish also includes some wild production. The data, collected from each of the provincial departments responsible for aquaculture, are considered accurate and reliable. The data will continue to be collected and released in the year following the reference year.

2. To outfitters: operations offering lodging and services for hunting, fishing and trapping.

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Table 1-8

Aquaculture, production and value¹, by province and Canada — 1998

	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia	Canada
tonnes											
Production											
Salmon ⁴	401	x	1,785	14,232	0	0	0	0	0	42,200	58,618
Trout ⁴	48	x	0	550	895	3,580	14	875	x	60	6,022
Steelhead ⁴	1,316	0	1,038	0	0	0	0	0	0	0	2,354
Other finfish ⁵	x	x	x	x	x	x	x	x	x	x	461
Total finfish³	1,765	99	2,823	14,782	895	3,580	14	875	x	42,260	67,554
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 ⁴	946	12,459	835	680	98	0	0	0	0	0	15,018
Scallops ⁴	9	0	21	0	0	0	0	0	0	40	70
Other shellfish	7	0	10	0	20	0	0	0	0	0	37
Total shellfish	962	14,433	1,243	966	118	0	0	0	0	6,244	23,966
Total aquaculture³	2,727	14,532	4,066	15,748	1,013	3,580	14	875	x	48,504	91,520
Re-stocking²	.	.	.	.	585	.	.	.	.	.	585
Total aquaculture (including re-stocking)²	2,727	14,532	4,066	15,748	1,598	3,580	14	875	x	48,504	92,105
'000 of dollars											
Value											
Salmon ⁴	2,925	x	10,540	106,678	0	0	0	0	0	228,900	349,043
Trout ⁴	197	x	0	6,100	4,391	14,200	62	3,859	x	300	29,109
Steelhead ⁴	6,919	0	6,095	0	0	0	0	0	0	0	13,014
Other finfish ⁵	x	x	x	x	x	x	x	x	x	x	4,059
Total finfish³	10,041	882	16,635	112,778	4,391	14,200	62	3,859	x	229,200	396,107
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 ⁴	815	15,110	1,458	1,455	127	0	0	0	0	0	18,965
Scallops ⁴	53	0	135	0	0	0	0	0	0	300	488
Other shellfish	32	0	23	0	47	0	0	0	0	0	102
Total shellfish	900	19,557	2,802	2,243	174	0	0	0	0	8,819	34,495
Total aquaculture³	10,941	20,439	19,437	115,021	4,565	14,200	62	3,859	x	238,019	430,602
Re-stocking²	.	.	.	.	6,265	.	.	.	.	.	6,265
Total aquaculture (including re-stocking)²	10,941	20,439	19,437	115,021	10,830	14,200	62	3,859	x	238,019	436,867

1. The production and value of aquaculture includes the amount and value produced on sites and excludes hatcheries or processing. Shellfish also includes some wild production. The data, collected from each of the provincial departments responsible for aquaculture, are considered accurate and reliable. The data will continue to be collected and released in the year following the reference year.

2. To outfitters: operations offering lodging and services for hunting, fishing and trapping.

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Table 1-9

 Aquaculture, production and value¹, by province and Canada — 1999

	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia	Canada
tonnes											
Production											
Salmon ⁴	399	x	791	22,000	0	0	0	0	0	49,700	72,890
Trout ⁴	10	x	0	550	1,185	3,850	4	875	x	100	6,574
Steelhead ⁴	2,078	0	3,924	0	0	0	0	0	0	0	6,002
Other finfish ⁵	x	x	x	x	x	x	x	x	x	x	624
Total finfish³	2,487	82	4,715	22,550	1,185	3,850	4	875	x	49,800	86,172
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 ⁴	1,700	13,890	945	665	197	0	0	0	0	0	17,397
Scallops ⁴	0	0	25	0	0	0	0	0	0	30	55
Other shellfish	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 aquaculture³	4,187	16,395	6,477	23,501	1,407	3,850	4	875	x	55,930	113,250
Re-stocking²	.	.	.	.	954	.	.	.	.	.	954
Total aquaculture (including re-stocking)²	4,187	16,395	6,477	23,501	2,361	3,850	4	875	x	55,930	114,204
'000 of dollars											
Value											
Salmon ⁴	2,462	x	7,022	150,000	0	0	0	0	0	290,600	450,084
Trout ⁴	80	x	0	6,100	6,121	15,500	16	3,859	x	400	32,076
Steelhead ⁴	11,402	0	17,352	0	0	0	0	0	0	0	28,754
Other finfish ⁵	x	x	x	x	x	x	x	x	x	x	5,652
Total finfish³	13,944	786	24,374	156,100	6,121	15,500	16	3,859	x	291,000	517,352
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 ⁴	3,800	16,845	1,485	798	257	0	0	0	0	0	23,185
Scallops ⁴	0	0	166	0	0	0	0	0	0	100	266
Other shellfish	0	0	43	0	26	0	0	0	0	0	69
Total shellfish	3,800	21,920	3,509	1,586	283	0	0	0	0	9,900	40,998
Total aquaculture³	17,744	22,706	27,883	157,686	6,404	15,500	16	3,859	x	300,900	558,350
Re-stocking²	.	.	.	.	9,491	.	.	.	.	.	9,491
Total aquaculture (including re-stocking)²	17,744	22,706	27,883	157,686	15,895	15,500	16	3,859	x	300,900	567,841

1. The production and value of aquaculture includes the amount and value produced on sites and excludes hatcheries or processing. Shellfish also includes some wild production. The data, collected from each of the provincial departments responsible for aquaculture, are considered accurate and reliable. The data will continue to be collected and released in the year following the reference year.

2. To outfitters: operations offering lodging and services for hunting, fishing and trapping.

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Table 1-10

Aquaculture, production and value¹, by province and Canada — 2000

	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia	Canada
tonnes											
Production											
Salmon ⁴	670	x	3,425	29,100	0	0	0	0	0	49,000	82,195
Trout ⁴	0	x	0	550	982	4,000	7	875	x	100	6,514
Steelhead ⁴	842	0	4,681	0	0	0	0	0	0	0	5,523
Other finfish ⁵	x	x	x	x	x	x	x	x	x	x	695
Total finfish³	1,512	76	8,106	29,650	982	4,000	7	875	x	49,100	95,003
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 ⁴	1,051	17,895	1,252	750	314	0	0	0	0	0	21,262
Scallops ⁴	0	0	19	0	0	0	0	0	0	50	69
Other shellfish	0	0	306	0	58	0	0	0	0	0	364
Total shellfish	1,051	20,626	2,350	1,370	372	0	0	0	0	6,550	32,319
Total aquaculture³	2,563	20,702	10,456	31,020	1,354	4,000	7	875	x	55,650	127,322
Re-stocking²	.	.	.	.	708	.	.	.	.	.	708
Total aquaculture (including re-stocking)²	2,563	20,702	10,456	31,020	2,062	4,000	7	875	x	55,650	128,030
'000 of dollars											
Value											
Salmon ⁴	4,962	x	18,893	181,500	0	0	0	0	0	278,400	483,755
Trout ⁴	0	x	0	6,100	5,414	16,500	27	3,859	x	500	32,400
Steelhead ⁴	5,494	0	19,395	0	0	0	0	0	0	0	24,889
Other finfish ⁵	x	x	x	x	x	x	x	x	x	x	7,066
Total finfish³	10,456	733	38,288	187,600	5,414	16,500	27	3,859	x	278,900	548,843
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 ⁴	2,700	21,703	1,442	825	408	0	0	0	0	0	27,078
Scallops ⁴	0	0	162	0	0	0	0	0	0	300	462
Other shellfish	0	0	1,693	0	90	0	0	0	0	0	1,783
Total shellfish	2,700	28,027	5,188	2,525	498	0	0	0	0	13,500	52,438
Total aquaculture³	13,156	28,760	43,476	190,125	5,912	16,500	27	3,859	x	292,400	601,281
Re-stocking²	.	.	.	.	7,600	.	.	.	.	.	7,600
Total aquaculture (including re-stocking)²	13,156	28,760	43,476	190,125	13,512	16,500	27	3,859	x	292,400	608,881

1. The production and value of aquaculture includes the amount and value produced on sites and excludes hatcheries or processing. Shellfish also includes some wild production. The data, collected from each of the provincial departments responsible for aquaculture, are considered accurate and reliable. The data will continue to be collected and released in the year following the reference year.

2. To outfitters: operations offering lodging and services for hunting, fishing and trapping.

3. Excludes other finfish for all provinces.

4. Excludes confidential data at Canada level.

5. Other finfish data is only available at the Canada level and includes confidential data from the provinces.

Table 1-11

 Aquaculture, production and value¹, by province and Canada — 2001

	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia	Canada
tonnes											
Production											
Salmon ⁴	1,092	x	2,614	33,900	0	0	0	0	0	68,000	105,606
Trout ⁴	0	x	0	550	723	4,135	16	989	x	100	6,513
Steelhead ⁴	1,719	0	2,986	0	0	0	0	0	0	0	4,705
Other finfish ⁵	x	x	x	x	x	x	x	x	x	x	1,604
Total finfish³	2,811	88	5,600	34,450	723	4,135	16	989	x	68,100	118,428
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 ⁴	1,452	17,513	1,619	439	492	0	0	0	0	0	21,515
Scallops ⁴	0	0	8	0	0	0	0	0	0	110	118
Other shellfish	0	0	402	0	147	0	0	0	0	0	549
Total shellfish	1,452	20,250	2,467	1,183	639	0	0	0	0	8,910	34,901
Total aquaculture³	4,263	20,338	8,067	35,633	1,362	4,135	16	989	x	77,010	153,329
Re-stocking²	.	.	.	.	740	.	.	.	.	.	740
Total aquaculture (including re-stocking)²	4,263	20,338	8,067	35,633	2,102	4,135	16	989	x	77,010	154,069
'000 of dollars											
Value											
Salmon ⁴	5,200	x	14,361	180,010	0	0	0	0	0	270,900	470,471
Trout ⁴	0	x	0	6,100	3,931	16,100	62	4,971	x	500	31,664
Steelhead ⁴	9,752	0	9,777	0	0	0	0	0	0	0	19,529
Other finfish ⁵	x	x	x	x	x	x	x	x	x	x	17,819
Total finfish³	14,952	811	24,138	186,110	3,931	16,100	62	4,971	x	271,400	539,483
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 ⁴	3,929	23,160	2,002	552	640	0	0	0	0	0	30,283
Scallops ⁴	0	0	88	0	0	0	0	0	0	500	588
Other shellfish	0	0	2,096	0	270	0	0	0	0	0	2,366
Total shellfish	3,929	29,433	5,513	1,324	910	0	0	0	0	17,100	58,209
Total aquaculture³	18,881	30,244	29,651	187,434	4,841	16,100	62	4,971	x	288,500	597,692
Re-stocking²	.	.	.	.	7,799	.	.	.	.	.	7,799
Total aquaculture (including re-stocking)²	18,881	30,244	29,651	187,434	12,640	16,100	62	4,971	x	288,500	605,491

1. The production and value of aquaculture includes the amount and value produced on sites and excludes hatcheries or processing. Shellfish also includes some wild production. The data, collected from each of the provincial departments responsible for aquaculture, are considered accurate and reliable. The data will continue to be collected and released in the year following the reference year.

2. To outfitters: operations offering lodging and services for hunting, fishing and trapping.

3. Excludes other finfish for all provinces.

4. Excludes confidential data at Canada level.

5. Other finfish data is only available at the Canada level and includes confidential data from the provinces.

Table 1-12

Aquaculture, production and value¹, by province and Canada — 2002

	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia	Canada
tonnes											
Production											
Salmon ⁴	1,270	x	1,951	38,900	0	0	0	0	0	84,200	126,321
Trout ⁴	0	x	0	550	603	4,650	16	914	x	100	6,833
Steelhead ⁴	1,600	0	434	0	0	0	0	0	0	0	2,034
Other finfish ⁵	x	x	x	x	x	x	x	x	x	x	1,567
Total finfish³	2,870	33	2,385	39,450	603	4,650	16	914	x	84,300	136,755
Clams	0	0	0	0	0	0	0	0	0	1,500	1,500
Oysters	0	2,736	349	1,235	0	0	0	0	0	7,200	11,520
Mussels ⁴	1,700	16,785	1,073	637	377	0	0	0	0	0	20,572
Scallops ⁴	0	0	16	0	0	0	0	0	0	90	106
Other shellfish	0	0	374	0	204	0	0	0	0	0	578
Total shellfish	1,700	19,521	1,812	1,872	581	0	0	0	0	8,790	34,276
Total aquaculture³	4,570	19,554	4,197	41,322	1,184	4,650	16	914	x	93,090	171,031
Re-stocking²	.	.	.	.	768	.	.	.	.	.	768
Total aquaculture (including re-stocking)²	4,570	19,554	4,197	41,322	1,952	4,650	16	914	x	93,090	171,799
'000 of dollars											
Value											
Salmon ⁴	6,132	x	12,504	194,500	0	0	0	0	0	288,900	502,036
Trout ⁴	0	x	0	6,100	3,273	17,900	63	4,607	x	700	32,643
Steelhead ⁴	8,800	0	1,368	0	0	0	0	0	0	0	10,168
Other finfish ⁵	x	x	x	x	x	x	x	x	x	x	18,662
Total finfish³	14,932	892	13,872	200,600	3,273	17,900	63	4,607	x	289,600	563,509
Clams	0	0	0	0	0	0	0	0	0	7,100	7,100
Oysters	0	5,727	1,076	1,173	0	0	0	0	0	7,200	15,176
Mussels ⁴	5,500	22,202	2,288	801	490	0	0	0	0	0	31,281
Scallops ⁴	0	0	152	0	0	0	0	0	0	500	652
Other shellfish	0	0	2,247	0	343	0	0	0	0	0	2,590
Total shellfish	5,500	27,929	5,763	1,974	833	0	0	0	0	14,800	56,799
Total aquaculture³	20,432	28,821	19,635	202,574	4,106	17,900	63	4,607	x	304,400	620,308
Re-stocking²	.	.	.	.	8,010	.	.	.	.	.	8,010
Total aquaculture (including re-stocking)²	20,432	28,821	19,635	202,574	12,116	17,900	63	4,607	x	304,400	628,318

1. The production and value of aquaculture includes the amount and value produced on sites and excludes hatcheries or processing. Shellfish also includes some wild production. The data, collected from each of the provincial departments responsible for aquaculture, are considered accurate and reliable. The data will continue to be collected and released in the year following the reference year.

2. To outfitters: operations offering lodging and services for hunting, fishing and trapping.

3. Excludes other finfish for all provinces.

4. Excludes confidential data at Canada level.

5. Other finfish data is only available at the Canada level and includes confidential data from the provinces.

Table 1-13

 Aquaculture, production and value¹, by province and Canada — 2003

	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia	Canada
tonnes											
Production											
Salmon ⁴	1,450	x	x	33,100	0	0	0	0	0	72,678	107,228
Trout ⁴	0	x	0	550	357	4,200	10	x	x	136	5,253
Steelhead ⁴	1,150	0	x	0	0	0	0	0	0	0	1,150
Other finfish ⁵	x	x	x	x	x	x	x	x	x	x	7,352
Total finfish³	2,600	24	5,210	33,650	357	4,200	10	x	x	72,814	120,983
Clams	0	0	0	0	0	0	0	0	0	1,589	1,589
Oysters	0	3,036	398	2,350	0	0	0	0	0	7,837	13,621
Mussels ⁴	1,300	16,826	1,439	453	499	0	0	0	0	73	20,590
Scallops ⁴	0	0	15	0	0	0	0	0	0	80	95
Other shellfish	0	0	451	0	143	0	0	0	0	0	594
Total shellfish	1,300	19,862	2,303	2,803	642	0	0	0	0	9,579	36,489
Total aquaculture³	3,900	19,886	7,513	36,453	999	4,200	10	x	x	82,393	157,472
Re-stocking²	.	.	.	.	735	.	.	.	.	.	735
Total aquaculture (including re-stocking)²	3,900	19,886	7,513	36,453	1,734	4,200	10	x	x	82,393	158,207
'000 of dollars											
Value											
Salmon ⁴	6,670	x	x	179,000	0	0	0	0	0	255,801	441,471
Trout ⁴	0	x	0	6,100	1,978	17,000	39	x	x	597	25,714
Steelhead ⁴	6,324	0	x	0	0	0	0	0	0	0	6,324
Other finfish ⁵	x	x	x	x	x	x	x	x	x	x	44,933
Total finfish³	12,994	852	26,874	185,100	1,978	17,000	39	x	x	256,398	518,442
Clams	0	0	0	0	0	0	0	0	0	7,903	7,903
Oysters	0	7,431	839	2,500	0	0	0	0	0	8,438	19,208
Mussels ⁴	4,200	23,597	1,644	600	648	0	0	0	0	240	30,929
Scallops ⁴	0	0	135	0	0	0	0	0	0	552	687
Other shellfish	0	0	5,762	0	354	0	0	0	0	0	6,116
Total shellfish	4,200	31,028	8,380	3,100	1,002	0	0	0	0	17,133	64,843
Total aquaculture³	17,194	31,880	35,254	188,200	2,980	17,000	39	x	x	273,531	583,285
Re-stocking²	.	.	.	.	7,699	.	.	.	.	.	7,699
Total aquaculture (including re-stocking)²	17,194	31,880	35,254	188,200	10,679	17,000	39	x	x	273,531	590,984

1. The production and value of aquaculture includes the amount and value produced on sites and excludes hatcheries or processing. Shellfish also includes some wild production. The data, collected from each of the provincial departments responsible for aquaculture, are considered accurate and reliable. The data will continue to be collected and released in the year following the reference year.

2. To outfitters: operations offering lodging and services for hunting, fishing and trapping.

3. Excludes other finfish for all provinces.

4. Excludes confidential data at Canada level.

5. Other finfish data is only available at the Canada level and includes confidential data from the provinces.

Table 1-14

Aquaculture, production and value¹, by province and Canada — 2004

	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia	Canada
tonnes											
Production											
Salmon ⁴	x	x	x	35,000	0	0	0	0	0	61,774	96,774
Trout ⁴	0	x	0	400	333	4,000	10	x	x	128	4,871
Steelhead ⁴	x	0	x	0	0	0	0	0	0	0	0
Other finfish ⁵	x	x	x	x	x	x	x	x	x	x	5,448
Total finfish³	3,329	20	2,050	35,400	333	4,000	10	x	x	61,902	107,093
Clams	0	0	0	0	0	0	0	0	0	1,528	1,528
Oysters	0	3,335	314	1,434	0	0	0	0	0	7,562	12,645
Mussels ⁴	2,300	17,576	2,083	450	370	0	0	0	0	78	22,857
Scallops ⁴	0	0	10	0	0	0	0	0	0	77	87
Other shellfish	0	0	537	0	271	0	0	0	0	0	808
Total shellfish	2,300	20,911	2,944	1,884	641	0	0	0	0	9,245	37,925
Total aquaculture³	5,629	20,931	4,994	37,284	974	4,000	10	x	x	71,147	145,018
Re-stocking²	.	.	.	.	822	.	.	.	.	.	822
Total aquaculture (including re-stocking)²	5,629	20,931	4,994	37,284	1,796	4,000	10	x	x	71,147	145,840
'000 of dollars											
Value											
Salmon ⁴	x	x	x	175,000	0	0	0	0	0	212,038	387,038
Trout ⁴	0	x	0	4,000	1,831	15,500	41	x	x	714	22,086
Steelhead ⁴	x	0	x	0	0	0	0	0	0	0	0
Other finfish ⁵	x	x	x	x	x	x	x	x	x	x	45,503
Total finfish³	17,000	3,256	8,815	179,000	1,831	15,500	41	x	x	212,752	454,627
Clams	0	0	0	0	0	0	0	0	0	7,052	7,052
Oysters	0	6,670	898	1,505	0	0	0	0	0	7,134	16,207
Mussels ⁴	5,055	23,249	3,198	500	481	0	0	0	0	278	32,761
Scallops ⁴	0	0	84	0	0	0	0	0	0	572	656
Other shellfish	0	0	6,132	0	701	0	0	0	0	0	6,833
Total shellfish	5,055	29,919	10,312	2,005	1,182	0	0	0	0	15,036	63,509
Total aquaculture³	22,055	33,175	19,127	181,005	3,013	15,500	41	x	x	227,788	518,136
Re-stocking²	.	.	.	.	8,426	.	.	.	.	.	8,426
Total aquaculture (including re-stocking)²	22,055	33,175	19,127	181,005	11,439	15,500	41	x	x	227,788	526,562

1. The production and value of aquaculture includes the amount and value produced on sites and excludes hatcheries or processing. Shellfish also includes some wild production. The data, collected from each of the provincial departments responsible for aquaculture, are considered accurate and reliable. The data will continue to be collected and released in the year following the reference year.

2. To outfitters: operations offering lodging and services for hunting, fishing and trapping.

3. Excludes other finfish for all provinces.

4. Excludes confidential data at Canada level.

5. Other finfish data is only available at the Canada level and includes confidential data from the provinces.

Table 2-1

Exports of selected Canadian aquaculture products, by country of destination — 1992 and 1993

Destination	1992				1993			
	Mussels	Other ¹ Salmon	Atlantic ² Salmon	Atlantic ^{3,4} Salmon fillets	Mussels	Other ¹ Salmon	Atlantic ² Salmon	Atlantic ^{3,4} Salmon fillets
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	..	0 ^s	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								
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. Includes fresh, chilled and frozen.

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

Table 2-2

Exports of selected Canadian aquaculture products, by country of destination — 1994 and 1995

Destination	1994				1995			
	Mussels	Other ¹ Salmon	Atlantic ² Salmon	Atlantic ^{3,4} Salmon fillets	Mussels	Other ¹ Salmon	Atlantic ² Salmon	Atlantic ^{3,4} Salmon fillets
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								
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).

2. Includes fresh, chilled and frozen.

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

Table 2-3

Exports of selected Canadian aquaculture products, by country of destination — 1996 and 1997

Destination	1996				1997			
	Mussels	Other ¹ Salmon	Atlantic ² Salmon	Atlantic ^{3,4} Salmon fillets	Mussels	Other ¹ Salmon	Atlantic ² Salmon	Atlantic ^{3,4} Salmon fillets
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	..	0 ^s	0	96	..
Total	3,440	6,952	23,924	..	4,897	4,799	34,505	..
'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. Includes fresh, chilled and frozen.

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

Table 2-4

Exports of selected Canadian aquaculture products, by country of destination — 1998 and 1999

Destination	1998				1999			
	Mussels	Other ¹ Salmon	Atlantic ² Salmon	Atlantic ^{3,4} Salmon fillets	Mussels	Other ¹ Salmon	Atlantic ² Salmon	Atlantic ^{3,4} Salmon fillets
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								
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 to 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 to 2000 data on value for Atlantic Salmon fillets converted to Canadian dollars using the Bank of Canada exchange rates.

Table 2-5

Exports of selected Canadian aquaculture products, by country of destination — 2000 and 2001

Destination	2000				2001			
	Mussels	Other ¹ Salmon	Atlantic ² Salmon	Atlantic ^{3,4} Salmon fillets	Mussels	Other ¹ Salmon	Atlantic ² Salmon	Atlantic ^{3,4} Salmon fillets
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								
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 frozen.

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

Table 2-6

Exports of selected Canadian aquaculture products, by country of destination — 2002 and 2003

Destination	2002				2003			
	Mussels	Other ¹ Salmon	Atlantic ² Salmon	Atlantic ^{3,4} Salmon fillets	Mussels	Other ¹ Salmon	Atlantic ² Salmon	Atlantic ^{3,4} Salmon fillets
tonnes								
United States	7,826	4,209	56,397	14,639	8,335	4,062	40,636	12,520
California	139	1,322	13,312	1,850	250	1,307	11,968	1,307
Maine	3,422	0	3,384	1,559	3,703	0	2,366	1,634
Massachusetts	2,857	612	8,820	849	3,005	232	6,588	712
New York	628	171	7,090	458	647	468	3,810	368
Washington	14	1,459	15,977	6,246	28	1,200	11,153	3,808
Other	766	645	7,814	3,677	702	855	4,751	4,691
France	0	0	18	0	0	11	2	0
Japan	17	392	906	92	17	124	971	251
Taiwan	0	0	514	1	0	0	976	1
Other	5	22	521	0	26	4	641	33
Total	7,848	4,623	58,356	14,732	8,378	4,201	43,226	12,805
'000 of dollars								
United States	21,926	22,316	420,284	160,545	21,591	23,757	295,799	131,418
California	530	7,714	111,672	15,770	695	7,871	100,444	10,340
Maine	8,132	0	24,712	20,518	8,365	0	12,264	19,295
Massachusetts	8,773	2,467	58,485	9,897	8,489	1,511	39,835	7,965
New York	2,006	1,058	51,765	6,374	1,848	2,698	26,076	4,428
Washington	52	7,222	116,278	65,196	77	6,883	81,608	41,186
Other	2,433	3,855	57,372	42,790	2,117	4,794	35,572	48,204
France	0	0	113	0	0	82	16	0
Japan	73	2,236	7,177	975	68	896	6,659	1,001
Taiwan	0	0	3,200	3	0	0	6,994	4
Other	24	82	2,700	0	122	37	2,227	176
Total	22,023	24,634	433,474	161,523	21,781	24,772	311,695	132,599

1. Includes Coho and Spring (Chinook).

2. Includes fresh, chilled and frozen.

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

Table 2-7

Exports of selected Canadian aquaculture products, by country of destination — 2004 and 2005

Destination	2004				2005			
	Mussels	Other ¹ Salmon	Atlantic ² Salmon	Atlantic ^{3,4} Salmon fillets	Mussels	Other ¹ Salmon	Atlantic ² Salmon	Atlantic ^{3,4} Salmon fillets
tonnes								
United States	8,081	4,287	42,998	9,335	..	..	..	..
California	133	1,021	9,744	821	..	..	..	..
Maine	3,726	0	2,449	1,767	..	..	..	..
Massachusetts	2,661	241	7,117	721	..	..	..	..
New York	689	406	4,608	280	..	..	..	..
Washington	39	1,003	12,830	1,966	..	..	..	..
Other	833	1,616	6,250	3,780	..	..	..	..
France	0	10	0	18	..	..	..	..
Japan	0	232	1,191	245	..	..	..	..
Taiwan	0	2	1,619	0	..	..	..	..
Other	23	81	617	0	..	..	..	..
Total	8,104	4,612	46,425	9,598	..	..	..	..
'000 of dollars								
United States	20,667	24,560	262,583	94,575	..	..	..	..
California	354	6,558	62,386	6,556	..	..	..	..
Maine	8,530	0	13,767	20,352	..	..	..	..
Massachusetts	7,124	1,828	39,508	7,667	..	..	..	..
New York	1,964	2,470	30,255	3,737	..	..	..	..
Washington	97	5,592	77,066	17,403	..	..	..	..
Other	2,598	8,112	39,601	38,860	..	..	..	..
France	0	96	0	116	..	..	..	..
Japan	0	1,349	7,586	1,392	..	..	..	..
Taiwan	0	10	8,819	0	..	..	..	..
Other	81	347	2,697	0	..	..	..	..
Total	20,748	26,362	281,685	96,083	..	..	..	..

1. Includes Coho and Spring (Chinook).

2. Includes fresh, chilled and frozen.

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

Table 3-1

Value added account - Aquaculture industry¹, by province and Canada — 1997

	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	British Columbia	Canada ²
'000 of dollars								
Sources of output								
Sales of aqua products and services	6,300	16,400	11,200	162,000	8,700	17,900	224,800	447,300
Whole fish dressed, fresh or chilled	x	..	7,800	110,000	2,900	x	170,000	291,100
Fish eggs and live fish for grow-out	x	..	1,000	17,000	x	x	16,000	36,100
Whole fish live except for grow-out	..	..	x	x	3,100	..	x	10,800
Whole fish, dressed and frozen	..	..	x	x	0	..	x	12,500
Fish fillets, fresh or frozen	x	..	0	x	x	..	17,500	35,800
Fish, dried, smoked or in brine	..	..	0	x	x	..	0	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	x	x	10,000	31,250
Other goods and services, not elsewhere specified	0	200	200	1,300	x	x	8,800	10,950
Subsidies	500	0	500	100	x	x	1,200	2,700
Other operating revenue	200	100	100	1,900	x	x	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	0	2,900	2,000	-1,000	0	45,000	49,900
Gross output	8,000	16,500	14,700	166,000	8,100	23,000	275,000	511,300
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	0	200	1,500	50	80	3,000	5,130
Purchases, eggs and fish for grow-out	300	x	3,000	7,400	x	4,000	28,000	44,600
Purchases, fish for processing and resale	0	x	0	39,000	x	x	4,000	43,200
Insurance premiums	50	150	140	2,050	100	300	5,000	7,790
Energy (electricity, fuel, et cetera)	200	250	300	1,900	400	700	3,000	6,750
Goods transportation and storage	300	0	150	4,000	100	200	12,000	16,750
Processing services	600	1,200	200	4,000	x	x	28,000	34,350
Rental and leasing expenses	50	200	70	120	50	200	2,300	2,990
Maintenance and repairs, buildings	150	650	100	200	100	400	2,000	3,600
Maintenance and repairs, machinery	150	300	300	2,000	200	350	4,000	7,300
Professional services	110	300	290	1,910	170	0	6,600	9,380
Other operating expenses, not elsewhere specified	240	850	560	8,620	370	1,850	11,600	24,090
Change in inventory value, raw materials	0	0	100	500	0	0	1,000	1,600
Total of product inputs	4,650	5,000	9,010	109,200	5,090	14,880	177,500	325,330
Gross value added (factor cost)	3,350	11,500	5,690	56,800	3,010	8,120	97,500	185,970
Selected primary inputs								
Salaries and 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. Data and account structure are subject to revision.

2. Canada total excludes Manitoba, Saskatchewan and Alberta.

Table 3-2

Value added account - Aquaculture industry¹, by province and Canada — 1998

	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	British Columbia	Canada ²
'000 of dollars								
Sources of output								
Sales of aqua products and services	9,400	21,100	19,100	181,150	9,250	16,400	263,700	520,100
Whole fish dressed, fresh or chilled	x	..	6,000	122,000	3,000	x	178,000	309,000
Fish eggs and live fish for grow-out	x	..	6,500	16,000	x	x	24,000	47,900
Whole fish live except for grow-out	..	..	x	8,000	3,200	..	x	28,300
Whole fish, dressed and frozen	..	..	x	x	0	..	x	8,000
Fish fillets, fresh or frozen	..	..	x	x	x	..	26,000	53,800
Fish, dried, smoked or in brine	..	..	x	0	x	..	0	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	x	x	10,000	37,050
Other goods and services, not elsewhere specified	0	200	100	4,150	x	x	5,200	10,150
Subsidies	1,800	0	300	3,700	x	x	x	6,800
Other operating revenue	80	100	100	1,950	x	x	x	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	600	4,500	3,000	200	700	15,000	24,750
Gross output	12,030	21,800	24,000	189,800	9,700	22,250	285,100	564,680
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	0	400	1,300	50	100	3,700	5,950
Purchases, eggs and fish for grow-out	500	x	5,000	16,000	x	3,500	14,000	41,000
Purchases, fish for processing and resale	0	x	200	36,000	x	x	4,000	40,400
Insurance premiums	50	200	400	2,050	100	300	4,300	7,400
Energy (electricity, fuel, et cetera)	300	300	500	1,500	500	800	3,200	7,100
Goods transportation and storage	400	0	250	4,100	100	200	12,000	17,050
Processing services	850	1,200	300	3,600	x	x	23,000	29,300
Rental and leasing expenses	300	250	200	500	50	200	2,200	3,700
Maintenance and repairs, buildings	200	700	100	1,000	150	400	1,600	4,150
Maintenance and repairs, machinery	100	350	350	2,200	250	400	4,500	8,150
Professional services	450	350	130	1,550	150	0	2,410	5,040
Other operating expenses, not elsewhere specified	500	1,400	790	9,450	630	1,950	16,230	30,950
Change in inventory value, raw materials	-100	0	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
Gross value added (factor cost)	3,280	15,800	9,480	73,050	4,170	8,300	111,960	226,040
Selected primary inputs								
Salaries and 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. Data and account structure are subject to revision.

2. Canada total excludes Manitoba, Saskatchewan and Alberta.

Table 3-3

Value added account - Aquaculture industry¹, by province and Canada — 1999

	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	British Columbia	Canada ²
'000 of dollars								
Sources of output								
Sales of aqua products and 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 and live fish for grow-out	..	..	200	22,000	3,000	..	20,000	45,200
Whole fish live except for grow-out	..	..	0	x	4,100	..	x	14,100
Whole fish, dressed and frozen	..	..	9,000	x	0	..	x	14,700
Fish fillets, fresh or frozen	..	..	8,200	37,000	2,200	..	42,000	89,400
Fish, dried, smoked or in brine	..	..	0	x	470	..	x	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	0	11,750	44,750
Other goods and services, not elsewhere specified	0	200	500	3,660	400	100	1,650	6,510
Subsidies	600	0	300	200	70	x	x	2,020
Other operating revenue	115	100	100	7,420	130	x	x	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	0	320	18,000	56,120
Gross output	14,915	24,000	35,600	265,980	11,370	22,670	332,900	707,435
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	x	0	x	2,100	150	100	4,000	6,850
Purchases, eggs and fish for grow-out	550	1,050	4,500	22,000	710	4,500	16,000	49,310
Purchases, fish for processing and resale	0	0	200	59,000	150	0	9,200	68,550
Insurance premiums	150	200	725	2,500	150	300	4,100	8,125
Energy (electricity, fuel, et cetera)	300	300	500	1,900	900	700	3,200	7,800
Goods transportation and storage	500	0	425	4,900	35	200	9,500	15,560
Processing services	800	1,400	x	5,000	x	300	22,150	29,760
Rental and leasing expenses	350	250	150	1,200	30	200	2,000	4,180
Maintenance and repairs, buildings	x	900	100	1,100	x	400	1,200	4,105
Maintenance and repairs, machinery	100	400	350	3,400	360	350	5,000	9,960
Professional services	360	350	1,000	2,080	275	0	3,480	7,545
Other operating expenses, not elsewhere specified	375	1,900	2,175	12,635	470	2,000	24,675	44,230
Change in inventory value, raw materials	0	0	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
Gross value added (factor cost)	5,980	16,950	17,625	88,965	4,825	7,590	133,995	275,930
Selected primary inputs								
Salaries and 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. Data and account structure are subject to revision.

2. Canada total excludes Manitoba, Saskatchewan and Alberta.

Table 3-4

Value added account - Aquaculture industry¹, by province and Canada — 2000

	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	British Columbia	Canada ²
'000 of dollars								
Sources of output								
Sales of aqua products and services	12,200	29,000	43,500	281,900	12,000	17,600	305,300	701,500
Whole fish dressed, fresh or chilled	..	..	15,000	187,000	900	..	217,000	419,900
Fish eggs and live fish for grow-out	..	..	1,000	25,000	3,300	..	19,500	48,800
Whole fish live except for grow-out	..	..	0	11,500	4,100	..	0	15,600
Whole fish, dressed and frozen	..	..	12,000	2,000	0	..	4,000	18,000
Fish fillets, fresh or frozen	..	..	9,000	46,700	2,300	..	50,000	108,000
Fish, dried, smoked or in brine	..	..	0	200	600	..	100	900
Total finfish	9,200	1,000	37,000	272,400	11,200	17,500	290,600	638,900
Total molluscs	3,000	27,800	5,500	5,500	400	0	13,000	55,200
Other goods and services, not elsewhere specified	0	200	1,000	4,000	400	100	1,700	7,400
Subsidies	600	0	400	400	x	x	500	2,170
Other operating revenue	200	100	100	7,600	x	x	15,000	28,200
Total operating revenue	13,000	29,100	44,000	289,900	12,270	22,800	320,800	731,870
Change in inventory value, goods	0	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	345,800	785,470
Product inputs								
Product expenses	8,450	8,100	25,900	209,500	6,800	15,000	206,400	480,150
Feed	4,400	350	12,000	72,000	2,700	5,900	96,000	193,350
Therapeutants	300	0	500	2,500	200	100	4,300	7,900
Purchases, eggs and fish for grow-out	500	1,300	6,000	28,000	800	4,500	17,000	58,100
Purchases, fish for processing and resale	x	0	x	65,000	x	0	9,500	75,000
Insurance premiums	150	250	1,000	2,500	200	300	4,300	8,700
Energy (electricity, fuel, et cetera)	300	350	1,000	3,000	1,100	700	3,900	10,350
Goods transportation and storage	500	0	600	6,000	50	200	11,000	18,350
Processing services	x	1,650	x	6,000	x	300	23,000	31,950
Rental and leasing expenses	350	300	200	2,000	50	200	2,200	5,300
Maintenance and repairs, buildings	250	1,000	200	2,000	200	400	1,400	5,450
Maintenance and repairs, machinery	100	450	500	4,000	400	400	5,500	11,350
Professional services	400	400	1,000	2,500	300	0	3,500	8,100
Other operating expenses, not elsewhere specified	400	2,050	2,500	14,000	500	2,000	24,800	46,250
Change in inventory value, raw materials	0	0	500	1,000	200	100	0	1,800
Total of product inputs	8,450	8,100	25,400	208,500	6,600	14,900	206,400	478,350
Gross value added (factor cost)	4,550	21,300	21,600	106,400	5,770	8,100	139,400	307,120
Selected primary inputs								
Salaries and wages	2,800	10,000	8,000	26,000	2,200	4,000	40,000	93,000
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	18,500	33,150
Interest paid	400	550	2,000	6,500	400	800	6,300	16,950

1. Data and account structure are subject to revision.

2. Canada total excludes Manitoba, Saskatchewan and Alberta.

Table 3-5

Value added account - Aquaculture industry¹, by province and Canada — 2001

	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	British Columbia	Canada ²
'000 of dollars								
Sources of output								
Sales of aqua products and services	14,200	29,400	26,900	277,100	12,230	17,800	312,400	690,030
Whole fish dressed, fresh or chilled	..	..	6,200	184,000	1,200	..	192,000	383,400
Fish eggs and live fish for grow-out	..	..	1,500	24,000	3,300	..	15,100	43,900
Whole fish live except for grow-out	..	..	400	11,500	4,130	..	0	16,030
Whole fish, dressed and frozen	..	..	4,000	2,000	0	..	7,000	13,000
Fish fillets, fresh or frozen	..	..	6,200	48,000	2,200	..	78,500	134,900
Fish, dried, smoked or in brine	..	..	0	0	600	..	100	700
Total finfish	10,400	1,000	18,300	269,500	11,430	17,700	292,700	621,030
Total molluscs	3,800	28,200	7,000	3,500	500	0	18,000	61,000
Other goods and services, not elsewhere specified	0	200	1,600	4,100	300	100	1,700	8,000
Subsidies	500	0	300	400	x	x	500	1,970
Other operating revenue	300	100	200	5,000	x	x	14,000	24,800
Total operating revenue	15,000	29,500	27,400	282,500	12,500	23,000	326,900	716,800
Change in inventory value, goods	0	100	-1,000	15,000	0	300	20,000	34,400
Gross output	15,000	29,600	26,400	297,500	12,500	23,300	346,900	751,200
Product inputs								
Product expenses	9,450	8,250	16,050	210,700	6,950	14,300	232,400	498,100
Feed	4,800	325	7,500	75,000	2,800	5,900	120,000	216,325
Therapeutants	350	0	300	2,400	200	100	4,300	7,650
Purchases, eggs and fish for grow-out	550	1,375	3,000	27,500	750	4,500	13,000	50,675
Purchases, fish for processing and resale	0	0	x	62,500	x	0	8,000	70,950
Insurance premiums	150	250	600	2,500	250	300	5,500	9,550
Energy (electricity, fuel, et cetera)	400	400	600	3,300	1,100	700	4,400	10,900
Goods transportation and storage	550	0	500	8,000	50	200	11,000	20,300
Processing services	850	1,700	100	6,000	100	300	28,000	37,050
Rental and leasing expenses	400	300	x	2,000	x	200	2,800	6,000
Maintenance and repairs, buildings	300	1,025	150	1,000	200	300	1,200	4,175
Maintenance and repairs, machinery	200	425	550	5,000	400	300	6,500	13,375
Professional services	400	400	400	2,500	300	0	4,000	8,000
Other operating expenses, not elsewhere specified	500	2,050	1,900	13,000	500	1,500	23,700	43,150
Change in inventory value, raw materials	0	0	-100	0	100	100	2,000	2,100
Total of product inputs	9,450	8,250	16,150	210,700	6,850	14,200	230,400	496,000
Gross value added (factor cost)	5,550	21,350	10,250	86,800	5,650	9,100	116,500	255,200
Selected primary inputs								
Salaries and wages	3,000	10,500	7,000	31,000	2,500	4,100	43,000	101,100
Employer portion of employee benefits	300	1,200	700	3,100	200	350	4,300	10,150
Depreciation	600	2,500	1,200	9,000	800	1,000	22,000	37,100
Interest paid	350	500	1,500	6,300	400	750	9,000	18,800

1. Data and account structure are subject to revision.

2. Canada total excludes Manitoba, Saskatchewan and Alberta.

Table 3-6

Value added account - Aquaculture industry¹, by province and Canada — 2002

	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	British Columbia	Canada ²
'000 of dollars								
Sources of output								
Sales of aqua products and services	15,700	27,700	24,300	282,300	14,800	19,700	349,600	734,100
Whole fish dressed, fresh or chilled	..	..	3,450	180,000	1,150	..	215,100	399,700
Fish eggs and live fish for grow-out	..	..	3,000	25,500	4,150	..	16,500	49,150
Whole fish live except for grow-out	..	..	800	12,000	6,000	..	0	18,800
Whole fish, dressed and frozen	..	..	2,950	0	0	..	6,900	9,850
Fish fillets, fresh or frozen	..	..	5,800	57,500	2,100	..	90,000	155,400
Fish, dried, smoked or in brine	..	..	0	0	600	..	100	700
Total finfish	11,500	1,000	16,000	275,000	14,000	19,500	328,600	665,600
Total molluscs	4,200	26,500	7,300	3,800	500	0	20,000	62,300
Other goods and services, not elsewhere specified	0	200	1,000	3,500	300	200	1,000	6,200
Subsidies	300	0	100	300	x	x	350	1,350
Other operating revenue	350	100	100	4,000	x	x	8,000	18,900
Total operating revenue	16,350	27,800	24,500	286,600	15,250	25,900	357,950	754,350
Change in inventory value, goods	0	200	0	27,000	100	100	-25,000	2,400
Gross output	16,350	28,000	24,500	313,600	15,350	26,000	332,950	756,750
Product inputs								
Product expenses	9,645	8,370	14,050	220,900	7,560	14,120	262,800	537,445
Feed	5,150	350	6,800	78,000	2,700	6,200	135,000	234,200
Therapeutants	350	0	350	3,100	150	100	4,500	8,550
Purchases, eggs and fish for grow-out	500	1,500	3,100	29,000	800	3,000	12,000	49,900
Purchases, fish for processing and resale	0	0	250	67,500	400	200	8,100	76,450
Insurance premiums	175	260	300	4,000	250	350	6,500	11,835
Energy (electricity, fuel, et cetera)	450	500	750	3,300	1,200	800	5,300	12,300
Goods transportation and storage	450	500	300	7,000	150	400	18,000	26,800
Processing services	600	1,600	100	10,000	150	200	35,000	47,650
Rental and leasing expenses	425	280	200	2,100	200	210	2,600	6,015
Maintenance and repairs, buildings	250	1,100	200	1,600	250	310	1,300	5,010
Maintenance and repairs, machinery	275	500	250	4,800	300	350	8,500	14,975
Professional services	350	410	450	1,500	410	220	6,000	9,340
Other operating expenses, not elsewhere specified	670	1,370	1,000	9,000	600	1,780	20,000	34,420
Change in inventory value, raw materials	0	0	100	-100	0	100	600	700
Total of product inputs	9,645	8,370	13,950	221,000	7,560	14,020	262,200	536,745
Gross value added (factor cost)	6,705	19,630	10,550	92,600	7,790	11,980	70,750	220,005
Selected primary inputs								
Salaries and wages	3,200	10,800	6,000	33,000	3,300	4,300	48,000	108,600
Employer portion of employee benefits	300	1,200	600	3,300	330	400	5,000	11,130
Depreciation	800	2,000	1,220	11,000	900	900	28,000	44,820
Interest paid	325	500	1,000	6,500	380	800	12,000	21,505

1. Data and account structure are subject to revision.

2. Canada total excludes Manitoba, Saskatchewan and Alberta.

Table 3-7

Value added account - Aquaculture industry¹, by province and Canada — 2003

	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	British Columbia	Canada ²
'000 of dollars								
Sources of output								
Sales of aqua products and services	15,400	32,150	28,600	268,800	13,520	19,235	343,190	720,895
Whole fish dressed, fresh or chilled	..	..	5,313	170,000	1,100	..	175,000	351,413
Fish eggs and live fish for grow-out	..	..	x	x	4,000	..	10,000	32,750
Whole fish live except for grow-out	..	..	x	28,000	5,900	..	x	35,500
Whole fish, dressed and frozen	..	..	3,688	0	0	..	7,000	10,688
Fish fillets, fresh or frozen	..	..	6,250	x	x	..	130,000	187,250
Fish, dried, smoked or in brine	..	..	0	0	x	..	x	290
Total finfish	10,900	1,000	20,000	263,000	12,200	18,800	322,690	648,590
Total molluscs	4,000	31,000	8,000	4,200	900	0	20,000	68,100
Other goods and services, not elsewhere specified	500	150	600	1,600	420	435	500	4,205
Subsidies	100	0	x	250	400	x	100	1,080
Other operating revenue	350	180	x	3,800	600	x	4,510	15,175
Total operating revenue	15,850	32,330	28,735	272,850	14,520	25,065	347,800	737,150
Change in inventory value, goods	1,000	-300	-300	10,000	600	100	-19,800	-8,700
Gross output	16,850	32,030	28,435	282,850	15,120	25,165	328,000	728,450
Product inputs								
Product expenses	10,860	7,731	14,270	200,350	7,100	13,430	269,300	523,041
Feed	5,600	150	7,000	72,000	2,300	6,500	145,000	238,550
Therapeutants	370	x	300	2,500	x	x	5,300	8,690
Purchases, eggs and fish for grow-out	1,100	2,300	2,700	20,000	500	2,000	18,000	46,600
Purchases, fish for processing and resale	x	x	x	62,000	600	600	6,000	69,820
Insurance premiums	300	235	375	4,000	270	250	6,000	11,430
Energy (electricity, fuel, et cetera)	520	500	775	3,000	1,000	700	4,500	10,995
Goods transportation and storage	580	500	450	4,800	50	375	17,000	23,755
Processing services	700	1,000	500	16,000	100	100	33,000	51,400
Rental and leasing expenses	300	270	x	1,500	x	230	2,200	4,875
Maintenance and repairs, buildings	270	600	250	1,000	300	210	800	3,430
Maintenance and repairs, machinery	x	580	300	4,800	500	x	6,500	12,955
Professional services	370	206	320	2,700	275	195	5,000	9,066
Other operating expenses, not elsewhere specified	530	1,380	600	6,050	930	1,985	20,000	31,475
Change in inventory value, raw materials	100	0	0	1,000	200	0	3,000	4,300
Total of product inputs	10,760	7,731	14,270	199,350	6,900	13,430	266,300	518,741
Gross value added (factor cost)	6,090	24,299	14,165	83,500	8,220	11,735	61,700	209,709
Selected primary inputs								
Salaries and wages	3,000	11,200	6,100	34,000	3,200	4,200	41,000	102,700
Employer portion of employee benefits	400	1,100	610	3,300	350	390	4,800	10,950
Depreciation	790	2,200	1,250	10,000	1,200	910	23,000	39,350
Interest paid	350	1,000	1,000	6,500	450	650	12,000	21,950

1. Data and account structure are subject to revision.

2. Canada total excludes Manitoba, Saskatchewan and Alberta.

Table 3-8

Value added account - Aquaculture industry¹, by province and Canada — 2004

	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	British Columbia	Canada ²
'000 of dollars								
Sources of output								
Sales of aqua products and services	20,500	31,250	21,900	247,200	13,100	17,100	302,280	653,330
Whole fish dressed, fresh or chilled	..	..	2,500	177,000	1,400	..	190,000	370,900
Fish eggs and live fish for grow-out	..	..	3,000	8,000	3,800	..	13,000	27,800
Whole fish live except for grow-out	..	..	x	x	5,600	..	x	17,750
Whole fish, dressed and frozen	..	..	2,000	0	0	..	18,000	20,000
Fish fillets, fresh or frozen	..	..	2,500	x	x	..	62,000	111,600
Fish, dried, smoked or in brine	..	..	x	0	x	..	x	180
Total finfish	14,500	1,200	11,000	242,000	12,000	17,000	283,230	580,930
Total molluscs	5,000	30,000	10,000	3,200	800	0	18,500	67,500
Other goods and services, not elsewhere specified	x	50	x	x	300	x	x	4,900
Subsidies	x	0	x	x	100	x	x	860
Other operating revenue	0	110	x	4,500	425	x	4,150	14,725
Total operating revenue	20,600	31,360	21,950	252,000	13,625	22,880	306,630	668,915
Change in inventory value, goods	1,000	100	500	46,000	-40	-200	9,800	57,160
Gross output	21,600	31,460	22,450	298,000	13,585	22,680	316,430	726,075
Product inputs								
Product expenses	13,505	8,585	14,795	209,200	6,345	11,125	266,300	529,855
Feed	8,000	210	7,000	80,000	2,100	6,000	135,000	238,310
Therapeutants	x	x	700	3,200	x	x	7,000	11,410
Purchases, eggs and fish for grow-out	650	2,700	2,200	27,000	300	1,000	15,000	48,850
Purchases, fish for processing and resale	135	x	x	x	300	550	x	56,335
Insurance premiums	x	x	475	6,000	240	150	6,500	14,145
Energy (electricity, fuel, et cetera)	535	540	810	3,700	1,100	725	6,000	13,410
Goods transportation and storage	800	300	500	5,000	100	300	18,000	25,000
Processing services	500	1,000	x	11,500	x	x	42,000	55,450
Rental and leasing expenses	350	400	280	1,800	100	250	2,800	5,980
Maintenance and repairs, buildings	300	650	310	x	200	100	x	4,260
Maintenance and repairs, machinery	200	650	350	5,800	330	200	8,000	15,530
Professional services	510	220	315	3,900	285	245	5,000	10,475
Other operating expenses, not elsewhere specified	725	1,625	1,155	7,500	1,140	1,455	17,100	30,700
Change in inventory value, raw materials	0	0	-100	-5,000	50	0	7,000	1,950
Total of product inputs	13,505	8,585	14,895	214,200	6,295	11,125	259,300	527,905
Gross value added (factor cost)	8,095	22,875	7,555	83,800	7,290	11,555	57,130	198,170
Selected primary inputs								
Salaries and wages	3,200	11,500	6,200	34,500	3,000	3,960	42,000	104,360
Employer portion of employee benefits	380	1,000	620	3,600	310	350	5,000	11,260
Depreciation	850	2,300	1,500	12,000	1,000	950	35,000	53,600
Interest paid	550	800	950	6,800	320	650	11,000	21,070

1. Data and account structure are subject to revision.

2. Canada total excludes Manitoba, Saskatchewan and Alberta.

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. Beginning in 1996, additional data for Quebec represents the sale of fish to outfitters offering lodging and services for hunting, fishing and trapping.

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.

code 3073110	Mussels
code 3021221	Spring salmon - includes coho and spring (chinook) salmon
codes 3021211, 3021212, 3032200	Atlantic salmon
code 3041031	Atlantic salmon fillets

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 \$850,000.
- 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 2004, the frame included 654 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 2004 was 157 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 2004 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 84% 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 2004, the response rates of the 157 sampled establishments receiving a questionnaire are: Completed: 68%; Refusal: 2%; Non-response (non-response by survey deadline, unable to locate): 17%; Out-of-scope (inactive, out of business, out-of-scope): 13%. 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, 19% 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.