## Aquaculture Statistics

 2013
## Canadä'

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## Aquaculture Statistics

2013

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## 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

* $\quad$ significantly different from reference category ( $p<0.05$ )


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## Note to users

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 the Survey of Aquaculture Industry. The survey 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.

## Highlights

- Sales of aquaculture products and services amounted to $\$ 927.9$ million in 2013, an increase of $9.5 \%$ from 2012.
- Finfish sales, which accounted for $90.9 \%$ of sales of aquaculture products and services in 2013, increased $10.8 \%$ to $\$ 843.1$ million.
- The gross value added to the economy by the aquaculture industry climbed to $\$ 326.3$ million, up from \$203.3 in 2012. Newfoundland and Labrador and British Columbia led all provinces in terms of growth in 2013.
- The value of total exports of farmed salmon including fillets remained relatively unchanged ( $0.6 \%$ ) in 2013 , while the value of farmed mussel exports increased $4.8 \%$ compared to 2012.


## Chart 1

Canadian finfish production


Source(s): Statistics Canada, CANSIM table 003-0001.

Chart 2
Canadian shellfish production


Source(s): Statistics Canada, CANSIM table 003-0001.
Chart 3
Canadian exports of atlantic salmon and atlantic salmon fillets
thousands of dollars and metric tonnes


[^0]Chart 4
Gross value-added (at factor cost) compared to the value of production


Source(s): Statistics Canada, CANSIM table 003-0003.

## Related products

Selected publications from Statistics Canada
21-207-X Statistics on income of farm families

Selected CANSIM tables from Statistics Canada

003-0001
003-0003

Aquaculture, production and value
Aquaculture economic statistics, value added account

## Selected surveys from Statistics Canada

## Selected summary tables from Statistics Canada

- Canadian Statistics - Aquaculture industry, by selected provinces


## Statistical tables

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

|  | Newfoundland and Labrador | Prince Edward Island | Nova Scotia | New Brunswick | Quebec | Ontario | Manitoba | Saskatchewan | Alberta | British Columbia | Canada ${ }^{1}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | tonnes |  |  |  |  |  |  |  |  |  |  |
| Production |  |  |  |  |  |  |  |  |  |  |  |
| Salmon | .. | .. | 7,550 | 24,000 | 0 | 0 | x | $x$ | x | 68,662 | 100,212 |
| Trout | .. | .. | 133 | 150 | 380 | 4,375 | x | x | x | 523 | 7,198 |
| Steelhead | .. | . | 0 | 0 | 0 | 0 | x | x | x | 0 | 0 |
| Other finfish | .. | .. | 93 | 0 | 104 | 0 | x | x | x | 839 | 1,429 |
| Total finfish | .. | .. | 7,776 | 24,150 | 484 | 4,375 | x | $x$ | x | 70,024 | 108,839 |
| Clams | .. | 0 | 539 | 0 | 0 | 0 | X | x | x | 1,359 | 1,898 |
| Oysters | .. | 2,281 | 159 | 638 | 0 | 0 | x | x | x | 5,735 | 8,813 |
| Mussels | .. | 18,639 | 1,893 | 95 | 522 | 0 | x | x | x | 312 | 21,461 |
| Scallops | .. | 0 | 3 | 0 | 0 | 0 | x | x | x | 385 | 388 |
| Other shellfish | .. | 0 | 147 | 0 | 27 | 0 | X | x | x | 530 | 704 |
| Total shellfish | .. | 20,920 | 2,741 | 733 | 549 | 0 | x | x | x | 8,321 | 33,264 |
| Total aquaculture | 13,625 | 20,920 | 10,517 | 24,883 | 1,033 | 4,375 | x | x | x | 78,345 | 155,727 |
| Re-stocking ${ }^{2}$ | . | . | . |  | 805 | . | . | . | . | . | 805 |
| Total aquaculture (including re-stocking) ${ }^{2}$ | 13,625 | 20,920 | 10,517 | 24,883 | 1,838 | 4,375 | x | x | x | 78,345 | 156,532 |
|  | thousands of dollars |  |  |  |  |  |  |  |  |  |  |
| Value |  |  |  |  |  |  |  |  |  |  |  |
| Salmon | .. | .. | 45,774 | 159,000 | 0 | 0 | X | x | x | 394,151 | 598,925 |
| Trout | .. | .. | 1,330 | 670 | 2,094 | 17,820 | x | x | x | 2,944 | 32,899 |
| Steelhead | .. | .. | 0 | 0 | 0 | 0 | x | x | x | 0 | 0 |
| Other finfish | .. | .. | 543 | 0 | 798 | 0 | x | x | x | 7,576 | 11,687 |
| Total finfish | .. | 1,828 | 47,647 | 159,670 | 2,892 | 17,820 | x | x | x | 404,671 | 645,338 |
| Clams | .. | 0 | 2,057 | 0 | 0 | 0 | x | x | x | 7,407 | 9,464 |
| Oysters | .. | 5,075 | 676 | 4,000 | 0 | 0 | x | x | x | 7,043 | 16,794 |
| Mussels | .. | 24,655 | 2,629 | 120 | 679 | 0 | x | x | x | 1,389 | 29,472 |
| Scallops | .. | 0 | 23 | 0 | 0 | 0 | x | x | x | 1,649 | 1,672 |
| Other shellfish | .. | 0 | 4,847 | 0 | 93 | 0 | x | x | x | 593 | 5,533 |
| Total shellfish | .. | 29,730 | 10,231 | 4,120 | 772 | 0 | x | x | x | 18,081 | 62,935 |
| Total aquaculture | 92,100 | 31,558 | 57,878 | 163,790 | 3,665 | 17,820 | x | x | x | 422,752 | 800,373 |
| Re-stocking ${ }^{2}$ | . | . | . | . | 8,623 | . | . | . | . | . | 8,623 |
| Total aquaculture (including re-stocking) ${ }^{2}$ | 92,100 | 31,558 | 57,878 | 163,790 | 12,287 | 17,820 | x | x | x | 422,752 | 808,996 |

1. Provinces with data not available are not included in the Canada totals.
2. 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 - 2010

|  | Newfoundland and Labrador | Prince Edward Island | Nova Scotia | New <br> Brunswick | Quebec | Ontario | Manitoba | Saskatchewan | Alberta | British Columbia | Canada ${ }^{1}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | tonnes |  |  |  |  |  |  |  |  |  |  |
| Production |  |  |  |  |  |  |  |  |  |  |  |
| Salmon | .. | .. | 5,088 | 25,625 | 0 | 0 | x | x | x | 70,831 | 101,544 |
| Trout | .. | .. | 91 | 150 | 337 | 4,060 | x | x | x | 600 | 6,844 |
| Steelhead | .. | .. | 0 | 0 | 0 | 0 | x | x | x | 0 | 0 |
| Other finfish | . | . | 62 | 0 | 71 | 0 | x | X | x | 884 | 1,291 |
| Total finfish | 12,899 | . | 5,241 | 25,775 | 408 | 4,060 | x | x | x | 72,315 | 122,577 |
| Clams | 0 | 0 | 438 | 0 | 0 | 0 | x | x | x | 1,485 | 1,923 |
| Oysters | 0 | 2,478 | 205 | 881 | 0 | 0 | x | x | x | 7,550 | 11,113 |
| Mussels | 2,461 | 20,112 | 2,121 | 95 | 523 | 0 | x | x | x | 364 | 25,675 |
| Scallops | 0 | 0 | 2 | 0 | 0 | 0 | x | x | x | 695 | 697 |
| Other shellfish | 0 | 0 | 110 | 0 | 23 | 0 | x | x | x | 26 | 159 |
| Total shellfish | 2,461 | 22,589 | 2,876 | 976 | 546 | 0 | x | x | $x$ | 10,120 | 39,569 |
| Total aquaculture | 15,360 | 22,589 | 8,117 | 26,751 | 954 | 4,060 | x | x | x | 82,435 | 162,146 |
| Re-stocking ${ }^{2}$ | . | . | . | . | 874 | . | . | . | . | . | 874 |
| Total aquaculture (including re-stocking) ${ }^{2}$ | 15,360 | 22,589 | 8,117 | 26,751 | 1,828 | 4,060 | x | x | x | 82,435 | 163,020 |
|  | thousands of dollars |  |  |  |  |  |  |  |  |  |  |
| Value |  |  |  |  |  |  |  |  |  |  |  |
| Salmon | . | .. | 32,040 | 162,000 | 0 | 0 | x | x | x | 499,608 | 693,648 |
| Trout | .. | .. | 891 | 700 | 1,813 | 17,100 | x | x | x | 4,852 | 33,269 |
| Steelhead | .. | . | 0 | 0 | 0 | 0 | x | x | x | 0 | 0 |
| Other finfish | . | .. | 375 | 0 | 482 | 0 | x | x | x | 10,800 | 13,637 |
| Total finfish | 100,301 | 2,200 | 33,307 | 162,700 | 2,295 | 17,100 | X | X | x | 515,260 | 843,055 |
| Clams | 0 | 0 | 1,736 | 0 | 0 | 0 | x | x | x | 8,159 | 9,895 |
| Oysters | 0 | 5,844 | 720 | 3,355 | 0 | 0 | x | x | x | 8,957 | 18,876 |
| Mussels | 6,009 | 26,603 | 2,548 | 100 | 680 | 0 | x | x | x | 1,809 | 37,748 |
| Scallops | 0 | 0 | 15 | 0 | 0 | 0 | x | x | x | 2,904 | 2,919 |
| Other shellfish | 0 | 0 | 4,521 | 0 | 90 | 0 | x | x | x | 1,401 | 6,012 |
| Total shellfish | 6,009 | 32,447 | 9,540 | 3,455 | 769 | 0 | $x$ | x | x | 23,230 | 75,451 |
| Total aquaculture | 106,310 | 34,647 | 42,847 | 166,155 | 3,065 | 17,100 | x | x | x | 538,490 | 918,506 |
| Re-stocking ${ }^{2}$ | . | . | . | . | 8,852 | . | . | . | . | . | 8,852 |
| Total aquaculture (including re-stocking) ${ }^{2}$ | 106,310 | 34,647 | 42,847 | 166,155 | 11,917 | 17,100 | x | x | x | 538,490 | 927,358 |

1. Provinces with data not available are not included in the Canada totals.
2. 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 - 2011

|  | Newfoundland and Labrador | Prince Edward Island | Nova Scotia | New Brunswick | Quebec | Ontario | Manitoba | Saskatchewan | Alberta | British Columbia | Canada ${ }^{1}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | tonnes |  |  |  |  |  |  |  |  |  |  |
| Production |  |  |  |  |  |  |  |  |  |  |  |
| Salmon | .. | . | 5,624 | 21,560 | 0 | 0 | x | x | x | 83,144 | 110,328 |
| Trout | . | .. | 124 | 80 | 357 | 3,385 | x | x | x | 64 | 5,600 |
| Steelhead | .. | .. | 0 | 0 | 0 | 0 | x | x | x | 694 | 694 |
| Other finfish | .. | .. | 69 | 0 | 64 | 23 | x | x | x | 389 | 772 |
| Total finfish | 14,264 | .. | 5,817 | 21,640 | 421 | 3,408 | x | x | x | 84,291 | 131,658 |
| Clams | 0 | 0 | 341 | 0 | 0 | 0 | x | X | x | 1,172 | 1,513 |
| Oysters | 0 | 2,682 | 246 | 609 | 0 | 0 | x | x | x | 6,242 | 9,779 |
| Mussels | 3,000 | 20,894 | 1,374 | 25 | 317 | 0 | x | x | x | 288 | 25,897 |
| Scallops | 0 | 0 | 1 | 0 | 28 | 0 | x | x | x | 271 | 300 |
| Other shellfish | 0 | 0 | 237 | 0 | 50 | 0 | x | x | x | 0 | 287 |
| Total shellfish | 3,000 | 23,576 | 2,199 | 634 | 394 | 0 | x | x | x | 7,973 | 37,776 |
| Total aquaculture | 17,264 | 23,576 | 8,017 | 22,274 | 815 | 3,408 | x | x | x | 92,264 | 169,435 |
| Re-stocking ${ }^{2}$ | - | - | . | . | 824 | . | . | . | . | . | 824 |
| Total aquaculture (including re-stocking) ${ }^{2}$ | 17,264 | 23,576 | 8,017 | 22,274 | 1,639 | 3,408 | x | x | x | 92,264 | 170,259 |
|  | thousands of dollars |  |  |  |  |  |  |  |  |  |  |
| Value |  |  |  |  |  |  |  |  |  |  |  |
| Salmon | .. | .. | 31,234 | 140,241 | 0 | 0 | X | x | x | 435,667 | 607,142 |
| Trout | .. | .. | 1,796 | 400 | 2,266 | 17,200 | x | x | x | 408 | 29,927 |
| Steelhead | .. | .. | 0 | 0 | 0 | 0 | x | x | x | 5,269 | 5,269 |
| Other finfish | .. | .. | 367 | 0 | 81 | 500 | x | x | x | 4,364 | 6,959 |
| Total finfish | 111,829 | 3,700 | 33,397 | 140,641 | 2,347 | 17,700 | x | x | x | 445,708 | 764,827 |
| Clams | 0 | 0 | 1,396 | 0 | 0 | 0 | x | x | x | 6,652 | 8,048 |
| Oysters | 0 | 6,622 | 894 | 2,645 | 0 | 0 | x | x | x | 8,380 | 18,541 |
| Mussels | 8,221 | 26,716 | 1,584 | 28 | 411 | 0 | x | x | x | 1,471 | 38,431 |
| Scallops | 0 | 0 | 11 | 0 | 179 | 0 | x | x | x | 1,714 | 1,904 |
| Other shellfish | 0 | 0 | 6,005 | 0 | 74 | 0 | $x$ | $x$ | x | 0 | 6,079 |
| Total shellfish | 8,221 | 33,338 | 9,890 | 2,673 | 664 | 0 | x | x | x | 18,217 | 73,003 |
| Total aquaculture | 120,050 | 37,038 | 43,287 | 143,314 | 3,011 | 17,700 | x | x | x | 463,925 | 837,830 |
| Re-stocking ${ }^{2}$ | . | . | . | . | 8,469 | . | - | . | . | . | 8,469 |
| Total aquaculture (including re-stocking) ${ }^{2}$ | 120,050 | 37,038 | 43,287 | 143,314 | 11,480 | 17,700 | x | x | x | 463,925 | 846,299 |

1. Provinces with data not available are not included in the Canada totals.
2. 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 - 2012

|  | Newfoundland and Labrador | Prince Edward Island | Nova Scotia | New Brunswick | Quebec | Ontario | Manitoba | Saskatchewan | Alberta | British Columbia | Canada ${ }^{1}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | tonnes |  |  |  |  |  |  |  |  |  |  |
| Production |  |  |  |  |  |  |  |  |  |  |  |
| Salmon | .. | . | 5,903 | 30,217 | 0 | 0 | x | x | x | 79,981 | 116,101 |
| Trout | .. | .. | 113 | 142 | 367 | 3,700 | x | x | x | 88 | 6,024 |
| Steelhead | .. | . | 0 | 0 | 0 | 0 | x | x | x | 505 | 505 |
| Other finfish | .. | .. | 71 | 0 | 53 | 21 | x | x | x | 139 | 504 |
| Total finfish | 16,831 | .. | 6,087 | 30,359 | 420 | 3,721 | $x$ | $x$ | x | 80,713 | 139,965 |
| Clams | 0 | 0 | 406 | 0 | 0 | 0 | x | x | x | 2,710 | 3,116 |
| Oysters | 0 | 2,787 | 105 | 1,118 | 0 | 0 | x | x | x | 6,487 | 10,497 |
| Mussels | 4,397 | 22,690 | 1,396 | 4 | 271 | 0 | x | x | x | 274 | 29,033 |
| Scallops | 0 | 0 | 2 | 0 | 15 | 0 | x | x | x | 198 | 215 |
| Other shellfish | 0 | 0 | 242 | 0 | 46 | 0 | x | x | x | 0 | 288 |
| Total shellfish | 4,397 | 25,477 | 2,151 | 1,122 | 333 | 0 | x | x | x | 9,669 | 43,149 |
| Total aquaculture | 21,228 | 25,477 | 8,238 | 31,481 | 753 | 3,721 | x | x | x | 90,382 | 183,114 |
| Re-stocking ${ }^{2}$ | . | . | . | . | 806 | . | . | . | . | . | 806 |
| Total aquaculture (including re-stocking) ${ }^{2}$ | 21,228 | 25,477 | 8,238 | 31,481 | 1,559 | 3,721 | x | x | x | 90,382 | 183,920 |
|  | thousands of dollars |  |  |  |  |  |  |  |  |  |  |
| Value |  |  |  |  |  |  |  |  |  |  |  |
| Salmon | .. | .. | 40,124 | 184,966 | 0 | 0 | X | x | x | 409,143 | 634,233 |
| Trout | .. | .. | 1,412 | 1,420 | 1,951 | 18,300 | x | x | x | 478 | 31,516 |
| Steelhead | .. | .. | 0 | 0 | 0 | 0 | x | x | x | 5,183 | 5,183 |
| Other finfish | .. | .. | 369 | 0 | 78 | 500 | x | x | x | 1,197 | 3,740 |
| Total finfish | 99,286 | 3,200 | 41,905 | 186,386 | 2,029 | 18,800 | $x$ | $x$ | x | 416,001 | 777,158 |
| Clams | 0 | 0 | 1,258 | 0 | 0 | 0 | x | x | x | 6,291 | 7,549 |
| Oysters | 0 | 7,617 | 1,140 | 5,220 | 0 | 0 | x | x | x | 10,251 | 24,228 |
| Mussels | 13,518 | 30,014 | 1,876 | 9 | 353 | 0 | x | x | x | 855 | 46,625 |
| Scallops | 0 | 0 | 13 | 0 | 209 | 0 | x | x | x | 1,338 | 1,560 |
| Other shellfish | 0 | 0 | 6,042 | 0 | 70 | 0 | x | x | x | 0 | 6,112 |
| Total shellfish | 13,518 | 37,631 | 10,329 | 5,229 | 631 | 0 | x | x | x | 18,735 | 86,074 |
| Total aquaculture | 112,804 | 40,831 | 52,234 | 191,615 | 2,661 | 18,800 | x | x | x | 434,736 | 863,232 |
| Re-stocking ${ }^{2}$ | . | . | . | . | 8,584 | . | . | . | . | . | 8,584 |
| Total aquaculture (including re-stocking) ${ }^{2}$ | 112,804 | 40,831 | 52,234 | 191,615 | 11,245 | 18,800 | x | x | x | 434,736 | 871,816 |

1. Provinces with data not available are not included in the Canada totals.
2. 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 - 2013

|  | Newfoundland and Labrador | Prince Edward Island | Nova Scotia | New Brunswick | Quebec | Ontario | Manitoba | Saskatchewan | Alberta | British Columbia | Canada ${ }^{1}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | tonnes |  |  |  |  |  |  |  |  |  |  |
| Production |  |  |  |  |  |  |  |  |  |  |  |
| Salmon | .. | .. | 6,517 | 18,837 | 0 | 0 | x | X | x | 74,673 | 100,027 |
| Trout | .. |  | 203 | 0 | 1,262 | 3,580 | x | x | x | 62 | 6,736 |
| Steelhead | .. |  | 0 | 0 | 0 | 0 | x | x | x | 682 | 682 |
| Other finfish | .. | .. | 60 | 0 | 1 | 22 | x | x | x | 391 | 696 |
| Total finfish | 22,196 | .. | 6,780 | 18,837 | 1,263 | 3,602 | x | x | x | 75,808 | 130,337 |
| Clams | 0 | 0 | 358 | 0 | 0 | 0 | x | X | x | 2,476 | 2,834 |
| Oysters | 0 | 2,812 | 356 | 739 | 10 | 0 | x | x | x | 5,592 | 9,509 |
| Mussels | 4,354 | 22,894 | 1,051 | 41 | 448 | 0 | x | x | x | 291 | 29,080 |
| Scallops | 0 | 0 | 0 | 5 | 11 | 0 | x | x | x | 91 | 107 |
| Other shellfish | 0 | 0 | 203 | 5 | 22 | 0 | x | x | x | 0 | 230 |
| Total shellfish | 4,354 | 25,706 | 1,968 | 790 | 491 | 0 | $x$ | x | x | 8,450 | 41,760 |
| Total aquaculture | 26,550 | 25,706 | 8,748 | 19,627 | 1,754 | 3,602 | x | x | x | 84,258 | 172,097 |
|  |  |  |  |  |  | ds of dol |  |  |  |  |  |
| Value |  |  |  |  |  |  |  |  |  |  |  |
| Salmon | .. | .. | 41,151 | 117,334 | 0 | 0 | x | x | x | 475,769 | 634,254 |
| Trout | .. | .. | 1,827 | 0 | 10,735 | 18,000 | x | x | x | 501 | 39,089 |
| Steelhead | .. | .. | 0 | 0 | 0 | 0 | x | x | x | 4,635 | 4,635 |
| Other finfish | .. | .. | 408 | 0 | 119 | 505 | x | x | x | 4,664 | 7,306 |
| Total finfish | 181,833 | 3,229 | 43,386 | 117,334 | 10,854 | 18,505 | $x$ | x | x | 485,569 | 870,346 |
| Clams | 0 | 0 | 1,128 | 0 | 0 | 0 | x | X | X | 7,014 | 8,142 |
| Oysters | 0 | 7,686 | 1,463 | 5,665 | 170 | 0 | x | x | x | 12,357 | 27,341 |
| Mussels | 15,139 | 30,284 | 1,601 | 46 | 584 | 0 | x | x | x | 1,824 | 49,478 |
| Scallops | 0 | 0 | 0 | 11 | 141 | 0 | x | x | x | 726 | 878 |
| Other shellfish | 0 | 0 | 6,679 | 2 | 29 | 0 | x | x | x | 0 | 6,710 |
| Total shellfish | 15,139 | 37,970 | 10,871 | 5,724 | 925 | 0 | $x$ | x | x | 21,921 | 92,549 |
| Total aquaculture | 196,972 | 41,198 | 54,257 | 123,058 | 11,779 | 18,505 | x | x | x | 507,490 | 962,895 |

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

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 - 2009 and 2010

| Destination | 2009 |  |  |  | 2010 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Mussels | Other Salmon ${ }^{1}$ | Atlantic Salmon ${ }^{2}$ | Atlantic <br> Salmon fillets | Mussels | Other Salmon ${ }^{1}$ | Atlantic Salmon ${ }^{2}$ | Atlantic Salmon fillets |
|  | tonnes |  |  |  |  |  |  |  |
| United States | 10,571 | 1,513 | 66,615 | 4,563 | 12,689 | 1,697 | 70,036 | 6,357 |
| California | 23 | 646 | 25,781 | 191 | 52 | 846 | 24,694 | 122 |
| Maine | 2,331 | 0 | 2,944 | 225 | 2,661 | 0 | 4,837 | 199 |
| Massachusetts | 6,332 | 105 | 8,244 | 885 | 7,863 | 169 | 8,662 | 1,180 |
| New York | 1,046 | 224 | 9,103 | 683 | 947 | 147 | 11,808 | 823 |
| Washington | 85 | 425 | 10,927 | 272 | 50 | 433 | 10,506 | 668 |
| Other | 754 | 112 | 9,615 | 2,308 | 1,116 | 102 | 9,529 | 3,365 |
| France | 0 | 20 | 8 | 0 | 0 | 0 | 1 | 1 |
| Japan | 0 | 290 | 578 | 44 | 0 | 213 | 437 | 397 |
| Taiwan | 0 | 0 | 253 | 67 | 0 | 1 | 166 | 70 |
| Other | 38 | 2 | 237 | 1 | 30 | 4 | 513 | 2 |
| Total | 10,608 | 1,826 | 67,691 | 4,675 | 12,719 | 1,915 | 71,153 | 6,827 |
|  | thousands of dollars |  |  |  |  |  |  |  |
| United States | 29,883 | 12,495 | 430,723 | 60,541 | 33,142 | 12,055 | 432,283 | 78,407 |
| California | 60 | 5,206 | 168,235 | 1,953 | 274 | 5,696 | 152,917 | 1,345 |
| Maine | 5,727 | 0 | 17,892 | 3,206 | 5,979 | 0 | 26,549 | 2,508 |
| Massachusetts | 18,957 | 1,259 | 52,951 | 11,663 | 21,562 | 2,512 | 51,283 | 14,580 |
| New York | 2,866 | 1,782 | 58,651 | 9,187 | 2,392 | 1,080 | 69,758 | 10,304 |
| Washington | 282 | 3,336 | 69,028 | 2,810 | 158 | 2,008 | 71,557 | 6,384 |
| Other | 1,991 | 912 | 63,967 | 31,723 | 2,777 | 759 | 60,219 | 43,286 |
| France | 0 | 150 | 71 | 5 | 0 | 1 | 10 | 17 |
| Japan | 0 | 4,465 | 4,159 | 729 | 0 | 3,115 | 2,708 | 2,263 |
| Taiwan | 0 | 2 | 1,722 | 423 | 0 | 6 | 1,222 | 410 |
| Other | 217 | 23 | 1,383 | 6 | 152 | 32 | 3,825 | 16 |
| Total | 30,100 | 17,135 | 438,059 | 61,704 | 33,294 | 15,209 | 440,048 | 81,113 |

1. Includes Coho and Spring (Chinook).
2. Includes fresh, chilled and frozen.

Table 2-2
Exports of selected Canadian aquaculture products, by country of destination - 2011 and 2012

| Destination | 2011 |  |  |  | 2012 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Mussels | Other Salmon ${ }^{1}$ | Atlantic Salmon ${ }^{2}$ | Atlantic Salmon fillets | Mussels | Other Salmon ${ }^{1}$ | Atlantic Salmon ${ }^{2}$ | Atlantic Salmon fillets |
|  | tonnes |  |  |  |  |  |  |  |
| United States | 13,741 | 1,392 | 66,141 | 4,379 | 14,941 | 1,169 | 82,122 | 4,394 |
| California | 41 | 593 | 26,649 | 205 | 28 | 511 | 32,476 | 3 |
| Maine | 2,741 | 0 | 3,695 | 171 | 3,053 | 0 | 1,924 | 1,209 |
| Massachusetts | 8,503 | 301 | 7,349 | 578 | 9,755 | 222 | 12,913 | 398 |
| New York | 943 | 149 | 10,597 | 308 | 516 | 94 | 15,110 | 286 |
| Washington | 39 | 225 | 9,562 | 401 | 5 | 281 | 9,586 | 64 |
| Other | 1,474 | 124 | 8,289 | 2,716 | 1,584 | 61 | 10,113 | 2,434 |
| France | 0 | 0 | 9 | 5 | 0 | 6 | 0 | 0 |
| Japan | 0 | 445 | 187 | 501 | 0 | 99 | 406 | 509 |
| Taiwan | 0 | 69 | 8 | 122 | 0 | 3 | 340 | 81 |
| Other | 73 | 43 | 388 | 186 | 60 | 1 | 557 | 1 |
| Total | 13,814 | 1,949 | 66,733 | 5,193 | 15,001 | 1,278 | 83,425 | 4,985 |
|  | thousands of dollars |  |  |  |  |  |  |  |
| United States | 35,575 | 13,159 | 414,411 | 55,820 | 39,147 | 11,249 | 456,856 | 38,754 |
| California | 181 | 5,619 | 158,025 | 2,199 | 108 | 5,045 | 180,215 | 27 |
| Maine | 5,872 | 0 | 22,359 | 2,262 | 6,620 | 0 | 10,440 | 6,121 |
| Massachusetts | 23,241 | 3,218 | 44,743 | 7,691 | 27,244 | 2,460 | 69,092 | 4,102 |
| New York | 2,406 | 1,331 | 71,933 | 3,500 | 1,248 | 1,003 | 86,513 | 2,150 |
| Washington | 167 | 1,898 | 61,359 | 3,505 | 29 | 2,118 | 51,255 | 680 |
| Other | 3,706 | 1,093 | 55,992 | 36,663 | 3,898 | 622 | 59,341 | 25,674 |
| France | 0 | 0 | 93 | 61 | 0 | 67 | 2 | 3 |
| Japan | 0 | 5,886 | 1,439 | 2,831 | 0 | 1,126 | 2,881 | 2,808 |
| Taiwan | 1 | 559 | 47 | 760 | 0 | 19 | 1,934 | 448 |
| Other | 321 | 388 | 2,693 | 1,233 | 289 | 8 | 3,280 | 13 |
| Total | 35,897 | 19,992 | 418,683 | 60,705 | 39,436 | 12,469 | 464,953 | 42,026 |

1. Includes Coho and Spring (Chinook).
2. Includes fresh, chilled and frozen.

Table 2-3
Exports of selected Canadian aquaculture products, by country of destination - 2013

| Destination |  |  |  |
| :--- | ---: | ---: | ---: | ---: |
|  |  |  |  |

1. Includes Coho and Spring (Chinook).
2. Includes fresh, chilled and frozen.

Table 3-1
Value added account - Aquaculture industry, by province and Canada - 2009

|  | Newfoundland and Labrador | Prince Edward Island | Nova Scotia | New <br> Brunswick | Quebec | Ontario | British Columbia | Canada ${ }^{1}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | thousands of dollars |  |  |  |  |  |  |  |
| Sources of output |  |  |  |  |  |  |  |  |
| Sales of aqua products and services | 69,800 | 28,540 | 49,810 | 198,910 | 10,829 | 18,150 | 492,600 | 868,639 |
| Whole fish dressed, fresh or chilled | 65,400 | 0 | $x$ | 157,720 | 2,174 | x | 412,000 | 675,294 |
| Fish eggs and live fish for grow-out | x | 0 | 7,900 | x | 3,853 | 3,370 | 7,000 | 43,723 |
| Whole fish live except for grow-out | 0 | 0 | 700 | 315 | 2,839 | 10,850 | 0 | 14,704 |
| Whole fish, dressed and frozen | 0 | 0 | 0 | 0 | x | 0 | x | x |
| Fish fillets, fresh or frozen | x | 0 | x | x | x | x | x | x |
| Fish, dried, smoked or in brine | 0 | 0 | 10 | 0 | x | 0 | x | 220 |
| Total finfish | 66,200 | x | 43,405 | 192,650 | 9,779 | $x$ | 466,600 | 798,034 |
| Total molluscs | x | 26,300 | 6,330 | x | 800 | 0 | 12,200 | 53,480 |
| Other goods and services, not elsewhere specified | x | x | 75 | $x$ | 250 | x | 13,800 | 17,125 |
| Subsidies | x | 50 | x | x | 170 | $x$ | x | x |
| Other operating revenue | X | 100 | x | x | 570 | x | x | x |
| Total operating revenue | 72,275 | 28,690 | 52,545 | 207,290 | 11,569 | 19,570 | 495,255 | 887,194 |
| Change in inventory value, goods | 9,000 | 1,100 | 2,010 | 15,100 | 500 | 1,800 | -32,015 | -2,505 |
| Gross output | 81,275 | 29,790 | 54,555 | 222,390 | 12,069 | 21,370 | 463,240 | 884,689 |
| Product inputs |  |  |  |  |  |  |  |  |
| Product expenses | 67,470 | 8,500 | 31,495 | 159,700 | 6,255 | 9,490 | 343,650 | 626,560 |
| Feed | 38,500 | x | 14,300 | 74,600 | x | 5,500 | 159,600 | 294,840 |
| 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 | 3,080 | 1,365 | 3,595 | 15,810 | 960 | 510 | 45,750 | 71,070 |
| Change in inventory value, raw materials | -1,000 | 250 | 0 | 200 | -500 | 200 | 10,000 | 9,150 |
| Total of product inputs | 68,470 | 8,250 | 31,495 | 159,500 | 6,755 | 9,290 | 333,650 | 617,410 |
| Gross value added (factor cost) | 12,805 | 21,540 | 23,060 | 62,890 | 5,314 | 12,080 | 129,590 | 267,279 |
| Selected primary inputs |  |  |  |  |  |  |  |  |
| 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]Note(s): Data and account structure are subject to revision.

Table 3-2
Value added account - Aquaculture industry, by province and Canada - 2010

|  | Newfoundland and Labrador | Prince Edward Island | Nova Scotia | New Brunswick | Quebec | Ontario | British Columbia | Canada ${ }^{1}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | thousands of dollars |  |  |  |  |  |  |  |
| Sources of output |  |  |  |  |  |  |  |  |
| Sales of aqua products and services | x | 33,835 | 36,195 | 233,165 | x | 18,295 | 534,300 | 977,375 |
| Whole fish dressed, fresh or chilled | x | 0 | 20,345 | 198,800 | x | 15,240 | 446,925 | 786,760 |
| Fish eggs and live fish for grow-out | 0 | x | x | x | 2,360 | 1,185 | x | 39,195 |
| Whole fish live except for grow-out | 0 | x | 15 | 0 | 5,155 | 1,700 | x | , |
| Whole fish, dressed and frozen | 0 | 0 | 0 | 0 | 5 | 0 | x | x |
| Fish fillets, fresh or frozen | 0 | 0 | x | x | x | x | x | 67,970 |
| Fish, dried, smoked or in brine | 0 | 0 | 0 | 0 | x | 55 | X | 335 |
| Total finfish | x | x | 31,175 | 227,290 | 10,270 | x | 514,925 | 907,555 |
| Total molluscs | x | 31,160 | 5,020 | x | x | 0 | 15,785 | 61,345 |
| Other goods and services, not elsewhere specified | x | x | 0 | x | x | x | 3,590 | 8,475 |
| Subsidies | x | 0 | x | x | X | x | $x$ | 1,770 |
| Other operating revenue | X | 905 | x | x | x | x | x | 13,540 |
| Total operating revenue | x | 34,740 | 38,280 | 242,000 | x | 18,925 | 536,250 | 992,685 |
| Change in inventory value, goods | 4,650 | 355 | 1,260 | 21,040 | -460 | -1,200 | 15,035 | 40,680 |
| Gross output | x | 35,095 | 39,540 | 263,040 | x | 17,725 | 551,285 | 1,033,365 |
| Product inputs |  |  |  |  |  |  |  |  |
| Product expenses | x | 8,935 | 23,045 | 154,340 | x | 10,795 | 364,645 | 643,845 |
| Feed | 42,595 | x | 9,800 | 82,140 | x | 6,900 | 164,500 | 308,020 |
| Therapeutants | 1,135 | x | 670 | 12,520 | x | 220 | 11,100 | 25,790 |
| Purchases, eggs and fish for grow-out | 12,870 | 2,120 | x | 18,140 | x | 800 | 5,115 | 45,435 |
| Purchases, fish for processing and resale | x | 0 | x | x | x | x | x | 900 |
| Insurance premiums | x | 580 | 750 | 6,200 | x | 135 | 7,270 | 17,665 |
| Energy (electricity, fuel, et cetera) | x | 795 | 930 | 4,880 | x | 620 | 10,050 | 20,780 |
| Goods transportation and storage | 1,780 | x | x | 3,155 | x | x | 34,270 | 40,315 |
| Processing services | 2,765 | 165 | x | x | x | x | 37,730 | 41,565 |
| Rental and leasing expenses | x | 120 | 480 | 950 | x | 320 | 5,140 | 8,415 |
| Maintenance and repairs, buildings | 530 | 370 | 340 | 515 | x | 30 | x | 3,100 |
| Maintenance and repairs, machinery | X | 1,100 | 325 | 4,300 | x | 110 | 26,530 | 35,095 |
| Professional services | 940 | 145 | 210 | 935 | 125 | 160 | 7,415 | 9,930 |
| Other operating expenses, not elsewhere specified | x | 3,005 | 2,290 | 20,180 | x | 1,190 | 53,775 | 86,835 |
| Change in inventory value, raw materials | -110 | 315 | 5 | -95 | -810 | -580 | -1,480 | -2,755 |
| Total of product inputs | x | 8,620 | 23,040 | 154,435 | x | 11,375 | 366,125 | 646,600 |
| Gross value added (factor cost) | 37,780 | 26,475 | 16,500 | 108,605 | 5,895 | 6,350 | 185,160 | 386,765 |
| Selected primary inputs |  |  |  |  |  |  |  |  |
| Salaries and wages | 10,790 | 6,745 | 4,975 | 22,595 | 2,125 | 2,100 | 60,010 | 109,340 |
| Employer portion of employee benefits | 1,545 | 675 | 700 | 2,725 | 280 | 330 | 10,685 | 16,940 |
| Depreciation | x | 2,090 | 2,185 | 27,025 | x | 650 | 30,645 | 74,300 |
| Interest paid | x | 430 | 665 | 7,185 | X | 375 | 3,560 | 16,870 |

[^2]Note(s): Data and account structure are subject to revision.

Table 3-3
Value added account - Aquaculture industry, by province and Canada - 2011

|  | Newfoundland and Labrador | Prince Edward Island | Nova Scotia | New <br> Brunswick | Quebec | Ontario | British Columbia | Canada ${ }^{1}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | thousands of dollars |  |  |  |  |  |  |  |
| Sources of output |  |  |  |  |  |  |  |  |
| Sales of aqua products and services | x | x | 41,485 | 195,495 | 12,390 | 17,250 | 472,190 | 831,995 |
| Whole fish dressed, fresh or chilled | x | 0 | x | 172,030 | 1,875 | 6,730 | 390,910 | 640,810 |
| Fish eggs and live fish for grow-out | x | x | 3,460 | 2,330 | 2,140 | 9,340 | x | 43,695 |
| Whole fish live except for grow-out | 0 | 0 | x | x | 5,550 | 670 | x | 8,655 |
| Whole fish, dressed and frozen | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fish fillets, fresh or frozen | 0 | 0 | x | x | x | x | x | 65,090 |
| Fish, dried, smoked or in brine | 0 | 0 | 0 | 0 | x | x | 0 | 270 |
| Total finfish | x | X | 37,560 | 189,240 | 10,465 | x | 451,135 | 758,520 |
| Total molluscs | 6,970 | 31,905 | x | x | 595 | 0 | 15,510 | 61,455 |
| Other goods and services, not elsewhere specified | x | x | 205 | x | x | x | 5,545 | 12,020 |
| Subsidies | x | 5 | $x$ | 65 | 170 | X | 815 | 1,845 |
| Other operating revenue | X | X | X | 6,455 | 495 | X | 2,610 | 12,635 |
| Total operating revenue | x | x | 43,905 | 202,015 | 13,055 | 17,885 | 475,615 | 846,475 |
| Change in inventory value, goods | X | X | -3,205 | 2,055 | -490 | 790 | -2,190 | 60,680 |
| Gross output | 121,200 | 36,520 | 40,700 | 204,070 | 12,565 | 18,675 | 473,425 | 907,155 |
| Product inputs |  |  |  |  |  |  |  |  |
| Product expenses | x | 10,855 | x | 159,640 | 5,190 | 10,615 | 344,800 | 643,775 |
| Feed | 43,330 | x | 12,070 | 67,220 | x | 6,195 | 166,555 | 297,225 |
| Therapeutants | 1,550 | 75 | 900 | 5,735 | 80 | 130 | 9,280 | 17,750 |
| Purchases, eggs and fish for grow-out | 19,065 | 2,315 | x | x | 250 | 1,140 | 3,635 | 45,065 |
| Purchases, fish for processing and resale | x | 0 | X | x | 70 | X | x | 34,515 |
| Insurance premiums | x | 365 | 745 | x | 235 | 125 | 7,430 | 15,220 |
| Energy (electricity, fuel, et cetera) | 1,985 | 960 | 1,070 | 3,895 | 870 | 545 | 9,515 | 18,840 |
| Goods transportation and storage | 1,770 | 520 | 110 | 2,690 | 75 | 205 | 28,175 | 33,545 |
| Processing services | 3,030 | x | 120 | 5 | X | x | 32,245 | 35,725 |
| Rental and leasing expenses | x | 195 | 455 | x | 80 | 245 | 5,060 | 8,905 |
| Maintenance and repairs, buildings | X | 255 | 540 | x | 200 | 40 | x | 4,385 |
| Maintenance and repairs, machinery | 300 | 1,505 | 805 | 7,165 | 365 | 150 | 21,500 | 31,790 |
| Professional services | 1,135 | 710 | 385 | 2,500 | 155 | 315 | 8,075 | 13,275 |
| Other operating expenses, not elsewhere specified | 5,330 | 3,490 | 4,630 | 20,205 | 1,100 | 1,460 | 51,320 | 87,535 |
| Change in inventory value, raw materials | X | 105 | X | -125 | 170 | 25 | 1,295 | 3,795 |
| Total of product inputs | 80,920 | 10,750 | 29,430 | 159,765 | 5,020 | 10,590 | 343,505 | 639,980 |
| Gross value added (factor cost) | 40,280 | 25,770 | 11,270 | 44,305 | 7,545 | 8,085 | 129,920 | 267,175 |
| Selected primary inputs |  |  |  |  |  |  |  |  |
| Salaries and wages | 8,470 | 6,955 | 5,645 | 18,510 | 2,205 | 2,170 | 62,855 | 106,810 |
| Employer portion of employee benefits | 1,210 | 735 | 705 | 2,135 | 195 | 235 | 10,500 | 15,715 |
| Depreciation | x | 2,315 | 6,210 | 23,735 | x | X | 26,860 | 68,295 |
| Interest paid | x | 635 | 465 | 4,525 | x | x | 3,930 | 12,575 |

[^3]Note(s): Data and account structure are subject to revision.

Table 3-4
Value added account - Aquaculture industry, by province and Canada - 2012

|  | Newfoundland and Labrador | Prince Edward Island | Nova Scotia | New Brunswick | Quebec | Ontario | British Columbia | Canada ${ }^{1}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | thousands of dollars |  |  |  |  |  |  |  |
| Sources of output |  |  |  |  |  |  |  |  |
| Sales of aqua products and services | 106,210 | 39,945 | 44,035 | 190,700 | 11,825 | 18,580 | 436,235 | 847,530 |
| Whole fish dressed, fresh or chilled | 93,665 | 0 | 26,645 | 160,645 | 2,020 | 14,580 | 361,625 | 659,180 |
| Fish eggs and live fish for grow-out | 15 | x | 4,575 | 7,220 | x | 1,980 | 14,465 | 33,180 |
| Whole fish live except for grow-out | 0 | 0 | x | x | 5,795 | 960 | 35 | 7,465 |
| Whole fish, dressed and frozen | 0 | 0 | 0 | 0 | 0 | 0 | 4,195 | 4,195 |
| Fish fillets, fresh or frozen | 0 | 0 | x | x | x | x | 32,715 | 56,500 |
| Fish, dried, smoked or in brine | 0 | 0 | 0 | 0 | x | x | 0 | 330 |
| Total finfish | 93,680 | x | 39,070 | 182,810 | 10,665 | x | 413,035 | 760,850 |
| Total molluscs | 11,170 | 36,090 | x | x | 535 | 0 | 18,295 | 75,780 |
| Other goods and services, not elsewhere specified | 1,360 | x | x | x | 625 | 15 | 4,905 | 10,900 |
| Subsidies | x | 5 | 80 | 235 | 185 | $x$ | 3,240 | 4,135 |
| Other operating revenue | x | 200 | 2,375 | 4,950 | 75 | X | 3,455 | 11,840 |
| Total operating revenue | 106,500 | 40,150 | 46,490 | 195,885 | 12,085 | 19,465 | 442,930 | 863,505 |
| Change in inventory value, goods | 23,410 | 1,510 | -300 | 2,325 | 425 | -560 | -20,080 | 6,730 |
| Gross output | 129,910 | 41,660 | 46,190 | 198,210 | 12,510 | 18,905 | 422,850 | 870,235 |
| Product inputs |  |  |  |  |  |  |  |  |
| Product expenses | 105,960 | 10,960 | 31,310 | 158,310 | 5,160 | 11,380 | 347,835 | 670,915 |
| Feed | 59,660 | 245 | 12,435 | 60,895 | ${ }_{5}$ | x | 159,950 | 301,590 |
| Therapeutants | x | 125 | 990 | x | 95 | 165 | 9,500 | 21,190 |
| Purchases, eggs and fish for grow-out | 16,090 | 3,655 | X | 12,480 | 155 | $x$ | 5,975 | 42,510 |
| Purchases, fish for processing and resale | X | 0 | X | X | x | x | 825 | 43,610 |
| Insurance premiums | x | 320 | 1,025 | x | 185 | 155 | 8,500 | 18,555 |
| Energy (electricity, fuel, et cetera) | 1,775 | 1,040 | 1,460 | 3,640 | 920 | 720 | 12,960 | 22,515 |
| Goods transportation and storage | 2,875 | 585 | x | x | 70 | 145 | 23,505 | 30,565 |
| Processing services | x | 225 | x | 15 | x | x | 28,150 | 32,745 |
| Rental and leasing expenses | 720 | 415 | 450 | 765 | 95 | 475 | 5,995 | 8,915 |
| Maintenance and repairs, buildings | x | 250 | 515 | x | 185 | 50 | 5,410 | 8,685 |
| Maintenance and repairs, machinery | 200 | 1,325 | 1,240 | 7,980 | 220 | 315 | 18,380 | 29,660 |
| Professional services | 825 | 555 | 360 | 2,060 | 165 | 215 | 7,160 | 11,340 |
| Other operating expenses, not elsewhere specified | 9,250 | 2,220 | 4,360 | 19,305 | 1,165 | 1,210 | 61,525 | 99,035 |
| Change in inventory value, raw materials | 2,925 | -40 | 35 | 805 | -55 | -205 | 480 | 3,945 |
| Total of product inputs | 103,035 | 11,000 | 31,275 | 157,505 | 5,215 | 11,585 | 347,355 | 666,970 |
| Gross value added (factor cost) | 26,875 | 30,660 | 14,915 | 40,705 | 7,295 | 7,320 | 75,495 | 203,265 |
| Selected primary inputs |  |  |  |  |  |  |  |  |
| Salaries and wages | 10,190 | 7,595 | 5,430 | 16,735 | 2,160 | 2,755 | 60,515 | 105,380 |
| Employer portion of employee benefits | 1,745 | 905 | 525 | 1,910 | 215 | 290 | 9,890 | 15,480 |
| Depreciation | x | 2,680 | x | 18,170 | 945 | 895 | 30,820 | 64,975 |
| Interest paid | x | 705 | x | 9,655 | 155 | 295 | 3,770 | 27,090 |

[^4]Note(s): Data and account structure are subject to revision.

Table 3-5
Value added account - Aquaculture industry, by province and Canada - 2013

|  | Newfoundland and Labrador | Prince Edward Island | Nova Scotia | New Brunswick | Quebec | Ontario | British Columbia | Canada ${ }^{1}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | thousands of dollars |  |  |  |  |  |  |  |
| Sources of output |  |  |  |  |  |  |  |  |
| Sales of aqua products and services | 183,550 | 39,210 | 48,048 | 122,095 | 11,960 | 19,825 | 503,225 | 927,913 |
| Whole fish dressed, fresh or chilled | X | x | 32,143 | x | 2,045 | 15,565 | 453,955 | 789,793 |
| Fish eggs and live fish for grow-out | 0 | x | 2,810 | x | 2,175 | 2,325 | x | 24,175 |
| Whole fish live except for grow-out | 0 | 0 | x | 0 | x | 900 | 0 | 7,835 |
| Whole fish, dressed and frozen | 0 | x | 0 | 0 | 0 | 0 | x | 5,315 |
| Fish fillets, fresh or frozen | 0 | x | x | 0 | x | 990 | x | 15,430 |
| Fish, dried, smoked or in brine | 0 | 0 | x | 0 | x | 5 | 0 | 560 |
| Total finfish | X | x | 43,468 | x | 10,840 | 19,785 | 479,220 | 843,108 |
| Total molluscs | x | 35,445 | x | 5,610 | 755 | 0 | x | 81,050 |
| Other goods and services, not elsewhere specified | X | x | x | x | 365 | 40 | x | 3,755 |
| Subsidies | $x$ | x | x | 70 | 435 | 120 | 885 | 1,705 |
| Other operating revenue | X | x | X | X | 590 | 480 | 5,265 | 50,730 |
| Total operating revenue | X | 39,735 | 50,868 | x | 12,985 | 20,425 | 509,375 | 980,348 |
| Change in inventory value, goods | X | 950 | 6,140 | x | -195 | 1,060 | 8,180 | 2,965 |
| Gross output | 177,365 | 40,685 | 57,008 | 156,425 | 12,790 | 21,485 | 517,555 | 983,313 |
| Product inputs |  |  |  |  |  |  |  |  |
| Product expenses | 110,540 | 13,730 | x | x | 5,980 | 13,030 | 357,920 | 661,785 |
| Feed | X | 465 | 15,135 | x | 1,775 | 7,480 | 160,550 | 294,780 |
| Therapeutants | x | 80 | x | x | 75 | 135 | 14,655 | 24,130 |
| Purchases, eggs and fish for grow-out | x | 4,855 | 6,895 | x | 235 | 1,655 | x | 54,425 |
| Purchases, fish for processing and resale | X | X | X | X | X | X | X | 25,835 |
| Insurance premiums | x | 420 | 1,415 | $x$ | 265 | 190 | 6,700 | 15,945 |
| Energy (electricity, fuel, et cetera) | 1,910 | 1,020 | 1,730 | x | x | 745 | 12,305 | 21,025 |
| Goods transportation and storage | x | 685 | 675 | x | 125 | 285 | 25,005 | 32,665 |
| Processing services | 5,640 | 125 | x | 5 | x | x | 26,105 | 32,025 |
| Rental and leasing expenses | 560 | 500 | 260 | x | 115 | x | 5,325 | 7,495 |
| Maintenance and repairs | x | 1,875 | 1,750 | x | 595 | 530 | 21,140 | 31,415 |
| Professional services | x | x | 600 | 1,725 | 360 | 405 | 9,355 | 14,255 |
| Other operating expenses, not elsewhere specified | 8,425 | x | x | 18,585 | 1,315 | 1,310 | 69,795 | 107,790 |
| Change in inventory value, raw materials | -595 | 210 | X | x | 145 | -105 | 1,310 | 4,805 |
| Total of product inputs | 111,135 | 13,520 | 39,015 | 117,730 | 5,835 | 13,135 | 356,610 | 656,980 |
| Gross value added (factor cost) | 66,230 | 27,165 | 17,993 | 38,695 | 6,955 | 8,350 | 160,945 | 326,333 |
| Selected primary inputs |  |  |  |  |  |  |  |  |
| Salaries and wages | 10,835 | 8,110 | 5,720 | 14,705 | 2,210 | 2,775 | 55,190 | 99,545 |
| Employer portion of employee benefits | 1,930 | 925 | 525 | 1,660 | 245 | 310 | 9,170 | 14,765 |
| Depreciation | x | 3,080 | 4,845 | x | 1,485 | 590 | 27,970 | 57,485 |
| Interest paid | x | 885 | x | 10,210 | 270 | 435 | x | 21,690 |

1. Canada total excludes Manitoba, Saskatchewan and Alberta.
2. Starting in 2013, maintenance and repair expenses for buildings and machinery are combined.

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

## Concepts and methods

Aquaculture is the managed production of fish. The North American Industrial Classification System (NAICS) defines the Canadian aquaculture industry as establishments which are primarily engaged in farm-raising aquatic animals and plants. Establishments primarily engaged in raising both aquatic animals and plants in integrated growing operations, aquaponics, are also included. These activities can occur both in natural waters and in artificial aquatic impoundments and include the use of some form of intervention in the rearing or growing process to enhance production.

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

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

## Production and value of aquaculture

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

## Exports of selected aquaculture products

Canadian import and export statistics are derived by the International Trade Division of Statistics Canada from administrative records collected by the Canada Border Services Agency. The one exception to this process is Canada-United States trade. As of January 1, 1990, Canada and the United States have been using one another's import data as its own export data. Export data are available by province of origin.

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 Harmonized Commodity Description and Coding System, a multipurpose international nomenclature developed by the World Customs Organization.

Small quantities of fish fillets may be included in other categories that include products from the commercial fishery. However, as exports of these categories are relatively low, the number of individual aquaculture categories is limited.

## 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.

The value added account displays the inputs and outputs (revenues and expenses excluding the change in inventory values) on a calendar year basis. These data are displayed by province, with the exception of 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.

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.

## Methods

Starting in reference year 2013, these data are produced as part of Statistics Canada's Integrated Business Statistics Program (IBSP) replacing the Unified Enterprise Survey.

Questionnaires are based on harmonized concepts and content. In addition, surveys share common sampling, collection and processing methodologies that are driven by metadata. Common tools are in place to edit, correct, and analyse data.

Using common tools will ensure data quality, while avoiding overlap between surveys and minimizing response burden to the greatest extent possible.

## Frame

The IBSP provides a standardized framework for economic surveys conducted at Statistics Canada. Statistics Canada's Business Register (BR) is the common frame for all surveys using the IBSP model. The BR identifies all businesses operating in Canada and foreign businesses that have links to Canadian companies. It includes information about how businesses are organized, the industries they operate in, their size in terms of revenues earned and number of employees, and their location. The BR is a data service centre updated through a number of sources including administrative data files, feedback received from conducting Statistics Canada business surveys, and profiling activities including direct contact with companies to obtain information about their operations and Internet research findings.

## Target population

The target population for this survey is comprised of establishments primarily engaged in farm -raising aquatic animals and plants classified to aquaculture under NAICS 112510 - Aquaculture that operated for at least one day during the reference year.

## Sampling

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 $\$ 105,000$.
- Tax data are used to estimate for businesses with gross business revenue less than the cut-off and for imputation of non-response records.

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

The "must-take" stratum contains the establishments (including their 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 tax data.

For those establishments not selected in either the "must-take" (greater than $\$ 25,000,000$ ) or the "take none" (less than the cut-off) strata, three additional 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).

For 2013, the frame included 563 establishments classified to aquaculture.
The overall sample size for 2013 was 122 establishments.

## Data collection

The survey is collected primarily through an electronic questionnaire while providing respondents with an option to receive a paper questionnaire, reply by telephone interview or use other electronic reported methods. Once collected, data are examined for inconsistencies and errors using automated edits followed by an analytical review. Data for non-response and no-contact are imputed using tax and historically reported data.

## Estimation

The general estimation system is used to provide estimates for the entire observed population.
In addition, the sampling weights derived from the sample survey are modified and improved using updated information. This was possible because, during the passage of time since the sample was selected, the Business Register was updated further with more complete information. The final set of weights reflects as closely as possible the changing characteristics of the population of this 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.

## Analysis

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 indicators, the provincial administrative data are valuable in the analysis since they help confirm 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 coefficient of variation (CV), a measure of sampling error, is computed. The quality of the estimates is classified as Excellent (CV of 0.01 to $4.99 \%$ ); Very good (CV of $5.00 \%$ to $9.99 \%$ ); Good (CV of $10.00 \%$ to $14.99 \%$ ); Acceptable (CV of $15.00 \%$ to $24.99 \%$ ); Use with caution (CV of 25.00\% to 34.99\%); and Unreliable (CV > 35.00\%).

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 for 2013 was $99.1 \%$.
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.


[^0]:    Source(s): Statistics Canada, International Accounts and Trade Division.

[^1]:    1. Canada total excludes Manitoba, Saskatchewan and Alberta.
[^2]:    1. Canada total excludes Manitoba, Saskatchewan and Alberta.
[^3]:    1. Canada total excludes Manitoba, Saskatchewan and Alberta
[^4]:    1. Canada total excludes Manitoba, Saskatchewan and Alberta.
