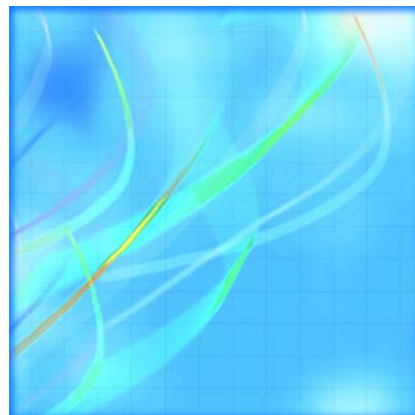


Catalogue no. 23-222-X

# Aquaculture Statistics

2009



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# Aquaculture Statistics

2009

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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.*

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## 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
- 0s 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

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- Operating revenues increased 20.8% to \$908.2 million between 2008 and 2009, largely due to increased sales of finfish.
- The gross value added to the economy by the aquaculture industry rose to \$325.4 million, up 41.3% from 2008.
- Finfish sales, which accounted for 89.4% of total operating revenue in 2009, increased 22.3% to \$812.2 million.
- Total exports of farmed salmon decreased 9.0% in 2009, while farmed mussel exports increased 8.9% compared to 2008.

## 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-XIE, 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

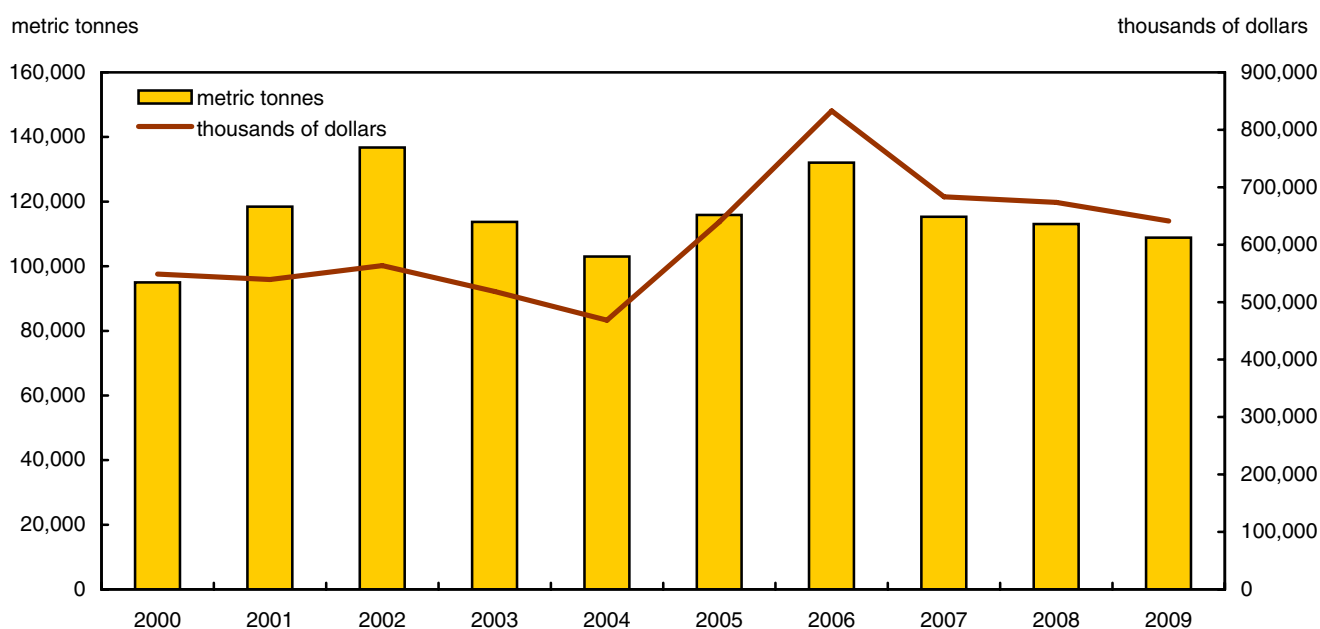
Operating revenues increased 20.8% to \$908.2 million between 2008 and 2009, largely due to increased sales of finfish. Operating expenses went up 11.5% to \$589.5 million led by higher feed costs which rose by 19.4%. Feed accounted for roughly half of the operating costs in the industry.

The gross value added to the economy by the aquaculture industry rose to \$325.4 million, up 41.3% from 2008.

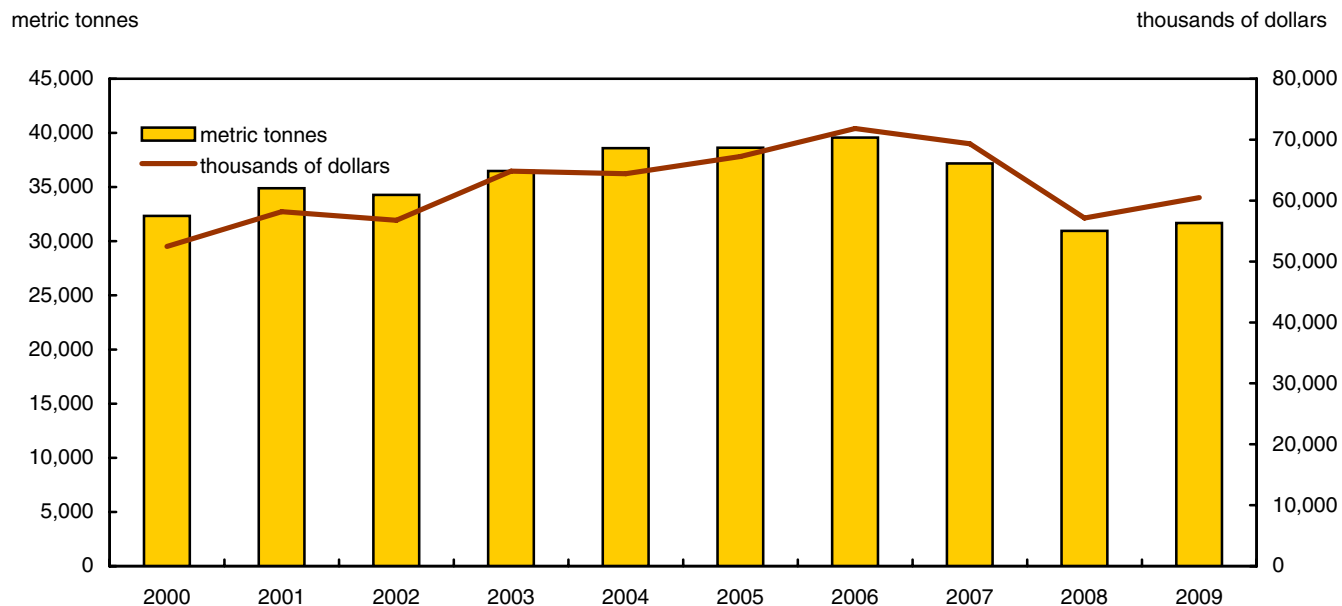
Finfish sales, which accounted for 89.4% of total operating revenue in 2009, increased 22.3% to \$812.2 million. Revenue from mollusc's sales, which accounted for 6.7% of total operating revenue, increased 6.1% to \$60.7 million.

Of the 85 thousand tonnes of Canadian aquaculture products exported, the majority of exports (97.9%) are still destined for the United States. Total exports of farmed salmon decreased 9.0% in 2009, while farmed mussel exports increased 8.9% compared to 2008.

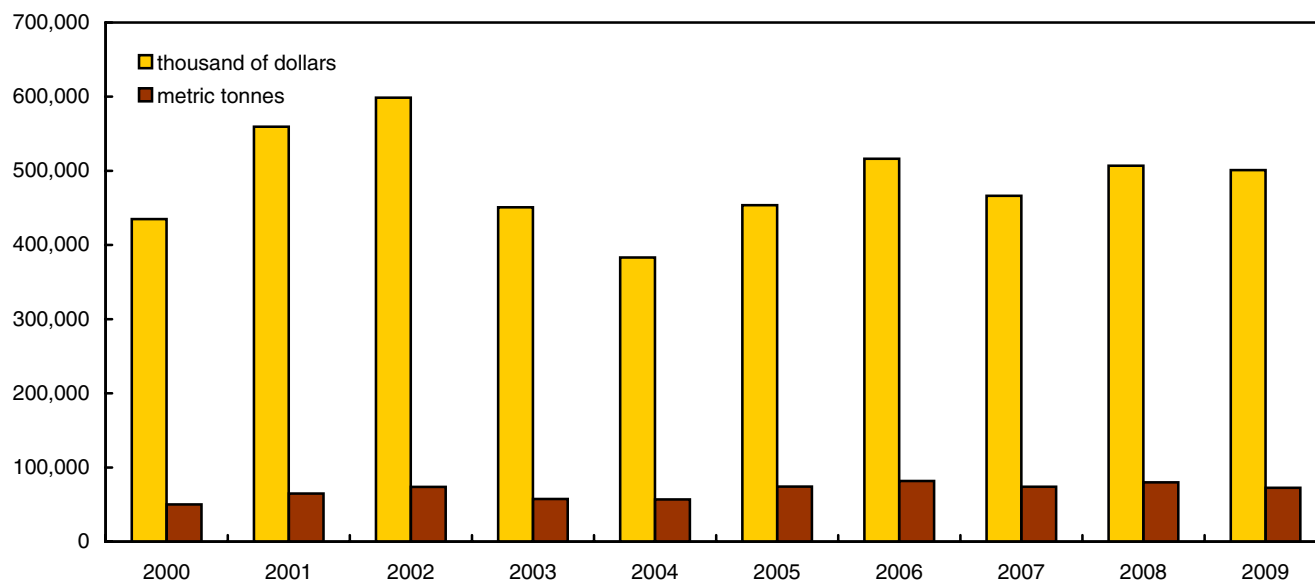
**Chart 1**  
**Canadian finfish production**



**Chart 2**  
**Canadian shellfish production**



**Chart 3**  
**Canadian exports of atlantic salmon and atlantic salmon fillets**



## Related products

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### Selected publications from Statistics Canada

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

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### Selected CANSIM tables from Statistics Canada

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

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### Selected surveys from Statistics Canada

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

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### Selected summary tables from Statistics Canada

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- *Canadian Statistics - Aquaculture industry, by selected provinces*

# Statistical tables

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**Table 1-1**  
**Aquaculture, production and value, 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											
<b>Production</b>											
Salmon <sup>1</sup>	1,092	x	2,614	33,900	0	0	0	0	0	68,000	105,606
Trout <sup>1</sup>	0	x	0	550	723	4,135	16	989	x	100	6,513
Steelhead <sup>1</sup>	1,719	0	2,986	0	0	0	0	0	0	0	4,705
Other finfish <sup>2</sup>	x	x	x	x	x	x	x	x	x	x	1,604
<b>Total finfish</b>	<b>2,811</b>	<b>88</b>	<b>5,600</b>	<b>34,450</b>	<b>723</b>	<b>4,135</b>	<b>16</b>	<b>989</b>	<b>x</b>	<b>68,100</b>	<b>118,428</b>
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	492	0	0	0	0	51	21,566
Scallops	0	0	8	0	0	0	0	0	0	56	64
Other shellfish	0	0	402	0	147	0	0	0	0	0	549
<b>Total shellfish</b>	<b>1,452</b>	<b>20,250</b>	<b>2,467</b>	<b>1,183</b>	<b>639</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8,907</b>	<b>34,898</b>
<b>Total aquaculture</b>	<b>4,263</b>	<b>20,338</b>	<b>8,067</b>	<b>35,633</b>	<b>1,362</b>	<b>4,135</b>	<b>16</b>	<b>989</b>	<b>x</b>	<b>77,007</b>	<b>153,326</b>
<b>Re-stocking <sup>3</sup></b>	.	.	.	.	740	.	.	.	.	.	740
<b>Total aquaculture (including re-stocking) <sup>3</sup></b>	<b>4,263</b>	<b>20,338</b>	<b>8,067</b>	<b>35,633</b>	<b>2,102</b>	<b>4,135</b>	<b>16</b>	<b>989</b>	<b>x</b>	<b>77,007</b>	<b>154,066</b>
thousands of dollars											
<b>Value</b>											
Salmon <sup>1</sup>	5,200	x	14,361	180,010	0	0	0	0	0	270,900	470,471
Trout <sup>1</sup>	0	x	0	6,100	3,931	16,100	62	4,971	x	500	31,664
Steelhead <sup>1</sup>	9,752	0	9,777	0	0	0	0	0	0	0	19,529
Other finfish <sup>2</sup>	x	x	x	x	x	x	x	x	x	x	17,819
<b>Total finfish</b>	<b>14,952</b>	<b>811</b>	<b>24,138</b>	<b>186,110</b>	<b>3,931</b>	<b>16,100</b>	<b>62</b>	<b>4,971</b>	<b>x</b>	<b>271,400</b>	<b>539,483</b>
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	640	0	0	0	0	121	30,404
Scallops	0	0	88	0	0	0	0	0	0	363	451
Other shellfish	0	0	2,096	0	270	0	0	0	0	0	2,366
<b>Total shellfish</b>	<b>3,929</b>	<b>29,433</b>	<b>5,513</b>	<b>1,324</b>	<b>910</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>17,084</b>	<b>58,193</b>
<b>Total aquaculture</b>	<b>18,881</b>	<b>30,244</b>	<b>29,651</b>	<b>187,434</b>	<b>4,841</b>	<b>16,100</b>	<b>62</b>	<b>4,971</b>	<b>x</b>	<b>288,484</b>	<b>597,676</b>
<b>Re-stocking <sup>3</sup></b>	.	.	.	.	7,799	.	.	.	.	.	7,799
<b>Total aquaculture (including re-stocking) <sup>3</sup></b>	<b>18,881</b>	<b>30,244</b>	<b>29,651</b>	<b>187,434</b>	<b>12,640</b>	<b>16,100</b>	<b>62</b>	<b>4,971</b>	<b>x</b>	<b>288,484</b>	<b>605,475</b>

1. Excludes other finfish for all provinces until 2005. Excludes other finfish for all provinces except Quebec beginning in 2006.

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

3. Sales to outfitters: operations offering lodging and services for hunting, fishing and trapping.

**Note(s):** 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 are collected from each of the provincial departments responsible for aquaculture.

**Table 1-2**  
**Aquaculture, production and value, 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											
<b>Production</b>											
Salmon <sup>1</sup>	1,270	x	1,951	38,900	0	0	0	0	0	84,200	126,321
Trout <sup>1</sup>	0	x	0	550	603	4,650	16	914	x	100	6,833
Steelhead <sup>1</sup>	1,600	0	434	0	0	0	0	0	0	0	2,034
Other finfish <sup>2</sup>	x	x	x	x	x	x	x	x	x	x	1,567
<b>Total finfish</b>	<b>2,870</b>	<b>33</b>	<b>2,385</b>	<b>39,450</b>	<b>603</b>	<b>4,650</b>	<b>16</b>	<b>914</b>	<b>x</b>	<b>84,300</b>	<b>136,755</b>
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	1,700	16,785	1,073	637	377	0	0	0	0	43	20,615
Scallops	0	0	16	0	0	0	0	0	0	51	67
Other shellfish	0	0	374	0	204	0	0	0	0	0	578
<b>Total shellfish</b>	<b>1,700</b>	<b>19,521</b>	<b>1,812</b>	<b>1,872</b>	<b>581</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8,794</b>	<b>34,280</b>
<b>Total aquaculture</b>	<b>4,570</b>	<b>19,554</b>	<b>4,197</b>	<b>41,322</b>	<b>1,184</b>	<b>4,650</b>	<b>16</b>	<b>914</b>	<b>x</b>	<b>93,094</b>	<b>171,035</b>
<b>Re-stocking <sup>3</sup></b>	.	.	.	.	<b>768</b>	.	.	.	.	.	<b>768</b>
<b>Total aquaculture (including re-stocking) <sup>3</sup></b>	<b>4,570</b>	<b>19,554</b>	<b>4,197</b>	<b>41,322</b>	<b>1,952</b>	<b>4,650</b>	<b>16</b>	<b>914</b>	<b>x</b>	<b>93,094</b>	<b>171,803</b>
thousands of dollars											
<b>Value</b>											
Salmon <sup>1</sup>	6,132	x	12,504	194,500	0	0	0	0	0	288,900	502,036
Trout <sup>1</sup>	0	x	0	6,100	3,273	17,900	63	4,607	x	700	32,643
Steelhead <sup>1</sup>	8,800	0	1,368	0	0	0	0	0	0	0	10,168
Other finfish <sup>2</sup>	x	x	x	x	x	x	x	x	x	x	18,662
<b>Total finfish</b>	<b>14,932</b>	<b>892</b>	<b>13,872</b>	<b>200,600</b>	<b>3,273</b>	<b>17,900</b>	<b>63</b>	<b>4,607</b>	<b>x</b>	<b>289,600</b>	<b>563,509</b>
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	5,500	22,202	2,288	801	490	0	0	0	0	168	31,449
Scallops	0	0	152	0	0	0	0	0	0	312	464
Other shellfish	0	0	2,247	0	343	0	0	0	0	0	2,590
<b>Total shellfish</b>	<b>5,500</b>	<b>27,929</b>	<b>5,763</b>	<b>1,974</b>	<b>833</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>14,780</b>	<b>56,779</b>
<b>Total aquaculture</b>	<b>20,432</b>	<b>28,821</b>	<b>19,635</b>	<b>202,574</b>	<b>4,106</b>	<b>17,900</b>	<b>63</b>	<b>4,607</b>	<b>x</b>	<b>304,380</b>	<b>620,288</b>
<b>Re-stocking <sup>3</sup></b>	.	.	.	.	<b>8,010</b>	.	.	.	.	.	<b>8,010</b>
<b>Total aquaculture (including re-stocking) <sup>3</sup></b>	<b>20,432</b>	<b>28,821</b>	<b>19,635</b>	<b>202,574</b>	<b>12,116</b>	<b>17,900</b>	<b>63</b>	<b>4,607</b>	<b>x</b>	<b>304,380</b>	<b>628,298</b>

1. Excludes other finfish for all provinces until 2005. Excludes other finfish for all provinces except Quebec beginning in 2006.

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

3. Sales to outfitters: operations offering lodging and services for hunting, fishing and trapping.

**Note(s):** 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 are collected from each of the provincial departments responsible for aquaculture.

**Table 1-3**  
**Aquaculture, production and value, 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											
<b>Production</b>											
Salmon <sup>1</sup>	1,450	x	x	33,100	0	0	0	0	0	65,411	99,961
Trout <sup>1</sup>	0	x	0	550	357	4,200	10	x	x	136	5,253
Steelhead <sup>1</sup>	1,150	0	x	0	0	0	0	0	0	0	1,150
Other finfish <sup>2</sup>	x	x	x	x	x	x	x	x	x	x	7,352
<b>Total finfish</b>	<b>2,600</b>	<b>24</b>	<b>5,210</b>	<b>33,650</b>	<b>357</b>	<b>4,200</b>	<b>10</b>	<b>x</b>	<b>x</b>	<b>65,547</b>	<b>113,716</b>
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	1,300	16,826	1,439	453	499	0	0	0	0	73	20,590
Scallops	0	0	15	0	0	0	0	0	0	80	95
Other shellfish	0	0	451	0	143	0	0	0	0	0	594
<b>Total shellfish</b>	<b>1,300</b>	<b>19,862</b>	<b>2,303</b>	<b>2,803</b>	<b>642</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9,579</b>	<b>36,489</b>
<b>Total aquaculture</b>	<b>3,900</b>	<b>19,886</b>	<b>7,513</b>	<b>36,453</b>	<b>999</b>	<b>4,200</b>	<b>10</b>	<b>x</b>	<b>x</b>	<b>75,126</b>	<b>150,205</b>
<b>Re-stocking <sup>3</sup></b>	.	.	.	.	735	.	.	.	.	.	735
<b>Total aquaculture (including re-stocking) <sup>3</sup></b>	<b>3,900</b>	<b>19,886</b>	<b>7,513</b>	<b>36,453</b>	<b>1,734</b>	<b>4,200</b>	<b>10</b>	<b>x</b>	<b>x</b>	<b>75,126</b>	<b>150,940</b>
thousands of dollars											
<b>Value</b>											
Salmon <sup>1</sup>	6,670	x	x	179,000	0	0	0	0	0	255,801	441,471
Trout <sup>1</sup>	0	x	0	6,100	1,978	17,000	39	x	x	597	25,714
Steelhead <sup>1</sup>	6,324	0	x	0	0	0	0	0	0	0	6,324
Other finfish <sup>2</sup>	x	x	x	x	x	x	x	x	x	x	44,933
<b>Total finfish</b>	<b>12,994</b>	<b>852</b>	<b>26,874</b>	<b>185,100</b>	<b>1,978</b>	<b>17,000</b>	<b>39</b>	<b>x</b>	<b>x</b>	<b>256,398</b>	<b>518,442</b>
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	4,200	23,597	1,644	600	648	0	0	0	0	240	30,929
Scallops	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
<b>Total shellfish</b>	<b>4,200</b>	<b>31,028</b>	<b>8,380</b>	<b>3,100</b>	<b>1,002</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>17,133</b>	<b>64,843</b>
<b>Total aquaculture</b>	<b>17,194</b>	<b>31,880</b>	<b>35,254</b>	<b>188,200</b>	<b>2,980</b>	<b>17,000</b>	<b>39</b>	<b>x</b>	<b>x</b>	<b>273,531</b>	<b>583,285</b>
<b>Re-stocking <sup>3</sup></b>	.	.	.	.	7,699	.	.	.	.	.	7,699
<b>Total aquaculture (including re-stocking) <sup>3</sup></b>	<b>17,194</b>	<b>31,880</b>	<b>35,254</b>	<b>188,200</b>	<b>10,679</b>	<b>17,000</b>	<b>39</b>	<b>x</b>	<b>x</b>	<b>273,531</b>	<b>590,984</b>

1. Excludes other finfish for all provinces until 2005. Excludes other finfish for all provinces except Quebec beginning in 2006.

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

3. Sales to outfitters: operations offering lodging and services for hunting, fishing and trapping.

**Note(s):** 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 are collected from each of the provincial departments responsible for aquaculture.

**Table 1-4**  
**Aquaculture, production and value, 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											
<b>Production</b>											
Salmon <sup>1</sup>	x	x	x	35,000	0	0	0	0	0	55,646	90,646
Trout <sup>1</sup>	0	x	0	400	333	4,000	10	x	x	115	4,858
Steelhead <sup>1</sup>	x	0	x	0	0	0	0	0	0	0	0
Other finfish <sup>2</sup>	x	x	x	x	x	x	x	x	x	x	7,491
<b>Total finfish</b>	<b>3,329</b>	<b>20</b>	<b>2,050</b>	<b>35,400</b>	<b>333</b>	<b>4,000</b>	<b>10</b>	<b>x</b>	<b>x</b>	<b>55,761</b>	<b>102,995</b>
Clams	0	0	0	0	0	0	0	0	0	1,599	1,599
Oysters	0	3,335	314	1,434	0	0	0	0	0	8,145	13,228
Mussels	2,300	17,576	2,083	450	370	0	0	0	0	84	22,863
Scallops	0	0	10	0	0	0	0	0	0	77	87
Other shellfish	0	0	537	0	271	0	0	0	0	0	808
<b>Total shellfish</b>	<b>2,300</b>	<b>20,911</b>	<b>2,944</b>	<b>1,884</b>	<b>641</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9,905</b>	<b>38,585</b>
<b>Total aquaculture</b>	<b>5,629</b>	<b>20,931</b>	<b>4,994</b>	<b>37,284</b>	<b>974</b>	<b>4,000</b>	<b>10</b>	<b>x</b>	<b>x</b>	<b>65,666</b>	<b>141,580</b>
<b>Re-stocking <sup>3</sup></b>	.	.	.	.	822	.	.	.	.	.	822
<b>Total aquaculture (including re-stocking) <sup>3</sup></b>	<b>5,629</b>	<b>20,931</b>	<b>4,994</b>	<b>37,284</b>	<b>1,796</b>	<b>4,000</b>	<b>10</b>	<b>x</b>	<b>x</b>	<b>65,666</b>	<b>142,402</b>
thousands of dollars											
<b>Value</b>											
Salmon <sup>1</sup>	x	x	x	175,000	0	0	0	0	0	225,180	400,180
Trout <sup>1</sup>	0	x	0	4,000	1,831	15,500	41	x	x	714	22,086
Steelhead <sup>1</sup>	x	0	x	0	0	0	0	0	0	0	0
Other finfish <sup>2</sup>	x	x	x	x	x	x	x	x	x	x	46,251
<b>Total finfish</b>	<b>17,000</b>	<b>3,256</b>	<b>8,815</b>	<b>179,000</b>	<b>1,831</b>	<b>15,500</b>	<b>41</b>	<b>x</b>	<b>x</b>	<b>225,894</b>	<b>468,517</b>
Clams	0	0	0	0	0	0	0	0	0	7,371	7,371
Oysters	0	6,670	898	1,505	0	0	0	0	0	7,667	16,740
Mussels	5,055	23,249	3,198	500	481	0	0	0	0	324	32,807
Scallops	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
<b>Total shellfish</b>	<b>5,055</b>	<b>29,919</b>	<b>10,312</b>	<b>2,005</b>	<b>1,182</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15,934</b>	<b>64,407</b>
<b>Total aquaculture</b>	<b>22,055</b>	<b>33,175</b>	<b>19,127</b>	<b>181,005</b>	<b>3,013</b>	<b>15,500</b>	<b>41</b>	<b>x</b>	<b>x</b>	<b>241,828</b>	<b>532,924</b>
<b>Re-stocking <sup>3</sup></b>	.	.	.	.	8,426	.	.	.	.	.	8,426
<b>Total aquaculture (including re-stocking) <sup>3</sup></b>	<b>22,055</b>	<b>33,175</b>	<b>19,127</b>	<b>181,005</b>	<b>11,439</b>	<b>15,500</b>	<b>41</b>	<b>x</b>	<b>x</b>	<b>241,828</b>	<b>541,350</b>

1. Excludes other finfish for all provinces until 2005. Excludes other finfish for all provinces except Quebec beginning in 2006.

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

3. Sales to outfitters: operations offering lodging and services for hunting, fishing and trapping.

**Note(s):** 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 are collected from each of the provincial departments responsible for aquaculture.

**Table 1-5**  
**Aquaculture, production and value, by province and Canada — 2005**

	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia	Canada
tonnes											
<b>Production</b>											
Salmon <sup>1</sup>	x	x	x	35,000	0	0	0	0	0	63,370	98,370
Trout <sup>1</sup>	0	x	0	300	300	4,075	11	x	x	171	4,857
Steelhead <sup>1</sup>	x	0	x	0	0	0	0	0	0	0	0
Other finfish <sup>2</sup>	x	x	x	x	x	x	x	x	x	x	12,621
<b>Total finfish</b>	<b>4,991</b>	<b>10</b>	<b>5,704</b>	<b>35,300</b>	<b>300</b>	<b>4,075</b>	<b>11</b>	<b>x</b>	<b>x</b>	<b>63,541</b>	<b>115,848</b>
Clams	0	0	0	0	0	0	0	0	0	1,856	1,856
Oysters	0	2,857	232	1,857	0	0	0	0	0	8,011	12,957
Mussels	3,157	16,054	2,300	500	753	0	0	0	0	166	22,930
Scallops	0	0	11	0	0	0	0	0	0	50	61
Other shellfish	0	0	670	0	162	0	0	0	0	0	832
<b>Total shellfish</b>	<b>3,157</b>	<b>18,911</b>	<b>3,213</b>	<b>2,357</b>	<b>915</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10,083</b>	<b>38,636</b>
<b>Total aquaculture</b>	<b>8,148</b>	<b>18,921</b>	<b>8,917</b>	<b>37,657</b>	<b>1,215</b>	<b>4,075</b>	<b>11</b>	<b>x</b>	<b>x</b>	<b>73,624</b>	<b>154,484</b>
<b>Re-stocking <sup>3</sup></b>	.	.	.	.	<b>910</b>	.	.	.	.	.	<b>910</b>
<b>Total aquaculture (including re-stocking) <sup>3</sup></b>	<b>8,148</b>	<b>18,921</b>	<b>8,917</b>	<b>37,657</b>	<b>2,125</b>	<b>4,075</b>	<b>11</b>	<b>x</b>	<b>x</b>	<b>73,624</b>	<b>155,394</b>
thousands of dollars											
<b>Value</b>											
Salmon <sup>1</sup>	x	x	x	225,000	0	0	0	0	0	318,343	543,343
Trout <sup>1</sup>	0	x	0	3,000	1,854	15,500	43	x	x	966	21,363
Steelhead <sup>1</sup>	x	0	x	0	0	0	0	0	0	0	0
Other finfish <sup>2</sup>	x	x	x	x	x	x	x	x	x	x	74,842
<b>Total finfish</b>	<b>26,505</b>	<b>1,900</b>	<b>29,551</b>	<b>228,000</b>	<b>1,854</b>	<b>15,500</b>	<b>43</b>	<b>x</b>	<b>x</b>	<b>319,309</b>	<b>639,548</b>
Clams	0	0	0	0	0	0	0	0	0	8,463	8,463
Oysters	0	5,500	686	1,950	0	0	0	0	0	8,385	16,521
Mussels	6,960	21,400	3,060	550	980	0	0	0	0	632	33,582
Scallops	0	0	91	0	0	0	0	0	0	369	460
Other shellfish	0	0	7,030	0	1,190	0	0	0	0	0	8,220
<b>Total shellfish</b>	<b>6,960</b>	<b>26,900</b>	<b>10,867</b>	<b>2,500</b>	<b>2,170</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>17,849</b>	<b>67,246</b>
<b>Total aquaculture</b>	<b>33,465</b>	<b>28,800</b>	<b>40,418</b>	<b>230,500</b>	<b>4,024</b>	<b>15,500</b>	<b>43</b>	<b>x</b>	<b>x</b>	<b>337,158</b>	<b>706,794</b>
<b>Re-stocking <sup>3</sup></b>	.	.	.	.	<b>8,526</b>	.	.	.	.	.	<b>8,526</b>
<b>Total aquaculture (including re-stocking) <sup>3</sup></b>	<b>33,465</b>	<b>28,800</b>	<b>40,418</b>	<b>230,500</b>	<b>12,550</b>	<b>15,500</b>	<b>43</b>	<b>x</b>	<b>x</b>	<b>337,158</b>	<b>715,320</b>

1. Excludes other finfish for all provinces until 2005. Excludes other finfish for all provinces except Quebec beginning in 2006.

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

3. Sales to outfitters: operations offering lodging and services for hunting, fishing and trapping.

**Note(s):** 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 are collected from each of the provincial departments responsible for aquaculture.

**Table 1-6**  
**Aquaculture, production and value, by province and Canada — 2006**

	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia	Canada
tonnes											
<b>Production</b>											
Salmon <sup>1</sup>	x	x	x	x	0	0	0	0	0	70,181	118,061
Trout <sup>1</sup>	0	x	0	x	..	3,800	x	x	x	274	4,374
Steelhead <sup>1</sup>	x	0	x	0	0	0	0	0	0	0	0
Other finfish <sup>2</sup>	x	x	x	x	..	x	x	x	x	x	9,632
<b>Total finfish</b>	<b>7,300</b>	<b>10</b>	<b>x</b>	<b>x</b>	<b>461</b>	<b>3,800</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>70,455</b>	<b>132,067</b>
Clams	0	0	0	0	0	0	0	0	0	1,707	1,707
Oysters	0	2,903	x	x	0	0	0	0	0	8,212	13,200
Mussels	3,200	17,234	x	x	331	0	0	0	0	252	23,876
Scallops	0	0	x	0	0	0	0	0	0	46	60
Other shellfish	0	0	x	0	25	0	0	0	0	0	719
<b>Total shellfish</b>	<b>3,200</b>	<b>20,137</b>	<b>x</b>	<b>x</b>	<b>356</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10,217</b>	<b>39,562</b>
<b>Total aquaculture</b>	<b>10,500</b>	<b>20,147</b>	<b>x</b>	<b>x</b>	<b>817</b>	<b>3,800</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>80,672</b>	<b>171,629</b>
<b>Re-stocking <sup>3</sup></b>	.	.	.	.	<b>808</b>	.	.	.	.	.	<b>808</b>
<b>Total aquaculture (including re-stocking) <sup>3</sup></b>	<b>10,500</b>	<b>20,147</b>	<b>x</b>	<b>x</b>	<b>1,625</b>	<b>3,800</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>80,672</b>	<b>172,437</b>
thousands of dollars											
<b>Value</b>											
Salmon <sup>1</sup>	x	x	x	x	0	0	0	0	0	407,405	748,246
Trout <sup>1</sup>	0	x	0	x	..	15,700	x	x	x	1,043	19,743
Steelhead <sup>1</sup>	x	0	x	0	0	0	0	0	0	0	0
Other finfish <sup>2</sup>	x	x	x	x	..	x	x	x	x	x	64,771
<b>Total finfish</b>	<b>44,517</b>	<b>1,300</b>	<b>x</b>	<b>x</b>	<b>2,698</b>	<b>15,700</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>408,448</b>	<b>832,760</b>
Clams	0	0	0	0	0	0	0	0	0	8,906	8,906
Oysters	0	7,800	x	x	0	0	0	0	0	8,641	19,063
Mussels	7,772	22,800	x	x	430	0	0	0	0	1,128	35,817
Scallops	0	0	x	0	0	0	0	0	0	407	519
Other shellfish	0	0	x	0	249	0	0	0	0	0	7,530
<b>Total shellfish</b>	<b>7,772</b>	<b>30,600</b>	<b>x</b>	<b>x</b>	<b>679</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>19,082</b>	<b>71,835</b>
<b>Total aquaculture</b>	<b>52,289</b>	<b>31,900</b>	<b>x</b>	<b>x</b>	<b>3,377</b>	<b>15,700</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>427,530</b>	<b>904,595</b>
<b>Re-stocking <sup>3</sup></b>	.	.	.	.	<b>8,388</b>	.	.	.	.	.	<b>8,388</b>
<b>Total aquaculture (including re-stocking) <sup>3</sup></b>	<b>52,289</b>	<b>31,900</b>	<b>x</b>	<b>x</b>	<b>11,765</b>	<b>15,700</b>	<b>x</b>	<b>x</b>	<b>x</b>	<b>427,530</b>	<b>912,983</b>

1. Excludes other finfish for all provinces until 2005. Excludes other finfish for all provinces except Quebec beginning in 2006.

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

3. Sales to outfitters: operations offering lodging and services for hunting, fishing and trapping.

**Note(s):** 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 are collected from each of the provincial departments responsible for aquaculture.

**Table 1-7**  
**Aquaculture, production and value, by province and Canada — 2007**

	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia	Canada
tonnes											
<b>Production</b>											
Salmon <sup>1</sup>	x	x	6,936	24,575	0	0	0	0	0	70,998	102,509
Trout <sup>1</sup>	0	x	118	300	..	4,100	21	x	x	505	5,044
Steelhead <sup>1</sup>	x	0	x	0	0	0	0	0	0	0	0
Other finfish <sup>2</sup>	x	x	x	x	..	x	x	x	x	x	7,745
<b>Total finfish</b>	<b>5,770</b>	<b>14</b>	<b>7,053</b>	<b>24,875</b>	<b>543</b>	<b>4,100</b>	<b>21</b>	<b>x</b>	<b>x</b>	<b>71,503</b>	<b>115,297</b>
Clams	0	0	211	0	0	0	0	0	0	1,658	1,869
Oysters	0	2,812	199	571	0	0	0	0	0	7,483	11,065
Mussels	2,600	17,052	2,476	550	614	0	0	0	0	543	23,835
Scallops	0	0	11	0	0	0	0	0	0	157	168
Other shellfish	0	0	230	0	11	0	0	0	0	0	241
<b>Total shellfish</b>	<b>2,600</b>	<b>19,864</b>	<b>3,127</b>	<b>1,121</b>	<b>625</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9,841</b>	<b>37,178</b>
<b>Total aquaculture</b>	<b>8,370</b>	<b>19,878</b>	<b>10,181</b>	<b>25,996</b>	<b>1,168</b>	<b>4,100</b>	<b>21</b>	<b>x</b>	<b>x</b>	<b>81,344</b>	<b>152,475</b>
<b>Re-stocking <sup>3</sup></b>	.	.	.	.	<b>585</b>	.	.	.	.	.	<b>585</b>
<b>Total aquaculture (including re-stocking) <sup>3</sup></b>	<b>8,370</b>	<b>19,878</b>	<b>10,181</b>	<b>25,996</b>	<b>1,753</b>	<b>4,100</b>	<b>21</b>	<b>x</b>	<b>x</b>	<b>81,344</b>	<b>153,060</b>
thousands of dollars											
<b>Value</b>											
Salmon <sup>1</sup>	x	x	39,209	181,609	0	0	0	0	0	384,099	604,917
Trout <sup>1</sup>	0	x	1,084	3,000	..	17,000	87	x	x	2,399	23,570
Steelhead <sup>1</sup>	x	0	x	0	0	0	0	0	0	0	0
Other finfish <sup>2</sup>	x	x	x	x	..	x	x	x	x	x	54,877
<b>Total finfish</b>	<b>35,200</b>	<b>1,700</b>	<b>40,293</b>	<b>184,609</b>	<b>3,173</b>	<b>17,000</b>	<b>87</b>	<b>x</b>	<b>x</b>	<b>386,498</b>	<b>683,364</b>
Clams	0	0	408	0	0	0	0	0	0	9,305	9,713
Oysters	0	6,700	821	600	0	0	0	0	0	8,605	16,726
Mussels	4,800	21,800	3,461	600	798	0	0	0	0	2,481	33,940
Scallops	0	0	197	0	0	0	0	0	0	877	1,074
Other shellfish	0	0	7,808	0	64	0	0	0	0	0	7,872
<b>Total shellfish</b>	<b>4,800</b>	<b>28,500</b>	<b>12,696</b>	<b>1,200</b>	<b>862</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>21,268</b>	<b>69,326</b>
<b>Total aquaculture</b>	<b>40,000</b>	<b>30,200</b>	<b>52,989</b>	<b>185,809</b>	<b>4,035</b>	<b>17,000</b>	<b>87</b>	<b>x</b>	<b>x</b>	<b>407,766</b>	<b>752,690</b>
<b>Re-stocking <sup>3</sup></b>	.	.	.	.	<b>8,880</b>	.	.	.	.	.	<b>8,880</b>
<b>Total aquaculture (including re-stocking) <sup>3</sup></b>	<b>40,000</b>	<b>30,200</b>	<b>52,989</b>	<b>185,809</b>	<b>12,915</b>	<b>17,000</b>	<b>87</b>	<b>x</b>	<b>x</b>	<b>407,766</b>	<b>761,570</b>

1. Excludes other finfish for all provinces until 2005. Excludes other finfish for all provinces except Quebec beginning in 2006.

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

3. Sales to outfitters: operations offering lodging and services for hunting, fishing and trapping.

**Note(s):** 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 are collected from each of the provincial departments responsible for aquaculture.

**Table 1-8**  
**Aquaculture, production and value, by province and Canada — 2008**

	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia	Canada <sup>1</sup>
tonnes											
<b>Production</b>											
Salmon <sup>2</sup>	..	..	4,810	26,000	0	0	0	0	0	73,265	104,075
Trout <sup>2</sup>	..	..	143	500	325	4,260	20	x	x	617	7,785
Steelhead <sup>2</sup>	..	..	0	0	0	0	0	0	0	0	0
Other finfish <sup>3</sup>	..	..	x	x	x	x	x	x	x	x	1,177
<b>Total finfish</b>	..	<b>4</b>	<b>4,953</b>	<b>26,500</b>	<b>325</b>	<b>4,260</b>	<b>20</b>	<b>x</b>	<b>x</b>	<b>73,882</b>	<b>113,041</b>
Clams	..	0	329	0	0	0	0	0	0	1,299	1,628
Oysters	..	2,586	151	598	0	0	0	0	0	5,654	8,989
Mussels	..	16,919	1,677	500	546	0	0	0	0	285	19,927
Scallops	..	0	9	0	0	0	0	0	0	276	285
Other shellfish	..	0	126	0	5	0	0	0	0	0	131
<b>Total shellfish</b>	..	<b>19,505</b>	<b>2,292</b>	<b>1,098</b>	<b>551</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7,514</b>	<b>30,960</b>
<b>Total aquaculture</b>	<b>11,545</b>	<b>19,509</b>	<b>7,245</b>	<b>27,598</b>	<b>876</b>	<b>4,260</b>	<b>20</b>	<b>x</b>	<b>x</b>	<b>81,396</b>	<b>155,546</b>
<b>Re-stocking <sup>4</sup></b>	.	.	.	.	<b>385</b>	.	.	.	.	.	<b>385</b>
<b>Total aquaculture (including re-stocking) <sup>4</sup></b>	<b>11,545</b>	<b>19,509</b>	<b>7,245</b>	<b>27,598</b>	<b>1,261</b>	<b>4,260</b>	<b>20</b>	<b>x</b>	<b>x</b>	<b>81,396</b>	<b>155,931</b>
thousands of dollars											
<b>Value</b>											
Salmon <sup>2</sup>	..	..	23,175	192,140	0	0	0	0	0	409,267	624,582
Trout <sup>2</sup>	..	..	1,479	5,000	1,574	17,200	81	x	x	2,816	40,330
Steelhead <sup>2</sup>	..	..	0	0	0	0	0	0	0	0	0
Other finfish <sup>3</sup>	..	..	x	x	x	x	x	x	x	x	7,227
<b>Total finfish</b>	..	<b>1,600</b>	<b>24,654</b>	<b>197,140</b>	<b>1,574</b>	<b>17,200</b>	<b>81</b>	<b>x</b>	<b>x</b>	<b>412,083</b>	<b>673,739</b>
Clams	..	0	1,424	0	0	0	0	0	0	7,190	8,614
Oysters	..	5,700	652	628	0	0	0	0	0	6,522	13,502
Mussels	..	22,300	2,430	545	766	0	0	0	0	1,281	27,322
Scallops	..	0	160	0	0	0	0	0	0	1,167	1,327
Other shellfish	..	0	6,326	0	50	0	0	0	0	0	6,376
<b>Total shellfish</b>	..	<b>28,000</b>	<b>10,992</b>	<b>1,173</b>	<b>816</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>16,160</b>	<b>57,141</b>
<b>Total aquaculture</b>	<b>63,120</b>	<b>29,600</b>	<b>35,646</b>	<b>198,313</b>	<b>2,390</b>	<b>17,200</b>	<b>81</b>	<b>x</b>	<b>x</b>	<b>428,243</b>	<b>794,000</b>
<b>Re-stocking <sup>4</sup></b>	.	.	.	.	<b>7,273</b>	.	.	.	.	.	<b>7,273</b>
<b>Total aquaculture (including re-stocking) <sup>4</sup></b>	<b>63,120</b>	<b>29,600</b>	<b>35,646</b>	<b>198,313</b>	<b>9,663</b>	<b>17,200</b>	<b>81</b>	<b>x</b>	<b>x</b>	<b>428,243</b>	<b>801,273</b>

1. Provinces with data not available are not included in the Canada totals.

2. Excludes other finfish for all provinces until 2005. Excludes other finfish for all provinces except Quebec beginning in 2006.

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

4. Sales to outfitters: operations offering lodging and services for hunting, fishing and trapping.

**Note(s):** 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 are collected from each of the provincial departments responsible for aquaculture.

**Table 1-9**  
**Aquaculture, production and value, by province and Canada — 2009**

	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia	Canada <sup>1</sup>
tonnes											
<b>Production</b>											
Salmon <sup>2</sup>	..	..	7,550	24,000	0	0	0	0	0	68,670	100,220
Trout <sup>2</sup>	..	..	133	150	330	4,300	7	x	x	450	7,000
Steelhead <sup>2</sup>	..	..	0	0	0	0	0	0	0	0	0
Other finfish <sup>3</sup>	..	..	x	x	x	x	x	x	x	x	1,641
<b>Total finfish</b>	<b>..</b>	<b>..</b>	<b>7,683</b>	<b>24,150</b>	<b>330</b>	<b>4,300</b>	<b>7</b>	<b>x</b>	<b>x</b>	<b>69,120</b>	<b>108,861</b>
Clams	..	0	539	0	0	0	0	0	0	1,200	1,739
Oysters	..	2,281	159	638	0	0	0	0	0	5,400	8,477
Mussels	..	18,085	1,893	95	540	0	0	0	0	300	20,912
Scallops	..	0	3	0	0	0	0	0	0	400	403
Other shellfish	..	0	147	0	5	0	0	0	0	0	152
<b>Total shellfish</b>	<b>..</b>	<b>20,365</b>	<b>2,740</b>	<b>733</b>	<b>545</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7,300</b>	<b>31,683</b>
<b>Total aquaculture</b>	<b>13,625</b>	<b>20,365</b>	<b>10,423</b>	<b>24,883</b>	<b>875</b>	<b>4,300</b>	<b>7</b>	<b>x</b>	<b>x</b>	<b>76,420</b>	<b>154,169</b>
<b>Re-stocking <sup>4</sup></b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>385</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>385</b>
<b>Total aquaculture (including re-stocking) <sup>4</sup></b>	<b>13,625</b>	<b>20,365</b>	<b>10,423</b>	<b>24,883</b>	<b>1,260</b>	<b>4,300</b>	<b>7</b>	<b>x</b>	<b>x</b>	<b>76,420</b>	<b>154,554</b>
thousands of dollars											
<b>Value</b>											
Salmon <sup>2</sup>	..	..	45,774	159,000	0	0	0	0	0	394,200	598,974
Trout <sup>2</sup>	..	..	1,330	670	1,475	17,400	29	x	x	2,500	31,416
Steelhead <sup>2</sup>	..	..	0	0	0	0	0	0	0	0	0
Other finfish <sup>3</sup>	..	..	x	x	x	x	x	x	x	x	9,128
<b>Total finfish</b>	<b>..</b>	<b>1,828</b>	<b>47,104</b>	<b>159,670</b>	<b>1,475</b>	<b>17,400</b>	<b>29</b>	<b>x</b>	<b>x</b>	<b>396,700</b>	<b>641,345</b>
Clams	..	0	2,057	0	0	0	0	0	0	6,800	8,857
Oysters	..	5,075	676	4,000	0	0	0	0	0	6,500	16,251
Mussels	..	23,960	2,629	120	750	0	0	0	0	1,400	28,859
Scallops	..	0	23	0	0	0	0	0	0	1,600	1,623
Other shellfish	..	0	4,847	0	45	0	0	0	0	0	4,892
<b>Total shellfish</b>	<b>..</b>	<b>29,035</b>	<b>10,231</b>	<b>4,120</b>	<b>795</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>16,300</b>	<b>60,481</b>
<b>Total aquaculture</b>	<b>92,100</b>	<b>30,863</b>	<b>57,335</b>	<b>163,790</b>	<b>2,270</b>	<b>17,400</b>	<b>29</b>	<b>x</b>	<b>x</b>	<b>413,000</b>	<b>793,926</b>
<b>Re-stocking <sup>4</sup></b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>6,810</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>6,810</b>
<b>Total aquaculture (including re-stocking) <sup>4</sup></b>	<b>92,100</b>	<b>30,863</b>	<b>57,335</b>	<b>163,790</b>	<b>9,080</b>	<b>17,400</b>	<b>29</b>	<b>x</b>	<b>x</b>	<b>413,000</b>	<b>800,736</b>

1. Provinces with data not available are not included in the Canada totals.

2. Excludes other finfish for all provinces until 2005. Excludes other finfish for all provinces except Quebec beginning in 2006.

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

4. Sales to outfitters: operations offering lodging and services for hunting, fishing and trapping.

**Note(s):** 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 are collected from each of the provincial departments responsible for aquaculture.

**Table 2-1**  
**Exports of selected Canadian aquaculture products, by country of destination — 2000 and 2001**

Destination	2000				2001			
	Mussels	Other <sup>1</sup> Salmon	Atlantic <sup>2</sup> Salmon	Atlantic <sup>3,4</sup> Salmon fillets	Mussels	Other <sup>1</sup> Salmon	Atlantic <sup>2</sup> Salmon	Atlantic <sup>3,4</sup> Salmon fillets
tonnes								
<b>United States</b>	<b>7,759</b>	<b>2,977</b>	<b>41,037</b>	<b>7,851</b>	<b>8,445</b>	<b>3,243</b>	<b>49,282</b>	<b>13,422</b>
California	310	1,164	8,645	..	250	1,321	12,123	1,624
Maine	3,068	0	796	..	3,387	0	821	486
Massachusetts	2,821	4	8,823	..	3,308	87	6,890	784
New York	586	14	3,319	..	652	79	4,540	397
Washington	9	1,283	14,572	..	10	1,311	14,406	6,173
Other	966	513	4,881	..	838	445	10,502	3,958
France	25	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	..	9	0	159	0
<b>Total</b>	<b>7,829</b>	<b>3,172</b>	<b>42,222</b>	<b>7,851</b>	<b>8,517</b>	<b>3,351</b>	<b>51,325</b>	<b>13,504</b>
thousands of dollars								
<b>United States</b>	<b>19,341</b>	<b>23,248</b>	<b>330,395</b>	<b>94,944</b>	<b>22,017</b>	<b>19,570</b>	<b>389,699</b>	<b>153,790</b>
California	899	9,135	81,782	..	803	8,077	109,443	14,506
Maine	6,429	0	6,033	..	7,640	0	6,962	8,895
Massachusetts	7,524	28	68,552	..	9,146	356	48,287	9,897
New York	1,628	128	26,524	..	1,823	504	34,530	5,530
Washington	35	9,808	110,913	..	36	7,568	108,563	69,448
Other	2,827	4,150	36,591	..	2,570	3,066	81,914	45,514
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	..	24	0	1,180	0
<b>Total</b>	<b>19,639</b>	<b>25,153</b>	<b>339,936</b>	<b>94,944</b>	<b>22,305</b>	<b>20,378</b>	<b>405,215</b>	<b>154,363</b>

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 — 2002 and 2003**

Destination	2002				2003			
	Mussels	Other <sup>1</sup> Salmon	Atlantic <sup>2</sup> Salmon	Atlantic <sup>3,4</sup> Salmon fillets	Mussels	Other <sup>1</sup> Salmon	Atlantic <sup>2</sup> Salmon	Atlantic <sup>3,4</sup> Salmon fillets
tonnes								
<b>United States</b>	<b>7,838</b>	<b>4,210</b>	<b>56,902</b>	<b>14,749</b>	<b>8,335</b>	<b>4,063</b>	<b>41,681</b>	<b>12,622</b>
California	139	1,322	13,313	1,850	250	1,307	11,997	1,307
Maine	3,422	0	3,384	1,571	3,703	0	2,366	1,665
Massachusetts	2,857	612	8,825	849	3,005	232	6,604	712
New York	628	171	7,145	555	647	468	3,816	388
Washington	14	1,459	15,977	6,246	28	1,200	11,153	3,808
Other	777	645	8,259	3,677	702	855	5,745	4,742
France	0	0	18	0	0	11	2	0
Japan	17	392	928	92	17	124	1,211	251
Taiwan	0	0	514	1	0	0	988	1
Other	5	22	522	0	26	4	641	33
<b>Total</b>	<b>7,861</b>	<b>4,624</b>	<b>58,884</b>	<b>14,842</b>	<b>8,378</b>	<b>4,202</b>	<b>44,522</b>	<b>12,907</b>
thousands of dollars								
<b>United States</b>	<b>21,990</b>	<b>22,316</b>	<b>422,787</b>	<b>161,473</b>	<b>21,591</b>	<b>23,758</b>	<b>300,465</b>	<b>132,056</b>
California	530	7,714	111,672	15,770	695	7,871	100,731	10,340
Maine	8,132	0	24,712	20,596	8,365	0	12,265	19,492
Massachusetts	8,773	2,467	58,541	9,897	8,489	1,511	39,916	7,965
New York	2,006	1,058	52,215	7,224	1,848	2,698	26,129	4,610
Washington	52	7,222	116,278	65,196	77	6,883	81,608	41,186
Other	2,497	3,855	59,369	42,790	2,117	4,794	39,818	48,463
France	0	0	118	0	0	82	16	0
Japan	73	2,236	7,341	975	68	896	7,859	1,001
Taiwan	0	0	3,200	3	0	0	7,104	4
Other	24	82	2,708	0	122	37	2,227	177
<b>Total</b>	<b>22,087</b>	<b>24,633</b>	<b>436,154</b>	<b>162,452</b>	<b>21,781</b>	<b>24,773</b>	<b>317,672</b>	<b>133,237</b>

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 — 2004 and 2005**

Destination	2004				2005			
	Mussels	Other <sup>1</sup> Salmon	Atlantic <sup>2</sup> Salmon	Atlantic <sup>3,4</sup> Salmon fillets	Mussels	Other <sup>1</sup> Salmon	Atlantic <sup>2</sup> Salmon	Atlantic <sup>3,4</sup> Salmon fillets
tonnes								
<b>United States</b>	<b>8,081</b>	<b>4,287</b>	<b>43,572</b>	<b>9,634</b>	<b>8,532</b>	<b>5,616</b>	<b>57,856</b>	<b>9,731</b>
California	133	1,021	9,745	821	247	1,014	15,025	1,139
Maine	3,726	0	2,449	2,042	2,746	0	5,203	2,324
Massachusetts	2,661	241	7,111	739	3,536	544	9,873	1,413
New York	689	406	4,611	285	673	347	5,684	209
Washington	39	1,003	12,830	1,966	85	1,086	14,124	1,412
Other	833	1,616	6,826	3,780	1,245	2,624	7,945	3,235
France	0	10	0	18	0	10	51	1
Japan	0	232	1,209	245	0	2,185	2,580	215
Taiwan	0	2	1,619	0	0	7	2,648	48
Other	23	81	617	0	6	33	1,067	55
<b>Total</b>	<b>8,104</b>	<b>4,612</b>	<b>47,017</b>	<b>9,896</b>	<b>8,538</b>	<b>7,851</b>	<b>64,201</b>	<b>10,050</b>
thousands of dollars								
<b>United States</b>	<b>20,667</b>	<b>24,556</b>	<b>265,587</b>	<b>96,728</b>	<b>23,426</b>	<b>29,465</b>	<b>331,564</b>	<b>88,542</b>
California	354	6,558	62,392	6,556	760	6,550	84,178	9,809
Maine	8,530	0	13,767	22,301	7,297	0	29,757	20,710
Massachusetts	7,124	1,828	39,537	7,837	9,788	4,035	53,442	14,149
New York	1,964	2,470	30,287	3,771	1,914	2,189	36,233	2,003
Washington	97	5,593	77,066	17,403	234	5,953	81,234	11,900
Other	2,598	8,108	42,539	38,860	3,432	10,737	46,722	29,970
France	0	96	0	116	0	54	354	8
Japan	0	1,349	7,743	1,392	0	10,886	13,225	1,077
Taiwan	0	10	8,819	2	0	43	13,240	220
Other	81	348	2,697	0	21	191	5,251	287
<b>Total</b>	<b>20,748</b>	<b>26,359</b>	<b>284,846</b>	<b>98,238</b>	<b>23,446</b>	<b>40,639</b>	<b>363,635</b>	<b>90,134</b>

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 — 2006 and 2007**

Destination	2006				2007			
	Mussels	Other <sup>1</sup> Salmon	Atlantic <sup>2</sup> Salmon	Atlantic <sup>3,4</sup> Salmon fillets	Mussels	Other <sup>1</sup> Salmon	Atlantic <sup>2</sup> Salmon	Atlantic <sup>3,4</sup> Salmon fillets
tonnes								
<b>United States</b>	<b>8,763</b>	<b>3,684</b>	<b>69,982</b>	<b>5,880</b>	<b>9,868</b>	<b>2,714</b>	<b>67,628</b>	<b>3,906</b>
California	158	1,921	24,290	1,045	177	1,103	23,908	408
Maine	2,718	0	1,726	631	2,679	0	813	104
Massachusetts	3,664	380	11,662	1,226	4,719	223	8,965	596
New York	715	306	9,934	542	913	175	8,919	342
Washington	15	691	11,873	300	129	1,076	16,793	549
Other	1,493	387	10,497	2,136	1,252	138	8,229	1,908
France	0	15	36	11	0	16	11	3
Japan	0	218	2,637	204	0	469	1,162	155
Taiwan	0	1	1,984	34	0	3	680	37
Other	123	29	842	109	209	6	265	74
<b>Total</b>	<b>8,886</b>	<b>3,947</b>	<b>75,481</b>	<b>6,238</b>	<b>10,077</b>	<b>3,208</b>	<b>69,746</b>	<b>4,175</b>
thousands of dollars								
<b>United States</b>	<b>22,574</b>	<b>25,355</b>	<b>429,489</b>	<b>54,392</b>	<b>25,418</b>	<b>19,792</b>	<b>411,360</b>	<b>42,526</b>
California	502	11,585	145,790	9,141	574	7,794	146,732	3,544
Maine	6,619	0	10,782	5,411	6,541	0	4,791	1,222
Massachusetts	9,624	3,411	72,530	11,397	12,484	2,159	53,526	6,883
New York	1,864	2,671	68,839	5,311	2,302	1,577	58,156	3,736
Washington	69	5,035	65,171	2,347	325	7,231	97,738	4,860
Other	3,896	2,653	66,378	20,785	3,192	1,030	50,418	22,282
France	0	60	264	91	0	121	72	33
Japan	0	3,240	16,400	1,171	0	7,188	6,712	695
Taiwan	0	10	9,774	154	0	17	3,117	163
Other	538	120	3,958	536	832	28	1,394	328
<b>Total</b>	<b>23,112</b>	<b>28,784</b>	<b>459,885</b>	<b>56,345</b>	<b>26,250</b>	<b>27,147</b>	<b>422,656</b>	<b>43,745</b>

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 — 2008 and 2009**

Destination	2008				2009			
	Mussels	Other <sup>1</sup> Salmon	Atlantic <sup>2</sup> Salmon	Atlantic <sup>3,4</sup> Salmon fillets	Mussels	Other <sup>1</sup> Salmon	Atlantic <sup>2</sup> Salmon	Atlantic <sup>3,4</sup> Salmon fillets
tonnes								
<b>United States</b>	<b>9,620</b>	<b>1,532</b>	<b>70,481</b>	<b>5,399</b>	<b>10,571</b>	<b>1,513</b>	<b>66,615</b>	<b>4,563</b>
California	47	359	20,296	242	23	646	25,781	191
Maine	2,286	0	808	154	2,331	0	2,944	225
Massachusetts	5,432	146	9,219	1,423	6,332	105	8,244	885
New York	916	125	10,743	446	1,046	224	9,103	683
Washington	35	763	18,508	651	85	425	10,927	272
Other	904	139	10,906	2,483	754	112	9,615	2,308
France	0	22	46	3	0	20	8	0
Japan	0	356	2,229	172	0	290	578	294
Taiwan	0	0	871	110	0	0	253	67
Other	117	0	586	20	38	2	237	1
<b>Total</b>	<b>9,738</b>	<b>1,911</b>	<b>74,213</b>	<b>5,704</b>	<b>10,608</b>	<b>1,826</b>	<b>67,691</b>	<b>4,925</b>
thousands of dollars								
<b>United States</b>	<b>26,762</b>	<b>14,806</b>	<b>414,921</b>	<b>65,307</b>	<b>29,883</b>	<b>12,495</b>	<b>430,723</b>	<b>60,541</b>
California	181	3,737	120,419	2,462	60	5,206	168,235	1,953
Maine	5,378	0	4,461	1,964	5,727	0	17,892	3,206
Massachusetts	16,117	1,854	50,770	17,537	18,957	1,259	52,951	11,663
New York	2,624	1,370	62,136	5,523	2,866	1,782	58,651	9,187
Washington	112	6,689	112,272	6,429	282	3,336	69,028	2,810
Other	2,350	1,157	64,864	31,392	1,991	912	63,967	31,723
France	0	161	223	27	0	150	71	5
Japan	2	4,861	16,264	854	0	4,465	4,159	1,928
Taiwan	0	4	4,929	608	0	2	1,722	423
Other	527	0	3,615	116	217	23	1,383	6
<b>Total</b>	<b>27,291</b>	<b>19,832</b>	<b>439,953</b>	<b>66,912</b>	<b>30,101</b>	<b>17,135</b>	<b>438,059</b>	<b>62,904</b>

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 industry, by province and Canada — 2001**

	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	British Columbia	Canada <sup>1</sup>
thousands of dollars								
<b>Sources of output</b>								
<b>Sales of aqua products and services</b>	<b>14,200</b>	<b>29,400</b>	<b>26,900</b>	<b>277,100</b>	<b>12,230</b>	<b>17,800</b>	<b>312,400</b>	<b>690,030</b>
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
<b>Total operating revenue</b>	<b>15,000</b>	<b>29,500</b>	<b>27,400</b>	<b>282,500</b>	<b>12,500</b>	<b>23,000</b>	<b>326,900</b>	<b>716,800</b>
Change in inventory value, goods	0	100	-1,000	15,000	0	300	20,000	34,400
<b>Gross output</b>	<b>15,000</b>	<b>29,600</b>	<b>26,400</b>	<b>297,500</b>	<b>12,500</b>	<b>23,300</b>	<b>346,900</b>	<b>751,200</b>
<b>Product inputs</b>								
<b>Product expenses</b>	<b>9,450</b>	<b>8,250</b>	<b>16,050</b>	<b>210,700</b>	<b>6,950</b>	<b>14,300</b>	<b>232,400</b>	<b>498,100</b>
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
<b>Total of product inputs</b>	<b>9,450</b>	<b>8,250</b>	<b>16,150</b>	<b>210,700</b>	<b>6,850</b>	<b>14,200</b>	<b>230,400</b>	<b>496,000</b>
<b>Gross value added (factor cost)</b>	<b>5,550</b>	<b>21,350</b>	<b>10,250</b>	<b>86,800</b>	<b>5,650</b>	<b>9,100</b>	<b>116,500</b>	<b>255,200</b>
<b>Selected primary inputs</b>								
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. Canada total excludes Manitoba, Saskatchewan and Alberta.

**Note(s):** Data and account structure are subject to revision.

Table 3-2

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

	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	British Columbia	Canada <sup>1</sup>
thousands of dollars								
<b>Sources of output</b>								
<b>Sales of aqua products and services</b>	<b>15,700</b>	<b>27,700</b>	<b>24,300</b>	<b>282,300</b>	<b>14,800</b>	<b>19,700</b>	<b>349,600</b>	<b>734,100</b>
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
<b>Total operating revenue</b>	<b>16,350</b>	<b>27,800</b>	<b>24,500</b>	<b>286,600</b>	<b>15,250</b>	<b>25,900</b>	<b>357,950</b>	<b>754,350</b>
Change in inventory value, goods	0	200	0	27,000	100	100	-25,000	2,400
<b>Gross output</b>	<b>16,350</b>	<b>28,000</b>	<b>24,500</b>	<b>313,600</b>	<b>15,350</b>	<b>26,000</b>	<b>332,950</b>	<b>756,750</b>
<b>Product inputs</b>								
<b>Product expenses</b>	<b>9,645</b>	<b>8,370</b>	<b>14,050</b>	<b>220,900</b>	<b>7,560</b>	<b>14,120</b>	<b>262,800</b>	<b>537,445</b>
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
<b>Total of product inputs</b>	<b>9,645</b>	<b>8,370</b>	<b>13,950</b>	<b>221,000</b>	<b>7,560</b>	<b>14,020</b>	<b>262,200</b>	<b>536,745</b>
<b>Gross value added (factor cost)</b>	<b>6,705</b>	<b>19,630</b>	<b>10,550</b>	<b>92,600</b>	<b>7,790</b>	<b>11,980</b>	<b>70,750</b>	<b>220,005</b>
<b>Selected primary inputs</b>								
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. Canada total excludes Manitoba, Saskatchewan and Alberta.

**Note(s):** Data and account structure are subject to revision.

**Table 3-3**  
**Value added account - Aquaculture industry, by province and Canada — 2003**

	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	British Columbia	Canada <sup>1</sup>
thousands of dollars								
<b>Sources of output</b>								
<b>Sales of aqua products and services</b>	<b>15,400</b>	<b>32,150</b>	<b>28,600</b>	<b>268,800</b>	<b>13,520</b>	<b>19,235</b>	<b>343,190</b>	<b>720,895</b>
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
<b>Total operating revenue</b>	<b>15,850</b>	<b>32,330</b>	<b>28,735</b>	<b>272,850</b>	<b>14,520</b>	<b>25,065</b>	<b>347,800</b>	<b>737,150</b>
Change in inventory value, goods	1,000	-300	-300	10,000	600	100	-19,800	-8,700
<b>Gross output</b>	<b>16,850</b>	<b>32,030</b>	<b>28,435</b>	<b>282,850</b>	<b>15,120</b>	<b>25,165</b>	<b>328,000</b>	<b>728,450</b>
<b>Product inputs</b>								
<b>Product expenses</b>	<b>10,860</b>	<b>7,731</b>	<b>14,270</b>	<b>200,350</b>	<b>7,100</b>	<b>13,430</b>	<b>269,300</b>	<b>523,041</b>
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
<b>Total of product inputs</b>	<b>10,760</b>	<b>7,731</b>	<b>14,270</b>	<b>199,350</b>	<b>6,900</b>	<b>13,430</b>	<b>266,300</b>	<b>518,741</b>
<b>Gross value added (factor cost)</b>	<b>6,090</b>	<b>24,299</b>	<b>14,165</b>	<b>83,500</b>	<b>8,220</b>	<b>11,735</b>	<b>61,700</b>	<b>209,709</b>
<b>Selected primary inputs</b>								
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. Canada total excludes Manitoba, Saskatchewan and Alberta.

**Note(s):** Data and account structure are subject to revision.

Table 3-4

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

	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	British Columbia	Canada <sup>1</sup>
thousands of dollars								
<b>Sources of output</b>								
<b>Sales of aqua products and services</b>	<b>22,000</b>	<b>33,050</b>	<b>21,900</b>	<b>247,200</b>	<b>13,300</b>	<b>17,100</b>	<b>307,780</b>	<b>662,330</b>
Whole fish dressed, fresh or chilled	..	..	2,500	177,000	1,400	..	196,000	376,900
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	16,000	3,000	11,000	242,000	12,000	17,000	289,230	590,230
Total molluscs	5,000	30,000	10,000	3,200	1,000	0	18,000	67,200
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	x	600	x	x	425	x	x	14,915
<b>Total operating revenue</b>	<b>22,300</b>	<b>33,650</b>	<b>21,950</b>	<b>252,000</b>	<b>13,825</b>	<b>22,750</b>	<b>311,630</b>	<b>678,105</b>
Change in inventory value, goods	1,000	100	500	46,000	-40	-200	9,800	57,160
<b>Gross output</b>	<b>23,300</b>	<b>33,750</b>	<b>22,450</b>	<b>298,000</b>	<b>13,785</b>	<b>22,550</b>	<b>321,430</b>	<b>735,265</b>
<b>Product inputs</b>								
<b>Product expenses</b>	<b>14,520</b>	<b>8,385</b>	<b>14,795</b>	<b>209,200</b>	<b>6,345</b>	<b>10,625</b>	<b>270,000</b>	<b>533,870</b>
Feed	8,300	210	7,000	80,000	2,100	6,000	137,000	240,610
Therapeutants	x	x	700	3,200	x	x	7,000	11,410
Purchases, eggs and fish for grow-out	800	2,700	2,200	27,000	300	1,000	15,000	49,000
Purchases, fish for processing and resale	200	x	x	x	300	550	x	56,440
Insurance premiums	x	x	475	6,000	240	150	6,300	13,945
Energy (electricity, fuel, et cetera)	535	540	810	3,700	1,100	725	6,500	13,910
Goods transportation and storage	900	300	500	5,000	100	300	19,000	26,100
Processing services	500	800	x	11,500	x	x	42,000	55,250
Rental and leasing expenses	350	400	280	1,800	100	250	2,800	5,980
Maintenance and repairs, buildings	300	610	310	x	200	100	x	4,220
Maintenance and repairs, machinery	200	650	350	5,800	330	200	8,400	15,930
Professional services	510	220	315	3,900	285	245	5,000	10,475
Other operating expenses, not elsewhere specified	1,125	1,625	1,155	7,500	1,140	955	17,100	30,600
Change in inventory value, raw materials	0	0	-100	-5,000	50	0	7,000	1,950
<b>Total of product inputs</b>	<b>14,520</b>	<b>8,385</b>	<b>14,895</b>	<b>214,200</b>	<b>6,295</b>	<b>10,625</b>	<b>263,000</b>	<b>531,920</b>
<b>Gross value added (factor cost)</b>	<b>8,780</b>	<b>25,365</b>	<b>7,555</b>	<b>83,800</b>	<b>7,490</b>	<b>11,925</b>	<b>58,430</b>	<b>203,345</b>
<b>Selected primary inputs</b>								
Salaries and wages	3,200	11,500	6,200	34,500	3,000	3,800	43,000	105,200
Employer portion of employee benefits	350	1,000	620	3,600	310	350	5,500	11,730
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. Canada total excludes Manitoba, Saskatchewan and Alberta.

**Note(s):** Data and account structure are subject to revision.

**Table 3-5**  
**Value added account - Aquaculture industry, by province and Canada — 2005**

	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	British Columbia	Canada <sup>1</sup>
thousands of dollars								
<b>Sources of output</b>								
<b>Sales of aqua products and services</b>	<b>31,835</b>	<b>29,100</b>	<b>32,600</b>	<b>287,500</b>	<b>14,740</b>	<b>16,115</b>	<b>351,250</b>	<b>763,140</b>
Whole fish dressed, fresh or chilled	..	..	x	192,000	x	..	245,000	444,200
Fish eggs and live fish for grow-out	..	..	4,000	16,000	4,500	..	9,000	33,500
Whole fish live except for grow-out	..	..	x	x	6,000	..	x	25,000
Whole fish, dressed and frozen	..	..	3,500	0	0	..	12,000	15,500
Fish fillets, fresh or frozen	..	..	5,000	x	x	..	65,000	125,700
Fish, dried, smoked or in brine	..	..	x	0	x	..	x	350
Total finfish	25,000	x	20,700	280,000	12,500	x	331,050	687,250
Total molluscs	x	27,000	x	x	x	0	18,700	68,800
Other goods and services, not elsewhere specified	x	x	x	x	x	x	1,500	7,090
Subsidies	x	60	x	x	110	100	x	695
Other operating revenue	x	545	x	x	355	4,665	x	13,020
<b>Total operating revenue</b>	<b>32,200</b>	<b>29,705</b>	<b>32,740</b>	<b>292,800</b>	<b>15,205</b>	<b>20,880</b>	<b>353,325</b>	<b>776,855</b>
Change in inventory value, goods	-2,820	-300	1,020	14,000	540	-300	19,850	31,990
<b>Gross output</b>	<b>29,380</b>	<b>29,405</b>	<b>33,760</b>	<b>306,800</b>	<b>15,745</b>	<b>20,580</b>	<b>373,175</b>	<b>808,845</b>
<b>Product inputs</b>								
<b>Product expenses</b>	<b>16,470</b>	<b>7,160</b>	<b>15,870</b>	<b>230,200</b>	<b>6,245</b>	<b>8,820</b>	<b>274,480</b>	<b>559,245</b>
Feed	8,000	x	8,000	89,400	x	5,000	140,000	252,580
Therapeutants	x	x	600	3,100	x	x	8,000	11,940
Purchases, eggs and fish for grow-out	1,800	2,300	2,500	32,000	330	1,100	10,000	50,030
Purchases, fish for processing and resale	1,000	x	x	x	250	400	x	59,400
Insurance premiums	x	x	400	6,300	220	100	6,500	14,070
Energy (electricity, fuel, et cetera)	550	510	840	4,200	1,200	700	8,000	16,000
Goods transportation and storage	1,100	400	700	5,000	120	220	25,000	32,540
Processing services	1,000	600	x	12,700	30	x	35,500	50,210
Rental and leasing expenses	370	470	150	1,600	100	265	2,700	5,655
Maintenance and repairs, buildings	310	400	225	x	190	x	x	3,735
Maintenance and repairs, machinery	175	590	250	6,400	300	190	10,500	18,405
Professional services	440	230	285	3,000	330	150	5,380	9,815
Other operating expenses, not elsewhere specified	1,325	1,170	1,340	10,800	1,095	435	18,700	34,865
Change in inventory value, raw materials	-2,100	200	0	300	-100	0	2,000	300
<b>Total of product inputs</b>	<b>18,570</b>	<b>6,960</b>	<b>15,870</b>	<b>229,900</b>	<b>6,345</b>	<b>8,820</b>	<b>272,480</b>	<b>558,945</b>
<b>Gross value added (factor cost)</b>	<b>10,810</b>	<b>22,445</b>	<b>17,890</b>	<b>76,900</b>	<b>9,400</b>	<b>11,760</b>	<b>100,695</b>	<b>249,900</b>
<b>Selected primary inputs</b>								
Salaries and wages	3,300	11,000	5,800	33,500	2,900	3,400	41,000	100,900
Employer portion of employee benefits	250	950	600	3,800	300	370	7,000	13,270
Depreciation	550	2,350	800	12,000	1,200	800	30,000	47,700
Interest paid	500	650	900	7,400	290	580	10,000	20,320

1. Canada total excludes Manitoba, Saskatchewan and Alberta.

**Note(s):** Data and account structure are subject to revision.

Table 3-6

## Value added account - Aquaculture industry, by province and Canada — 2006

	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	British Columbia	Canada <sup>1</sup>
thousands of dollars								
<b>Sources of output</b>								
<b>Sales of aqua products and services</b>	<b>43,300</b>	<b>31,155</b>	<b>x</b>	<b>x</b>	<b>13,300</b>	<b>16,530</b>	<b>455,980</b>	<b>949,665</b>
Whole fish dressed, fresh or chilled	..	..	x	x	x	..	389,000	551,500
Fish eggs and live fish for grow-out	..	..	x	x	4,400	..	3,700	38,100
Whole fish live except for grow-out	..	..	x	x	x	..	x	x
Whole fish, dressed and frozen	..	..	x	x	0	..	x	x
Fish fillets, fresh or frozen	..	..	x	x	x	..	x	x
Fish, dried, smoked or in brine	..	..	x	x	x	..	x	230
Total finfish	35,000	x	x	x	12,000	x	435,730	872,230
Total molluscs	x	30,000	x	x	x	0	18,550	71,650
Other goods and services, not elsewhere specified	x	x	x	x	x	x	1,700	5,785
Subsidies	x	x	x	x	300	x	x	2,110
Other operating revenue	x	x	x	x	265	x	x	16,888
<b>Total operating revenue</b>	<b>44,653</b>	<b>31,640</b>	<b>x</b>	<b>x</b>	<b>13,865</b>	<b>17,785</b>	<b>460,340</b>	<b>968,663</b>
Change in inventory value, goods	333	510	x	x	10	-490	1,160	10,023
<b>Gross output</b>	<b>44,986</b>	<b>32,150</b>	<b>x</b>	<b>x</b>	<b>13,875</b>	<b>17,295</b>	<b>461,500</b>	<b>978,686</b>
<b>Product inputs</b>								
<b>Product expenses</b>	<b>22,042</b>	<b>7,335</b>	<b>x</b>	<b>x</b>	<b>5,400</b>	<b>9,905</b>	<b>299,450</b>	<b>590,432</b>
Feed	11,200	x	x	x	1,850	5,700	155,000	301,980
Therapeutants	x	x	x	x	x	x	6,900	9,950
Purchases, eggs and fish for grow-out	2,500	2,350	x	x	350	1,400	6,000	33,600
Purchases, fish for processing and resale	900	0	x	x	150	450	x	36,150
Insurance premiums	x	x	x	x	x	x	8,100	19,670
Energy (electricity, fuel, et cetera)	860	x	x	x	x	x	9,100	19,385
Goods transportation and storage	1,500	420	x	x	125	220	30,000	40,765
Processing services	x	610	x	x	20	x	31,000	43,735
Rental and leasing expenses	380	x	x	x	40	290	2,800	9,160
Maintenance and repairs, buildings	280	410	x	x	210	x	x	8,595
Maintenance and repairs, machinery	510	600	x	x	350	180	x	x
Professional services	365	310	x	x	270	130	4,150	7,430
Other operating expenses, not elsewhere specified	1,832	1,275	x	x	525	425	x	x
Change in inventory value, raw materials	68	4,250	x	x	200	15	0	4,533
<b>Total of product inputs</b>	<b>21,974</b>	<b>3,085</b>	<b>x</b>	<b>x</b>	<b>5,200</b>	<b>9,890</b>	<b>299,450</b>	<b>585,899</b>
<b>Gross value added (factor cost)</b>	<b>23,012</b>	<b>29,065</b>	<b>x</b>	<b>x</b>	<b>8,675</b>	<b>7,405</b>	<b>162,050</b>	<b>392,787</b>
<b>Selected primary inputs</b>								
Salaries and wages	4,500	11,500	x	x	2,750	3,500	48,000	108,150
Employer portion of employee benefits	510	1,030	x	x	400	500	8,400	15,440
Depreciation	1,000	1,950	x	x	1,100	780	x	59,130
Interest paid	600	750	x	x	240	600	12,500	24,190

1. Canada total excludes Manitoba, Saskatchewan and Alberta.

**Note(s):** Data and account structure are subject to revision.

**Table 3-7**  
**Value added account - Aquaculture industry, by province and Canada — 2007**

	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	British Columbia	Canada <sup>1</sup>
thousands of dollars								
<b>Sources of output</b>								
<b>Sales of aqua products and services</b>	<b>33,840</b>	<b>28,466</b>	<b>41,200</b>	<b>134,520</b>	<b>13,600</b>	<b>17,050</b>	<b>528,950</b>	<b>797,626</b>
Whole fish dressed, fresh or chilled	..	..	15,000	114,000	1,400	..	440,000	570,400
Fish eggs and live fish for grow-out	..	..	10,000	x	x	..	x	23,700
Whole fish live except for grow-out	..	..	100	3,000	8,000	..	0	11,100
Whole fish, dressed and frozen	..	..	500	x	0	..	x	7,320
Fish fillets, fresh or frozen	..	..	x	x	x	..	x	67,420
Fish, dried, smoked or in brine	..	..	x	0	x	..	x	1,530
Total finfish	28,400	x	31,000	130,020	12,350	x	508,100	727,870
Total molluscs	x	27,300	x	3,400	1,000	0	19,300	65,640
Other goods and services, not elsewhere specified	x	x	x	1,100	250	x	1,550	4,116
Subsidies	x	x	x	x	400	x	x	2,510
Other operating revenue	x	x	x	x	300	x	x	9,925
<b>Total operating revenue</b>	<b>34,000</b>	<b>28,791</b>	<b>41,740</b>	<b>142,320</b>	<b>14,300</b>	<b>17,690</b>	<b>531,220</b>	<b>810,061</b>
Change in inventory value, goods	10,437	4,320	6,200	5,000	-570	-715	10,700	35,372
<b>Gross output</b>	<b>44,437</b>	<b>33,111</b>	<b>47,940</b>	<b>147,320</b>	<b>13,730</b>	<b>16,975</b>	<b>541,920</b>	<b>845,433</b>
<b>Product inputs</b>								
<b>Product expenses</b>	<b>31,495</b>	<b>8,105</b>	<b>16,450</b>	<b>130,200</b>	<b>5,815</b>	<b>8,680</b>	<b>382,160</b>	<b>582,905</b>
Feed	12,900	x	8,500	60,000	x	5,500	158,000	246,760
Therapeutants	120	x	x	4,000	55	65	7,700	12,355
Purchases, eggs and fish for grow-out	10,000	2,800	3,000	20,000	360	1,000	13,400	50,560
Purchases, fish for processing and resale	x	60	x	11,000	x	x	x	86,560
Insurance premiums	1,000	320	400	5,000	270	120	7,800	14,910
Energy (electricity, fuel, et cetera)	1,000	700	950	6,000	1,300	800	9,600	20,350
Goods transportation and storage	2,200	490	400	3,000	180	100	37,000	43,370
Processing services	x	x	x	3,000	40	x	x	30,390
Rental and leasing expenses	430	450	70	1,600	60	200	3,500	6,310
Maintenance and repairs, buildings	120	300	280	2,000	210	50	1,200	4,160
Maintenance and repairs, machinery	1,500	800	650	8,500	500	100	22,000	34,050
Professional services	385	310	400	1,200	275	310	5,800	8,680
Other operating expenses, not elsewhere specified	1,340	1,600	550	4,900	615	285	15,160	24,450
Change in inventory value, raw materials	726	-5	2,400	0	-500	-15	-200	2,406
<b>Total of product inputs</b>	<b>30,769</b>	<b>8,110</b>	<b>14,050</b>	<b>130,200</b>	<b>6,315</b>	<b>8,695</b>	<b>382,360</b>	<b>580,499</b>
<b>Gross value added (factor cost)</b>	<b>13,668</b>	<b>25,001</b>	<b>33,890</b>	<b>17,120</b>	<b>7,415</b>	<b>8,280</b>	<b>159,560</b>	<b>264,934</b>
<b>Selected primary inputs</b>								
Salaries and wages	5,000	10,200	6,000	22,000	2,100	3,000	53,000	101,300
Employer portion of employee benefits	550	800	600	2,500	300	300	10,000	15,050
Depreciation	1,700	2,400	1,500	7,500	1,200	720	31,500	46,520
Interest paid	1,300	900	1,000	4,000	1,000	1,000	13,600	22,800

1. Canada total excludes Manitoba, Saskatchewan and Alberta.

**Note(s):** Data and account structure are subject to revision.

Table 3-8

## Value added account - Aquaculture industry, by province and Canada — 2008

	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	British Columbia	Canada <sup>1</sup>
thousands of dollars								
<b>Sources of output</b>								
<b>Sales of aqua products and services</b>	<b>46,415</b>	<b>27,997</b>	<b>43,405</b>	<b>108,905</b>	<b>13,235</b>	<b>17,520</b>	<b>479,920</b>	<b>737,397</b>
Whole fish dressed, fresh or chilled	..	..	x	94,200	x	3,550	441,700	571,450
Fish eggs and live fish for grow-out	..	..	4,200	10,500	x	2,740	x	21,740
Whole fish live except for grow-out	..	..	x	x	7,750	10,800	0	20,395
Whole fish, dressed and frozen	..	..	10	0	0	0	x	x
Fish fillets, fresh or frozen	..	..	75	x	x	x	x	2,985
Fish, dried, smoked or in brine	..	..	20	0	x	x	x	x
Total finfish	x	x	35,250	106,850	12,100	17,500	449,120	664,320
Total molluscs	3,700	26,700	8,000	2,000	900	0	15,900	57,200
Other goods and services, not elsewhere specified	x	x	155	55	235	20	14,900	15,877
Subsidies	x	0	x	65	370	140	x	x
Other operating revenue	x	140	x	2,325	495	270	x	x
<b>Total operating revenue</b>	<b>54,565</b>	<b>28,137</b>	<b>44,495</b>	<b>111,295</b>	<b>14,100</b>	<b>17,930</b>	<b>481,575</b>	<b>752,097</b>
Change in inventory value, goods	12,000	-1,270	2,600	20,000	-1,380	-1,170	-19,200	11,580
<b>Gross output</b>	<b>66,565</b>	<b>26,867</b>	<b>47,095</b>	<b>131,295</b>	<b>12,720</b>	<b>16,760</b>	<b>462,375</b>	<b>763,677</b>
<b>Product inputs</b>								
<b>Product expenses</b>	<b>41,890</b>	<b>8,355</b>	<b>30,330</b>	<b>97,885</b>	<b>6,315</b>	<b>7,690</b>	<b>336,350</b>	<b>528,815</b>
Feed	x	x	x	44,700	2,160	5,000	158,000	246,435
Therapeutants	x	x	1,100	3,700	60	70	5,000	10,535
Purchases, eggs and fish for grow-out	x	2,500	x	16,500	340	840	x	70,580
Purchases, fish for processing and resale	1,500	x	x	1,000	90	x	7,600	10,400
Insurance premiums	x	300	1,000	3,100	310	x	6,600	12,900
Energy (electricity, fuel, et cetera)	1,400	1,100	1,500	5,000	1,210	810	9,700	20,720
Goods transportation and storage	900	200	250	1,900	210	90	37,700	41,250
Processing services	x	x	400	2,700	30	35	28,200	31,815
Rental and leasing expenses	x	350	x	800	65	200	3,840	5,915
Maintenance and repairs, buildings	50	315	180	x	190	30	x	2,015
Maintenance and repairs, machinery	x	1,600	x	8,900	560	80	19,100	36,515
Professional services	275	205	1,505	x	195	x	5,260	12,735
Other operating expenses, not elsewhere specified	1,765	1,545	1,510	4,145	895	240	16,900	27,000
Change in inventory value, raw materials	2,000	0	-5,000	-8	500	140	-2,200	-4,568
<b>Total of product inputs</b>	<b>39,890</b>	<b>8,355</b>	<b>35,330</b>	<b>97,893</b>	<b>5,815</b>	<b>7,550</b>	<b>338,550</b>	<b>533,383</b>
<b>Gross value added (factor cost)</b>	<b>26,675</b>	<b>18,512</b>	<b>11,765</b>	<b>33,402</b>	<b>6,905</b>	<b>9,210</b>	<b>123,825</b>	<b>230,294</b>
<b>Selected primary inputs</b>								
Salaries and wages	8,200	8,700	5,200	20,000	2,200	2,800	58,900	106,000
Employer portion of employee benefits	900	775	625	2,000	320	280	10,100	15,000
Depreciation	2,900	2,000	2,500	6,700	1,600	600	30,200	46,500
Interest paid	x	860	x	2,400	345	250	7,000	13,865

1. Canada total excludes Manitoba, Saskatchewan and Alberta.

**Note(s):** Data and account structure are subject to revision.

Table 3-9

## Value added account - Aquaculture industry, by province and Canada — 2009

	Newfoundland and Labrador	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	British Columbia	Canada <sup>1</sup>
thousands of dollars								
<b>Sources of output</b>								
<b>Sales of aqua products and services</b>	<b>69,800</b>	<b>31,340</b>	<b>49,810</b>	<b>184,720</b>	<b>13,290</b>	<b>18,150</b>	<b>523,100</b>	<b>890,210</b>
Whole fish dressed, fresh or chilled	65,400	..	x	147,500	1,810	x	425,500	678,210
Fish eggs and live fish for grow-out	x	..	7,900	x	3,200	3,370	16,500	50,870
Whole fish live except for grow-out	..	..	700	530	6,200	10,850	0	18,280
Whole fish, dressed and frozen	..	..	0	0	x	0	x	x
Fish fillets, fresh or frozen	x	..	x	x	x	x	x	x
Fish, dried, smoked or in brine	..	..	10	0	x	0	x	225
Total finfish	66,200	x	43,405	178,730	12,140	x	492,300	812,175
Total molluscs	x	29,100	6,330	x	900	0	16,500	60,680
Other goods and services, not elsewhere specified	x	x	75	x	250	x	14,300	17,355
Subsidies	x	50	x	x	170	x	x	x
Other operating revenue	x	100	x	x	570	x	x	x
<b>Total operating revenue</b>	<b>72,275</b>	<b>31,490</b>	<b>52,545</b>	<b>191,995</b>	<b>14,030</b>	<b>19,570</b>	<b>526,335</b>	<b>908,240</b>
Change in inventory value, goods	9,000	1,100	2,010	15,100	500	1,800	-32,015	-2,505
<b>Gross output</b>	<b>81,275</b>	<b>32,590</b>	<b>54,555</b>	<b>207,095</b>	<b>14,530</b>	<b>21,370</b>	<b>494,320</b>	<b>905,735</b>
<b>Product inputs</b>								
<b>Product expenses</b>	<b>66,720</b>	<b>8,200</b>	<b>29,325</b>	<b>149,700</b>	<b>6,165</b>	<b>8,620</b>	<b>320,800</b>	<b>589,530</b>
Feed	38,500	x	14,300	74,600	x	4,800	159,600	294,140
Therapeutants	x	0	1,200	6,100	x	150	9,600	17,640
Purchases, eggs and fish for grow-out	11,650	3,400	6,700	36,800	290	1,500	5,500	65,840
Purchases, fish for processing and resale	0	x	110	250	x	60	500	1,000
Insurance premiums	x	200	810	x	220	100	6,800	14,010
Energy (electricity, fuel, et cetera)	1,550	1,000	1,100	4,600	1,250	820	9,800	20,120
Goods transportation and storage	1,700	600	440	2,900	220	300	35,000	41,160
Processing services	x	120	440	x	75	5	31,700	35,100
Rental and leasing expenses	x	x	580	1,000	x	200	4,600	7,930
Maintenance and repairs, buildings	450	320	170	300	230	100	1,800	3,370
Maintenance and repairs, machinery	x	1,000	1,920	x	365	100	25,600	43,685
Professional services	570	245	130	2,160	145	145	7,400	10,795
Other operating expenses, not elsewhere specified	2,330	1,065	1,425	5,810	870	340	22,900	34,740
Change in inventory value, raw materials	-1,000	250	0	200	-500	200	10,000	9,150
<b>Total of product inputs</b>	<b>67,720</b>	<b>7,950</b>	<b>29,325</b>	<b>149,500</b>	<b>6,665</b>	<b>8,420</b>	<b>310,800</b>	<b>580,380</b>
<b>Gross value added (factor cost)</b>	<b>13,555</b>	<b>24,640</b>	<b>25,230</b>	<b>57,595</b>	<b>7,865</b>	<b>12,950</b>	<b>183,520</b>	<b>325,355</b>
<b>Selected primary inputs</b>								
Salaries and wages	8,400	7,800	5,500	21,000	2,300	2,850	66,500	114,350
Employer portion of employee benefits	1,100	675	700	2,200	330	285	11,500	16,790
Depreciation	x	1,500	x	11,700	1,300	700	33,000	54,500
Interest paid	x	500	x	6,900	380	200	6,200	18,930

1. Canada total excludes Manitoba, Saskatchewan and Alberta.

Note(s): Data and account structure are subject to revision.

# Concepts and methods

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## 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 the Canada Customs and Revenue Agency. 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 four 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

Other salmon - includes coho and spring (chinook) salmon, codes 3021221, 3021231

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 the Canada Customs and Revenue Agency and requiring a T4 Supplementary Form. This item includes the employer portion of employee benefits for items such as health care insurance plans, Canada/Quebec 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 \$105,000.
- 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 2009, the frame included 621 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 2009 was 170 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 2009 estimates are judged to be very good, and at the provincial level, the estimates range from excellent to acceptable.

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.

Of the sampled units contributing to the estimate the weighted response rate was 50.7%.

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.