

# AUSTRALIAN **FISHERIES STATISTICS** 2004



abare

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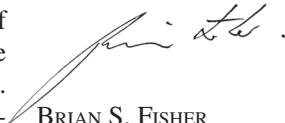
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# FOREWORD

*Australian Fisheries Statistics* is designed to meet the needs of the fishing industry and fisheries managers, policy makers and researchers. ABARE has been publishing detailed production and trade data in this series since 1991. The estimates of the gross value of production provided in the report are used for a range of purposes — for example, to determine Commonwealth, state and territory fisheries research funding arrangements each year.

This report contains data on the volume and value of production from state and Commonwealth fisheries, and on the volume and value of Australian fisheries trade, by destination, source and product, for the three years to 2003-04. The report also contains a profile of Commonwealth and state fisheries and state aquaculture for 2003-04, covering selected species, fishing method and number of licence holders.

*Australian Fisheries Statistics* is part of a suite of ABARE publications that provide a comprehensive account of historical trends in, and the outlook for, Australian fisheries. *Australian Commodity Statistics* provides a historical series of production and trade statistics for fisheries and a range of other commodities. *Australian Commodities* includes forecasts for major fisheries commodities that are updated each quarter. Detailed analysis of the economic performance of selected fisheries is provided in the annual *Australian Fisheries Surveys Report*.



BRIAN S. FISHER  
*Executive Director*

February 2005

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# CONTENTS

## Production and trade

key features and estimates of employment and recreational fishing catch	1
Gross value of production – overview	1
State and territory fisheries	2
Commonwealth fisheries	3
Aquaculture	4
Exports of fisheries products	4
Value of exports	4
Exports, by destination	5
Exports, by state	5
Imports of fisheries products	6
Value of imports	6
Imports, by source	7
Employment	7
Recreational fishing	10
References	12

## Australian fisheries

2004 profile	13
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## Statistical tables

### Production

1	Gross value of Australian fisheries production	19
2	Wild caught fisheries production	20
3	Australian fisheries production in 2001-02, by state	21
4	Australian fisheries production in 2002-03, by state	22
5	Australian fisheries production in 2003-04, by state	23
6	Australian fisheries production in 2003-04, by location of catch	24
7	New South Wales fisheries production	25
8	Victorian fisheries production	26
9	Queensland fisheries production	27
10	Western Australian fisheries production	28
11	South Australian fisheries production	29
12	Tasmanian fisheries production	30

13	Northern Territory fisheries	31
14	Commonwealth fisheries production	32
15	Australian aquaculture production in 2001-02, by state	35
16	Australian aquaculture production in 2002-03, by state	36
17	Australian aquaculture production in 2003-04, by state	37

## Exports

18	Australian exports of fisheries products	38
19	Australian exports of fish	39
20	Australian exports of crustaceans and molluscs	40
21	Australian exports of edible fish, by destination	41
22	Australian exports of crustaceans, by destination	43
23	Australian exports of molluscs, by destination	45
24	Australian exports of fisheries products, by destination	46
25	Australian exports of seafood to selected countries, by product	47
26	Australian seafood exports in 2001-02, by state	49
27	Australian seafood exports in 2002-03, by state	50
28	Australian seafood exports in 2003-04, by state	51

## Imports

29	Australian imports of fisheries products	52
30	Australian imports of fish	53
31	Australian imports of crustaceans and molluscs	54
32	Australian imports of edible fish, by source	55
33	Australian imports of fresh, chilled or frozen fish, by source	57
34	Australian imports of dried, salted or smoked fish, by source	59
35	Australian imports of canned fish products, by source	60
36	Australian imports of crustaceans and molluscs, by source	61
37	Australian imports of fisheries products, by source	63
38	Australian seafood imports from selected countries, by product	64

# DEFINITIONS

## and explanations

### Definitions

Aquaculture production is the liveweight quantity of product produced and marketed by aquaculturists.

Aquaculture value is the assessed value received by aquaculturists on the basis of an at 'farm gate' equivalent, for product marketed.

Export quantity data are supplied by the Australian Bureau of Statistics on the basis of the net product weight exported.

Export value data are supplied by the Australian Bureau of Statistics on the basis of free on board value.

Import quantity data are supplied by the Australian Bureau of Statistics on the basis of the net product weight imported.

Import value data are supplied by the Australian Bureau of Statistics on the basis of product cost plus insurance and freight.

Production quantity is a measure of the quantity of fish product landed by fishery, usually on the basis of catch records.

Production value is the assessed value at the point of landing for the quantity produced and excludes transport and marketing costs.

Products consist of fisheries products marketed for human consumption plus nonedible fisheries products.

Seafood is any fish or other aquatic plant or animal intended for human consumption; it excludes nonedible fisheries products.

### Southern bluefin tuna

Southern bluefin tuna sold from farms in South Australia are reported at their full market value. However, the input value of those tuna is also included as an output from the Commonwealth southern bluefin tuna fishery. To avoid double counting, the input value is netted out of Australian totals.

### Rounding

Small discrepancies in totals are generally caused by the rounding of components. A dash (–) is used to denote a nil or negligible amount.

### Abbreviations and symbols

kg	kilogram
t	tonne
kt	kilotonne
\$	dollar (Australian)
\$'000	thousand dollars (Australia)
\$m	million dollars (Australian)
fob	free on board
ABARE	Australian Bureau of Agricultural and Resource Economics
AFZ	Australian Fishing Zone
na	Not available
nei	Note elsewhere included

# PRODUCTION AND TRADE

key features and estimates of employment and recreational fishing catch

Dana Hanna

## In 2003-04...

- The value of Australian fisheries production fell by 5 per cent to \$2.2 billion, while the volume of production increased by 5 per cent to 267 000 tonnes.
- The value of Australian exports of fisheries products fell by 10 per cent to \$1.7 billion, while the volume of edible product exports fell by 3 per cent to 58 500 tonnes.
- The value of Australian imports of fisheries products fell by 8 per cent to \$1.1 billion, whereas the volume of edible imports increased by 14 per cent to 188 000 tonnes.

## Gross value of production

tables 1-17

## Overview

### Quantity and value

Australian fisheries production rose by 5 per cent in 2003-04 to 267 000 tonnes (tables 4, 5). However, with falling unit values for many species, the gross value of fisheries production fell by 5 per cent to \$2.2 billion. The gross value of products from all three sectors — state wild caught, state aquaculture and Commonwealth wild caught — fell from 2002-03 to 2003-04. The total value of production from state wild catch fisheries fell from \$1.23 billion in 2002-03 to \$1.15 billion in 2003-04, while Commonwealth wild catch fell from \$0.41 billion to \$0.34 billion (table 1). The value of state aqua-

culture production fell by less than 1 per cent to \$0.73 billion in 2003-04.

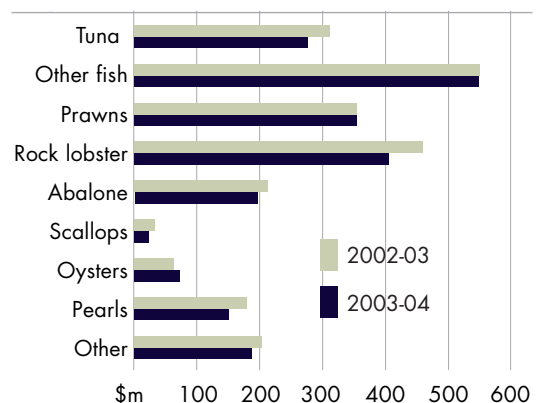
The value of Australian fisheries production in 2002-03 and 2003-04 is shown in figure A. Rock lobster continues to be the highest value individual catch.

### Australian dollar

In 2003-04 the Australian dollar continued to appreciate relative to the US dollar (by 22 per cent) and the Japanese yen (by 13 per cent). This appreciation was greater than that experienced from 2001-02 to 2002-03 (when the Australian dollar appreciated by 11 per cent relative to the US dollar and by 6 per cent relative to the Japanese yen).

Australia is a small producer of fish, and so the export prices received by Australian producers are set in world markets. Other things being equal, an appreciating Australian dollar results

## A Value of Australian fisheries products





in lower export prices in Australian dollar terms. This explains a large part of the fall in the unit value of many of the fisheries products in 2003-04.

### Aquaculture's share

The real value of aquaculture production has increased over the past decade from \$494 million in 1994-95 (in 2003-04 dollars) to \$732 million in 2003-04. This represents an average annual rate of growth of 4 per cent, although the real gross value of production has fallen in the past two years. The gross value of aquaculture continues to gain importance in fisheries production around Australia, contributing 34 per cent of total fisheries gross value of production in 2003-04.

### State and territory fisheries

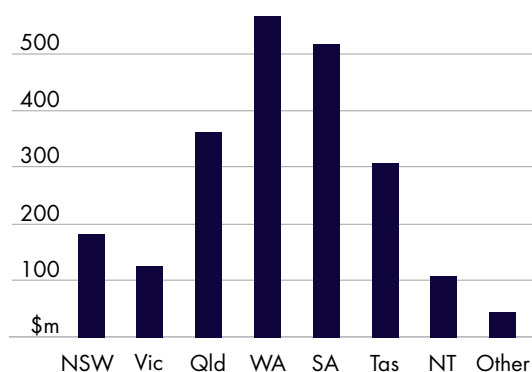
The gross value of Australian fisheries production in 2003-04, by state and location of catch, is given in tables 3-6 and figure B.

Western Australia and South Australia each accounted for around a quarter of Australian production in 2003-04. South Australia's share has grown significantly since 1994-95 (figure C), based on strong growth in aquaculture production.

### New South Wales

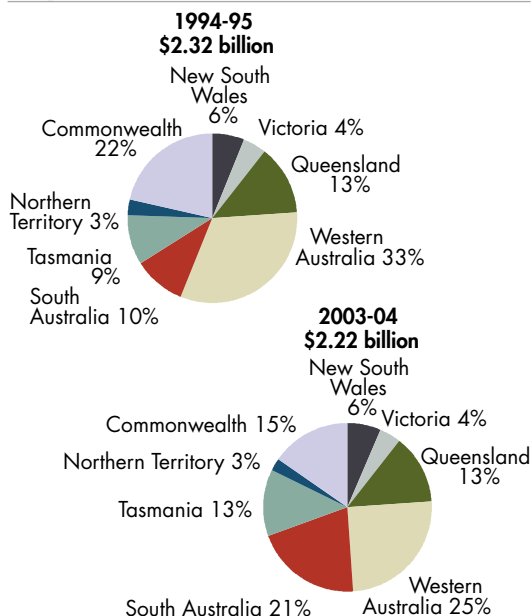
The gross value of fisheries production in New South Wales fell from \$153 million in 2002-

**B Value of Australian fisheries products**  
by location, 2003-04



### C Shares of the value of fishery production

In 2003-04 dollars



03 to \$139 million in 2003-04 (table 7). While the volume of wild caught fisheries products increased slightly in 2003-04, falling average prices led to a fall in the value of wild caught production from \$104 million in 2002-03 to \$89.7 million in 2003-04. In particular, the value of wild caught prawn production fell by \$7.8 million in 2003-04 to \$23.3 million.

The gross value of aquaculture production increased from \$48.6 million in 2002-03 to \$49.6 million in 2003-04, largely as a result of a \$3.2 million increase in the value of oyster production.

### Victoria

The total value of fisheries production in Victoria fell from \$109 million in 2002-03 to \$95 million in 2003-04 (table 8). The fall in value was caused by both a fall in wild caught and aquaculture production for most species and declining average prices.

Farmed abalone production in Victoria increased by almost 80 tonnes in 2003-04 despite falling prices and continued to receive a slightly higher average price than wild caught abalone.

## Queensland

The total value of fisheries production in Queensland rose from \$288 million in 2002-03 to almost \$295 million in 2003-04 (table 9). While the volume of wild caught production increased by 7 per cent in 2003-04, the value of production increased by only around 2 per cent.

Aquaculture production rose for all species except jade perch, for which production fell from 49 tonnes in 2002-03 to 35 tonnes in 2003-04.

## Western Australia

The gross value of fisheries production in Western Australia fell from \$582 million in 2002-03 to \$553 million in 2003-04 (table 10). The total value of wild caught production fell by \$29 million to \$396 million in 2003-04, primarily because of falling average prices of rock lobster.

The total value of aquaculture production rose slightly as the increased value of production of mussels and fish offset the drop from ababbies.

## South Australia

From 2002-03 to 2003-04, the total value of fisheries production in South Australia fell from \$497 million to \$460 million (table 11). While wild caught production increased strongly (35 per cent) in 2003-04, falling prices meant that the value of production fell (7 per cent).

Aquaculture production increased from 13 700 tonnes in 2002-03 to 15 400 tonnes in 2003-04. However, average beach prices (for whole fish excluding freight and marketing costs) for farmed southern bluefin tuna fell by around 11 per cent between 2002-03 and 2003-04, reducing the value of aquaculture production in South Australia by \$25 million.

## Tasmania

The gross value of wild caught fisheries production in Tasmania fell from \$161 million in 2002-03 to \$146 million in 2003-04 (table 12). In large part this was attributable to the lower average prices of rock lobster in 2003-04.

The value of aquaculture production increased in 2003-04 from \$123 million to nearly \$133

million, mainly due to increased salmonid production.

## Northern Territory

The gross value of fisheries production in the Northern Territory increased from \$55 million in 2002-03 to \$59 million in 2003-04 (table 13). This was driven by the increase in the value of aquaculture (including pearls), up by \$6 million in 2003-04 to \$28 million, offsetting the big falls in wild mollusc and crustacean catches.

## Commonwealth fisheries

### Major trends

While the total production from the Commonwealth wild caught fisheries has increased slightly over the past three years, the value of output from these fisheries has fallen significantly (table 14). Like the trends seen in the state fisheries, this is largely a result of falling world prices and an appreciating Australian dollar in 2003-04.

The northern prawn fishery continued to be Australia's most valuable Commonwealth managed fishery, worth around \$74 million in 2003-04. The south east trawl fishery and eastern tuna and billfish longline and minor line fisheries were the next two most valuable fisheries, worth \$54 million and \$47 million respectively.

While production in the northern prawn fishery increased by 9 per cent, the gross value of production fell from almost \$83 million in 2002-03 to \$74 million in 2003-04.

The gross value of product in the south east trawl fishery fell from nearly \$66 million in 2002-03 to \$54 million in 2003-04, reflecting both smaller harvests and lower average prices. There was a fall in the wild caught harvest and gross value of production in all three major tuna fisheries.

The gross value of production in the eastern tuna and billfish fishery fell from \$68 million in 2002-03 to under \$47 million in 2003-04, while in the southern and western tuna and billfish fishery it fell from \$20 million to \$8.3 million, and in the southern bluefin tuna fishery it fell from \$78 million to \$38 million in 2003-04.

## Aquaculture

The value of Australian aquaculture production rose strongly in real terms (2003-04 dollars) over the mid-late 1990s but leveled out in the new century (figure D). With a fall in world prices and an appreciating Australian dollar, the value of Australian aquaculture fell in 2003-04.

### Major trends

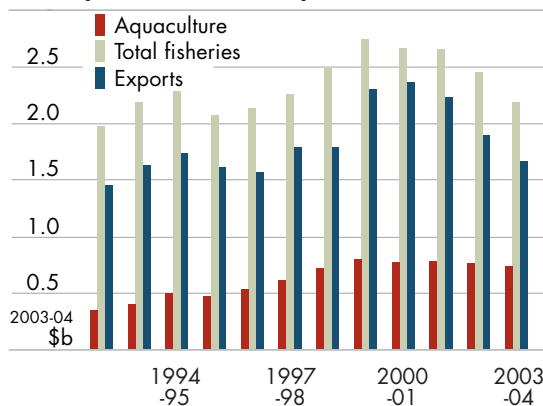
For the Northern Territory, and all states except South Australia, the value of aquaculture production increased moderately in 2003-04 (tables 15–17). As noted earlier, although farmed tuna production rose in South Australia, prices fell, resulting in the value of aquaculture production in that state falling by 8 per cent. The value of production increases in the other states in 2003-04 largely reflected increased production of high value species such as abalone (Victoria) and salmonids (Tasmania). However, like their wild caught counterparts, the prices of these species fell in 2003-04.

## Exports of fisheries products

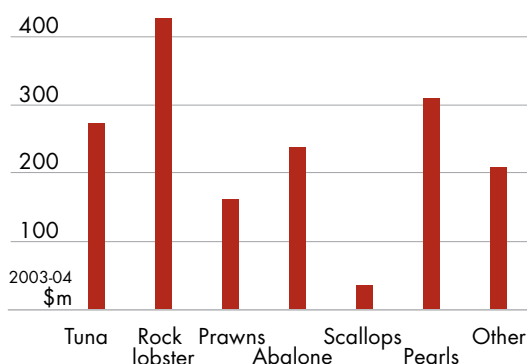
tables 18–28

The total value of Australian exports of fisheries products trended upwards in real terms from the mid 1990s until 2000-01 but has since declined (figure D).

### D Real value of Australian fisheries production and exports



### E Value of Australian fisheries exports, 2003-04



In 2003-04, rock lobster continued to be the most valuable Australian fisheries product export, followed by pearls and tuna (figure E).

## Value of exports

### Export value, by sector

Australia's total exports of fisheries products in 2003-04 were valued at around \$1.65 billion. Approximately 80 per cent of total exports were of edible fisheries products such as rock lobster, tuna, abalone and prawns. The remaining 20 per cent of exports were nonedible fisheries products such as pearls, fish meal and marine fats and oils. Pearls are the dominant nonedible export product, by value.

The total value of Australian fisheries exports fell by 10 per cent from 2002-03 to 2003-04. This fall was driven primarily by the fall in value of exports of edible fisheries products (11 per cent to \$1.3 billion), while nonedible product exports fell by 8 per cent to below \$333 million. The drop in edible export value in 2003-04 was mainly caused by a 9 per cent or \$90 million fall in the value of crustacean and mollusc exports. Exports of finfish also fell, by \$75 million or 16 per cent.

The value of exports to a number of Asian markets such as China, Chinese Taipei and Japan have not recovered to pre-SARS levels, with the volume of exports falling slightly and the value of exports being affected by falling

world prices and the appreciation of the Australian dollar. However, exports of some products recovered in 2003-04, with the value of exports of abalone and scallops increasing by around 10 per cent and 22 per cent respectively.

The decline in nonedible exports was driven by a 7 per cent fall in the value of pearl exports to \$310 million.

### Edible fisheries exports

The principal edible fisheries exports in 2003-04 continued to be rock lobster (\$427 million), tuna (\$273 million), abalone (\$238 million) and prawns (\$161 million).

Tuna exports dominate finfish products, constituting around two thirds of the finfish export value. The value of tuna exports fell by \$48 million or 15 per cent in 2003-04 to \$274 million. The average per unit value of all tuna species fell in 2003-04. Southern bluefin tuna exports fell from \$267 million in 2002-03 to \$243 million in 2003-04. In part this was caused by a fall in the tonnage of frozen product exports, as the frozen product receives a higher price than fresh or chilled product.

Salmon exports also declined substantially in value, falling from \$12.1 million in 2002-03 to \$4.2 million in 2003-04.

## Exports, by destination

### Main markets for seafood

Japan continues to be Australia's main export market for edible fisheries products (table 24). In 2003-04 around 38 per cent of edible fisheries products, valued at \$489 million, were exported to Japan. This is a fall of 22 per cent from 2002-03, when exports of edible fisheries products were worth \$628 million. Hong Kong and the United States were the next largest destinations, taking edible fisheries products exports valued at \$381 million and \$126 million respectively in 2003-04.

The majority of Japan's imports of edible fish from Australia (table 25) were of tuna products valued at \$267 million (down 14 per cent from 2002-03). Exports to Hong Kong were again mainly rock lobster, valued at \$158

million. Rock lobster was also the major product exported to the United States, valued at \$94 million.

Primary markets for Australia's exports of finfish products are Japan for tuna and salmon and Thailand for whiting. Japan took over 98 per cent of all tuna products (excluding canned) in 2003-04 and over 62 per cent of salmon exports (excluding canned). Thailand imported over 46 per cent of whiting products. The majority of canned finfish products were exported to New Zealand, with New Zealand taking 87 per cent of all canned tuna exports, and 97 per cent of all canned salmon exports.

Hong Kong and Japan continue to be the primary export markets for Australia's exports of crustacean and mollusc products in 2003-04, taking \$360 million and \$202 million respectively. Together they account for 62 per cent of all crustacean and mollusc (shellfish) exports out of Australia. The United States and Chinese Taipei took a further 19 per cent or \$171 million in shellfish exports in 2003-04.

The vast majority of shellfish exports to Hong Kong were of rock lobster (41 per cent) and abalone (37 per cent). Exports of shellfish to Hong Kong increased in 2003-04 for all products except prawns. Tuna accounted for the majority of Australian seafood exports to Japan in 2003-04, representing 55 per cent or \$267 million (down from \$311 million in 2002-03). Rock lobster exports accounted for 16 per cent of seafood exports to Japan.

### Main markets for nonedible fisheries products

The principal markets for nonedible fisheries products (table 24) in 2003-04 were Hong Kong (\$171 million), Japan (\$37 million) and the United States (\$29 million). Other markets for nonedible products included New Zealand, the United Kingdom and Germany.

## Exports, by state

### Principal exporters

South Australia and Queensland are the main exporters of finfish, while South Australia and

Western Australia are the main exporters of crustaceans (tables 26–28). Of the value of total edible fisheries products exported, South Australia provided 30 per cent, Western Australia 28 per cent and Queensland 18 per cent in 2003-04.

## Imports of fisheries products

tables 29–38

### Value of imports

#### Import value, by sector

Australia imported \$1.1 billion of fisheries products in 2003-04, a decrease of \$95 million from 2002-03 (table 29). Almost 82 per cent (\$905 million) of the gross value of imports was edible fisheries products, consisting of finfish, crustaceans and molluscs and in particular frozen finfish fillets, prawns and canned fish. The value of imports of edible fisheries products fell by 5 per cent in 2003-04.

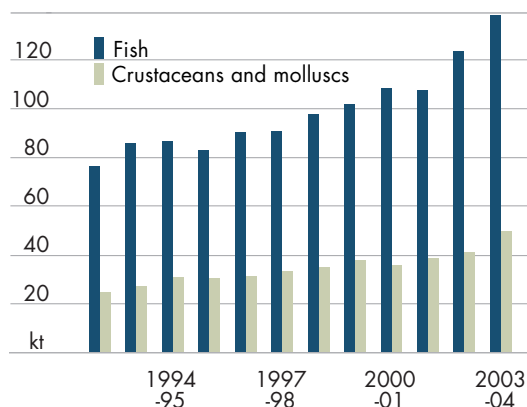
The remaining \$201 million of imports consisted of nonedible fisheries products, which included pearls, fish meal, marine fats and oils and ornamental fish. The value of nonedible fisheries exports fell by 20 per cent from 2002-03 to 2003-04.

#### Imports of edible fisheries products

In 2003-04, 49 per cent (\$545 million) of the total value of fisheries products imports were edible finfish products, while crustaceans and molluscs made up 33 per cent (\$360 million). The largest categories of edible finfish imports in value terms were frozen fish fillets (\$194 million, 36 per cent of edible finfish imports) and canned fish (\$179 million, 33 per cent). Crustacean and mollusc imports consisted mainly of prawns, valued at \$184 million, followed by calamari, squid and octopus imports, valued at \$49 million and scallops valued at \$22 million.

Australia imports relatively large volumes of low value fish and crustaceans (figure F), and exports relatively small volumes of high value fish and crustaceans. In product weight terms, fish imports in 2003-04 were over three times that of exports, but the average unit value of

## F Volume of Australian seafood imports



exported fish was almost five times the value of imported fish products.

### Nonedible fisheries products imports

Nonedible fisheries products imported into Australia in 2003-04 consisted of pearls, fish meal, marine fats and oils and ornamental fish. Of these imports (with a total value of \$201 million in 2003-04), the bulk was accounted for by pearls (\$145 million), followed by fish meal and marine fats and oils (\$19 million and \$9 million respectively).

### Trends in quantity imported

Over the decade from 1994-95, the total quantity of Australian seafood imports increased by 60 per cent. Finfish and shellfish imports both increased by 60 per cent.

In 2003-04 the quantity of imports of edible fisheries products into Australia increased by 14 per cent from the previous year. Imports of finfish increased in volume by 12 per cent in 2003-04, mainly because of an increase in the volume of canned fish.

Imports of crustaceans and molluscs increased in volume by 21 per cent in 2003-04, mainly because of the 44 per cent increase in the volume of prawns imported.

## Imports, by source

### Seafood

Thailand and New Zealand continue to dominate as the major source of edible fisheries products imported into Australia, accounting for around 43 per cent of total edible imports (table 37). Imports from Thailand made up 24 per cent of edible products by value (\$222 million), followed by 19 per cent from New Zealand (\$168 million). The remainder of edible imports originated from a number of countries including Viet Nam (\$85 million), China (\$69 million), India (\$38 million) and South Africa (\$34 million). Imports from China increased by 55 per cent, mainly reflecting increases in prawn imports.

Over 57 per cent of Australia's imports of canned fish and 16 per cent of canned crustacean and molluscs in 2003-04 were sourced from Thailand (tables 35, 36). New Zealand was the source of almost 40 per cent of Australian imports of fresh, chilled or frozen fish products (valued at \$100 million), 27 per cent of fresh, chilled and frozen molluscs (\$21 million) and 33 per cent of canned crustacean and mollusc imports (\$9.2 million).

Almost 20 per cent of dried and salted fish were imported from Norway (\$1.8 million), while almost 70 per cent of Australia's smoked fish imports (\$15 million) were sourced from Denmark (table 34).

### Nonedible fisheries products

Australia's imports of nonedible fisheries products are sourced from a wide range of countries (table 37). Around 21 per cent of all nonedible fisheries products imported by Australia in 2003-04 were sourced from four countries — New Zealand (\$12 million), Peru (\$16 million), the United States (\$8.3 million) and Indonesia (\$6.2 million). The value of nonedible imports from each of these countries fell compared with the previous year.

## Employment

Historically, employment data for the fishing industry has been collected by the Australian Bureau of Statistics (ABS). The data collected by the ABS is gathered from the population census survey and thus is collected every five years. However, the Fisheries Research and Development Corporation has stated that 'data collected by the Australian Bureau of Statistics is not disaggregated in sufficient detail to be very useful, and tends to underrecord employees, including through attribution to other industries such as transport and generalised food processing' (FRDC 2004). While information on the processing industry is collected annually by the ABS from the manufacturing census, the ABS has been unable to publish these data since 2001-02 because of methodological problems (ABS, personal communication, December 2004).

The most recently available ABS employment data for the Australian fishing industry is shown in table A.

To provide additional information on employment, ABARE has collated available data from its fishery survey data for the Commonwealth fisheries, and from the states and Northern Territory, where available (table B). ABARE undertook a census of seafood processors in January 2005. This information is also presented in the table.

The differences in definitions of employment between the states and sectors means that a total number of employees cannot be estimated. However, it appears that estimates for employment in the Australian fisheries industry gathered by ABARE are larger than those given by the ABS in August 2001. In part this may reflect increases in activity over the four years.



## A ABS estimates of employment in the Australian fishing industry

As at August 2001

	New South Wales	Victoria	Queensland	Western Australia	South Australia
	no.	no.	no.	no.	no.
Marine fishing	331	125	390	245	237
Rock lobster fishing	54	145	70	722	221
Prawn fishing	223	6	472	150	109
Finfish trawling	93	26	90	27	40
Squid jigging	3	6	0	0	3
Line fishing	12	6	31	10	26
Aquaculture	926	320	592	601	764
Fish wholesaling	1 333	856	1 473	742	583
Seafood processing	303	269	377	239	457
Commercial fishing, undefined	724	311	816	493	459

	Tasmania	Northern Territory	Australian Capital Territory	Other Territories	Australia
	no.	no.	no.	no.	no.
Marine fishing	224	59	0	0	1 611
Rock lobster fishing	242	5	0	0	1 459
Prawn fishing	0	80	0	0	1 040
Finfish trawling	9	3	0	0	288
Squid jigging	0	0	0	0	12
Line fishing	3	3	0	0	91
Aquaculture	846	166	6	0	4 221
Fish wholesaling	455	79	19	0	5 540
Seafood processing	545	20	3	0	2 213
Commercial fishing, undefined	249	94	6	0	3 152

## B Estimated employment in the Australian fishing industry

	Employees	Notes
	no.	
<b>Wild catch</b>		
Commonwealth	1 984	Average number of crew multiplied by estimated number of active vessels in Commonwealth fisheries. This information does not include offshore employees. Vessels known to operate in both Commonwealth and state waters are not included. <i>Source:</i> ABARE
New South Wales	2 205	The number of commercially licensed fishers. It is uncertain how many of these fishers are full time versus part time employees. <i>Source:</i> NSW fisheries dept.
Victoria	na	Information not available.
Queensland	2 868	Full time labor equivalents <i>Source:</i> QDPI
Western Australia	3 299	Estimated total number of crew including skipper. <i>Source:</i> WA Department of Fisheries

continued...

## B Estimated employment in the Australian fishing industry *continued*

	Employees	Notes
	no.	
<b>Wild catch</b> <i>continued</i>		
South Australia	na	Information not available.
Tasmania	3 892	It is uncertain how many of these fishers are full time versus part time employees. <i>Source:</i> Tasmanian DPIWE
Northern Territory	481	It is uncertain how many of these fishers are full time versus part time employees. Information available for the mud crab fishery did not distinguish between fishers and processing employees. <i>Source:</i> NT DBIRD Fishery Status Reports 2003.
<b>Aquaculture</b>		
New South Wales	na	Information not available
Victoria	334	Includes 194 permanent and 150 casual employees. <i>Source:</i> Victorian Aquaculture Information Bulletin
Queensland	612	Full time labor equivalents. <i>Source:</i> Queensland Report to Farmers 2002/03
Western Australia	na	Information not available.
South Australia	1 614	Full time labor equivalents. <i>Source:</i> PIRSA
Tasmania	676	Includes 472 permanent and 204 casual employees. <i>Source:</i> DPIWE
Northern Territory	297	Includes 24 permanent and 8 casual employees in barramundi farms; 16 permanent and 7 full time labor equivalent employees on prawn farms; and 242 employees involved in spat collection, processing, marketing and trading of NT pearls. <i>Source:</i> NT DBIRD Fishery Status Reports 2003.
<b>Processing</b>		
New South Wales	125 FT 176 PT	ABARE undertook a census of seafood processors around Australia in January 2005. Of the 197 businesses found in the <i>Yellow Pages</i> , 52 were contacted and found to be ineligible (that is, not or no longer a seafood processor) and a further 36 businesses were unable to be contacted.
Victoria	82 FT 210 PT	
Queensland	113 FT 302 PT	
Western Australia	125 FT 627 PT	
South Australia	165 FT 174 PT	
Tasmania	176 FT 419 PT	
Northern Territory	na	There were no seafood processing businesses listed in the <i>Yellow Pages</i> for the Northern Territory



## Recreational fishing

The recreational fishing sector of the fishing industry is larger and more widely dispersed than in any other natural resource industry that supports a prominent commercial sector (FRDC 2004).

The large number of participants in this sport is increasingly leading to substantial catches being taken by the recreational fishing sector. In 2000-01, the National Recreational and Indigenous Fishing Survey was commissioned. Commonwealth and state agencies carried out the survey in the twelve months prior to May 2001 (Henry and Lyle 2003). The survey used telephone and diary survey methods to estimate the number of recreational fishers in each state and the extent of their activities. Data collected included catch levels, fishing mode and location, and expenditure data at a state level.

From this survey, it was estimated that 3.36 million people across Australia participated in recreational fishing over the twelve month period prior to May 2000. Fishing participation was dominated by males, with a participation rate twice that of females. The greatest number of fishers was in the 30-44 age group, though participation rates were highest among children in the 5-14 age group.

The predominant method of fishing across all states and territories was line fishing, while the majority of fishing events occurred in either estuarine or coastal waters.

### G Number of recreational fishers, 1999-2000



### C Recreational fishing – attributable expenditure, by state, 1999-2000

	Total	Per fisher
	\$m	\$
New South Wales	554	555
Victoria	396	721
Queensland	320	407
South Australia	148	452
Western Australia	338	706
Tasmania	52	416
Northern Territory	27	608

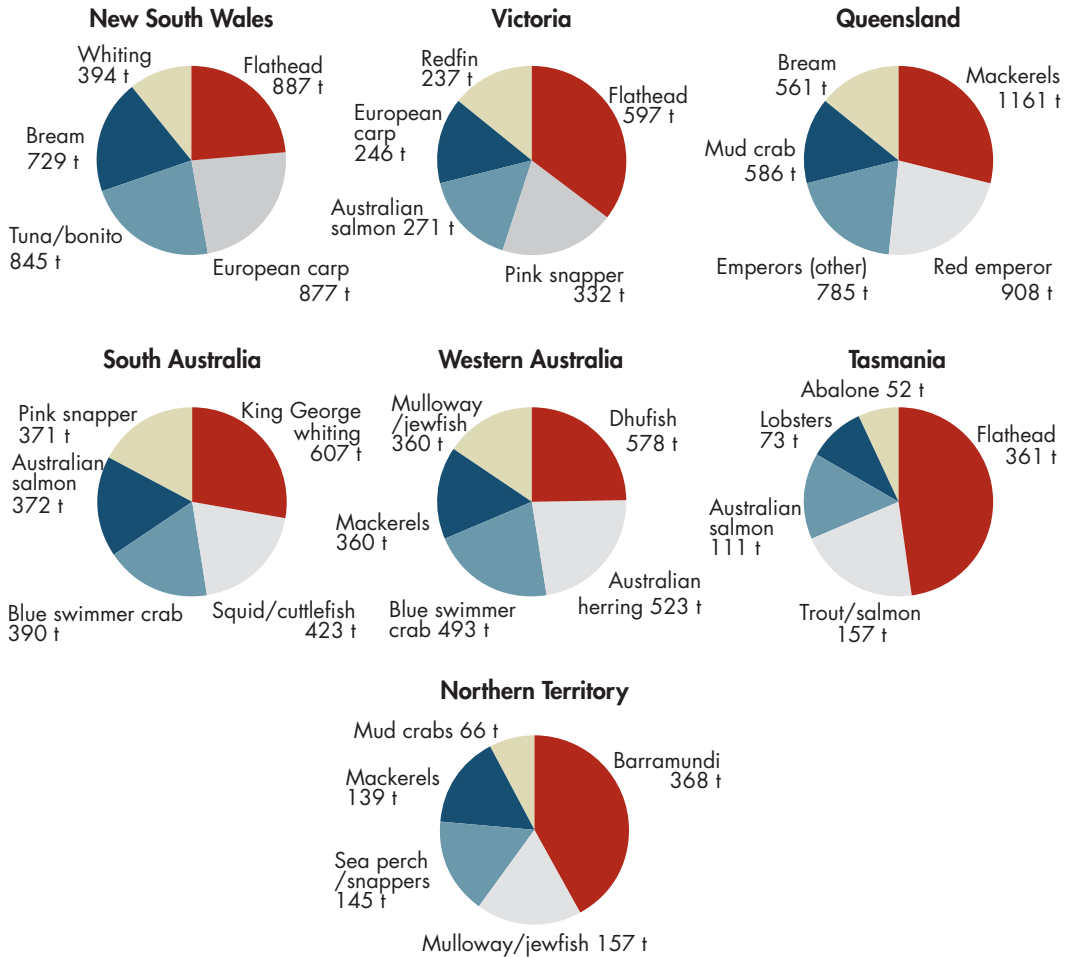
Source: Henry and Lyle (2003).

Estimated attributable expenditure on recreational fishing, by state, is shown in table C. This expenditure includes money spent during the survey period on both directly related fishing items, such as bait and boat hire, as well as indirect expense items such as travel and accommodation.

Recently, debate has increased on the allocation of fishery resources between various user groups, especially commercial and recreational fishers. Economic valuations of each of sector can assist this allocation process; however, two things should be noted about the estimates provided in this report. First, gross value of production is not a good proxy for an economic assessment of the economic value of commercial fishing, nor is recreational fishing expenditure a good proxy for an estimation of the economic value of recreational fishing. Second, gross value of production is not comparable with estimates of recreational fishing expenditure. For further information on economic valuation techniques and resource allocation see Hundloe (2002) and Galeano et al. (2004). Expenditure data on recreational fishing does provide an indication of the level of recreational fishing activity in Australia.

Major recreational catch species for each state are shown in figure H. While for New South Wales, Victoria, South Australia and Northern Territory finfish species were of greatest importance to recreational fishers, in Queensland, Western Australia and Tasmania, crustaceans and molluscs were a greater proportion of the recreational harvest.

## H Estimated recreational catches in Australia, 1999-2000



A recreational fishing licence is required for all recreational fishing in New South Wales. Victoria introduced an all-water recreational fishing licence in 1999; however, there are a number of categories entitling an exemption to holding a licence. In Western Australia recreational fishing licences are required for abalone, rock lobster, marron, net fishing and freshwater angling. Size and bag limits also apply for a majority of fish species caught. A recreational fishing licence is necessary in Tasmania for inland fishing, and for the collection of abalone and rock lobster. Seasonal closures and area and gear restrictions are used for many of the larger

recreational fisheries such as rock lobster, giant crab, abalone and scallops. Queensland, South Australia and the Northern Territory do not require recreational fishing licences; however, South Australia uses effort controls such as size limits, gear restrictions and area closures to regulate recreational catch, while the Northern Territory has fish possession limits for a number of species.

The Northern Territory and all states expect Tasmania undertake or have undertaken a number of recreational fishing surveys, based either on species or on individual fisheries. Details on these surveys and recreational fishing in

general can be found on the state/territory web sites listed in box 1. In particular Queensland has made available on their web site an interactive database (the Coastal Habitat Resources Information System or CHRIS) containing information on recreational species caught in Queensland.

### Box 1: Surveys and recreational fishing web sites

#### **New South Wales**

[www.nsw.fish.gov.au](http://www.nsw.fish.gov.au)

#### **Victoria**

[www.dpi.vic.gov.au](http://www.dpi.vic.gov.au)

#### **Queensland**

[www.dpi.qld.gov.au](http://www.dpi.qld.gov.au)

#### **South Australia**

[www.pir.sa.gov.au](http://www.pir.sa.gov.au)

#### **Western Australia**

[www.fish.wa.gov.au](http://www.fish.wa.gov.au)

#### **Tasmania**

[www.dpiwe.tas.gov.au](http://www.dpiwe.tas.gov.au)

#### **Northern Territory**

[www.fisheries.nt.gov.au](http://www.fisheries.nt.gov.au)

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- PIRVic (Primary Industries Research Victoria) 2003, *Fisheries Victoria Commercial Fish Production Information Bulletin 2003*, Queenscliff, Victoria.

# AUSTRALIAN FISHERIES

2004 profile

## Commonwealth

Fishery	Area	Species	Main fishing method	Number
Northern prawn	Gulf of Carpentaria from Cape York to Cape Londonderry	Banana, tiger, endeavour and king prawn	Otter trawling	96 vessels
Torres Strait	Torres Strait waters	Prawn, rock lobster, Spanish mackerel, pearl shell, trochus shell, and reef fish	Otter trawl, troll and dive	414 rock lobster 271 mackerel 125 pearl shell 70 prawn 136 sea cucumber 95 trochus 117 crab 239 line 151 net
South east trawl	Commonwealth waters from Barrenjoey Point NSW, around Tasmania to Cape Jervis SA	Mixed fish species particularly orange roughy, ling, blue grenadier, flathead, and warehou	Otter trawl and Danish seine	106 vessels
Gillnet, hook and trap fishery	Commonwealth waters off south Queensland, NSW, Victoria, Tasmania and SA	Mixed fish species particularly pink ling, blueeye trevalla, gummy shark	Demersal gillnet, demersal longline, dropline, trotline, trap and purse seine	205 vessels
Great Australian Bight	Commonwealth waters Between Cape Leeuwin WA and Kangaroo Island, SA	Deepwater flathead, orange roughy and Bight redfish	Demersal otter, and limited midwater trawl	10 vessels
Southern bluefin tuna	Commonwealth waters especially the southern and south eastern parts the AFZ	Southern bluefin tuna	Purse seining, pole and line, longline and trolling	64 vessels
Eastern tuna and billfish	Commonwealth waters off Queensland NSW, Victoria and Tasmania from Cape York to the SA/ Victoria border	Yellowfin, bigeye, skipjack and albacore tuna, and billfish species	Pelagic longline, purse seine, pole, trolling, rod and reel, and handline	298 permits

<b>Fishery</b>	<b>Area</b>	<b>Species</b>	<b>Main fishing method</b>	<b>Number</b>
Southern and western tuna and billfish	Commonwealth waters from Cape York around northern Australia to the SA/ Victorian border	Yellowfin, bigeye, skipjack and albacore tuna, and some billfish species	Pole and line, purse seine, pelagic longline, troll, rod and reel and handline	125 permits
Bass Strait scallop	Commonwealth waters off SA, Victoria and Tasmania	Scallop	Dredge	133 permits
Small pelagics	Commonwealth waters Purse seine, midwater from north of the NSW/ Queensland border along southern Australia to near Perth WA	Greenback, yellowtail and Peruvian jack mackerel	Purse seine and midwater trawl	77 permits
Southern squid	Commonwealth waters Off SA, Victoria, NSW Tasmania and southern Queensland	Arrow or Gould's squid	Jig	80 permits
Sub Antarctic	Heard, McDonald Islands and Macquarie Island waters	Patagonian toothfish, and icefish	Otter trawl and midwater trawl	3 vessels
Western deepwater trawl	Commonwealth waters off WA	Mixed fish species	Otter trawl	11 permits
North west slope	Commonwealth waters off the northern parts of WA	Scampi	Otter trawl	7 permits
Coral Sea	Commonwealth waters, From Sandy Cape to Cape York	Reef fish, trochus, lobster, aquarium, fish, sea cucumber	Otter trawl, handlines, diving, seine nets	18 permits
South Tasman Rise	High seas adjacent to AFZ, south of Tasmania	orange roughy, oreo dory	Deepwater demersal trawling	14 permits

# State fisheries

## New South Wales

Fishery	Species	Main fishing method	Number
Abalone	Blacklip abalone	Diving	48 licence holders
Rock lobster	Eastern rock lobster	Traps	151 licence holders
Ocean prawn trawl	Eastern king, school whiting and octopus	Trawling	304 licence holders
Ocean trap and line	Spanner crabs, snapper and bonito	Fish traps, dropline longline, spanner crab nets	506 licence holders
Ocean haul	Sea mullet, blue mackerel and yellowtail	Purse seine and haul nets	318 licence holders
Ocean fish trawl	Tiger and sand flathead, silver trevally, and fiddler ray	Trawling	98 fishing licences
Estuary prawn trawl	School prawns squid	Trawling	317 licence holders
Estuary general	Sea mullet, luderick, prawns, and pippis	Mesh and haul, nets, hand gathering	687 licence holders
Aquaculture	Prawns	Pond culturing	14 licence holders
	Yabbies	Ponds and farm dams	126 licence holders
	Oysters	Rack tray and stick	402 licence holders
	Silver perch	Pond	131 licence holders
	Trout	Ponds and raceway	42 licence holders
	Snapper	Ponds	14 licence holders

## Victoria

Fishery	Species	Main fishing method	Number
Abalone	Greenlip, blacklip	Diving	71 licence holders
Scallops	Scallops	Dredging	94 licence holders
Bay and inlet	Mixed fish species	Various	113 licence holders
Rock lobster	Southern rock lobster	Pots	138 licence holders 7183 pots
Giant crab	Giant crab	Pots	42 licence holders 2858 pots
Inshore trawl	Mixed fish species	Trawling	61 licence holders
Ocean (general)	Mixed fish species	Various	418 licence holders
Aquaculture	Mussels	Longlines	28 licence holders
	Yabbies	Ponds and farm dams	60 licence holders
	Trout	Raceways	35 licence holders
	Warmwater finfish	Recirculation units	61 licence holders

## Queensland

Fishery	Species	Main fishing method	Number
East coast trawl	Tiger, banana, red spot king, endeavour, eastern king, 'bay' prawns, scallops, 'bugs' and trawl whiting	Otter trawl	478 licence holders
River and estuary trawl	Banana, 'bay' and tiger prawns	Beam	160 licence holders
Gulf of Carpentaria inshore	Barramundi, king and blue threadfin, tropical shark, grey mackerel	Set (gill) net	90 licence holders
East coast net inshore (mainly tropical)	Barramundi, king and blue threadfin, tropical shark, grey mackerel	Set (gill) net	215 licence holders
East coast net inshore (mainly subtropical)	Barramundi, king and blue threadfin, tropical shark, grey mackerel, mullet, tailor, bream, whiting	Seine and some net	496 licence holders
Line (handline)	Coral trout	Handline	413 licence holders
Line (trolling)	Spanish mackerel, red throat emperor	Trolling	292 licence holders
Crab – estuary	Mud and blue swimmer	Pot	877 licence holders
Crab – oceanic	Spanner crabs		244 licence holders
Aquaculture	Prawns	Pond culture	58 licence holders
	Barramundi	Pond and cage culture	140 licence holders
	Oysters	Rack and stick culture	214 licence holders
	Redclaw	Ponds	231 licence holders
	Silver perch	Ponds and tanks	126 licence holders
	Eels	Ponds and tanks	20 licence holders
	Barcoo grunter	Ponds and tanks	54 licence holders

## Western Australia

West coast rock lobster	Western rock lobster	Pots	549 boats and 56 915 pots
Abalone	Greenlip, brownlip and Roe's abalone	Diving	29 licence holders
Shark Bay prawn	King, tiger and endeavour prawns, scallops	Trawling	27 licence holders
Exmouth prawn	King, tiger and endeavour prawns	Trawling	13 licence holders
Nickol Bay prawn	King and banana prawns	Trawling	13 licence holders
Shark Bay scallops	Scallops	Trawling	41 licence holders
Aquaculture	Pearls	Longlines	
	Yabbies	Ponds and farm dams	
	Marron	Ponds and farm dams	
	Mussels	Longlines	

## South Australia

<b>Fishery</b>	<b>Species</b>	<b>Main fishing method</b>	<b>Number</b>
Southern zone rock lobster	Southern rock lobster	Pots	181 licence holders
Northern zone rock lobster	Southern rock lobster	Pots	69 licence holders
Western zone abalone	Greenlip, blacklip abalone	Diving	23 licence holders
Southern zone abalone	greenlip, blacklip abalone	Diving	6 licence holders
Central zone abalone	greenlip, blacklip abalone	Diving	6 licence holders
Blue crab	Blue crab	Pots	8 licence holders
West coast prawn	Western king prawn	Trawling	3 licence holders
Spencer Gulf prawn	Western king prawn	Trawling	39 licence holders
Gulf St Vincent prawn	Western king prawn	Trawling	10 licence holders
Marine scalefish	Various finfish, crustaceans, molluscs	Netting, line fishing, handlines and traps	377 licence holders
Restricted marine scalefish	Various finfish, crustaceans, molluscs	Netting, line fishing, handlines and traps	29 licence holders
Miscellaneous	Various finfish, crustaceans, molluscs, worms	Traps, diving, etc	19 licence holders
Lakes and Coorong	Freshwater finfish, marine finfish, molluscs	Netting, line fishing, handlines	37 licence holders
River Fishery	Freshwater finfish, crustaceans	Netting, pots	6 licence holders
Aquaculture	Yabbies	Ponds and farm dams	202 licence holders
	Marron	Ponds and farm dams	141 licence holders
	Oysters	Rack and stick culturing	290 licence holders
	Southern bluefin tuna	Cage culture	40 licence holders
	Barramundi	Recirculating tanks	34 licence holders
	Murray cod		54 licence holders
	Abalone	Raceways and ocean rafts	64 licence holders
	Gold and silver perch	Pond culturing	121 licence holders
	Scallops		78 licence holders
	Yellowtail king fish		26 licence holders



## Tasmania

Fishery	Species	Main fishing method	Number
Abalone	Blacklip and greenlip abalone	Diving	125 diving
Rock lobster	Southern rock lobster	Pots	313 licence holders and
Giant crab	Giant crab	Pots	92 licence holders
Scallop	Commercial Doughboy Queen	Dredging	91 licence holders
Scalefish	Various	Netting/hooks	404 licence holders
Fishery	Species	Main fishing method	Number
Aquaculture	Atlantic salmon,	Cage culture farming	44 licence holders
	Pacific oysters	Rack and stick	116 licence holders
	Mussels	Longlines	34 licence holders
	Rainbow trout	Sea cages	19 licence holders
	Scallops		16 licence holders
	Abalone	Sea cages and land based tanks	41 licence holders

## Northern Territory

Fishery	Species	Main fishing method	Number
Coastal	Finfish and bait	Line, net and trap	72 licence holders
Offshore	Mackerel, shark and reef	Trolling, hand and longline net, trap and trawling	110 licence holders
Barramundi	Barramundi and threadfin	Gillnet	25 licence holders
Mud crab	Mud crab	Crab pots	49 licence holders
Other	Molluscs, oyster, trepang, squid and aquarium	Hand harvest, jigging and a variety of other methods	26 licence holders
Aquaculture	Pearls		7 licence holders
	Prawns		9 licence holders
	Barramundi		7 licence holders

*Sources:* Australian Fisheries Management Authority; New South Wales Fisheries; Northern Territory Department of Primary Industry and Fisheries; Queensland Department of Primary Industries; Victoria Marine and Freshwater Resources Institute; South Australian Research and Development Institute; Western Australian Fisheries; ABARE.

# 1 Gross value of Australian fisheries production

	2001-02 \$'000	2002-03 p \$'000	2003-04 s \$'000
<b>State wild catch fisheries</b>			
New South Wales	95 103	104 435	89 712
Victoria	100 518	88 022	73 937
Queensland	220 316	225 102	229 193
Western Australia	434 372	425 845	396 358
South Australia	206 779	195 219	182 536
Tasmania	199 896	160 969	145 806
Northern Territory	31 336	33 019	31 139
Total	1 288 320	1 232 610	1 148 682
<b>Aquaculture a</b>			
New South Wales	43 699	48 586	49 648
Victoria	20 738	20 748	21 440
Queensland	70 755	62 903	65 550
Western Australia	180 873	156 303	156 842
South Australia	282 672	301 286	277 756
Tasmania	127 800	122 744	132 575
Northern Territory	4 627	21 900	28 000
Total	731 163	734 470	731 811
<b>Commonwealth fisheries</b>			
Northern prawn	134 635	82 540	73 979
Torres Strait	34 203	36 666	29 138
South east trawl	70 049	65 734	54 107
South east nontrawl	5 620	na	na
Southern shark	15 298	na	na
Gillnet, hook and trap b	na	21 587	23 500
South Tasman Rise	920	455	367
Great Australian Bight	6 354	8 576	14 094
Eastern tuna and billfish – longline and minor line	78 943	67 913	46 832
Eastern skipjack tuna	347	0	1 494
Southern bluefin tuna	72 432	77 840	38 147
Bass Strait scallop	0	694	1 475
Southern and western tuna	33 684	19 998	8 252
Other fisheries c	28 256	32 842	46 065
Total	480 742	414 845	337 449
<b>Total value d</b>	<b>2 429 677</b>	<b>2 305 077</b>	<b>2 179 589</b>

**a** Excludes the value of hatchery fishery production. **b** An amalgamation of South east nontrawl and Southern shark fisheries as of 2002-03. **c** Includes North west slope, Western deepwater, Southern squid, Jack mackerel, Macquarie Island, Coral Sea, Cocos and Christmas Islands, Heard and McDonald Islands, East coast deepwater, Victorian inshore trawl for 2000-01, and Norfolk Island fisheries. **d** Total value has been adjusted to allow for southern bluefin tuna caught in the Commonwealth southern bluefin tuna fishery, as an input to farms in South Australia. **p** Preliminary. **s** Estimates. **na** Not available.

**Sources:** ABARE; Australian Fisheries Management Authority; Marine and Freshwater Resources Institute; Melbourne Wholesale Fish Market; New South Wales Fisheries; New South Wales Fish Marketing Authority; Northern Territory Department of Primary Industry and Fisheries; Queensland Fisheries Service; Queensland Department of Primary Industries; South Australian Research and Development Institute; Tasmanian Department of Primary Industries, Water and Environment; Department of Fisheries, Western Australia.

## 2 Wild caught fisheries production <sup>a</sup>

	2001-02		2002-03 <sup>p</sup>		2003-04 <sup>s</sup>	
	t	\$'000	t	\$'000	t	\$'000
<b>Fish</b>						
Australian salmon	5 042	4 343	4 515	4 230	5 051	4 162
Barramundi	1 925	11 813	1 526	9 578	1 624	10 034
Bream	810	5 627	712	5 123	716	4 893
Coral trout	2 167	32 504	2 146	32 185	1 605	24 079
Dories	541	1 585	780	2 040	795	2 246
Flathead	3 915	15 303	5 180	13 635	6 306	15 142
Gemfish	387	1 018	449	1 010	1 024	1 341
Ling	1 635	5 923	1 597	8 384	1 645	7 555
Mullet	6 325	12 751	5 590	13 361	5 178	12 321
Orange roughy	3 780	13 797	4 399	15 923	2 595	8 617
Pilchards	14 460	12 084	24 999	24 549	35 985	27 420
Sharks <sup>b</sup>	7 694	33 728	8 368	38 094	9 165	40 697
Spanish mackerel	1 388	9 277	1 690	11 367	1 389	9 332
Tuna	17 979	106 689	16 380	98 107	13 332	48 015
Other	65 733	275 239	68 851	271 116	71 280	261 827
Total	133 780	541 682	147 183	548 703	157 689	477 680
<b>Crustaceans</b>						
Crabs	7 222	54 353	6 876	50 383	7 204	53 263
Prawns	25 558	363 811	22 740	304 230	23 468	299 850
Rock lobster	14 322	501 759	17 068	460 208	19 543	403 515
Other	306	2 782	191	2 170	205	2 355
Total	47 408	922 705	46 875	816 991	50 420	758 983
<b>Molluscs</b>						
Abalone	5 809	244 822	5 094	211 478	5 585	189 413
Octopus	558	2 461	659	2 489	596	2 539
Pipi	1 564	3 179	1 488	3 251	1 644	3 808
Scallops	5 596	22 682	7 966	31 986	8 089	22 048
Squid	858	4 685	934	6 205	1 460	7 880
Other	1 440	17 372	2 043	20 564	2 614	19 888
Total	15 824	295 201	18 184	275 973	19 988	245 578
Other NEI	619	9 474	270	5 789	178	3 890
<b>Total wild caught</b>	197 632	1 769 062	212 512	1 647 455	228 275	1 486 131

<sup>a</sup> State and Commonwealth wildcaught production. <sup>b</sup> Shark converted to whole weight. <sup>p</sup> Preliminary. <sup>s</sup> Estimate.

Sources: ABARE; Australian Fisheries Management Authority; Marine and Freshwater Resources Institute; Melbourne Wholesale Fish Market; New South Wales Fisheries; New South Wales Fish Marketing Authority; Northern Territory Department of Primary Industry and Fisheries; Queensland Fisheries Service; Queensland Department of Primary Industries; South Australian Research and Development Institute; Tasmanian Department of Primary Industries, Water and Environment; Department of Fisheries, Western Australia.

### 3 Australian fisheries production in 2001-02, by state <sup>a</sup>

	NSW	Vic.	Qld	WA	SA	Tas.	NT	C'wlth	Aust.
<b>Value</b>	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000
<b>Fish</b>									
Tuna	154	0	0	203	260 500	1	23	132 585	322 917 <sup>b</sup>
Other	41 990	27 808	99 498	40 690	27 981	116 244	19 233	172 812 <sup>c</sup>	546 257
Total	42 144	27 808	99 498	40 893	288 481	116 245	19 256	305 397	869 174
<b>Crustaceans</b>									
Prawns	33 941	1 644	139 986	47 068	47 405	0	0	158 682	428 726
Rock lobster	4 716	21 505	5 113	305 268	91 862	64 450	0	8 852	501 766
Crab	4 136	349	24 993	6 713	4 356	3 477	10 324	23	54 370
Other	1 799	797	1 004	2 722	377	1	554	3 799	11 053
Total	44 592	24 295	171 096	361 771	144 000	67 929	10 878	171 356	995 916
<b>Molluscs</b>									
Abalone	12 531	63 117	0	14 599	36 656	120 451	0	0	247 354
Scallops	0	1 283	14 821	6 574	0	0	4	86	22 767
Oysters	31 538	0	520	0	13 303	11 566	0	0	56 927
Squid	780	750	1 016	251	1 839	484	49	1 978	7 148
Other	5 301	4 003	100	190 289	2 393	1 492	1 148	510	205 236
Total	50 150	69 153	16 457	211 713	54 191	133 993	1 202	2 574	539 433
<b>Other NEI</b>	1 916	0	4 020	868	2 779	9 529	4 627	1 415	25 155
<b>Total value</b>	138 802	121 256	291 071	615 245	489 451	327 696	35 963	480 742 <sup>d</sup>	2 429 677 <sup>b</sup>
<b>Quantity</b>	t	t	t	t	t	t	t	t	t
<b>Fish</b>									
Tuna	40	0	0	27	9 245	0	6	11 806	15 891 <sup>b</sup>
Other	13 492	4 955	15 433	16 589	16 852	15 654	4 253	50 088 <sup>c</sup>	137 315
Total	13 532	4 955	15 433	16 616	26 097	15 654	4 259	61 893	153 206
<b>Crustaceans</b>									
Prawns	2 258	126	10 186	3 555	2 610	0	0	10 684	29 419
Rock lobster	103	493	436	9 050	2 392	1 518	0	330	14 322
Crab	448	10	3 814	1 017	705	108	1 121	7	7 229
Other	154	113	75	182	19	1	68	308	919
Total	2 962	742	14 511	13 804	5 726	1 627	1 189	11 329	51 890
<b>Molluscs</b>									
Abalone	285	1 462	0	296	885	2 928	0	0	5 856
Scallops	0	550	3 069	1 975	0	0	2	11	5 607
Oysters	5 507	0	116	0	2 425	2 188	0	0	10 236
Squid	135	104	203	67	340	105	9	1 386	2 349
Other	1 327	1 679	0	1 104	1 648	369	118	145	6 390
Total	7 254	3 795	3 388	3 442	5 298	5 590	129	1 541	30 437
<b>Other NEI</b>	22	0	451	72	270	146	0	650	1 611
<b>Total quantity</b>	23 770	9 491	33 784	33 934	37 391	23 017	5 578	75 414 <sup>d</sup>	237 144 <sup>b</sup>

<sup>a</sup> State totals include estimates of aquaculture production but exclude hatchery. <sup>b</sup> Total has been adjusted to allow for southern bluefin tuna caught in the Commonwealth southern bluefin tuna fishery, as an input to farms in South Australia. <sup>c</sup> Includes the fish component of Commonwealth fisheries, plus catch from Commonwealth fisheries that cannot be disaggregated due to confidentiality reasons. <sup>d</sup> Totals include all fisheries under federal jurisdiction.

*Sources:* ABARE; Australian Fisheries Management Authority; Marine and Freshwater Resources Institute; Melbourne Wholesale Fish Market; New South Wales Fisheries; New South Wales Fish Marketing Authority; Northern Territory Department of Primary Industry and Fisheries; Queensland Fisheries Service; Queensland Department of Primary Industries; South Australian Research and Development Institute; Tasmanian Department of Primary Industries, Water and Environment; Department of Fisheries, Western Australia.

## 4 Australian fisheries production in 2002-03, by state ap

	NSW	Vic.	Qld	WA	SA	Tas.	NT	C'with	Aust.
<i>Value</i>	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000
<b>Fish</b>									
Tuna	136	0	0	249	266 907	1	20	126 135	316 591 <b>b</b>
Other	48 033	28 446	101 477	43 485	40 178	109 921	24 816	163 610 <b>c</b>	559 966
Total	48 170	28 446	101 477	43 734	307 085	109 923	24 836	289 745	876 558
<b>Crustaceans</b>									
Prawns	37 320	1 159	141 226	45 807	32 459	0	0	102 039	360 010
Rock lobster	5 432	17 658	7 412	281 023	82 666	51 707	0	14 342	460 239
Crab	6 364	253	25 740	6 907	4 445	1 644	5 035	57	50 445
Other	1 658	439	1 292	2 382	626	0	139	4 067	10 604
Total	50 774	19 509	175 671	336 119	120 196	53 351	5 174	120 505	881 298
<b>Molluscs</b>									
Abalone	10 964	54 571	0	12 896	39 369	97 855	0	0	215 655
Scallops	0	1 338	7 538	22 831	0	276	3	778	32 764
Oysters	34 700	0	693	0	15 116	11 561	0	0	62 070
Squid	973	776	969	455	2 950	709	82	2 475	9 389
Other	5 086	4 130	0	165 047	3 020	1 807	2 924	258	182 273
Total	51 723	60 815	9 200	201 229	60 455	112 208	3 009	3 512	502 150
<b>Other NEI</b>	2 354	0	1 658	1 066	8 769	8 231	21 900	1 093	45 072
<b>Total value</b>	153 020	108 770	288 005	582 148	496 505	283 713	54 919	414 845 <b>d</b>	2 305 077 <b>b</b>
<b>Quantity</b>	t	t	t	t	t	t	t	t	t
<b>Fish</b>									
Tuna	38	0	0	38	9 102	0	6	10 920	14 729 <b>b</b>
Other	14 259	4 626	15 617	16 434	25 936	14 695	5 107	54 163 <b>c</b>	150 836
Total	14 296	4 626	15 617	16 472	35 038	14 695	5 113	65 083	165 566
<b>Crustaceans</b>									
Prawns	2 410	91	10 576	3 934	1 740	0	0	7 501	26 252
Rock lobster	122	488	632	11 477	2 361	1 409	0	579	17 069
Crab	606	8	3 825	1 129	706	56	547	9	6 886
Other	419	50	96	147	29	0	14	328	1 083
Total	3 556	637	15 129	16 687	4 836	1 465	561	8 418	51 289
<b>Molluscs</b>									
Abalone	276	1 299	0	264	949	2 389	0	0	5 177
Scallops	0	622	385	6 794	0	164	1	435	8 401
Oysters	5 603	0	0	0	2 706	3 125	0	0	11 433
Squid	174	74	194	121	346	110	25	2 314	3 358
Other	1 261	1 405	0	1 010	1 803	146	301	114	6 040
Total	7 315	3 400	578	8 189	5 804	5 934	327	2 862	34 409
<b>Other NEI</b>	17	0	78	118	1 077	135	0	285	1 710
<b>Total quantity</b>	25 185	8 663	31 402	41 466	46 755	22 230	6 001	76 753 <b>d</b>	252 974 <b>b</b>

**a** State totals include estimates of aquaculture production but exclude hatchery. **b** Total has been adjusted to allow for southern bluefin tuna caught in the Commonwealth southern bluefin tuna fishery, as an input to farms in South Australia. **c** Includes the fish component of Commonwealth fisheries, plus catch from Commonwealth fisheries that cannot be disaggregated due to confidentiality reasons. **d** Totals include all fisheries under federal jurisdiction. **p** Preliminary.

*Sources:* ABARE; Australian Fisheries Management Authority; Marine and Freshwater Resources Institute; Melbourne Wholesale Fish Market; New South Wales Fisheries; New South Wales Fish Marketing Authority; Northern Territory Department of Primary Industry and Fisheries; Queensland Fisheries Service; Queensland Department of Primary Industries; South Australian Research and Development Institute; Tasmanian Department Primary Industries, Water and Environment; Department of Fisheries, Western Australia.

## 5 Australian fisheries production in 2003-04, by state as

	NSW	Vic.	Qld	WA	SA	Tas.	NT	C'wlth	Aust.
<i>Value</i>	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000
<b>Fish</b>									
Tuna	83	0	0	93	242 000	0	29	72 296	276 148 <b>b</b>
Other	44 660	25 528	93 937	47 205	38 828	118 476	25 789	155 874 <b>c</b>	550 296
Total	44 743	25 528	93 937	47 298	280 828	118 476	25 818	228 170	826 444
<b>Crustaceans</b>									
Prawns	27 737	730	150 107	44 782	43 423	0	0	88 093	354 872
Rock lobster	4 196	13 730	6 230	261 398	61 365	44 921	0	13 725	405 565
Crab	6 005	241	29 729	7 153	4 020	1 643	4 473	91	53 354
Other	1 547	324	1 361	1 817	905	0	0	1 525	7 479
Total	39 485	15 025	187 427	315 150	109 713	46 564	4 473	103 433	821 270
<b>Molluscs</b>									
Abalone	8 668	49 927	0	14 209	34 663	88 655	0	0	196 122
Scallops	0	395	9 954	7 685	0	4 014	0	1 528	23 577
Oysters	37 921	0	750	0	21 152	11 998	0	0	71 822
Squid	954	771	974	2 626	2 555	550	0	4 162	12 592
Other	5 871	3 731	0	165 431	3 847	1 611	848	33	181 371
Total	53 414	54 824	11 679	189 951	62 217	106 828	848	5 724	485 484
<b>Other NEI</b>	1 718	0	1 701	801	7 534	6 513	28 000	123	46 391
<b>Total value</b>	139 360	95 377	294 743	553 200	460 292	278 381	59 139	337 449 <b>d</b>	2 179 589 <b>b</b>
<b>Quantity</b>	t	t	t	t	t	t	t	t	t
<b>Fish</b>									
Tuna	24	0	0	15	9 290	0	8	10 084	14 418 <b>b</b>
Other	14 405	4 284	15 102	17 260	36 818	15 554	5 264	54 551 <b>c</b>	163 238
Total	14 429	4 284	15 102	17 275	46 108	15 554	5 272	64 635	177 656
<b>Crustaceans</b>									
Prawns	2 001	56	11 450	3 689	2 126	0	0	7 783	27 106
Rock lobster	108	496	535	13 742	2 400	1 601	0	839	19 721
Crab	633	11	4 229	1 122	707	64	437	20	7 223
Other	114	46	105	108	49	0	0	79	501
Total	2 857	609	16 319	18 661	5 282	1 665	437	8 721	54 552
<b>Molluscs</b>									
Abalone	252	1 562	0	351	982	2 645	0	0	5 792
Scallops	0	261	1 999	2 287	0	3 542	0	1 118	9 207
Oysters	0	0	0	0	4 382	3 243	0	0	7 625
Squid	183	83	195	697	302	86	0	2 807	4 354
Other	1 489	1 274	0	1 086	1 922	404	87	6	6 268
Total	1 925	3 180	2 194	4 421	7 588	9 920	87	3 931	33 245
<b>Other NEI</b>	16	0	73	87	894	75	0	15	1 160
<b>Total quantity</b>	19 226	8 073	33 688	40 444	59 872	27 214	5 796	77 437 <b>d</b>	266 613 <b>b</b>

**a** State totals include estimates of aquaculture production but exclude hatchery. **b** Total has been adjusted to allow for southern bluefin tuna caught in the Commonwealth southern bluefin tuna fishery, as an input to farms in South Australia. **c** Includes the fish component of Commonwealth fisheries, plus catch from Commonwealth fisheries that cannot be disaggregated due to confidentiality reasons. **d** Totals include all fisheries under federal jurisdiction. **s** Estimates.

*Sources:* ABARE; Australian Fisheries Management Authority; Marine and Freshwater Resources Institute; Melbourne Wholesale Fish Market; New South Wales Fisheries; New South Wales Fish Marketing Authority; Northern Territory Department of Primary Industry and Fisheries; Queensland Fisheries Service; Queensland Department of Primary Industries; South Australian Research and Development Institute; Tasmanian Department of Primary Industries, Water and Environment; Department of Fisheries, Western Australia.

## 6 Australian fisheries production in 2003-04, by location of catch as

	NSW	Vic.	Qld	WA	SA	Tas.	NT	Other <sup>b</sup>	Aust.
<b>Value</b>	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000
<b>Fish</b>									
Tuna	19 479	125	13 186	2 923	280 147	504	29	0	276 148 <sup>c</sup>
Other	67 492	54 631	102 826	53 872	58 337	146 620	25 850	40 668	550 296
Total	86 971	54 756	116 013	56 796	338 484	147 124	25 879	40 668	826 444
<b>Crustaceans</b>									
Prawns	27 834	731	184 076	50 475	43 423	0	48 108	1	354 872
Rock lobster	4 338	14 055	18 298	261 405	61 365	44 921	318	839	405 565
Crab	6 030	290	29 729	7 153	4 020	1 658	4 473	0	53 354
Other	1 546	324	1 361	1 817	905	0	313	1 212	7 479
Total	39 748	15 400	233 464	320 851	109 713	46 580	53 212	2 052	821 270
<b>Molluscs</b>									
Abalone	8 668	49 927	0	14 209	34 663	88 655	0	0	196 122
Scallops	0	1 626	9 969	7 685	0	4 258	39	0	23 577
Oysters	37 921	0	750	0	21 152	11 998	0	0	71 822
Squid	1 867	1 625	1 002	2 630	2 830	709	37	1 893	12 592
Other	5 874	3 740	0	165 431	3 847	1 626	848	4	181 371
Total	54 331	56 919	11 721	189 955	62 492	107 246	923	1 897	485 484
<b>Other NEI</b>	1 718	0	1 701	801	7 534	6 513	28 000	123	46 391
<b>Total value</b>	182 768	127 075	362 899	568 403	518 223	307 463	108 015	44 741	2 179 589 <sup>cd</sup>
<b>Quantity</b>	t	t	t	t	t	t	t	t	t
<b>Fish</b>									
Tuna	3 010	16	1 638	399	14 325	24	8	0	14 418 <sup>c</sup>
Other	21 766	16 065	16 634	18 546	43 616	28 958	5 280	12 373	163 238
Total	24 776	16 082	18 273	18 944	57 941	28 982	5 288	12 373	177 656
<b>Crustaceans</b>									
Prawns	2 163	57	14 669	4 229	2 126	0	3 830	1	27 106
Rock lobster	121	526	1 230	13 743	2 400	1 601	28	71	19 721
Crab	639	22	4 229	1 122	707	66	437	0	7 223
Other	114	46	105	108	49	0	16	63	501
Total	3 038	651	20 234	19 201	5 282	1 667	4 310	135	54 552
<b>Molluscs</b>									
Abalone	252	1 562	0	351	982	2 645	0	0	5 792
Scallops	0	1 190	2 001	2 287	0	3 726	4	0	9 207
Oysters	0	0	0	0	4 382	3 243	0	0	7 625
Squid	660	545	203	699	487	162	10	1 589	4 354
Other	1 490	1 276	0	1 086	1 922	407	87	0	6 268
Total	2 402	4 573	2 203	4 423	7 773	10 183	100	1 589	33 245
<b>Other NEI</b>	16	0	73	87	894	75	0	15	1 160
<b>Total quantity</b>	30 232	21 305	40 782	42 655	71 889	40 907	9 698	14 112	266 613 <sup>cd</sup>

<sup>a</sup> Commonwealth, state and territory production is allocated according to the state or territory waters in which the catch was taken. The totals include aquaculture production but exclude hatchery production. <sup>b</sup> Includes Commonwealth fisheries that have been aggregated for reasons of confidentiality – they are, North west slope, Western deep water, Southern squid, Jack mackerel, Macquarie Island, Heard and McDonald Islands, Coral Sea, Cocos and Christmas Islands fisheries. <sup>c</sup> Total has been adjusted to allow for southern bluefin tuna caught in the Commonwealth southern bluefin tuna fishery, as an input to farms in South Australia. <sup>d</sup> Totals include confidential Commonwealth landings and only sum across. <sup>s</sup> Estimates.

Sources: ABARE; Australian Fisheries Management Authority; Marine and Freshwater Resources Institute; Melbourne Wholesale Fish Market; New South Wales Fisheries; New South Wales Fish Marketing Authority; Northern Territory Department of Primary Industry and Fisheries; Queensland Department of Primary Industries; Queensland Fisheries Service; South Australian Research and Development Institute; Tasmanian Department of Primary Industries, Water and Environment; Department of Fisheries, Western Australia.

# 7 New South Wales fisheries production

	2001-02		2002-03		2003-04 p	
	t	\$'000	t	\$'000	t	\$'000
<b>Crustaceans</b>						
Rock lobster	103	4 716	122	5 432	108	4 196
King prawns	1 113	23 258	1 180	24 109	849	17 795
School prawns	522	3 907	563	5 801	635	4 973
Other prawns	277	1 336	258	1 231	155	538
Crabs	448	4 142	605	6 359	633	6 005
Other	122	1 426	87	1 221	86	1 190
<b>Total a</b>	<b>2 584</b>	<b>38 784</b>	<b>2 815</b>	<b>44 153</b>	<b>2 465</b>	<b>34 696</b>
<b>Molluscs</b>						
Abalone	285	12 531	276	10 964	252	8 668
Scallops	0	0	0	0	0	0
Cuttlefish	242	535	280	688	335	850
Pipi	479	2 131	301	1 878	571	2 367
Octopus	462	2 005	562	1 973	487	2 103
Squid	135	780	174	973	183	954
Other	68	247	52	213	54	289
<b>Total a</b>	<b>1 670</b>	<b>18 229</b>	<b>1 645</b>	<b>16 689</b>	<b>1 881</b>	<b>15 232</b>
<b>Fish</b>						
Sea mullet	4 154	6 465	3 236	6 535	2 872	5 598
Silver trevally	316	814	347	909	550	1 139
Yellowtail kingfish	258	1 794	250	1 744	145	1 009
Jack mackerel	318	1 438	419	2 088	127	293
Black and yellowfin bream	335	3 099	388	3 566	333	3 102
Australian salmon	810	925	1 346	1 688	2 131	2 508
Snapper	213	1 839	206	1 813	241	2 250
Rubberlip morwong	68	260	54	197	67	234
Mulloway	70	543	74	500	101	697
Sand whiting	160	1 662	170	1 817	179	1 894
Luderick	525	808	484	797	390	626
School whiting	1 235	2 773	1 835	4 708	1 583	3 707
Dusky flathead	142	781	157	847	133	748
Golden perch	26	279	6	98	1	19
Other	4 273	13 081	4 676	15 080	5 024	14 840
<b>Total a</b>	<b>12 905</b>	<b>36 561</b>	<b>13 646</b>	<b>42 389</b>	<b>13 879</b>	<b>38 666</b>
Other NEI	22	1 529	17	1 204	16	1 118
<b>Total wild caught</b>	<b>17 181</b>	<b>95 103</b>	<b>18 124</b>	<b>104 435</b>	<b>18 240</b>	<b>89 712</b>
<b>Aquaculture b</b>						
Prawns	346	5 440	409	6 178	363	4 432
Yabbies	32	364	32	431	28	354
Oysters	5 507	31 538	5 603	34 700	0	37 921
Silver perch	278	2 450	302	2 812	239	2 322
Trout	251	2 020	200	1 440	170	1 552
Mussels	77	383	67	334	44	261
Barramundi	55	589	85	905	101	1 128
Snapper	24	220	15	135	0	0
Ornamentals	0	338	0	620	0	554
Other	19	357	348	1 030	40	1 124
<b>Total</b>	<b>6 589</b>	<b>43 699</b>	<b>7 061</b>	<b>48 586</b>	<b>986</b>	<b>49 648</b>
<b>Total production</b>	<b>23 770</b>	<b>138 802</b>	<b>25 185</b>	<b>153 020</b>	<b>19 226</b>	<b>139 360</b>

**a** Excludes catches in the Commonwealth south east and eastern tuna and billfish fisheries. **b** Excludes hatchery production. **p** Preliminary.  
*Sources:* ABARE; New South Wales Fisheries; New South Wales Fish Marketing Authority.



## 8 Victorian fisheries production

	2001-02		2002-03 <sup>p</sup>		2003-04 <sup>s</sup>	
	t	\$'000	t	\$'000	t	\$'000
<b>Crustaceans</b>						
Rock lobster	493	21 505	488	17 658	496	13 730
Prawns	126	1 644	91	1 159	56	730
Giant crabs	10	349	8	253	11	241
Other	82	459	43	306	41	262
Total	711	23 957	630	19 376	604	14 963
<b>Molluscs</b>						
Abalone	1 449	62 486	1 275	53 474	1 460	46 373
Scallops	550	1 283	622	1 338	261	395
Squid <sup>a</sup>	104	750	74	776	83	771
Octopus	33	116	29	122	39	113
Other	64	153	82	384	97	433
Total	2 200	64 788	2 082	56 094	1 940	48 085
<b>Fish</b>						
Pilchards	685	2 119	1 196	4 865	1 012	3 239
Bream	198	1 413	58	502	43	438
Sea garfish	120	501	88	613	84	615
Shark <sup>b</sup>	65	222	65	237	47	168
Snapper	77	551	76	571	95	703
Eels	172	1 804	107	1 175	105	1 112
Australian salmon	590	522	327	468	380	275
King george whiting	129	1 443	148	1 416	143	1 600
Other	1 183	3 198	842	2 705	675	2 739
Total	3 219	11 773	2 907	12 552	2 584	10 889
Other NEI	0	0	0	0	0	0
<b>Total wild caught</b>	6 130	100 518	5 619	88 022	5 128	73 937
<b>Aquaculture <sup>c</sup></b>						
Mussels	1 582	3 734	1 294	3 624	1 138	3 185
Yabbies	31	338	7	133	5	62
Trout <sup>d</sup>	1 587	10 666	1 593	11 032	1 640	11 008
Eels <sup>e</sup>	43	433	18	157	0	0
Ornamental fish	0	3 006	0	3 003	0	2 752
Warmwater finfish <sup>f</sup>	105	1 931	108	1 702	60	879
Abalone	13	631	24	1 097	102	3 554
Total	3 361	20 738	3 044	20 748	2 945	21 440
<b>Total production</b>	9 491	121 256	8 663	108 770	8 073	95 377

<sup>a</sup> Arrow squid taken by machine jig are now being reported to the Commonwealth. <sup>b</sup> Shark data only includes Victorian bays and inlets and small quantities taken in ocean waters by non shark fishers operating in state proclaimed waters. <sup>c</sup> Excludes hatchery production. <sup>d</sup> Includes salmon production. <sup>e</sup> Eel production data are obtained from Victorian catch and effort monthly record, and may not be complete. <sup>f</sup> Includes Australian bass, barramundi, catfish, golden perch, murray cod and sliver perch. <sup>p</sup> Preliminary. <sup>s</sup> Estimates.

Sources: ABARE; Victorian Marine and Freshwater Resources Institute; Natural Resources and Environment; Melbourne Wholesale Fish Market.

# 9 Queensland fisheries production

	2001-02		2002-03 p		2003-04 s	
	t	\$'000	t	\$'000	t	\$'000
<b>Crustaceans</b>						
Prawns						
Endeavour	933	11 192	965	11 583	1 128	13 542
King	3 372	39 061	3 858	44 884	3 329	39 469
Tiger	1 527	22 904	1 861	27 908	2 242	33 635
Other	944	6 830	936	6 961	1 551	11 962
Total	6 775	79 986	7 620	91 336	8 250	98 607
Crabs	3 814	24 993	3 825	25 740	4 229	29 729
Lobster (mainly bugs)	436	5 113	632	7 412	535	6 230
Other	0	0	20	243	30	361
Total	11 025	110 092	12 098	124 732	13 044	134 927
<b>Molluscs</b>						
Scallops	3 069	14 821	385	7 538	1 999	9 954
Squid	203	1 016	194	969	195	974
Total	3 272	15 837	578	8 507	2 194	10 929
<b>Fish</b>						
Snapper	100	797	92	736	150	1 197
Barramundi	955	6 687	856	5 995	923	6 459
Bream (including tarwhine)	169	682	146	591	215	868
Mullet	1 909	5 740	2 088	6 269	2 103	6 312
Tailor	224	700	111	334	126	379
Whiting	1 197	3 068	955	2 572	890	2 556
Coral trout	2 167	32 504	2 146	32 185	1 605	24 079
Red throat emperor	863	4 317	876	4 381	679	3 394
Blue threadfin	216	866	240	959	327	1 306
King threadfin	540	2 158	430	1 722	430	1 722
Shark	1 625	9 752	1 640	9 842	1 925	11 548
Spotted mackerel	165	1 155	274	1 917	97	677
Spanish mackerel	818	5 729	1 021	7 145	754	5 277
Grey mackerel	565	3 952	466	3 260	597	4 181
Other species	2 990	14 080	3 011	13 957	2 961	13 381
Total	14 503	92 186	14 351	91 864	13 782	83 338
<b>Other NEI</b>	379	2 201	0	0	0	0
<b>Total wild caught</b>	29 180	220 316	27 027	225 102	29 020	229 193
<b>Aquaculture a</b>						
Prawns	3 411	60 000	2 956	49 890	3 200	51 500
Barramundi	840	6 680	1 194	9 008	1 250	10 000
Oysters	116	520	na	693	na	750
Pearls	0	100	0	0	0	0
Silver perch	44	337	43	336	48	400
Jade perch	46	295	49	350	35	250
Redclaw	75	1 004	75	1 049	75	1 000
Other b	72	1 819	57	1 577	60	1 650
Total	4 604	70 755	4 375	62 903	4 668	65 550
<b>Total production</b>	33 784	291 071	31 402	288 005	33 688	294 743

a Excludes hatchery production. b Includes eels and aquarium fish. p Preliminary. s Estimates. na Not available.

Sources: ABARE; Queensland Fisheries Service; Queensland Department of Primary Industries.

# 10 Western Australian fisheries production

	2001-02		2002-03 p		2003-04 s	
	t	\$'000	t	\$'000	t	\$'000
<b>Crustaceans</b>						
Rock lobster	9 050	305 268	11 477	281 023	13 742	261 398
Prawns	3 555	47 068	3 934	45 807	3 689	44 782
Crabs	1 017	6 713	1 129	6 907	1 122	7 153
Other	33	342	26	260	27	269
Total	13 655	359 391	16 566	333 997	18 580	313 602
<b>Molluscs</b>						
Abalone	296	14 599	264	12 896	351	14 209
Scallops	1 975	6 574	6 794	22 831	2 287	7 685
Squid	67	251	121	455	697	2 626
Other a	361	13 436	357	13 440	323	13 368
Total	2 699	34 860	7 536	49 622	3 658	37 888
<b>Fish</b>						
Tuna	27	203	38	249	15	93
Shark	1 898	4 479	1 995	4 730	2 159	5 412
Sharkfin	na	1 292	na	1 338	na	1 478
Australian salmon	2 622	1 127	1 858	798	2 285	982
Cobbler	220	759	253	848	203	657
WA jewfish (dhufish)	257	2 277	247	2 208	237	2 121
Spanish mackerel	436	2 762	471	2 981	481	3 136
Sea mullet	333	696	322	672	303	635
Yelloweye mullet	50	44	52	47	48	43
Pilchards	1 610	1 449	2 062	1 857	1 813	1 632
Australian herring	598	239	530	212	374	149
Whiting	175	701	167	692	163	635
Breams	108	434	121	464	124	485
Emperors	861	2 743	977	3 030	1 257	3 857
Pink snapper	855	4 036	832	3 934	794	3 757
Rockcods	279	1 316	291	1 358	409	1 831
Tropical snappers	1 591	7 618	1 682	8 453	1 877	9 624
Other	4 602	7 732	4 328	8 002	4 389	8 082
Total	16 522	39 907	16 226	41 873	16 931	44 609
Other NEI b	72	214	118	353	87	259
<b>Total wild caught</b>	32 948	434 372	40 446	425 845	39 256	396 358
<b>Aquaculture c</b>						
Pearls	na	175 000	na	150 000	na	150 000
Yabbies	102	1 281	75	1 040	32	458
Marron	47	1 099	46	1 082	49	1 090
Mussels	743	1 853	653	1 607	763	2 063
Fish	94	864	246	1 776	344	2 385
Gold fish / koi carp	na	122	na	85	na	115
Ornamental	na	399	na	206	na	189
Other d	na	255	na	507	na	542
Total	986	180 873	1 020	156 303	1 188	156 842
<b>Total production</b>	33 934	615 245	41 466	582 148	40 444	553 200

a Value includes pearl oyster taken, including those taken for 'mother of pearl', and mussels. b Includes beche de mer, sea urchins etc.

Previously reported under molluscs other. c Aquaculture excludes algae production for betacarotene and hatchery production. Some quantity data not available due to confidentiality restrictions. d Includes other molluscs and crustaceans. p Preliminary. s Estimates. na Not available.

Sources: ABARE; Department of Fisheries, Western Australia.

# 11 South Australian fisheries production

	2001-02		2002-03		2003-04 p	
	t	\$'000	t	\$'000	t	\$'000
<b>Crustaceans</b>						
Prawns	2 610	47 405	1 740	32 459	2 126	43 423
Rock lobster	2 392	91 862	2 361	82 666	2 400	61 365
Crab	705	4 356	706	4 445	707	4 020
Other	0	0	0	0	21	272
Total	5 707	143 623	4 807	119 570	5 254	109 080
<b>Molluscs</b>						
Abalone	851	34 755	890	36 289	877	31 508
Pipi (Goolwa cockle)	1 085	1 048	1 187	1 373	1 073	1 441
Squid	340	1 839	346	2 950	302	2 555
Other	392	974	362	1 181	449	1 709
Total	2 668	38 616	2 785	41 793	2 701	37 213
<b>Fish a</b>						
Australian salmon	456	552	577	694	159	269
Mullet	212	502	214	511	155	367
Australian herring	262	328	197	289	150	300
Snapper	648	3 314	533	3 174	413	2 801
King george whiting	390	4 684	398	5 476	352	4 298
Garfish	470	2 028	332	1 940	319	1 822
Leather jackets	395	583	202	411	501	626
Pilchard	12 165	8 516	21 741	17 827	33 160	22 549
Yellowfin whiting	148	863	181	1 067	163	910
Snook	99	242	112	263	81	206
Callop (golden perch)	97	475	64	706	80	812
Other species	1 165	2 453	896	1 498	1 029	1 283
Total	16 507	24 540	25 447	33 856	36 562	36 243
Other NEI	0	0	0	0	0	0
<b>Total wild caught</b>	24 882	206 779	33 039	195 219	44 517	182 536
<b>Aquaculture b</b>						
Atlantic salmon	64	596	0	0	0	0
Yabbies	8	95	7	93	10	153
Marron	11	282	22	533	18	480
Oysters	2 425	13 303	2 706	15 116	4 382	21 152
Southern bluefin tuna	9 245	260 500	9 102	266 907	9 290	242 000
Barramundi	255	2 653	471	6 166	216	2 255
Trout	26	192	18	156	40	330
Abalone	34	1 901	59	3 080	105	3 155
Mussels	171	371	254	466	400	697
Other c	270	2 779	1 077	8 769	894	7 534
Total	12 509	282 672	13 716	301 286	15 355	277 756
<b>Total production</b>	37 391	489 451	46 755	496 505	59 872	460 292

a Excludes shark from the southern shark fishery. b Excludes hatchery production. c Includes snapper, microalgae, murray cod, yellowtail, callop (golden perch) and aquarium fish. p Preliminary.

Sources: ABARE; South Australian Research and Development Institute.

# 12 Tasmanian fisheries production

	2001-02		2002-03 p		2003-04 s	
	t	\$'000	t	\$'000	t	\$'000
<b>Crustaceans</b>						
Rock lobster	1 518	64 450	1 409	51 707	1 601	44 921
Giant crab	108	3 477	56	1 644	64	1 643
Other	1	1	0	0	0	0
Total	1 627	67 929	1 465	53 351	1 665	46 564
<b>Molluscs</b>						
Abalone	2 928	120 451	2 389	97 855	2 645	88 655
Octopus	63	340	68	394	71	323
Scallop	0	0	164	276	3 542	4 014
Other	194	878	189	1 040	157	917
Total	3 185	121 669	2 809	99 565	6 414	93 909
<b>Fish a</b>						
Australian salmon	564	1 217	407	582	96	128
Cod	3	7	2	5	2	5
Garfish	88	425	92	457	63	312
Banded morwong	52	676	56	693	43	260
Jackass morwong	15	32	15	20	16	22
Elephant shark	18	40	16	28	10	18
Bastard trumpeter	24	84	21	83	21	109
Striped trumpeter	40	281	38	279	36	298
School whiting	40	63	40	63	55	102
Wrasse	90	818	72	635	72	593
Shark	70	284	67	240	60	263
Other	359	841	267	738	250	711
Total	1 362	4 769	1 093	3 822	726	2 820
Other NEI	146	5 529	135	4 231	75	2 513
<b>Total wild caught</b>	6 320	199 896	5 502	160 969	8 881	145 806
<b>Aquaculture b</b>						
Salmonids c	14 292	111 476	13 603	106 101	14 828	115 656
Oysters	2 188	11 566	3 125	11 561	3 243	11 998
Mussels	217	758	0	1 082	263	921
Other d	na	4 000	na	4 000	na	4 000
Total	16 697	127 800	16 728	122 744	18 334	132 575
<b>Total production</b>	23 017	327 696	22 230	283 713	27 214	278 381

**a** Excludes shark from the Commonwealth southern shark fishery; includes jack mackerel. **b** Excludes hatchery production. **c** Includes Atlantic salmon and ocean trout, weight in HOGG (head on, gilled and gutted). **d** Includes scallops, native oysters, seahorses and abalone. **p** Preliminary. **s** Estimates. **na** Not available.

Sources: ABARE; Tasmanian Department of Primary Industries, Water and Environment.

# 13 Northern Territory fisheries production

	2001-02		2002-03 <sup>p</sup>		2003-04 <sup>s</sup>	
	t	\$'000	t	\$'000	t	\$'000
<b>Crustaceans</b>						
Crab	1 121	10 324	547	5 035	437	4 473
Other	68	554	14	139	0	0
Total	1 189	10 878	561	5 174	437	4 473
<b>Molluscs</b>						
Scallops	2	4	1	3	0	0
Squid	9	49	25	82	0	0
Other	118	1 148	300	2 924	87	848
Total	129	1 202	327	3 009	87	848
<b>Fish</b>						
Tuna	6	23	6	20	8	29
Shark	489	2 250	969	6 191	1 102	7 053
Snapper	253	1 469	265	1 613	240	1 445
Barramundi	970	5 126	670	3 583	701	3 575
Threadfin salmon	366	743	261	573	375	699
Jewfish (mulloway)	413	1 690	180	469	232	580
Emperor	132	330	97	537	106	592
Cod	91	533	33	165	44	216
Mackerel	29	152	1 273	5 066	907	4 022
Gold band snapper	527	1 955	404	2 403	536	3 192
Sea perch	326	1 942	763	3 540	818	3 794
Other	656	3 043	192	676	202	620
Total	4 259	19 256	5 113	24 836	5 272	25 818
<b>Total wild caught</b>	5 578	31 336	6 001	33 019	5 796	31 139
<b>Aquaculture <sup>a</sup></b>	na	4 627 <sup>b</sup>	na	21 900	na	28 000
<b>Total production</b>	5 578	35 963	6 001	54 919	5 796	59 139

<sup>a</sup> Includes pearls and aquarium production. These values are based on derived estimates from a limited number of operators. Excludes hatchery production. Quantities not available due to confidentiality restrictions. <sup>b</sup> Harvesting of pearls in 2000-01 occurred in July and June, leaving no harvests in 2001-02. <sup>p</sup> Preliminary. <sup>s</sup> Estimates. **na** Not available.

Sources: ABARE; Northern Territory Department of Primary Industry and Fisheries.

# 14 Commonwealth fisheries production

	2001-02		2002-03 p		2003-04 s	
	t	\$'000	t	\$'000	t	\$'000
<b>Northern prawn</b>						
Prawn						
Tiger	1 958	48 321	1 969	34 640	2 186	32 072
Banana	5 419	71 910	3 325	42 797	3 516	36 043
Endeavour	1 132	13 130	395	4 543	418	4 388
King	2	31	3	47	1	12
Other prawns	7	42	6	21	71	610
Total prawns	8 518	133 434	5 699	82 048	6 192	73 126
Other species	224	1 201	62	492	85	854
Total	8 742	134 635	5 761	82 540	6 277	73 979
<b>Torres Strait</b>						
Prawn						
Tiger	706	13 510	665	10 700	630	8 511
Endeavour	889	8 221	750	6 902	681	5 194
King	167	2 109	122	1 586	81	932
Other prawns	3	22	5	17	4	9
Other a	73	710	52	582	37	378
Total	1 838	24 572	1 594	19 787	1 432	15 023
Tropical rock lobster	330	8 844	578	14 311	661	11 675
Spanish mackerel						
Spanish mackerel	120	639	198	1 240	152	914
Other species	13	148	0	0	2	5
Total	133	787	199	1 241	154	919
Reef Line b	na	na	107	1 327	136	1 521
Pearls	0	0	0	0	0	0
Total	2 302	34 203	2 477	36 666	2 383	29 138
<b>South east – trawl c</b>						
Orange roughy	3 422	12 491	4 162	15 066	2 385	7 919
Blue grenadier	9 157	18 039	8 865	14 184	8 651	10 987
Tiger flathead	2 855	11 933	3 366	8 180	3 707	8 007
Redfish	864	1 175	778	1 159	637	918
Blue warehou	328	499	281	488	279	605
Silver warehou	3 657	5 486	4 179	4 347	3 383	4 313
School whiting	509	1 533	607	1 239	449	950
Jackass morwong	795	1 646	851	1 361	717	1 261
Ling	1 179	3 606	1 053	5 531	1 091	4 962
Gemfish	221	852	267	828	176	493
Silver trevally	144	294	147	312	162	279
Mirror dory	406	795	623	1 090	617	1 219
Royal red prawn	378	1 250	232	655	192	317
Ocean perch	307	901	327	835	325	719
John dory	135	790	157	950	178	1 028
Blue eye	68	384	59	372	68	499
Gummy shark	108	520	100	388	99	486
School shark	32	166	39	148	29	90
Saw shark	77	164	123	366	134	288
Elephant fish	10	16	32	50	52	49
Other	3 630	7 508	4 310	8 187	4 574	8 718
Total	28 280	70 049	30 558	65 734	27 906	54 107

Continued

# 14 Commonwealth fisheries production *continued*

	2001-02		2002-03 p		2003-04 s	
	t	\$'000	t	\$'000	t	\$'000
<b>South east – nontrawl c</b>						
Blue eye	411	2 333	na	na	na	na
Blue warehou	23	35	na	na	na	na
Ling	457	2 317	na	na	na	na
Gummy shark	41	218	na	na	na	na
School shark	10	57	na	na	na	na
Saw shark	2	5	na	na	na	na
Elephant fish	2	4	na	na	na	na
Other	216	653	na	na	na	na
Total	1 162	5 620	na	na	na	na
<b>Southern shark c</b>						
School shark	307	1 784	na	na	na	na
Gummy shark	2 269	12 183	na	na	na	na
Saw shark	258	549	na	na	na	na
Elephant fish	72	110	na	na	na	na
Other shark	197	532	na	na	na	na
Other species	54	141	na	na	na	na
Total	3 157	15 298	na	na	na	na
<b>Gillnet, hook and trap fishery d</b>						
Blue eye	na	na	526	2 067	651	4 931
Blue warehou	na	na	5	8	2	4
Ling	na	na	544	2 854	554	2 592
Gummy shark	na	na	2 384	12 707	2 429	12 189
School shark	na	na	288	1 533	318	1 400
Saw shark	na	na	271	887	319	668
Elephant fish	na	na	90	141	46	24
Other shark	na	na	204	377	200	273
Other species	na	na	354	1 013	407	1 419
Total	na	na	4 665	21 587	4 926	23 500
<b>South Tasman Rise</b>	311	920	150	455	199	367
<b>Great Australian Bight c</b>						
Orange roughy	358	1 307	237	857	210	697
King flathead	918	2 589	1 657	4 608	2 466	6 386
Bight redfish	229	309	375	903	945	2 126
Leather jacket	119	274	213	415	348	526
Angel shark	118	325	184	302	245	577
Boarfish	104	215	80	175	158	368
Jackass morwong	44	90	79	126	128	224
Squid	46	51	166	170	169	223
Knifejaw	34	28	41	36	67	133
Gemfish	43	166	67	182	303	848
Blue grenadier	17	34	1	4	168	213
Queen snapper	23	67	25	104	65	366
Spotted trevalla	1	2	2	2	5	7
School shark	1	6	1	4	2	6
Gummy shark	32	154	37	142	78	383
Saw shark	34	72	65	213	65	139
Elephant fish	0	0	3	4	4	4
Other	306	665	150	330	356	868
Total	2 428	6 354	3 383	8 576	5 782	14 094

Continued



# 14 Commonwealth fisheries production *continued*

	2001-02		2002-03 <sup>p</sup>		2003-04 <sup>s</sup>	
	t	\$'000	t	\$'000	t	\$'000
<b>Eastern tuna and billfish – longline and minor line</b>						
Yellowfin	2 463	29 309	3 394	29 661	2 422	20 393
Skipjack	8	13	18	47	2	3
Albacore	666	1 439	494	989	557	957
Bigeye	1 019	16 747	936	11 397	795	8 448
Billfish	3 129	27 907	2 837	23 746	2 267	14 622
Other	1 064	3 529	844	2 074	925	2 408
Total	8 349	78 943	8 523	67 913	6 967	46 832
<b>Eastern skipjack tuna</b>						
Yellowfin	1	7	0	0	21	177
Skipjack	194	313	0	0	779	1 316
Other	12	28	0	0	0	1
Total	207	347	0	0	800	1 494
<b>Total east coast</b>	8 556	79 290	8 523	67 913	7 767	48 325
<b>Southern bluefin tuna</b>	5 296	72 432	5 409	77 840	5 080	38 147
<b>Western and southern tuna</b>						
Albacore	71	124	74	148	54	91
Skipjack	1 154	1 858	0	0	30	51
Yellowfin	429	3 864	266	2 375	162	951
Bigeye	458	6 130	281	3 417	159	1 699
Other tuna	25	63	41	103	10	24
Billfish	1 992	21 245	1 586	13 672	767	5 271
Other species	171	399	157	282	82	164
Total	4 300	33 684	2 404	19 998	1 262	8 252
<b>Bass Strait scallop</b>	0	0	421	694	1 113	1 475
<b>Other fisheries <sup>e</sup></b>	10 880	28 256	12 895	32 842	14 606	46 065
<b>Total production</b>	75 414	480 742	76 753	414 845	77 437	337 449

**a** Mainly Morten Bay bugs, scallops and squid. **b** Includes non-spanish mackerel fish caught by long line. **c** Shark converted to whole weight. **d** An amalgamation of South east nontrawl and Southern shark fisheries in 2002-03. **e** Includes north west slope, western deepwater, southern squid, jack mackerel, Macquarie Island, Coral Sea, Cocos and Christmas Islands, Victorian Inshore Trawl, Heard and MacDonald Islands, east coast deepwater, and Norfolk Island fisheries. **p** Preliminary. **s** Estimates. **na** Not available.

Sources: Australian Fisheries Management Authority; ABARE.

# 15 Australian aquaculture production in 2001-02, by state <sup>a</sup>

	NSW	Vic.	Qld	WA	SA	Tas.	NT	Aust.
<i>Value</i>	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000
<b>Fish</b>								
Salmon	0	0	0	0	596	111 476	na	112 072
Trout	2 020	10 666 <b>b</b>	0	0	192	0	na	12 877
Tuna	0	0	0	0	260 500	0	na	260 500
Silver perch	2 450	0	337	0	0	0	na	2 787
Barramundi	589	0	6 680	0	2 653	0	na	9 922
Other <sup>c</sup>	862	5 370	295	986	0	0	na	7 513
Total	5 921	16 035	7 312	986	263 941	111 476	na	405 671
<b>Crustaceans</b>								
Prawn	5 440	0	60 000	0	0	0	na	65 440
Yabbies	364	338	0	1 281	95	0	na	2 078
Marron	0	0	0	1 099	282	0	na	1 381
Redclaw	3	0	1 004	0	0	0	na	1 007
Total	5 807	338	61 004	2 380	377	0	na	69 906
<b>Molluscs</b>								
Edible oysters	31 538	0	520	0	13 303	11 566	na	56 927
Pearl oysters <sup>d</sup>	0	0	100	175 000	0	0	na	175 100
Mussels	383	3 734	0	1 853	371	758	na	7 099
Other <sup>e</sup>	0	631	0	0	1 901	0	na	2 532
Total	31 921	4 365	620	176 853	15 575	12 324	na	241 658
<b>Other NEI <sup>f</sup></b>	49	0	1 819	654	2 779	4 000	4 627	13 928
<b>Total value</b>	43 699	20 738	70 755	180 873	282 672	127 800	4 627	731 163
<b>Quantity</b>	t	t	t	t	t	t	t	t
<b>Fish</b>								
Salmon	0	0	0	0	64	14 292	na	14 356
Trout	251	1 587 <b>b</b>	0	0	26	0	na	1 864
Tuna	0	0	0	0	9 245	0	na	9 245
Silver perch	278	0	44	0	0	0	na	322
Barramundi	55	0	840	0	255	0	na	1 150
Other <sup>c</sup>	43	149	46	94	0	0	na	332
Total	627	1 736	930	94	9 590	14 292	na	27 269
<b>Crustaceans</b>								
Prawn	346	0	3 411	0	0	0	na	3 757
Yabbies	32	31	0	102	8	0	na	172
Marron	0	0	0	47	11	0	na	58
Redclaw	0	0	75	0	0	0	na	75
Total	377	31	3 486	149	19	0	na	4 062
<b>Molluscs</b>								
Edible oysters	5 507	0	116	0	2 425	2 188	na	10 236
Pearl oysters	0	0	0	0	0	0	na	0
Mussels	77	1 582	0	743	171	217	na	2 789
Other <sup>e</sup>	0	13	0	0	34	0	na	47
Total	5 584	1 595	116	743	2 630	2 405	na	13 072
<b>Other NEI <sup>f</sup></b>	0	0	72	0	270	0	0	342
<b>Total quantity</b>	6 589	3 361	4 604	986	12 509	16 697	na	44 746

<sup>a</sup> Excludes hatchery production, crocodiles, microalgae and aquarium worms. <sup>b</sup> Includes salmon production. <sup>c</sup> Includes eels, other native fish and aquarium fish. <sup>d</sup> Total value of pearl production will be an underestimate as it excludes the value of production in NT which remains confidential. <sup>e</sup> Includes scallops, giant clams and abalone. <sup>f</sup> Includes aquaculture production not elsewhere specified due to confidentiality restrictions. In Victoria, this includes abalone, warmwater finfish, ornamental fish, other shellfish, shrimps and aquatic worms. In Western Australia, this includes some other crustaceans and molluscs not specified above. In South Australia, this includes snapper, microalgae, aquarium species, murray cod and callop. Total only sums across. **na** Not available.

Sources: ABARE; Qld Bribie Island Aquaculture Research Centre; Vic. Marine and Freshwater Resources Institute; NSW Fisheries; NT Department of Primary Industries and Fisheries; SA Research and Development Institute; Tas. Department of Primary Industries, Water and Environment; Department of Fisheries, WA.

# 16 Australian aquaculture production in 2002-03, by state a

<i>Value</i>	NSW	Vic.	Qld	WA	SA	Tas.	NT	Aust.
\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000
<b>Fish</b>								
Salmon	0	0	0	0	0	106 101	na	106 101
Trout	1 440	11 032 <b>b</b>	0	0	156	0	na	12 628
Tuna	0	0	0	0	266 907	0	na	266 907
Silver perch	2 812	0	336	0	0	0	na	3 148
Barramundi	905	0	9 008	0	6 166	0	na	16 079
Other <b>c</b>	1 244	4 862	350	1 861	0	0	na	8 317
Total	6 401	15 894	9 694	1 861	273 229	106 101	na	413 180
<b>Crustaceans</b>								
Prawn	6 178	0	49 890	0	0	0	na	56 068
Yabbies	431	133	0	1 040	93	0	na	1 697
Marron	0	0	0	1 082	533	0	na	1 615
Redclaw	6	0	1 049	0	0	0	na	1 055
Total	6 621	133	50 939	2 122	626	0	na	60 441
<b>Molluscs</b>								
Edible oysters	34 700	0	693	0	15 116	11 561	na	62 070
Pearl oysters <b>d</b>	0	0	0	150 000	0	0	na	150 000
Mussels	334	3 624	0	1 607	466	1 082	na	7 113
Other <b>e</b>	0	1 097	0	0	3 080	0	na	4 177
Total	35 034	4 721	693	151 607	18 662	12 643	na	223 360
<b>Other NEI <b>f</b></b>	530	0	1 577	713	8 769	4 000	21 900	37 489
<b>Total value</b>	48 586	20 748	62 903	156 303	301 286	122 744	21 900	734 470
<b>Quantity</b>	t	t	t	t	t	t	t	t
<b>Fish</b>								
Salmon	0	0	0	0	0	13 603	na	13 603
Trout	200	1 593 <b>b</b>	0	0	18	0	na	1 811
Tuna	0	0	0	0	9 102	0	na	9 102
Silver perch	302	0	43	0	0	0	na	345
Barramundi	85	0	1 194	0	471	0	na	1 750
Other <b>c</b>	63	126	49	246	0	0	na	484
Total	650	1 719	1 286	246	9 591	13 603	na	27 095
<b>Crustaceans</b>								
Prawn	409	0	2 956	0	0	0	na	3 365
Yabbies	32	7	0	75	7	0	na	121
Marron	0	0	0	46	22	0	na	68
Redclaw	300	0	75	0	0	0	na	375
Total	741	7	3 032	121	29	0	na	3 930
<b>Molluscs</b>								
Edible oysters	5 603	0	0	0	2 706	3 125	na	11 433
Pearl oysters	0	0	0	0	0	0	na	0
Mussels	67	1 294	0	653	254	0	na	2 268
Other <b>e</b>	0	24	0	0	59	0	na	83
Total	5 669	1 318	0	653	3 019	3 125	na	13 784
<b>Other NEI <b>f</b></b>	0	0	57	0	1 077	0	0	1 134
<b>Total quantity</b>	7 061	3 044	4 375	1 020	13 716	16 728	na	45 943

**a** Excludes hatchery production, crocodiles, microalgae and aquarium worms. **b** Includes salmon production. **c** Includes eels, other native fish and aquarium fish. **d** Total value of pearl production will be an underestimate as it excludes the value of production in NT which remains confidential. **e** Includes scallops, giant clams and abalone. **f** Includes aquaculture production not elsewhere specified due to confidentiality restrictions. In Victoria, this includes abalone, warmwater finfish, ornamental fish, other shellfish, shrimps and aquatic worms. In Western Australia, this includes some other crustaceans and molluscs not specified above. In South Australia, this includes snapper, microalgae, aquarium species, murray cod and callop. Total only sums across. **na** Not available.

Sources: ABARE; Qld Bribie Island Aquaculture Research Centre; Vic. Marine and Freshwater Resources Institute; NSW Fisheries; NT Department of Primary Industries and Fisheries; SA Research and Development Institute; Tas. Department of Primary Industries, Water and Environment; Department of Fisheries, WA.

# 17 Australian aquaculture production in 2003-04, by state a

<i>Value</i>	NSW	Vic.	Qld	WA	SA	Tas.	NT	Aust.
	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000
<b>Fish</b>								
Salmon	5	0	0	0	0	115 656	na	115 662
Trout	1 552	11 008 <b>b</b>	0	0	330	0	na	12 890
Tuna	0	0	0	0	242 000	0	na	242 000
Silver perch	2 322	0	400	0	0	0	na	2 722
Barramundi	1 128	0	10 000	0	2 255	0	na	13 383
Other c	1 070	3 631	250	2 689	0	0	na	7 640
Total	6 077	14 639	10 650	2 689	244 585	115 656	na	394 297
<b>Crustaceans</b>								
Prawn	4 432	0	51 500	0	0	0	na	55 932
Yabbies	354	62	0	458	153	0	na	1 027
Marron	0	0	0	1 090	480	0	na	1 570
Redclaw	3	0	1 000	0	0	0	na	1 003
Total	4 788	62	52 500	1 548	633	0	na	59 531
<b>Molluscs</b>								
Edible oysters	37 921	0	750	0	21 152	11 998	na	71 822
Pearl oysters d	0	0	0	150 000	0	0	na	150 000
Mussels	261	3 185	0	2 063	697	921	na	7 127
Other e	0	3 554	0	0	3 155	0	na	6 709
Total	38 182	6 739	750	152 063	25 004	12 919	na	235 657
<b>Other NEI f</b>	600	0	1 650	542	7 534	4 000	28 000	42 326
<b>Total value</b>	49 648	21 440	65 550	156 842	277 756	132 575	28 000	731 811
<b>Quantity</b>	t	t	t	t	t	t	t	t
<b>Fish</b>								
Salmon	1	0	0	0	0	14 828	na	14 828
Trout	170	1 640 <b>b</b>	0	0	40	0	na	1 850
Tuna	0	0	0	0	9 290	0	na	9 290
Silver perch	239	0	48	0	0	0	na	287
Barramundi	101	0	1 250	0	216	0	na	1 567
Other c	39	60	35	344	0	0	na	478
Total	550	1 700	1 333	344	9 546	14 828	na	28 301
<b>Crustaceans</b>								
Prawn	363	0	3 200	0	0	0	na	3 563
Yabbies	28	5	0	32	10	0	na	75
Marron	0	0	0	49	18	0	na	67
Redclaw	0	0	75	0	0	0	na	75
Total	392	5	3 275	81	28	0	na	3 781
<b>Molluscs</b>								
Edible oysters	0	0	0	0	4 382	3 243	na	7 625
Pearl oysters	0	0	0	0	0	0	na	0
Mussels	44	1 138	0	763	400	263	na	2 608
Other e	0	102	0	0	105	0	na	207
Total	44	1 240	0	763	4 887	3 506	na	10 440
<b>Other NEI f</b>	0	0	60	0	894	0	0	954
<b>Total quantity</b>	986	2 945	4 668	1 188	15 355	18 334	0	43 475

**a** Excludes hatchery production, crocodiles, microalgae and aquarium worms. **b** Includes salmon production. **c** Includes eels, other native fish and aquarium fish. **d** Total value of pearl production will be an underestimate as it excludes the value of production in NT which remains confidential. **e** Includes scallops, giant clams and abalone. **f** Includes aquaculture production not elsewhere specified due to confidentiality restrictions. In Victoria, this includes abalone, warmwater finfish, ornamental fish, other shellfish, shrimps and aquatic worms. In Western Australia, this includes some other crustaceans and molluscs not specified above. In South Australia, this includes snapper, microalgae, aquarium species, murray cod and callop. Total only sums across. **na** Not available.

**Sources:** ABARE; Qld Bribie Island Aquaculture Research Centre; Vic. Marine and Freshwater Resources Institute; NSW Fisheries; NT Department of Primary Industries and Fisheries; SA Research and Development Institute; Tas. Department of Primary Industries, Water and Environment; Department of Fisheries, WA.

# 18 Australian exports of fisheries products

	2001-02		2002-03		2003-04 p	
	t	\$'000	t	\$'000	t	\$'000
<b>Edible</b>						
<b>Fish</b>						
Live	na	47 271	na	46 991	na	39 316
Fresh, chilled or frozen						
Whole						
Tuna <b>a</b>	13 503	319 215	12 424	319 604	12 560	271 724
Other	10 683	64 315	11 672	57 073	7 874	39 361
Fillets	3 996	27 385	3 237	24 455	2 779	17 007
Canned	773	5 165	714	5 031	834	6 354
Dried, salted and smoked	178	15 958	222	18 608	187	19 471
Other fish products	2 263	22 517	1 783	13 439	1 736	16 748
<b>Total fish <b>b</b></b>	31 396	501 826	30 052	485 201	25 970	409 980
<b>Crustaceans and molluscs</b>						
Rock lobster	10 942	492 608	11 535	463 106	13 453	426 833
Prawns	11 925	262 827	9 532	208 245	9 396	160 603
Abalone	4 010	263 128	4 193	216 115	4 910	237 680
Scallops	1 488	34 433	1 165	28 686	1 464	34 916
Oysters	219	3 501	163	1 742	119	1 182
Crabs	2 256	29 863	1 714	21 087	1 616	17 491
Other	2 058	73 468	1 807	60 672	1 592	30 648
<b>Total</b>	32 898	1 159 827	30 109	999 654	32 548	909 353
<b>Total edible <b>b</b></b>	64 294	1 661 653	60 161	1 484 854	58 518	1 319 333
<b>Nonedible</b>						
Marine fats and oils	na	1 545	na	1 721	na	2 305
Fish meal	na	26 967	na	20 103	na	15 212
Pearls <b>c</b>	na	404 413	na	331 957	na	310 365
Ornamental fish	na	2 040	na	1 726	na	1 858
Other nonedible	na	3 503	na	4 079	na	2 816
<b>Total nonedible</b>	na	438 466	na	359 586	na	332 556
<b>Total fisheries products</b>	na	2 100 120	na	1 844 440	na	1 651 889

**a** Exports of tuna landed in Australia. **b** Excludes live tonnage but includes live value. **c** From 1999-2000 value of pearl exports includes items temporarily exported. **p** Preliminary. **na** Not available.

Source: ABS, *International Trade*, electronic data service, cat. no. 5464.0, Canberra.

# 19 Australian exports of fish

	2001-02		2002-03		2003-04 p	
	t	\$'000	t	\$'000	t	\$'000
<b>Tuna a</b>						
Whole						
Fresh or chilled	8 384	165 037	6 132	106 525	6 675	125 405
Frozen	5 119	154 178	6 292	213 079	5 885	146 319
Canned	135	1 219	183	1 298	238	1 612
Other	214	5 406	15	54	15	120
Total	13 852	325 840	12 622	320 956	12 813	273 456
<b>Salmon</b>						
Whole						
Fresh or chilled	1 470	13 522	705	6 923	206	1 678
Frozen	127	1 434	254	3 457	25	497
Smoked	29	807	68	1 248	25	504
Canned	27	389	44	434	196	1 480
Total	1 653	16 151	1 071	12 063	453	4 158
<b>Other fish</b>						
Live	na	47 271	na	46 991	na	39 316
Whole						
Fresh or chilled	2 234	27 193	2 552	24 974	2 026	20 638
Frozen						
Whiting	933	2 261	1 175	3 052	1 005	2 217
Other	5 920	19 906	6 985	18 665	4 611	14 333
Fillets						
Fresh or chilled	645	6 663	343	4 238	119	1 394
Frozen	3 350	20 722	2 894	20 217	2 661	15 612
Other (fresh, chilled or frozen)	1 985	15 176	1 701	11 985	1 656	14 977
Canned	611	3 557	488	3 300	400	3 262
Dried, salted and smoked	149	15 151	155	17 360	162	18 967
Other	63	1 935	67	1 400	65	1 651
Total b	15 891	159 836	16 359	152 182	12 704	132 366
<b>Total fish b</b>	31 396	501 826	30 052	485 201	25 970	409 980

a Exports of tuna landed in Australia. b Excludes live tonnage but includes live value. p Preliminary. na Not available.

Source: ABS, *International Trade*, electronic data service, cat. no. 5464.0, Canberra.

# 20 Australian exports of crustaceans and molluscs

	2001-02		2002-03		2003-04 p	
	t	\$'000	t	\$'000	t	\$'000
<b>Rock lobster</b>						
Whole						
Live, fresh or chilled	6 649	307 341	5 873	228 064	7 202	227 898
Frozen	788	28 941	775	25 184	836	20 820
Cooked	2 261	84 109	2 821	90 548	2 852	69 782
Tails (fresh, chilled or frozen)	870	65 362	1 698	112 922	2 062	102 506
Other	374	6 855	368	6 388	501	5 829
Total	10 942	492 608	11 535	463 106	13 453	426 833
<b>Prawns</b>						
Headless	785	18 607	580	12 002	307	5 353
Whole	10 870	239 367	8 739	192 567	8 852	151 488
Other	270	4 853	213	3 676	237	3 762
Total	11 925	262 827	9 532	208 245	9 396	160 603
<b>Crabs</b>						
Fresh, frozen or cooked	2 255	29 843	1 711	21 064	1 611	17 451
Other	1	19	2	23	5	40
Total	2 256	29 863	1 714	21 087	1 616	17 491
<b>Abalone</b>						
Fresh, chilled or frozen	2 007	122 987	1 701	109 277	2 119	117 482
Canned	2 003	140 141	2 493	106 838	2 791	120 198
Total	4 010	263 128	4 193	216 115	4 910	237 680
<b>Scallops</b>						
Fresh, chilled or frozen	1 403	31 639	1 130	26 639	1 460	34 789
Other	85	2 794	35	2 048	4	126
Total	1 488	34 433	1 165	28 686	1 464	34 916
<b>Other</b>	2 277	76 968	1 970	62 415	1 711	31 830
<b>Total crustaceans and molluscs</b>	32 898	1 159 827	30 109	999 654	32 548	909 353

p Preliminary.

Source: ABS, *International Trade*, electronic data service, cat. no. 5464.0, Canberra.

# 21 Australian exports of edible fish, by destination

	2001-02		2002-03		2003-04 p	
	t	\$'000	t	\$'000	t	\$'000
<b>Tuna a</b>						
<b>Fresh or chilled (whole)</b>						
Chinese Taipei	3	46	0	0	0	0
Japan	7 422	152 424	5 544	99 183	6 396	121 807
Singapore	4	40	19	196	0	0
Thailand	77	148	50	156	0	2
United States	836	12 043	488	6 665	227	3 247
Other	42	337	30	325	53	349
Total	8 384	165 037	6 132	106 525	6 675	125 405
<b>Frozen (whole)</b>						
Japan	4 845	153 018	6 097	212 082	5 595	145 434
Samoa	13	45	109	289	135	321
Thailand	174	526	50	138	92	289
United States	36	387	34	553	23	174
Other	51	201	1	17	40	100
Total	5 119	154 178	6 292	213 079	5 885	146 319
<b>Salmon</b>						
<b>Fresh or chilled (whole)</b>						
Chinese Taipei	1	35	1	69	0	0
Hong Kong, China	14	268	7	160	4	69
Indonesia	52	385	18	153	22	230
Japan	1 220	11 139	639	5 888	172	1 280
Korea, Rep. of	0	0	0	0	0	0
Singapore	14	181	5	55	1	19
United States	156	1 377	28	505	0	3
Other	12	137	8	94	6	76
Total	1 470	13 522	705	6 923	206	1 678
<b>Frozen (whole)</b>						
Chinese Taipei	0	13	0	2	0	1
Hong Kong, China	9	178	12	230	5	128
Japan	97	855	177	2 242	4	69
Korea, Rep. of	0	1	0	8	0	0
Thailand	5	113	12	122	5	102
United States	1	10	21	361	0	2
Other	15	264	31	492	10	193
Total	127	1 434	254	3 457	25	497
<b>Whiting</b>						
<b>Frozen (whole)</b>						
Chinese Taipei	0	0	0	0	0	0
Egypt	0	0	0	0	0	0
Hong Kong, China	16	34	0	4	0	0
Japan	33	72	16	78	139	307
Thailand	758	1 800	908	2 348	469	1 032
United States	0	0	0	0	0	1
Viet Nam	0	0	0	0	0	0
Other	126	355	251	623	397	877
Total	933	2 261	1 175	3 052	1 005	2 217

Continued



# 21 Australian exports of edible fish, by destination *continued*

	2001-02		2002-03		2003-04 <b>p</b>	
	t	\$'000	t	\$'000	t	\$'000
<b>Canned</b>						
<b>Tuna</b>						
New Zealand	112	915	170	1 206	218	1 403
Singapore	0	2	0	0	0	0
Other	23	301	13	92	20	209
Total	135	1 219	183	1 298	238	1 612
<b>Salmon</b>						
New Zealand	17	249	39	349	192	1 432
Singapore	4	47	0	7	0	0
Other	7	92	4	78	5	48
Total	27	389	44	434	196	1 480
<b>Other fish</b>						
New Zealand	183	1 162	160	1 025	178	1 039
Singapore	120	899	110	746	134	903
Other	308	1 496	218	1 529	89	1 321
Total	611	3 557	488	3 300	400	3 262

**a** Exports of tuna landed in Australia. **p** Preliminary.

Source: ABS, *International Trade*, electronic data service, cat. no. 5464.0, Canberra.

# 22 Australian exports of crustaceans, by destination

	2001-02		2002-03		2003-04 p	
	t	\$'000	t	\$'000	t	\$'000
<b>Rock lobster</b>						
<b>Whole</b>						
Live, fresh or chilled						
China	180	8 362	199	8 317	129	4 711
Chinese Taipei	881	37 357	686	21 722	920	24 943
France	78	3 120	80	3 339	82	2 189
Hong Kong, China	3 938	187 254	3 481	140 258	4 658	154 347
Japan	1 413	63 115	1 332	50 233	1 276	36 889
Singapore	45	2 110	31	1 361	34	1 275
United States	52	2 943	9	402	16	531
Other	62	3 081	55	2 432	88	3 012
Total	6 649	307 341	5 873	228 064	7 202	227 898
Frozen						
China	42	1 305	59	1 437	132	2 970
Chinese Taipei	183	6 663	109	4 036	87	1 974
Hong Kong, China	3	136	3	55	19	472
Japan	387	13 757	569	18 402	532	13 776
Singapore	6	234	1	25	22	484
United States	144	6 469	28	1 057	21	525
Other	22	376	6	172	23	619
Total	788	28 941	775	25 184	836	20 820
Cooked						
China	63	2 475	626	16 723	1 366	31 749
Chinese Taipei	1 030	38 301	761	25 972	362	8 631
Hong Kong, China	42	1 745	120	4 022	73	1 924
Japan	785	28 676	1 039	34 100	669	17 727
Singapore	265	10 519	250	9 061	251	5 861
Other	75	2 392	25	671	131	3 890
Total	2 261	84 109	2 821	90 548	2 852	69 782
<b>Tails</b>						
Fresh, chilled or frozen						
Chinese Taipei	5	327	32	1 244	0	0
Hong Kong, China	3	191	16	809	10	475
Japan	18	1 742	57	3 101	141	5 894
Singapore	0	31	2	135	2	131
United States	831	61 932	1 476	102 178	1 757	90 023
Other	14	1 141	116	5 454	151	5 983
Total	870	65 362	1 698	112 922	2 062	102 506
<b>Other</b>						
Chinese Taipei	5	159	11	402	0	0
Hong Kong, China	59	2 409	8	279	18	285
Japan	300	3 762	296	4 164	414	3 173
United States	3	266	18	762	47	1 645
Other	7	259	36	781	22	726
Total	374	6 855	368	6 388	501	5 829
<b>Total rock lobster</b>	<b>10 942</b>	<b>492 608</b>	<b>11 535</b>	<b>463 106</b>	<b>13 453</b>	<b>426 833</b>

Continued

## 22 Australian exports of crustaceans, by destination *continued*

	2001-02		2002-03		2003-04 p	
	t	\$'000	t	\$'000	t	\$'000
<b>Prawns</b>						
<b>Headless</b>						
China	18	64	0	0	0	0
Chinese Taipei	12	280	0	0	1	24
Hong Kong, China	14	310	14	318	3	34
Japan	539	14 227	428	9 613	179	3 917
Spain	28	375	0	0	0	0
United States	98	2 445	10	298	1	33
Other	75	906	127	1 773	123	1 345
Total	785	18 607	580	12 002	307	5 353
<b>Whole</b>						
China	1 414	23 262	780	14 914	1 151	15 777
Chinese Taipei	254	5 440	219	5 153	184	3 997
Hong Kong, China	1 777	32 940	1 388	26 874	925	15 985
Japan	4 194	129 283	3 815	105 331	3 063	62 751
Malaysia	180	3 112	214	3 890	274	3 723
New Zealand	253	3 223	237	3 365	175	2 313
Spain	915	15 549	1 223	17 214	1 697	23 069
Thailand	1 076	15 066	90	1 102	124	1 442
Other	807	11 491	773	14 724	1 259	22 431
Total	10 870	239 367	8 739	192 567	8 852	151 488
<b>Other</b>						
China	17	62	0	0	0	0
Chinese Taipei	12	309	8	169	20	372
Japan	49	1 459	15	345	9	181
Singapore	19	379	30	556	25	523
United States	11	372	0	0	1	27
Other	161	2 271	161	2 606	182	2 660
Total	270	4 853	213	3 676	237	3 762
<b>Total prawns</b>	11 925	262 827	9 532	208 245	9 396	160 603
<b>Crabs</b>						
<b>Fresh, frozen or cooked</b>						
China	221	4 643	157	4 165	119	2 009
Chinese Taipei	945	8 679	752	6 954	582	5 045
Hong Kong, China	198	2 487	182	2 186	212	2 852
Japan	460	5 577	418	3 948	552	5 126
Singapore	131	2 105	36	799	19	461
United States	201	4 548	103	2 005	52	1 054
Other	98	1 803	64	1 007	75	902
Total	2 255	29 843	1 711	21 064	1 611	17 451
<b>Other crabs</b>	1	19	2	23	5	40
<b>Total crabs</b>	2 256	29 863	1 714	21 087	1 616	17 491
<b>Other crustaceans</b>						
China	35	742	169	2 256	1	26
Hong Kong, China	787	34 717	706	30 031	249	8 533
Japan	112	2 277	92	2 171	122	1 800
Switzerland	12	245	9	178	9	160
Other	232	7 602	157	4 798	95	2 556
Total	1 178	45 584	1 134	39 433	475	13 076
<b>Total crustaceans</b>	26 301	830 882	23 914	731 871	24 939	618 003

p Preliminary.

Source: ABS, *International Trade*, electronic data service, cat. no. 5464.0, Canberra.

# 23 Australian exports of molluscs, by destination

	2001-02		2002-03		2003-04 p	
	t	\$'000	t	\$'000	t	\$'000
<b>Abalone</b>						
<b>Fresh, chilled or frozen</b>						
China	51	5 613	30	3 141	20	1 532
Chinese Taipei	190	9 368	159	8 536	137	6 088
Hong Kong, China	1 210	70 354	1 129	71 567	1 551	87 086
Japan	507	33 160	351	22 574	377	19 985
Singapore	15	1 113	7	441	14	781
United States	9	774	7	708	8	746
Other	25	2 606	17	2 310	12	1 264
Total	2 007	122 987	1 701	109 277	2 119	117 482
<b>Canned</b>						
Chinese Taipei	396	26 145	207	8 403	428	16 366
Hong Kong, China	606	34 928	901	29 309	1 222	53 210
Japan	392	30 278	584	29 629	596	25 309
Singapore	300	24 637	326	20 088	344	16 744
United States	51	4 300	118	3 231	91	3 391
Other	258	19 854	356	16 177	110	5 178
Total	2 003	140 141	2 493	106 838	2 791	120 198
<b>Total abalone</b>	4 010	263 128	4 193	216 115	4 910	237 680
<b>Scallops</b>						
<b>Fresh, chilled or frozen</b>						
China	1	11	0	5	0	0
France	0	0	0	0	0	0
Hong Kong, China	971	21 270	769	18 732	1 096	26 109
Malaysia	103	2 471	72	1 611	54	1 287
Singapore	305	7 389	246	5 392	249	5 715
Other	23	498	44	899	60	1 678
<b>Total</b>	1 403	31 639	1 130	26 639	1 460	34 789
<b>Other scallops</b>	85	2 794	35	2 048	4	126
<b>Total scallops</b>	1 488	34 433	1 165	28 686	1 464	34 916
<b>Other molluscs</b>						
Chinese Taipei	89	4 040	54	2 243	38	1 500
Hong Kong, China	419	13 817	349	10 083	499	8 997
Japan	180	8 704	152	7 178	110	4 837
Singapore	110	2 805	95	2 416	41	1 452
Malaysia	10	353	3	13	0	2
Other	291	1 665	183	1 049	547	1 966
<b>Total</b>	1 099	31 384	836	22 981	1 235	18 754
<b>Total molluscs</b>	6 597	328 945	6 194	267 783	7 608	291 350

p Preliminary.

Source: ABS, *International Trade*, electronic data service, cat. no. 5464.0, Canberra.

# 24 Australian exports of fisheries products, by destination

	2001-02		2002-03		2003-04 p	
	t	\$'000	t	\$'000	t	\$'000
<b>Edible (excluding live)</b>						
China	4 652	70 867	5 111	72 266	4 735	68 543
Chinese Taipei	4 374	144 842	3 255	90 043	3 019	73 658
France	712	8 373	373	8 370	638	13 130
Germany	195	1 542	346	1 300	933	4 018
Greece	370	2 941	537	10 215	861	16 013
Hong Kong, China	10 769	428 310	9 769	355 503	11 265	381 414
Indonesia	521	2 774	502	2 220	626	2 712
Italy	179	2 724	209	3 113	162	1 949
Japan	25 995	679 480	23 826	627 772	22 482	489 157
Korea, Rep. of	100	1 841	100	1 618	13	354
Malaysia	517	11 960	523	10 242	500	8 167
New Zealand	894	7 740	1 208	8 694	1 132	8 535
Singapore	2 155	58 224	1 478	46 393	1 409	38 046
South Africa	70	1 500	30	610	92	546
Spain	1 084	16 766	1 271	17 825	1 793	23 795
Thailand	3 401	22 767	1 927	7 882	1 135	4 585
United States	5 142	130 694	4 889	152 076	4 268	125 706
Viet Nam	111	751	71	596	242	2 672
Other	3 052	20 287	4 737	21 126	3 213	17 016
Total	64 294	1 614 382	60 161	1 437 863	58 518	1 280 017
<b>Nonedible</b>						
China	na	1 991	na	2 216	na	1 084
Chinese Taipei	na	2 198	na	2 639	na	2 140
France	na	5 086	na	9 276	na	3 465
Germany	na	6 778	na	5 117	na	6 413
Hong Kong, China	na	40 422	na	77 656	na	170 763
Italy	na	432	na	1 195	na	1 893
Japan	na	18 232	na	28 154	na	37 153
Korea, Rep. of	na	2 601	na	2 655	na	3 041
New Zealand	na	24 363	na	19 338	na	14 557
Philippines	na	334	na	7	na	456
Singapore	na	6 692	na	3 195	na	2 941
Switzerland	na	5 599	na	2 724	na	2 092
Spain	na	1 864	na	1 749	na	1 603
Thailand	na	489	na	59	na	1 306
United Kingdom	na	8 382	na	7 435	na	11 774
United States	na	40 861	na	46 543	na	28 890
Other	na	272 142	na	149 627	na	42 984
Total	na	438 466	na	359 586	na	332 556
<b>Total exports</b>	na	2 052 848	na	1 797 449	na	1 612 573

p Preliminary. na Not available.

Source: ABS, *International Trade*, electronic data service, cat. no. 5464.0, Canberra.

# 25 Australian exports of seafood to selected countries, by product

	2001-02		2002-03		2003-04 p	
	t	\$'000	t	\$'000	t	\$'000
<b>Hong Kong, China</b>						
Dried, salted or smoked fish	95	13 834	106	14 792	124	17 187
Other fish	540	8 869	553	3 956	603	3 786
Rock lobster	4 045	191 734	3 627	145 422	4 778	157 502
Prawns	1 813	33 516	1 413	27 389	929	16 058
Crabs	198	2 489	182	2 186	212	2 852
Abalone	1 816	105 281	2 029	100 876	2 773	140 296
Scallops	1 055	24 052	803	20 768	1 099	26 202
Other	1 206	48 535	1 055	40 114	747	17 531
Total	10 769	428 310	9 769	355 503	11 265	381 414
<b>Japan</b>						
Tuna (whole)	12 267	305 443	11 641	311 265	11 990	267 242
Filletts	807	3 420	266	1 689	219	1 222
Dried, salted or smoked fish	16	474	26	432	14	305
Other fish	3 566	34 066	2 727	23 407	2 200	18 011
Rock lobster	2 903	111 053	3 293	110 001	3 032	77 459
Prawns	4 782	144 970	4 258	115 288	3 252	66 849
Crabs	460	5 585	418	3 948	552	5 126
Abalone	899	63 438	936	52 203	974	45 295
Scallops	2	50	17	190	17	1 011
Other	292	10 981	244	9 349	232	6 637
Total	25 995	679 480	23 826	627 772	22 482	489 157
<b>Singapore</b>						
Tuna (whole)	19	83	19	197	0	0
Filletts	125	811	85	574	27	190
Dried, salted or smoked fish	7	617	10	1 991	11	1 323
Canned fish	124	948	110	753	134	903
Other fish	578	2 523	180	1 585	197	1 540
Rock lobster	317	12 899	284	10 584	309	7 751
Prawns	107	1 936	64	1 137	56	932
Crabs	131	2 105	36	799	19	461
Abalone	316	25 750	333	20 530	357	17 525
Scallops	305	7 389	246	5 394	249	5 715
Other	126	3 163	110	2 851	49	1 707
Total	2 155	58 224	1 478	46 393	1 409	38 046

Continued

# 25 Australian exports of seafood to selected countries, by product *continued*

	2001-02		2002-03		2003-04 p	
	t	\$'000	t	\$'000	t	\$'000
<b>Chinese Taipei</b>						
Fish	331	6 299	233	4 596	260	4 665
Rock lobster	2 104	82 806	1 599	53 377	1 369	35 547
Prawns	279	6 029	226	5 322	204	4 392
Crabs	945	8 679	752	6 954	582	5 045
Abalone	586	35 513	367	16 939	565	22 454
Scallops	1	35	3	86	0	0
Other	128	5 480	75	2 769	39	1 554
Total	4 374	144 842	3 255	90 043	3 019	73 658
<b>United States</b>						
Filletts	1 461	15 763	1 194	15 411	768	8 541
Canned fish	41	179	62	361	17	249
Other fish	2 036	23 907	1 782	22 153	1 386	15 455
Rock lobster	1 068	72 577	1 547	104 807	1 864	93 909
Prawns	155	3 723	24	625	57	1 249
Crabs	201	4 548	103	2 005	52	1 054
Abalone	60	5 074	125	3 939	99	4 137
Scallops	0	0	2	63	1	74
Other	121	4 922	51	2 712	23	1 038
Total	5 142	130 694	4 889	152 076	4 268	125 706
<b>China</b>						
Fish	2 383	7 730	2 737	6 372	1 537	5 428
Rock lobster	289	12 679	937	28 276	1 695	40 820
Prawns	1 450	23 388	780	14 914	1 151	15 777
Crabs	221	4 643	157	4 165	119	2 009
Other	309	22 427	500	18 539	232	4 510
Total	4 652	70 867	5 111	72 266	4 735	68 543
<b>APEC</b>						
Tuna	13 801	325 616	12 474	320 510	12 609	272 807
Salmon	1 626	15 740	1 051	11 645	434	3 876
Other fish	14 121	145 311	13 240	137 797	10 296	118 965
Rock lobster	10 768	485 846	11 327	454 247	13 101	414 821
Prawns	10 259	237 087	7 505	175 524	6 369	113 819
Abalone	3 992	262 463	4 181	215 426	4 898	237 210
Scallops	1 485	34 383	1 163	28 598	1 445	34 668
Oysters	218	3 486	163	1 735	116	1 149
Crabs	2 218	29 324	1 668	20 516	1 591	17 102
Other crustaceans and molluscs	1 966	72 099	1 668	59 373	1 376	28 855
Total	60 454	1 611 356	54 438	1 425 370	52 235	1 243 272

a Excludes live. p Preliminary.

Source: ABS, *International Trade*, electronic data service, cat. no. 5464.0, Canberra.

# 26 Australian seafood exports in 2001-02, by state

	NSW	Vic.	Qld	WA	SA	Tas.	NT	Aust. <sup>b</sup>
<b>Value</b>	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000
<b>Fish</b>								
Live	2 269	1 733	42 939	5	180	145	0	47 271
Fresh, chilled or frozen								
Whole	15 397	3 035	52 961	31 719	262 549	14 803	2 441	383 530
Fillets	1 052	3 353	3 366	2 017	1 098	16 125	32	27 385
Other	3 217	3 009	24 157	3 048	5 609	2 191	174	43 640
Total fish	21 935	11 129	123 422	36 789	269 436	33 264	2 647	501 826
<b>Crustaceans and molluscs</b>								
Rock lobster	4 733	26 040	12 680	329 525	84 208	35 009	0	492 608
Prawns	5 900	168	189 805	27 877	25 340	0	17	262 827
Abalone	15 277	69 612	70	10 547	68 145	99 386	91	263 128
Scallops	11	2 793	20 418	10 432	769	8	0	34 433
Oysters	37	34	1 963	36	462	956	0	3 501
Crabs	111	1 872	18 599	6 573	218	852	1 631	29 863
Other	246	23 872	10 873	6 017	26 242	5 388	24	73 468
Total	26 316	124 390	254 407	391 007	205 382	141 600	1 762	1 159 827
<b>Total value</b>	48 251	135 519	377 829	427 795	474 818	174 864	4 409	1 661 653
<b>Quantity</b>	t	t	t	t	t	t	t	t
<b>Fish</b>								
Live	na	na	na	na	na	na	na	na
Fresh, chilled or frozen								
Whole	1 484	579	6 019	5 402	8 008	1 791	706	24 187
Fillets	129	354	256	644	65	2 505	3	3 996
Other	352	292	1 539	241	190	339	6	3 214
Total fish	1 965	1 225	7 814	6 288	8 263	4 636	715	31 396
<b>Crustaceans and molluscs</b>								
Rock lobster	69	510	258	7 621	1 764	702	0	10 942
Prawns	438	11	8 167	1 437	1 208	0	1	11 925
Abalone	285	1 143	1	92	717	1 771	1	4 010
Scallops	0	85	926	431	45	1	0	1 488
Oysters	4	4	46	1	62	101	0	219
Crabs	9	38	1 745	311	7	21	124	2 256
Other	47	699	233	270	611	131	2	2 058
Total	854	2 489	11 376	10 162	4 413	2 728	128	32 898
<b>Total quantity</b>	2 819	3 714	19 190	16 450	12 676	7 364	843	64 294

<sup>a</sup> State totals include Commonwealth fisheries exports. Exports are identified according to source state or territory, not state or territory in which the product was caught or farmed. <sup>b</sup> Includes Australian Capital Territory. **na** Not available.

Source: ABS, *International Trade*, electronic data service, cat. no. 5464.0, Canberra.



# 27 Australian seafood exports in 2002-03, by state

	NSW	Vic.	Qld	WA	SA	Tas.	NT	Aust. b
<b>Value</b>	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000
<b>Fish</b>								
Live	1 684	1 555	43 446	0	4	302	0	46 991
Fresh, chilled or frozen								
Whole	17 491	2 853	49 967	26 150	267 067	12 207	777	376 677
Fillets	211	1 187	1 119	1 442	4 238	15 909	41	24 455
Other	1 532	4 060	23 070	3 417	346	2 090	266	37 078
Total fish	20 918	9 656	117 602	31 009	271 655	30 509	1 083	485 201
<b>Crustaceans and molluscs</b>								
Rock lobster	3 005	8 395	21 591	324 717	77 058	27 880	0	463 106
Prawns	11 796	468	108 480	35 827	34 509	29	32	208 245
Abalone	15 750	55 870	266	6 741	48 376	89 113	0	216 115
Scallops	38	2 037	11 882	14 484	190	3	0	28 686
Oysters	116	8	6	9	593	999	0	1 742
Crabs	26	307	13 813	4 169	1 530	955	259	21 087
Other	524	18 451	7 847	4 408	14 763	13 966	1	60 672
Total	31 254	85 535	163 885	390 355	177 019	132 945	293	999 654
<b>Total value</b>	52 172	95 190	281 487	421 365	448 674	163 454	1 376	1 484 854
<b>Quantity</b>	t	t	t	t	t	t	t	t
<b>Fish</b>								
Live	na	na	na	na	na	na	na	na
Fresh, chilled or frozen								
Whole	1 805	411	5 545	6 552	7 865	1 745	136	24 096
Fillets	20	117	112	181	241	2 507	13	3 237
Other	189	474	1 074	278	20	403	3	2 719
Total fish	2 014	1 003	6 731	7 011	8 126	4 655	152	30 052
<b>Crustaceans and molluscs</b>								
Rock lobster	48	168	408	8 470	1 805	627	0	11 535
Prawns	568	46	5 145	1 494	1 422	0	1	9 532
Abalone	298	1 543	13	72	784	1 484	0	4 193
Scallops	1	35	416	694	17	0	0	1 165
Oysters	10	1	1	1	73	77	0	163
Crabs	3	16	1 402	214	38	22	15	1 714
Other	69	447	203	290	423	319	0	1 807
Total	997	2 256	7 588	11 235	4 562	2 528	17	30 109
<b>Total quantity</b>	3 011	3 259	14 319	18 247	12 688	7 183	169	60 161

**a** State totals include Commonwealth fisheries exports. Exports are identified according to source state or territory, not state or territory in which the product was caught or farmed. **b** Includes Australian Capital Territory. **na** Not available.

Source: ABS, *International Trade*, electronic data service, cat. no. 5464.0, Canberra.

# 28 Australian seafood exports in 2003-04, by state p

	NSW	Vic.	Qld	WA	SA	Tas.	NT	Aust. b
<b>Value</b>	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000
<b>Fish</b>								
Live	1 397	685	37 120	0	13	100	0	39 316
Fresh, chilled or frozen								
Whole	10 169	1 531	32 398	13 682	244 286	7 527	613	311 085
Fillets	202	818	971	2 932	2 255	8 446	1	17 007
Other	2 910	7 862	23 758	3 442	844	660	423	42 573
Total fish	14 678	10 896	94 248	20 057	247 398	16 733	1 037	409 980
<b>Crustaceans and molluscs</b>								
Rock lobster	1 942	16 698	25 642	293 158	67 273	21 974	0	426 833
Prawns	17 122	609	80 771	20 592	28 808	1	0	160 603
Abalone	11 180	65 616	998	11 252	53 374	95 217	42	237 680
Scallops	4	1 045	14 432	19 171	44	2	0	34 916
Oysters	40	18	67	3	360	658	0	1 182
Crabs	181	1 338	11 831	3 679	46	364	0	17 491
Other	343	19 048	3 780	2 263	2 553	1 697	37	30 648
Total	30 812	104 373	137 520	350 119	152 458	119 913	79	909 353
<b>Total value</b>	45 490	115 269	231 768	370 176	399 857	136 647	1 116	1 319 333
<b>Quantity</b>	t	t	t	t	t	t	t	t
<b>Fish</b>								
Live	na	na	na	na	na	na	na	na
Fresh, chilled or frozen								
Whole	1 282	286	4 350	2 497	9 825	1 975	67	20 434
Fillets	8	90	250	263	168	1 479	0	2 779
Other	293	993	357	544	48	174	6	2 757
Total fish	1 583	1 368	4 957	3 304	10 041	3 628	73	25 970
<b>Crustaceans and molluscs</b>								
Rock lobster	57	461	623	9 826	1 893	589	0	13 453
Prawns	1 082	53	4 552	1 238	1 576	0	0	9 396
Abalone	262	1 625	30	123	1 032	1 838	0	4 910
Scallops	0	25	550	868	2	0	0	1 464
Oysters	4	1	4	0	43	63	0	119
Crabs	35	37	1 264	266	1	9	0	1 616
Other	35	861	154	108	295	42	1	1 592
Total	1 475	3 063	7 177	12 428	4 842	2 542	1	32 548
<b>Total quantity</b>	3 058	4 431	12 134	15 732	14 883	6 170	74	58 518

a State totals include Commonwealth fisheries exports. Exports are identified according to source state or territory, not state or territory in which the product was caught or farmed. b Includes Australian Capital Territory. p Preliminary. na Not available.

Source: ABS, *International Trade*, electronic data service, cat. no. 5464.0, Canberra.

## 29 Australian imports of fisheries products

	2001-02		2002-03		2003-04 p	
	t	\$'000	t	\$'000	t	\$'000
<b>Edible</b>						
<b>Fish</b>						
Live fish	na	35	na	6	na	19
Fresh, chilled or frozen						
Fresh or chilled whole	4 951	26 691	4 834	28 610	5 925	34 269
Frozen whole	9 180	22 816	11 492	23 993	11 281	20 992
Fresh or chilled fillets	246	1 648	376	2 430	307	1 898
Frozen fillets	36 873	207 944	36 305	203 624	39 323	193 650
Other	6 710	19 428	7 082	24 514	7 639	22 861
Canned fish	35 874	176 996	44 894	207 810	56 806	178 597
Smoked, dried or salted fish	2 151	24 792	2 801	26 263	2 811	30 459
Other fish preparations	11 614	56 351	15 958	73 303	14 472	62 061
Total a	107 599	536 701	123 742	590 553	138 564	544 806
<b>Crustaceans and molluscs</b>						
Fresh, chilled or frozen b						
Prawns	12 127	166 877	13 114	174 850	18 865	183 575
Lobster	320	8 058	484	11 060	444	7 088
Scallops	1 617	22 219	2 024	24 241	2 104	22 027
Oysters	621	4 740	792	6 926	749	6 797
Mussels	1 795	7 281	1 972	9 170	2 188	8 095
Other	12 614	56 540	13 273	59 637	14 745	60 555
Canned	3 299	27 286	4 446	29 662	4 798	28 071
Extracts and pastes	31	142	0	0	0	0
Other	6 288	59 320	4 826	44 092	5 557	43 904
Total	38 711	352 461	40 931	359 638	49 449	360 112
Total edible a	146 310	889 161	164 673	950 192	188 014	904 918
<b>Nonedible</b>						
Pearls c	na	217 489	na	162 902	na	145 107
Fish meal	na	32 314	na	27 078	na	19 332
Ornamental fish	na	3 458	na	3 870	na	4 087
Marine fats and oils	na	13 394	na	13 719	na	9 446
Other marine products	na	44 197	na	44 063	na	23 488
Total nonedible	na	310 851	na	251 631	na	201 459
<b>Total fisheries products</b>	na	1 200 012	na	1 201 823	na	1 106 377

a Excludes live tonnage, but includes live value. b Includes dried and salted. c From 1999–2000 the value of pearl imports has been revised to take account of items temporarily exported. p Preliminary. na Not available.

Source: ABS, *International Trade*, electronic data service, cat. no. 5464.0, Canberra.

# 30 Australian imports of fish

	2001-02		2002-03		2003-04 p	
	t	\$'000	t	\$'000	t	\$'000
<b>Salmon</b>						
Smoked	577	10 576	623	10 810	988	16 108
Whole						
Frozen	81	232	310	819	144	1 092
Fresh or chilled	420	3 041	359	2 518	557	4 443
Canned	8 141	43 145	9 101	53 740	9 376	46 587
Total	9 220	56 994	10 392	67 888	11 066	68 230
<b>Hake</b>						
Frozen						
Fillets	8 422	40 125	7 862	39 762	7 541	36 194
Whole	2	7	4	26	2	9
Mince	2 552	4 942	1 323	4 353	734	1 352
Total	10 976	45 073	9 190	44 141	8 277	37 555
<b>Tuna</b>						
Whole						
Fresh or chilled	151	740	146	665	1 350	3 621
Frozen	3 698	5 096	4 068	4 366	3 088	3 067
Canned	20 347	93 822	27 196	107 554	40 972	95 510
Total	24 196	99 658	31 409	112 586	45 410	102 199
<b>Other fish</b>						
Live	na	35	na	6	na	19
Fresh or chilled whole	4 380	22 910	4 330	25 427	4 018	26 204
Frozen whole	5 400	17 481	7 110	18 781	8 048	16 824
Fresh or chilled fillets	246	1 648	376	2 430	307	1 898
Frozen fillets	28 451	167 819	28 443	163 861	31 782	157 456
Other fresh, chilled or frozen products	4 158	14 486	5 760	20 161	6 905	21 509
Other canned fish						
Herrings	1 117	4 552	855	4 529	761	3 668
Sardines	4 115	22 641	5 170	25 942	3 495	19 243
Anchovy	654	7 168	755	9 044	859	9 233
Mackerel	930	2 975	1 061	3 450	1 037	2 911
Other	569	2 692	756	3 550	306	1 445
Total	7 385	40 029	8 597	46 515	6 458	36 500
Smoked						
Herrings	61	382	65	410	66	386
Liver and roes	15	302	4	96	36	165
Other	691	3 836	1 192	5 696	800	4 673
Total	766	4 519	1 261	6 202	902	5 224
Dried	496	7 975	563	7 406	629	7 664
Salted	312	1 721	354	1 845	292	1 462
Other fish preparations						
Fish meal	193	236	10	99	12	65
Fishballs, fishcake, sausages	2 342	9 071	1 881	7 730	1 884	7 163
Caviar and pastes	73	1 561	83	1 603	94	1 576
Other	9 006	45 483	13 984	63 872	12 482	53 257
Total	11 614	56 351	15 958	73 303	14 472	62 061
Total other fish a	63 208	334 976	72 751	365 939	73 812	336 822
<b>Total fish a</b>	<b>107 599</b>	<b>536 701</b>	<b>123 742</b>	<b>590 553</b>	<b>138 564</b>	<b>544 806</b>

a Excludes live tonnage but includes live value. p Preliminary. na Not available.

Source: ABS, *International Trade*, electronic data service, cat. no. 5464.0, Canberra.

# 31 Australian imports of crustaceans and molluscs

	2001-02		2002-03		2003-04 p	
	t	\$'000	t	\$'000	t	\$'000
<b>Canned and preserved</b>						
Crabs	302	2 678	385	3 054	321	2 233
Prawns	5 432	54 553	5 032	45 386	5 584	44 020
Smoked molluscs	844	11 273	655	7 457	954	7 052
Other molluscs	1 819	11 612	3 137	17 505	3 464	18 502
Extracts and pastes	31	142	0	0	0	0
Other preserved	1 189	6 488	62	353	32	167
Total	9 617	86 747	9 271	73 754	10 355	71 975
<b>Other</b>						
Prawns						
Fresh, chilled or frozen	11 972	165 095	13 086	174 484	18 860	183 537
Other	155	1 782	29	365	5	38
Lobster	320	8 058	484	11 060	444	7 088
Scallops	1 617	22 219	2 024	24 241	2 104	22 027
Oysters	621	4 740	792	6 926	749	6 797
Mussels	1 795	7 281	1 972	9 170	2 188	8 095
Crabs	145	1 433	177	1 582	223	1 632
Calamari, squid and octopus	11 213	42 511	11 845	46 076	13 248	48 456
Other	1 256	12 596	1 251	11 979	1 275	10 468
Total	29 094	265 714	31 659	285 885	39 095	288 137
<b>Total crustaceans and molluscs</b>	<b>38 711</b>	<b>352 461</b>	<b>40 931</b>	<b>359 638</b>	<b>49 449</b>	<b>360 112</b>

p Preliminary.

Source: ABS, *International Trade*, electronic data service, cat. no. 5464.0, Canberra.

# 32 Australian imports of edible fish, by source

	2001-02		2002-03		2003-04 p	
	t	\$'000	t	\$'000	t	\$'000
<b><i>Fish (excluding canned)</i></b>						
<b>Tuna</b>						
Indonesia	5	9	2	4	2	23
Japan	700	945	1 850	1 938	62	140
New Zealand	1 316	1 746	2 211	2 416	3 889	3 694
Papua New Guinea	138	667	120	570	86	346
Singapore	0	0	0	0	0	0
Thailand	10	16	3	18	50	83
Other	1 679	2 453	27	85	349	2 403
Total	3 848	5 836	4 214	5 031	4 438	6 689
<b>Salmon</b>						
Canada	0	1	48	113	0	1
Denmark	510	9 483	557	9 707	829	13 779
New Zealand	466	3 763	392	3 168	548	4 857
Other	102	601	295	1 159	313	3 008
Total	1 079	13 848	1 291	14 148	1 689	21 644
<b>Hake</b>						
Argentina	43	161	173	720	413	1 205
Chile	3 194	9 486	1 989	6 475	1 184	2 600
Chinese Taipei	0	0	0	0	20	75
Namibia	1 393	6 841	1 548	7 797	1 201	6 132
New Zealand	2 087	7 477	1 325	7 061	1 131	6 170
South Africa	3 903	19 477	3 976	21 355	3 916	19 912
Thailand	8	71	47	189	19	68
Uganda	16	110	0	0	0	0
Other	331	1 450	132	545	394	1 394
Total	10 976	45 073	9 190	44 141	8 277	37 555
<b>Other</b>						
Chile	2 631	9 165	3 265	10 561	3 798	10 600
New Zealand	23 248	119 397	25 038	129 213	22 349	113 119
South Africa	3 463	19 103	2 961	16 407	2 461	13 700
Thailand	5 709	25 950	6 830	28 673	7 698	27 459
Viet Nam	2 020	12 651	4 488	23 768	6 487	28 888
Other	18 752	108 647	21 572	110 796	24 562	106 537
Total	55 823	294 912	64 154	319 417	67 354	300 303

Continued

# 32 Australian imports of edible fish, by source *continued*

	2001-02		2002-03		2003-04 p	
	t	\$'000	t	\$'000	t	\$'000
<b><i>Canned fish</i></b>						
Canada	3 708	20 797	3 534	23 358	3 833	19 911
Chile	679	3 300	465	1 158	447	1 447
China	26	145	114	445	110	326
Denmark	166	737	135	944	162	729
Germany	759	3 096	422	2 494	380	2 135
Greece	136	951	152	1 184	102	744
Indonesia	19	177	170	938	111	368
Italy	465	4 389	483	5 274	689	6 420
Japan	23	192	104	507	131	484
Korea, Rep. of	723	3 594	898	4 441	691	2 734
Malaysia	149	662	138	544	139	430
Norway	332	4 478	664	7 313	461	6 487
Philippines	187	617	214	507	146	363
Portugal	95	427	148	678	172	883
Spain	93	1 562	87	1 509	101	1 518
Thailand	21 713	97 945	28 738	112 468	42 623	102 187
United Kingdom	601	5 005	514	5 156	342	3 262
United States	4 425	21 174	5 385	27 755	5 055	22 146
Other	1 576	7 746	2 530	11 139	1 109	6 025
Total	35 874	176 996	44 894	207 810	56 806	178 597

p Preliminary.

Source: ABS, *International Trade*, electronic data service, cat. no. 5464.0, Canberra.

# 33 Australian imports of fresh, chilled or frozen fish, by source

	2001-02		2002-03		2003-04 p	
	t	\$'000	t	\$'000	t	\$'000
<b>Fresh or chilled fish</b>						
<b>Whole</b>						
Indonesia	227	303	179	226	0	1
New Zealand	4 041	24 534	4 434	27 349	5 347	30 322
Papua New Guinea	138	668	120	570	86	347
Solomon Islands	1	2	0	0	306	2 199
Viet Nam	56	274	35	168	17	71
Other	488	910	66	297	169	1 329
Total	4 951	26 691	4 834	28 610	5 925	34 269
<b>Filletts</b>						
Indonesia	5	36	24	181	18	192
New Zealand	203	1 349	267	1 897	198	1 308
South Africa	0	0	0	0	17	90
Other	37	263	85	352	73	308
Total	246	1 648	376	2 430	307	1 898
<b>Frozen fish</b>						
<b>Whole</b>						
<b>Tuna</b>						
Indonesia	5	9	2	4	2	23
Japan	700	945	1 850	1 938	62	140
New Zealand	1 309	1 705	2 208	2 397	2 956	2 746
Singapore	0	0	0	0	0	0
Thailand	10	16	3	18	50	83
Other	1 673	2 422	5	10	17	75
Total	3 698	5 096	4 068	4 366	3 088	3 067
<b>Salmon</b>						
Denmark	0	0	0	0	2	8
New Zealand	7	59	4	27	28	180
Norway	0	0	10	70	72	502
Other	74	172	295	722	44	402
Total	81	232	310	819	144	1 092
<b>Other</b>						
China	374	1 682	518	2 443	464	2 144
Indonesia	501	646	1 696	1 649	888	889
Japan	10	58	20	167	18	71
Netherlands	32	81	61	140	0	0
New Zealand	1 926	4 618	2 627	7 615	2 133	5 885
Singapore	6	28	19	74	42	89
South Africa	160	484	115	168	250	118
Thailand	434	1 156	369	1 088	477	1 047
United Kingdom	36	67	28	64	30	61
United States	657	790	261	235	1 333	440
Other	1 265	7 878	1 400	5 164	2 414	6 090
Total	5 402	17 488	7 114	18 808	8 049	16 833

Continued



# 33 Australian imports of fresh, chilled or frozen fish, by source *continued*

	2001-02		2002-03		2003-04 p	
	t	\$'000	t	\$'000	t	\$'000
<b>Frozen fish (continued)</b>						
<b>Fillets</b>						
<b>Hake</b>						
Argentina	43	161	172	718	363	1 089
Chile	1 929	7 258	735	2 395	703	1 812
Kenya	53	281	52	246	0	0
Namibia	1 393	6 841	1 548	7 797	1 201	6 132
New Zealand	897	4 914	1 292	6 949	993	5 906
South Africa	3 903	19 477	3 970	21 305	3 916	19 912
Thailand	8	71	26	117	19	68
Uganda	16	110	0	0	0	0
Other	179	1 012	68	236	348	1 276
Total	8 422	40 125	7 862	39 762	7 541	36 194
<b>Other</b>						
Argentina	370	1 508	1 804	6 160	1 818	5 873
Chile	1 562	5 266	1 249	4 159	1 177	3 113
China	1 027	2 603	1 380	5 283	1 388	5 357
Chinese Taipei	1 054	6 236	1 065	5 598	1 259	7 664
India	164	607	81	344	25	57
Indonesia	874	6 571	926	6 337	788	4 711
Kenya	2 391	15 822	2 050	13 339	2 724	12 125
Myanmar	527	4 238	719	5 390	1 044	6 705
Namibia	113	687	232	1 335	105	512
Netherlands	47	352	11	153	36	305
New Zealand	11 867	69 369	10 766	65 124	9 628	53 803
Singapore	267	2 131	114	937	240	1 073
South Africa	2 236	12 536	1 286	7 768	1 211	7 459
Tanzania	1 228	8 148	442	2 822	375	1 511
Thailand	850	6 165	755	5 438	1 066	6 319
Uganda	1 810	12 222	1 674	10 931	1 691	7 337
United Kingdom	99	515	146	829	92	363
Viet Nam	1 447	9 487	2 814	16 399	5 679	26 127
Other	518	3 356	930	5 514	1 436	7 045
Total	28 451	167 819	28 443	163 861	31 782	157 456

p Preliminary.

Source: ABS, *International Trade*, electronic data service, cat. no. 5464.0, Canberra.

# 34 Australian imports of dried, salted or smoked fish, by source

	2001-02		2002-03		2003-04 p	
	t	\$'000	t	\$'000	t	\$'000
<b>Dried or salted</b>						
China	98	1 083	63	707	70	639
Greece	36	280	28	178	36	241
Italy	5	42	25	179	19	146
Iceland	53	516	50	531	49	370
New Zealand	16	262	4	463	2	143
Norway	118	1 777	137	1 818	138	1 769
Spain	32	193	35	190	13	67
Thailand	54	461	58	403	62	499
Viet Nam	78	794	80	572	102	651
Other	318	4 288	437	4 210	431	4 601
Total	808	9 697	917	9 251	921	9 126
<b>Smoked</b>						
Argentina	97	396	98	368	28	79
Canada	0	3	0	0	0	1
Denmark	511	9 492	559	9 750	881	14 698
Germany	14	231	19	245	1	2
Greece	24	216	8	18	11	71
Latvia	6	17	20	66	11	33
Netherlands	0	0	6	98	0	0
New Zealand	128	1 116	50	790	85	1 286
Philippines	35	271	31	177	33	168
South Africa	438	2 419	999	4 646	618	2 978
United Kingdom	53	385	74	557	55	336
Other	38	549	21	296	167	1 681
Total	1 344	15 095	1 884	17 012	1 890	21 333
<b>Total dried, salted or smoked fish</b>	<b>2 151</b>	<b>24 792</b>	<b>2 801</b>	<b>26 263</b>	<b>2 811</b>	<b>30 459</b>

p Preliminary.

Source: ABS, *International Trade*, electronic data service, cat. no. 5464.0, Canberra.

# 35 Australian imports of canned fish products, by source

	2001-02		2002-03		2003-04 p	
	t	\$'000	t	\$'000	t	\$'000
<b>Canned fish</b>						
<b>Salmon</b>						
Canada	2 666	14 223	2 312	16 602	2 691	14 400
Chile	227	2 457	71	562	151	1 072
Korea, Rep. of	499	2 640	740	3 797	553	2 209
United States	4 329	20 761	5 343	27 626	5 030	22 021
Other	421	3 064	635	5 154	952	6 886
Total	8 141	43 145	9 101	53 740	9 376	46 587
<b>Tuna</b>						
Hong Kong	150	604	73	244	0	0
Italy	64	515	86	751	122	878
Thailand	19 865	91 357	26 486	104 012	40 305	92 578
Other	269	1 346	551	2 548	545	2 055
Total	20 347	93 822	27 196	107 554	40 972	95 510
<b>Herrings</b>						
Canada	124	575	209	1 107	151	750
Denmark	96	207	28	126	7	27
Germany	742	2 940	412	2 373	356	1 872
Other	155	831	207	922	247	1 018
Total	1 117	4 552	855	4 529	761	3 668
<b>Sardines</b>						
Canada	769	5 216	927	5 199	884	4 222
Norway	319	4 388	530	5 520	400	5 817
Thailand	1 433	3 775	1 501	4 390	1 266	3 106
United Kingdom	566	4 709	513	5 153	330	3 192
Other	1 027	4 554	1 699	5 681	615	2 906
Total	4 115	22 641	5 170	25 942	3 495	19 243
<b>Anchovies</b>						
Italy	345	3 393	328	3 962	490	4 986
Morocco	177	1 815	225	2 472	188	2 111
Spain	62	1 356	56	1 301	47	1 104
Other	71	604	145	1 308	133	1 031
Total	654	7 168	755	9 044	859	9 233
<b>Mackerel</b>						
Chile	453	843	394	596	294	371
Denmark	67	492	106	798	152	662
Japan	18	145	92	388	86	343
Malaysia	68	238	75	263	69	191
New Zealand	33	137	10	48	25	56
Thailand	88	229	209	447	175	335
Other	204	892	176	909	235	952
Total	930	2 975	1 061	3 450	1 037	2 911
<b>Other</b>						
Canada	141	744	87	450	108	539
Korea, Rep. of	122	459	61	219	16	58
New Zealand	93	399	2	11	0	2
Sweden	123	679	390	1 990	33	181
Other	90	411	216	880	150	665
Total	569	2 692	756	3 550	306	1 445
<b>Total canned fish</b>	<b>35 874</b>	<b>176 996</b>	<b>44 894</b>	<b>207 810</b>	<b>56 806</b>	<b>178 597</b>

p Preliminary.

Source: ABS, *International Trade*, electronic data service, cat. no. 5464.0, Canberra.

# 36 Australian imports of crustaceans and molluscs, by source

	2001-02		2002-03		2003-04 p	
	t	\$'000	t	\$'000	t	\$'000
<b>Crustaceans</b>						
<b>Lobster</b>						
Fresh, chilled or frozen						
Cuba	14	323	27	723	0	0
New Zealand	4	115	6	192	6	199
Papua New Guinea	73	3 365	73	3 373	89	2 151
Thailand	130	2 281	194	2 826	151	2 043
United States	30	562	82	2 364	0	0
Viet Nam	4	71	19	327	3	58
Other	66	1 341	82	1 256	196	2 638
<b>Total lobster</b>	<b>320</b>	<b>8 058</b>	<b>484</b>	<b>11 060</b>	<b>444</b>	<b>7 088</b>
<b>Prawns</b>						
Fresh, chilled or frozen						
China	381	3 362	544	5 704	3 894	28 476
Chinese Taipei	42	626	41	714	102	1 297
India	2 571	38 963	2 763	39 759	2 920	34 872
Indonesia	1 526	17 934	1 629	17 501	1 617	13 423
Malaysia	587	6 321	395	3 889	190	1 783
Myanmar	716	8 183	644	6 451	564	4 867
New Caledonia	184	3 128	123	2 044	104	1 571
Papua New Guinea	133	1 139	161	1 357	196	1 307
Singapore	91	1 325	141	1 608	211	2 083
Thailand	3 677	51 886	3 597	47 027	4 911	44 250
Viet Nam	1 840	29 554	2 802	45 441	3 898	47 333
Other	223	2 674	245	2 990	253	2 275
Total	11 972	165 095	13 086	174 484	18 860	183 537
Canned						
Malaysia	1 356	12 030	1 202	10 082	1 089	8 072
Thailand	3 097	33 392	3 064	29 341	3 328	27 035
Viet Nam	94	908	167	1 558	319	2 726
Other	885	8 223	599	4 404	848	6 187
Total	5 432	54 553	5 032	45 386	5 584	44 020
Other a						
China	3	34	0	1	0	4
Malaysia	65	609	0	3	2	12
Thailand	85	1 055	26	334	1	12
Viet Nam	2	17	0	0	0	6
Other	1	66	2	28	1	4
Total	155	1 782	29	365	5	38
<b>Total prawns</b>	<b>17 559</b>	<b>221 430</b>	<b>18 147</b>	<b>220 236</b>	<b>24 448</b>	<b>227 595</b>
<b>Crabs</b>						
Fresh, chilled or frozen						
India	0	0	0	0	0	1
Malaysia	8	26	6	17	15	130
Thailand	7	55	5	66	62	294
Viet Nam	106	1 153	126	1 131	94	798
Other	25	199	40	369	53	408
Total	145	1 433	177	1 582	223	1 632
Canned						
Thailand	236	2	321	2	241	1
Other	66	2 676	64	3 051	79	2 231
Total	302	2 678	385	3 054	321	2 233
<b>Total crabs</b>	<b>447</b>	<b>4 111</b>	<b>563</b>	<b>4 636</b>	<b>543</b>	<b>3 864</b>

Continued

# 36 Australian imports of crustaceans and molluscs, by source *continued*

	2001-02		2002-03		2003-04 p	
	t	\$'000	t	\$'000	t	\$'000
<b><i>Molluscs (fresh, chilled or frozen)</i></b>						
<b>Scallops</b>						
China	454	6 137	654	6 618	928	8 823
Indonesia	39	424	18	144	14	100
Japan	664	9 058	937	12 033	664	7 557
New Zealand	29	566	13	267	1	20
Peru	0	0	12	140	37	316
Thailand	360	4 863	338	4 114	408	4 547
Viet Nam	48	564	7	64	7	49
Other	24	605	46	860	44	614
Total	1 617	22 219	2 024	24 241	2 104	22 027
<b>Mussels</b>						
China	57	263	13	81	21	123
Denmark	0	0	0	0	0	0
New Zealand	1 731	6 990	1 954	9 065	2 137	7 892
Other	7	29	5	25	30	80
Total	1 795	7 281	1 972	9 170	2 188	8 095
<b>Calamari, squid and octopus</b>						
China	1 989	7 888	2 996	12 898	3 157	11 676
Chinese Taipei	2 576	10 381	2 280	10 042	2 357	8 804
Hong Kong, China	3	104	4	139	9	184
India	150	436	88	232	185	435
Indonesia	39	161	83	369	138	488
Japan	24	93	8	119	27	145
Korea, Rep. of	846	1 687	730	1 585	159	489
Malaysia	556	2 014	569	1 903	665	1 991
New Zealand	2 144	9 463	2 077	9 108	2 915	12 997
Peru	0	0	20	67	68	172
Singapore	39	137	56	180	36	134
Thailand	1 879	7 640	1 723	6 521	1 874	6 872
United States	340	447	207	323	380	850
Viet Nam	546	1 826	746	2 076	1 148	2 814
Other	83	235	258	513	129	402
Total	11 213	42 511	11 845	46 076	13 248	48 456
<b><i>Crustaceans and molluscs (canned)</i></b>						
China	491	4 827	670	4 761	674	3 834
Denmark	28	117	19	111	4	24
Korea, Rep. of	461	6 957	297	4 164	378	3 564
Malaysia	387	2 100	685	4 080	773	4 440
New Zealand	672	4 697	1 118	6 051	1 689	9 155
Singapore	66	509	93	680	100	695
Thailand	973	5 892	1 304	7 531	955	4 449
Other	220	2 187	259	2 284	226	1 909
Total	3 299	27 286	4 446	29 662	4 798	28 071

p Preliminary.

Source: ABS, *International Trade*, electronic data service, cat. no. 5464.0, Canberra.

# 37 Australian imports of fisheries products, by source

	2001-02		2002-03		2003-04 p	
	t	\$'000	t	\$'000	t	\$'000
<b>Edible (excluding live)</b>						
Argentina	603	2 443	2 249	7 679	2 430	7 713
Canada	3 717	20 989	3 677	24 041	3 885	20 171
Chile	6 529	21 994	5 743	18 237	5 471	15 050
China	5 601	32 108	8 173	44 260	12 442	68 756
Chinese Taipei	4 187	20 102	3 856	18 633	4 407	19 928
Denmark	783	11 128	761	11 422	1 098	15 947
Germany	818	3 845	466	3 227	425	2 663
Hong Kong, China	276	3 470	159	2 103	128	2 153
India	3 265	42 008	3 502	42 068	3 831	37 605
Indonesia	3 961	32 383	5 265	31 151	4 271	25 279
Italy	470	4 442	514	5 506	725	6 700
Japan	1 824	15 302	3 538	20 429	1 821	14 910
Korea, Rep. of	2 440	14 567	2 286	12 196	1 678	8 814
Malaysia	4 651	33 715	4 423	29 019	4 903	25 777
Norway	499	6 757	955	10 779	994	12 263
New Zealand	32 922	167 078	34 899	177 332	35 472	168 327
Philippines	483	2 310	430	1 686	354	1 453
Singapore	1 132	7 282	1 108	6 607	1 342	7 338
South Africa	7 421	38 743	6 969	37 874	6 404	33 691
Spain	178	2 228	228	4 229	212	3 098
Thailand	38 452	234 522	46 402	240 782	62 808	221 649
United Kingdom	791	6 013	775	6 691	611	4 983
United States	6 170	26 347	6 709	34 193	7 327	26 059
Viet Nam	4 818	47 717	8 598	75 913	12 391	84 859
Other	14 319	91 634	12 988	84 130	12 585	69 714
Total	146 310	889 127	164 673	950 185	188 014	904 899
<b>Nonedible</b>						
Chile	na	6 516	na	428	na	574
Chinese Taipei	na	4 345	na	3 436	na	2 277
French Polynesia	na	4 776	na	2 248	na	2 858
Hong Kong, China	na	3 468	na	5 265	na	5 193
Indonesia	na	7 559	na	18 939	na	6 204
Japan	na	28 040	na	3 146	na	2 510
Malaysia	na	3 157	na	1 141	na	1 279
Netherlands	na	3 104	na	5 539	na	2 741
New Zealand	na	9 917	na	16 869	na	11 795
Peru	na	21 324	na	18 817	na	16 198
Philippines	na	2 535	na	5 078	na	4 921
Samoa	na	4 373	na	2 478	na	2 862
Singapore	na	2 059	na	1 693	na	1 616
Thailand	na	1 132	na	1 537	na	833
United States	na	34 798	na	17 582	na	8 267
Other	na	173 750	na	147 436	na	131 330
Total	na	310 851	na	251 631	na	201 459
<b>Total imports</b>	na	1 199 977	na	1 201 817	na	1 106 358

p Preliminary. na Not available.

Source: ABS, *International Trade*, electronic data service, cat. no. 5464.0, Canberra.

# 38 Australian seafood imports from selected countries, by product

	2001-02		2002-03		2003-04 p	
	t	\$'000	t	\$'000	t	\$'000
<b>Canada</b>						
Canned fish	3 708	20 797	3 534	23 358	3 833	19 911
Smoked, dried or salted fish	1	57	0	0	0	1
Scallops	8	126	17	285	0	0
Other crustaceans and molluscs	0	6	1	9	0	1
Other	0	3	126	389	51	258
Total	3 717	20 989	3 677	24 041	3 885	20 171
<b>Japan</b>						
Frozen whole fish	710	1 003	1 870	2 104	81	211
Canned fish	23	192	104	507	131	484
Smoked, dried or salted fish	21	483	31	472	50	449
Other fish	232	2 589	396	2 806	624	3 558
Prawns	1	9	58	731	60	397
Scallops	664	9 058	937	12 033	664	7 557
Oysters	18	237	30	364	41	440
Mussels	0	0	0	0	0	0
Canned crustaceans and molluscs	13	194	14	212	20	274
Other crustaceans and molluscs	64	441	24	311	39	656
Other	78	1 096	73	888	112	884
Total	1 824	15 302	3 538	20 429	1 821	14 910
<b>New Zealand</b>						
Fresh and chilled whole fish	4 041	24 534	4 434	27 349	5 347	30 322
Frozen whole fish	3 243	6 382	4 839	10 039	5 117	8 812
Fresh and chilled fillets	203	1 349	267	1 897	198	1 308
Frozen fillets	12 764	74 283	12 057	72 073	10 621	59 709
Canned fish	143	695	18	112	32	97
Smoked, dried or salted fish	144	1 378	54	1 254	86	1 429
Other fish	4 097	17 519	5 001	22 555	3 583	17 690
Lobster	4	115	6	192	6	199
Scallops	29	566	13	267	1	20
Squid	2 144	9 463	2 077	9 108	2 915	12 997
Oysters	580	4 134	685	5 933	674	5 981
Mussels	1 731	6 990	1 954	9 065	2 137	7 892
Canned crustaceans and molluscs	672	4 697	1 118	6 051	1 689	9 155
Other crustaceans and molluscs	71	5 451	61	4 708	100	4 097
Extracts and pastes	18	86	0	0	0	0
Other	3 037	9 435	2 315	6 729	2 967	8 618
Total	32 922	167 078	34 899	177 332	35 472	168 327

Continued

# 38 Australian seafood imports from selected countries, by product

	2001-02		2002-03		2003-04 p	
	t	\$'000	t	\$'000	t	\$'000
<b>Thailand</b>						
Frozen whole fish	444	1 172	372	1 106	527	1 130
Filletts	10	82	26	117	19	68
Canned fish	21 713	97 945	28 738	112 468	42 623	102 187
Smoked, dried or salted fish	55	474	59	404	62	501
Other fish	3 883	16 700	5 320	20 791	5 389	18 234
Prawns	3 762	52 941	3 623	47 361	4 913	44 262
Lobster	130	2 281	194	2 826	151	2 043
Scallops	360	4 863	338	4 114	408	4 547
Mussels	2	7	1	2	16	30
Canned crustaceans and molluscs	973	5 892	1 304	7 531	955	4 449
Other crustaceans and molluscs	2 593	11 044	2 382	9 400	2 667	9 827
Extracts and pastes	3	15	0	0	0	0
Other	4 526	41 104	4 045	34 663	5 077	34 371
Total	38 452	234 522	46 402	240 782	62 808	221 649
<b>United States</b>						
Frozen whole fish	730	961	509	844	1 333	440
Frozen fillets	103	742	128	707	253	1 256
Canned fish	4 425	21 174	5 385	27 755	5 055	22 146
Smoked, dried or salted fish	0	3	0	0	12	48
Other fish	61	616	117	853	66	454
Scallops	0	0	22	333	18	264
Canned crustaceans and molluscs	2	13	1	11	0	0
Other crustaceans and molluscs	350	637	208	344	389	992
Other	499	2 200	340	3 344	200	459
Total	6 170	26 347	6 709	34 193	7 327	26 059
<b>APEC region</b>						
Fresh and chilled whole fish	4 459	25 885	4 733	28 146	5 440	30 686
Frozen whole fish	6 663	13 937	10 336	20 093	9 770	16 134
Fresh and chilled fillets	228	1 491	355	2 338	258	1 613
Frozen fillets	17 186	100 125	16 595	97 361	15 900	87 526
Canned fish	31 309	146 832	39 406	171 496	52 906	149 211
Smoked, dried or salted fish	573	6 806	496	5 486	573	6 368
Other fish	10 474	50 194	13 656	61 408	12 995	55 384
Prawns	2	7	4	26	2	9
Lobster	296	7 517	425	9 838	409	6 676
Scallops	1 569	21 655	2 005	24 037	2 037	21 438
Oysters	621	4 740	792	6 926	749	6 797
Mussels	1 790	7 263	1 971	9 166	2 175	8 051
Canned crustaceans and molluscs	3 171	26 270	4 305	28 567	4 701	27 107
Other crustaceans and molluscs	11 597	51 688	11 863	54 210	13 000	54 576
Extracts and pastes	31	142	0	0	0	0
Other	16 631	154 510	14 601	132 416	20 761	146 808
Total	106 601	619 061	121 544	651 514	141 677	618 383

a Excludes live imports. p Preliminary.

Source: ABS, *International Trade*, electronic data service, cat. no. 5464.0, Canberra.