



Canadian Aquaculture Industry



2004-2005

KEY FIGURES

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INTRODUCTION

Seafood is the largest single food commodity exported by Canada. Canada is the fifth largest seafood exporter in the world. In 2005, wild harvest and aquaculture production totalled over C\$2.9 billion.

Aquaculture is a relatively new commercial activity in Canada and in many other parts of the world, but already it occupies a significant position in the seafood production sector. Cultured fish and seafood production was valued at C\$715 million in 2005, comprising approximately 25 per cent of all Canadian fisheries and aquaculture production.

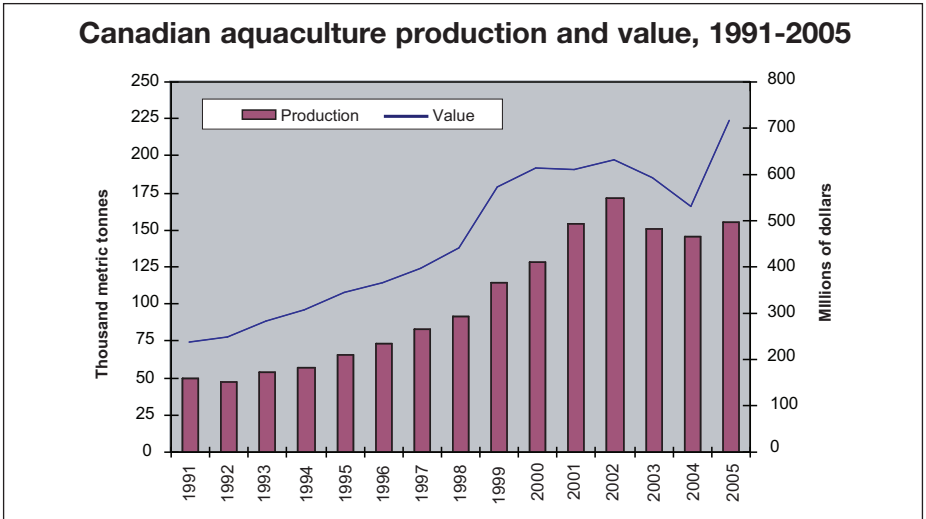
In this key figures booklet, you will find the latest figures featuring a sampling of economic indicators of the Canadian aquaculture industry.

AQUACULTURE PRODUCTION AND VALUE

Canadian aquaculture production and value¹, 1991-2005

Year	Production (Tonnes)	Value (Millions of dollars)
1991	49,594	233.5
1992	46,931	244.0
1993	53,927	277.6
1994	57,147	301.9
1995	66,269	341.9
1996	73,187	362.5
1997	82,487	392.1
1998	92,105	436.8
1999	114,204	567.8
2000	128,030	608.8
2001	154,069	605.4
2002	171,799	628.3
2003	150,940	590.9
2004	145,840	526.5
2005	154,993	715.1

1. The production and value of aquaculture includes the amount and value produced on sites and excludes hatcheries or processing. Shellfish includes some wild production.

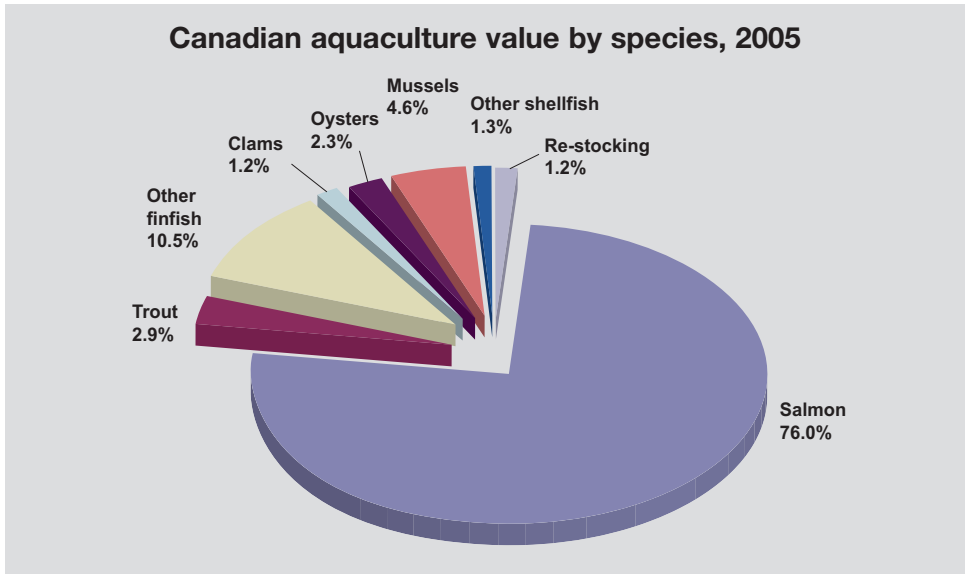


Source: Aquaculture Statistics, 2005, Catalogue no. 23-222-XIE, Statistics Canada.

Aquaculture production and value¹ by species, 2005

Species	Production (Tonnes)	Value (Millions of dollars)
Salmon ²	98,441	543.6
Trout ²	4,723	21.0
Other finfish	12,636	75.0
Total finfish²	115,800	639.6
Clams	1,788	8.4
Oysters	12,584	16.1
Mussels ²	22,842	33.2
Scallops ²	237	1.0
Other shellfish	832	8.2
Total shellfish	38,283	66.9
Total aquaculture	154,083	706.5
Re-stocking ³	910	8.5
Total aquaculture (including restocking)³	154,993	715.1

1. The production and value of aquaculture includes the amount and value produced on sites and excludes hatcheries or processing. Shellfish includes some wild production.
2. Excludes confidential data.
3. To outfitters: operations offering lodging and services for hunting, fishing and trapping.



Source: Aquaculture Statistics, 2005, Catalogue no. 23-222-XIE, Statistics Canada.

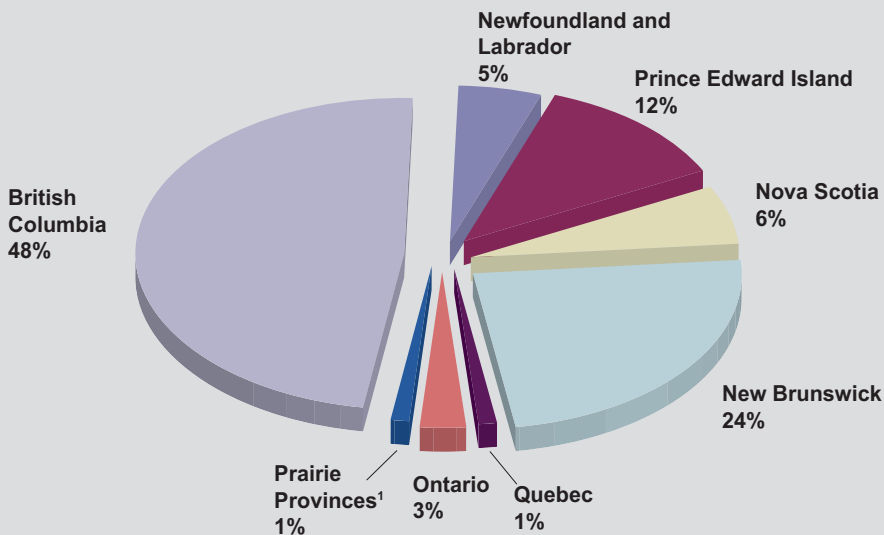
Aquaculture production and value¹, by province, 2005

	NL	PEI	NS	NB	QC	ON	MB, SK and AB	BC	CAN
Production					Tonnes				
Salmon	x	x	x	35,000	0	0	0	63,441	98,441
Trout	0	x	0	300	300	4,000	x	112	4,723
Other Finfish	x	x	x	x	x	x	x	x	12,636
Total finfish	5,006	10	5,704	35,300	300	4,000	1,927	63,553	115,800
Clams	0	0	0	0	0	0	0	1,788	1,788
Oysters	0	2,857	0	0	0	0	0	7,638	12,584
Mussels	3,175	16,054	2,300	500	753	0	0	78	22,842
Scallops	0	0	11	0	0	0	0	226	237
Other Shellfish	0	0	670	0	162	0	0	0	832
Total Shellfish	3,157	18,911	3,213	2,357	915	0	0	9,730	38,283
Total aquaculture	8,163	18,921	8,917	37,657	1,215	4,000	1,927	73,283	154,083
Restocking	.	.	.	.	910	.	.	.	910
Total aquaculture including restocking	8,163	18,921	8,917	37,657	2,125	4,000	1,927	73,283	154,993
Value					Thousands of dollars				
Salmon	x	x	x	22,5000	0	0	0	318,634	543,634
Trout	0	x	0	3,000	1,854	15,500	x	673	21,070
Other Finfish	x	x	x	x	x	x	x	x	74,937
Total finfish	26,600	1,900	29,551	22,8000	1,854	15,500	16,929	319,307	639,641
Clams	0	0	0	0	0	0	0	8,378	8,378
Oysters	0	5,500	686	1,950	0	0	0	7,959	16,095
Mussels	6,900	21,400	3,060	550	980	0	0	278	22,842
Scallops	0	0	91	0	0	0	0	988	237
Other Shellfish	0	0	7,030	0	1,190	0	0	0	8,220
Total Shellfish	6,900	26,900	10,867	2,500	2,170	0	0	17,603	66,940
Total aquaculture	33,500	28,800	40,418	230,500	4,024	15,500	16,929	336,910	706,581
Re-stocking	.	.	.	.	8,526	.	.	.	8,526
Total aquaculture including restocking	33,500	28,800	40,418	230,500	12,550	15,500	16,929	336,910	715,107

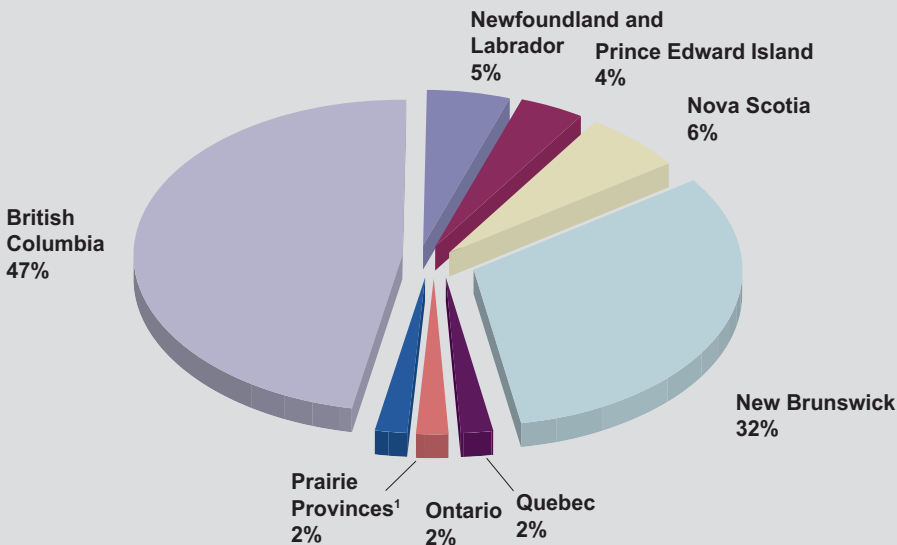
1. The production and value of aquaculture includes the amount and value produced on sites and excludes hatcheries or processing. Shellfish includes some wild production.
(x) Data suppressed to meet the confidentiality requirements of the Statistics Act.
(-) Not available.

Source: Aquaculture Statistics, 2005, Catalogue no. 23-222-XIE, Statistics Canada.

Share of aquaculture production by province, 2005



Share of aquaculture value by province, 2005



1. Manitoba, Saskatchewan, and Alberta

Source: Aquaculture Statistics, 2005, Catalogue no. 23-222-XIE, Statistics Canada.

Aquaculture value added, 2005

Sources of output		Thousands of dollars
Sales of aqua product and services		738,840
Whole fish dressed, fresh or chilled	439,200	
Fish eggs and live fish for grow out	28,400	
Whole fish live except for grow-out	19,800	
Whole fish, dressed and frozen	15,500	
Fish fillets, fresh or frozen	118,700	
Fish, dried, smoked or in brine	350	
Total finfish	662,950	
Total molluscs	68,800	
Other goods and services, not elsewhere specified	7,090	
Subsidies	695	
Other operating revenue	13,020	
Total operating revenue		752,555
Change in inventory value, goods	31,990	
Gross output		784,545
Product inputs		
Product expenses		543,045
Feed	244,980	
Therapeutants	11,940	
Purchases, eggs and fish for grow-out	47,030	
Purchases, fish for processing and resale	57,400	
Insurance premiums	14,070	
Energy (electricity, fuel, etc.)	15,600	
Goods transportation and storage	32,340	
Processing services	50,210	
Rental and leasing expenses	5,655	
Maintenance and repairs, buildings	3,735	
Maintenance and repairs, machinery	18,405	
Professional services	9,815	
Other operating expenses, not elsewhere specified	31,865	
Change in inventory value, raw materials	300	
Total of product inputs		542,745
Gross value added (factor cost)		241,800
Selected primary inputs		
Salaries and wages	100,600	
Employer portion of employee benefits	13,270	
Depreciation	45,700	
Interest paid	20,320	

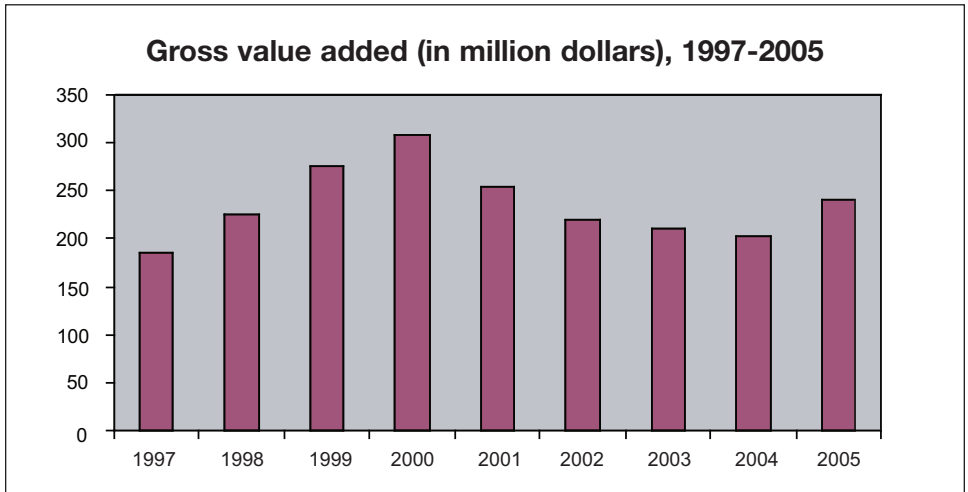
Source: Aquaculture Statistics, 2005, Catalogue no. 23-222-XIE, Statistics Canada.

Aquaculture value added¹ (in million dollars), 1997-2005

Year	Gross output (a)	Product inputs (b)	Gross value added ² (a-b)
1997	511.3	325.3	186.0
1998	564.6	338.6	226.0
1999	707.4	431.5	275.9
2000	785.4	478.3	307.1
2001	751.2	496.0	255.2
2002	756.7	536.7	220.0
2003	728.4	518.7	209.7
2004	735.2	531.9	203.3
2005	784.5	542.7	241.8

1. Aquaculture value added is residually derived by subtracting product inputs, or purchases from other businesses, from the gross output of the sector.

2. Excludes Manitoba, Saskatchewan, Alberta, and Yukon.



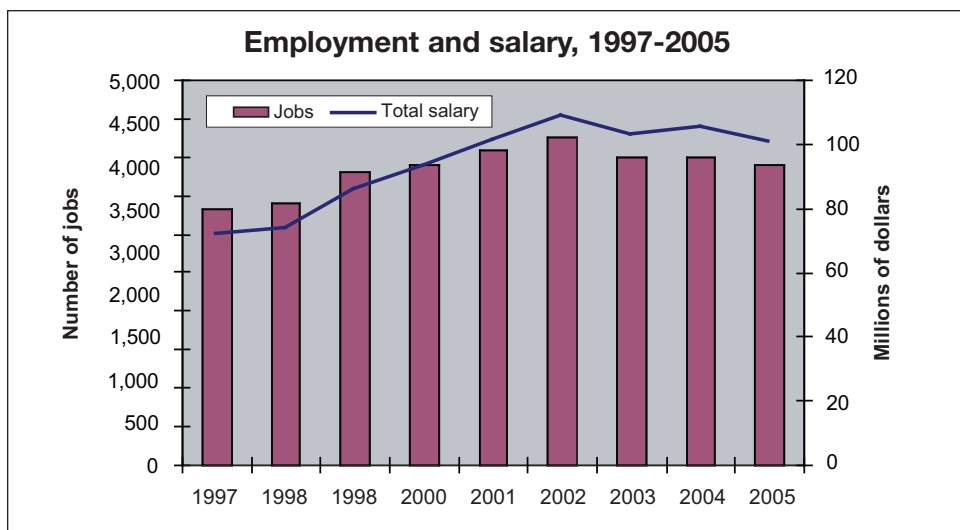
Source: Aquaculture Statistics, 2005, Catalogue no. 23-222-XIE, Statistics Canada.

Employment and salary for aquaculture operations, 2005¹

	Number of jobs	Average salary	Total Salary
Newfoundland and Labrador	200	15,000	3,000,000
Prince Edward Island	620	17,742	11,000,000
Nova Scotia	250	23,200	5,800,000
New Brunswick	1,250	26,800	33,500,000
Quebec	155	18,710	2,900,000
Ontario	150	22,667	3,400,000
British Columbia	1,275	32,157	41,000,000
Canada	3,900	25,759	100,600,000

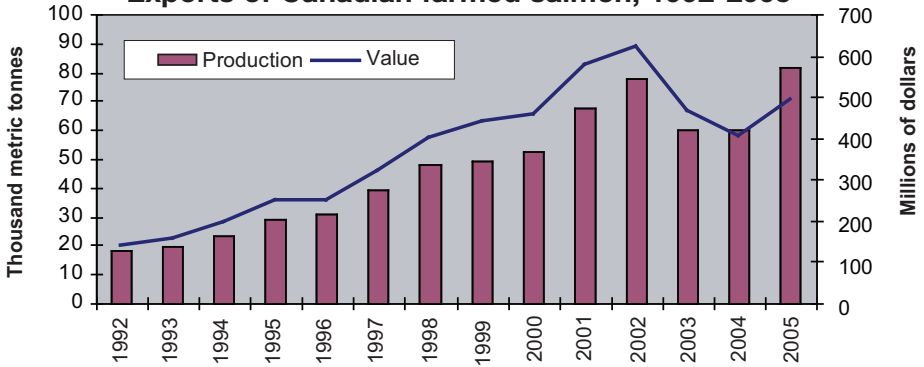
1. Data are experimental, subject to revision and should be used with caution. These data include full-time, part-time and temporary employees but exclude self-employed workers and the Prairie Provinces.

Employment and salary for aquaculture operations



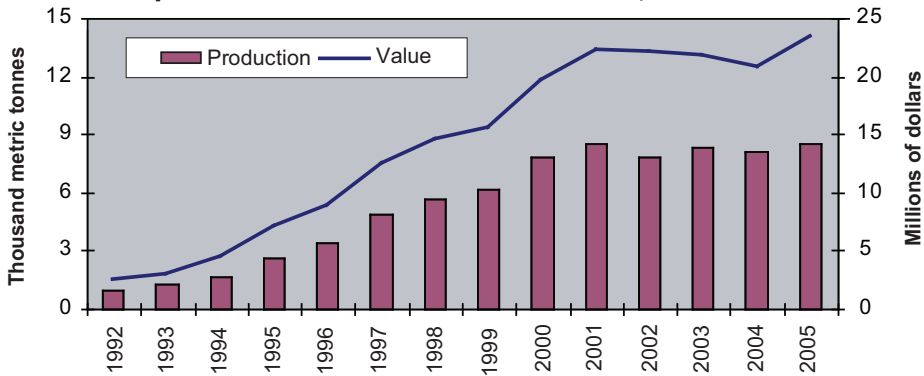
Source: Agriculture Division, Statistics Canada.

Exports of Canadian farmed salmon, 1992-2005



Year	Tonnes	Millions \$	Year	Tonnes	Millions \$	Year	Tonnes	Millions \$
1992	18,410	136.8	1997	39,304	319.9	2002	77,711	619.6
1993	19,526	153.7	1998	48,141	397.9	2003	59,870	467.2
1994	23,197	194.8	1999	49,602	438.8	2004	60,158	401.0
1995	29,215	246.0	2000	52,743	457.0	2005	81,539	491.1
1996	30,876	248.3	2001	67,540	576.9			

Exports of Canadian farmed mussels, 1992-2005



Year	Tonnes	Millions \$	Year	Tonnes	Millions \$	Year	Tonnes	Millions \$
1992	971	2.5	1997	4,897	12.4	2002	7,848	22.0
1993	1,230	2.9	1998	5,709	14.4	2003	8,378	21.7
1994	1,677	4.4	1999	6,192	15.4	2004	8,104	20.7
1995	2,622	7.0	2000	7,829	19.6	2005	8,538	23.4
1996	3,440	8.7	2001	8,516	22.3			

1. In 2005, over 89% of farmed salmon and almost entire amount of farmed mussels were exported to the USA.

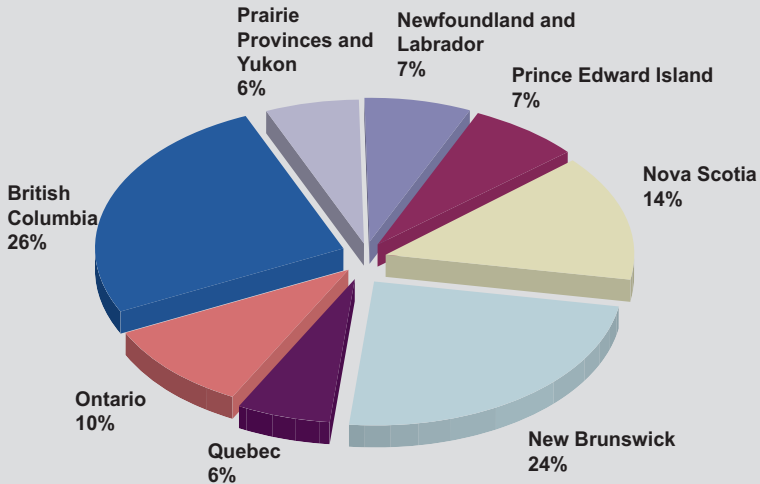
Source: Aquaculture Statistics, 2005, Catalogue no. 23-222-XIE, Statistics Canada.

Aquaculture licences¹, 2004

	NL	PEI	NS	NB	QC	ON	MB ²	SK	AB	BC	YU ³	CAN
Commercial/ developmental	190	213	384	694	184	290	44	16	84	704	39	2,842
Marine finfish	89	0	55	97	0	0	0	0	0	132	0	373
Marine shellfish	84	213	327	485	41	0	0	0	0	477	0	1,627
Marine plants	0	0	0	1	0	0	0	0	0	5	0	6
Marine sea urchins	0	0	2	0	6	0	0	0	0	0	0	8
Marine lobster pounds	0	0	0	6	0	0	0	0	0	0	0	6
Total marine	173	213	384	589	47	0	0	0	0	614	0	2,020
Total freshwater finfish	17	0	0	105	137	290	44	16	84	90	39	822
Total finfish	106	0	55	202	137	290	44	16	84	222	39	1,195
Recreational/ private	0	0	0	106	0	0	0	NA	3,624 ⁴	0	0	3,730
Institutional/ Research	16	0	0	0	10	0	0	0	NA	0	0	26
Total	206	213	384	810	184	290	44	16	3,708	704	39	6,598

1. Aquaculture licence refers to permits issued to operate an aquaculture operation.
2. Data are for the year of 2003. Number of licensed operators was 25; 44 licenses issued for sites/ water bodies.
3. For 2002.
4. Includes farm dugouts and ponds.

Percentage of commercial/developmental licences by province, 2004

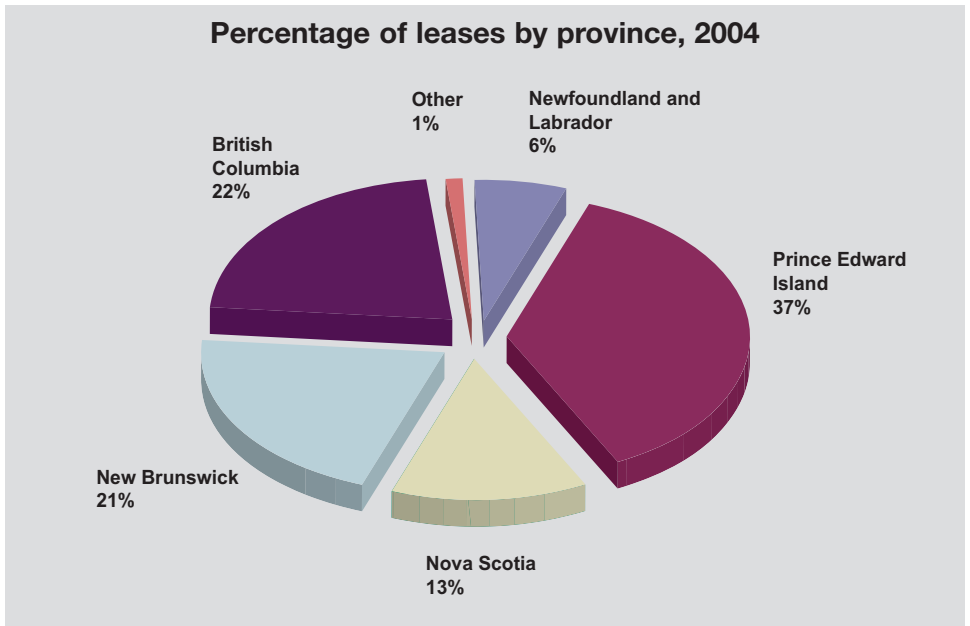


Source: Provincial departments responsible for aquaculture.

Aquaculture leases¹, 2004

	NL	PEI	NS	NB	QC	ON	MB ²	SK	AB	BC	YU ³	CAN
Marine finfish	61	0	55	99	0	0	0	0	0	129	0	344
Marine shellfish	80	1,073	327	484	23	0	0	0	0	475	0	2,462
Marine plants	1	0	0	1	0	0	0	0	0	4	0	6
Marine sea urchins	2	0	2	0	6	0	0	0	0	0	0	10
Marine lobster pounds	0	0	0	23	0	0	0	0	0	0	0	23
Total marine	144	1,073	384	607	29	0	0	0	0	608	0	2,845
Freshwater finfish	17	0	0	4	1	8	0	1	0	17	0	48
Total	161	1,073	384	611	30	8	0	1	0	625	0	2,893

1. Lease refers to the areas where aquaculture facilities are permitted to operate. Terms other than lease are used to identify property rights including Land Use Permit and Permit or Licence to Occupy.
2. For 2003.
3. For 2002.

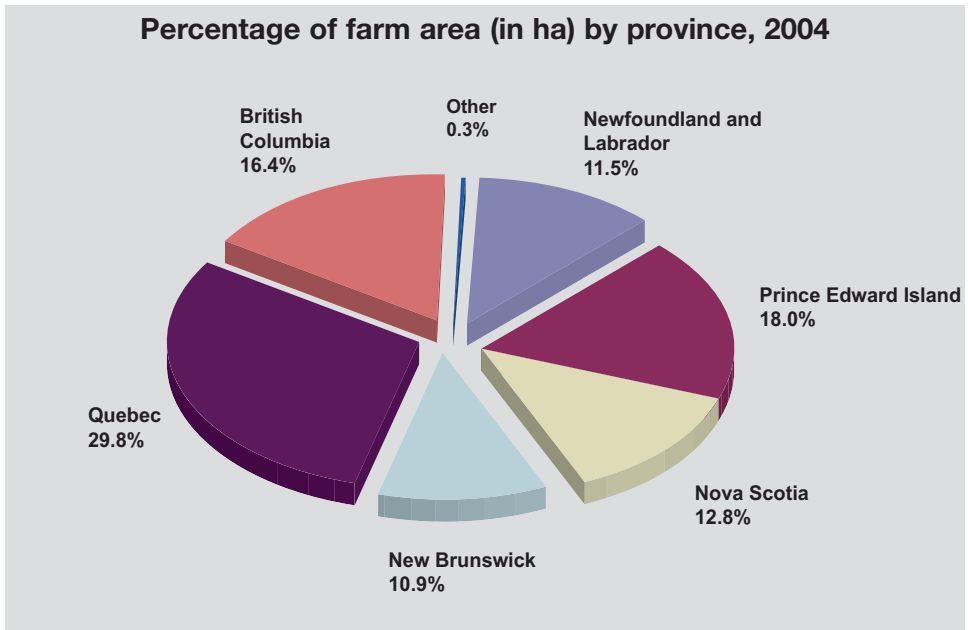


Source: Provincial departments responsible for aquaculture.

Aquaculture area¹ (hectare), 2004

	NL	PEI	NS	NB	QC	ON	MB ²	SK	AB	BC	YU ³	CAN
Marine finfish	745	0	280	1,581	0	0	0	0	0	3,591	0	6,197
Marine shellfish	3,822	7,543	4,945	2,790	11,835	0	0	0	0	2,990	0	33,925
Marine plants	1	0	0	4	0	0	0	0	0	4 ⁴	0	48
Marine sea urchins	80	0	3	0	359	0	0	0	0	0	0	442
Marine lobster pounds	0	0	0	61	0	0	0	0	0	0	0	61
Total marine	4,648	7,543	5,228	4,436	12,194	0	0	0	0	6,585	0	40,634
Freshwater finfish	58	0	0	23	2	24	0	80	0	115 ⁵	0	302
Total	4,706	7,543	5,228	4,459	12,196	24	0	80	0	6,700	0	40,936

1. Area refers to Crown Land area only and represents the total area leased for aquaculture as opposed to the intensively used area.
2. For 2003.
3. For 2002.
4. Includes areas only for marine plant aquaculture; other marine plant aquaculture operations are included in finfish and shellfish areas.
5. Includes Crown Land tenure area only; data on areas for freshwater finfish aquaculture on private land were not available.



Source: Provincial departments responsible for aquaculture.

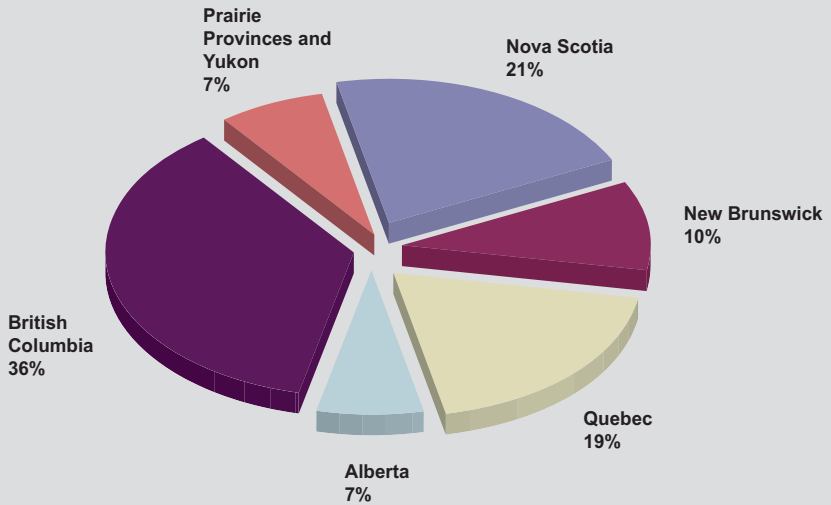
Commercial aquaculture hatcheries, 2004

	NL	NS	NB	QC	ON	MB ¹	SK	AB	BC	YU ²	CAN
Finfish	5	37	21	37	NA	3	5	15	64	2	189
Shellfish	0	5	0	1	0	0	0	0	8	0	14
Total	5	42	21	38	0	3	5	15	72	2	203

1. For 2003

2. For 2002

Percentage of commercial hatcheries by province, 2004



Source: Provincial departments responsible for aquaculture.

ABBREVIATIONS FOR PROVINCES AND TERRITORIES

NL	- Newfoundland & Labrador
NS	- Nova Scotia
PEI	- Prince Edward Island
NB	- New Brunswick
QC	- Quebec
ON	- Ontario
MB	- Manitoba
SK	- Saskatchewan
AB	- Alberta
BC	- British Columbia
YU	- Yukon Territory

PROVINCIAL DEPARTMENTS RESPONSIBLE FOR AQUACULTURE

Newfoundland and Labrador Department of Fisheries and Aquaculture
Prince Edward Island Department of Agriculture, Fisheries and Aquaculture
Nova Scotia Department of Agriculture—Fisheries and Aquaculture
New Brunswick Department of Agriculture and Aquaculture
Ministère de l’Agriculture, des Pêcheries et de l’Alimentation du Québec
Ontario Ministry of Natural Resources
Manitoba Water Stewardship, Fisheries Branch
Saskatchewan Department of Environment
Alberta Agriculture, Food and Rural Development
British Columbia Ministry of Agriculture and Lands—Fisheries and Aquaculture
Environment Yukon