

AUSTRALIAN FISHERIES

STATISTICS

1999

ABARE

Innovation in Economic Research



FISHERIES
RESEARCH &
DEVELOPMENT
CORPORATION

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ABARE is a professionally independent government economic research agency.

Foreword

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 *Australian Fisheries Statistics* since 1991. The estimates of the gross value of production provided in the report are used, for example, to determine Commonwealth, state and territory fisheries research funding arrangements each year.

This report contains a set of data on the volume and value of production from state and Commonwealth fisheries, and the volume and value of Australian fisheries trade, by destination, source and product, for the three years to 1998-99. The report also contains a profile of Commonwealth and state fisheries for 1998-99, together with an article highlighting the importance of economic statistics in the management and promotion of the fisheries sector.

Australian Fisheries Statistics can be used in conjunction with ABARE's major annual statistical bulletin, *Australian Commodity Statistics*, which provides a historical series of production and trade statistics for fisheries and a range of other commodities, and ABARE's *Australian Commodities*, in which forecasts for major fisheries commodities are updated throughout the year. Together these three publications provide a comprehensive account of historical trends in, and the outlook for, Australian fisheries. Detailed analysis of selected fisheries is also provided in the annual *Australian Fisheries Surveys Report*.



BRIAN S. FISHER
Executive Director

February 2000

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Report

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Definitions and explanations

Definitions

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

Aquaculture value is the assessed value received by aquaculturists on the basis of an at 'farmgate' 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 log book returns.

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 non-edible fisheries products.

Seafood consists of edible fisheries products marketed for human consumption but excludes nonedible fisheries products.

Tuna

Tuna exports do not include tuna caught under joint venture or bilateral agreements, unless they are landed in Australia. Data are footnoted where appropriate.

Rounding

Small discrepancies in totals are generally caused by the rounding of components.

Abbreviations and symbols

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

Production and trade

Key features

Gross value of production

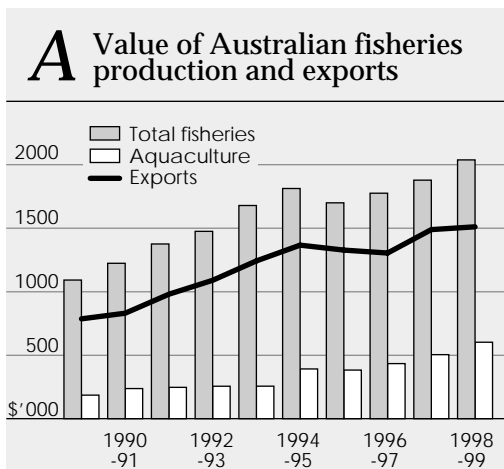
Gross value of production increased in 1998-99

- The gross value of Australian fisheries production increased by an estimated 8 per cent (\$160 million) in 1998-99, to \$2.04 billion (figure A, table 1). The value of production increased for most major products, except crab, abalone, scallops and oysters. There was an estimated 75 per cent (\$95 million) increase in the value of tuna production, a 7 per cent (\$28 million) increase in the value of fish production (excluding tuna), a 6 per cent (\$25 million) increase in the estimated value of prawn production, an 8 per cent (\$32 million) increase in the estimated value of rock lobster production and a 1 per cent (\$3 million) increase in the estimated gross value of pearl production (tables 3, 4, 15 and 16). A fall in the estimated value of fisheries product was observed for abalone (7 per cent or \$13 million), oysters (3 per cent or \$2 million), crab (16 per cent or \$7 million) and scallops (9 per cent or \$4 million).

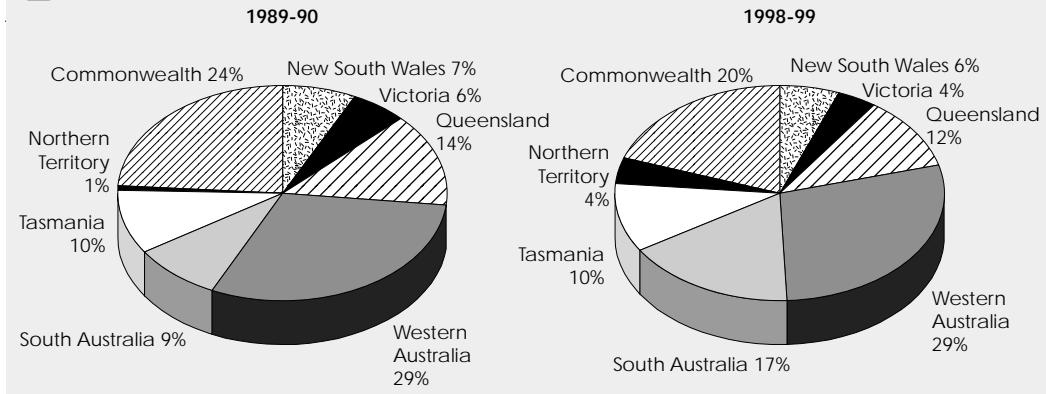
- The gross value of fisheries production increased in the fisheries management jurisdictions of New South Wales, Western Australia, South Australia, the Northern Territory and the Commonwealth (table 1). The value of fisheries production in Victoria, Queensland and Tasmania declined in 1998-99.

Western Australia remains the largest producer

- Western Australian fisheries continued to account for the largest share (29 per cent) of the value of Australia's fisheries production (figure B, table 1). The gross value of production of Western Australian fisheries increased by 9 per cent (\$50 million) in 1998-99 to \$592 million. This increase was primarily driven by a 24 per cent (\$50 million) increase in the reported value of rock lobster production (table 9). The value of prawn production also increased, by 15 per cent (to \$63 million). These increases were partly offset by a 4 per cent (\$7 million) decline in the value of pearl production (table 9).
- In South Australia, a 91 per cent increase in the gross value of farmed tuna production was the major factor for the rise in the total value of fisheries production from \$263 million in 1997-98 to an estimated \$348 million in 1998-99 (table 10). Increased prices, combined with continued refinements in valuation methods, resulted in an almost \$80 million increase in the estimated value of farmed tuna production, which reached \$167 million in 1998-99. This was partly offset by a 6 per cent (\$5 million) decline in the value of rock lobster production.
- For New South Wales, a 51 per cent increase in the value of prawn production to \$36 million was the major contributor to a 10 per cent increase in that state's gross value of fisheries production to \$121 million (table 6). The value of



B State shares of value of fisheries production



abalone and oyster production in the state declined slightly in 1998-99.

- A decline in catches for all the major species resulted in the estimated gross value of production in Queensland declining by 5 per cent (\$12 million) in 1998-99 to \$242 million (table 8). The value of rock lobster, scallop and crab production fell by 28 per cent (\$3 million), 25 per cent (\$6 million), and \$3 million (18 per cent) respectively.
- The value of production in Tasmania fell by 5 per cent to \$214 million in 1998-99 (table 11). Declines in the value of wild caught fish (61 per cent or \$12 million), rock lobster (13 per cent or \$6 million) and abalone production (8 per cent or \$7 million) were partially offset by increases in the value of scallop and farmed salmon production (of \$6 million and \$8 million respectively).
- A 14 per cent decrease in the gross value of abalone production was a major factor for the fall in the total value of Victorian fisheries production from \$94 million in 1997-98 to \$80 million in 1998-99 (table 7). The value of rock lobster and trout production also fell in 1998-99.
- In the Northern Territory, a \$10 million rise in the value of aquaculture production in 1998-99 (which is mainly pearls), largely accounted for a 19 per cent rise in the total gross value of production to \$82 million (table 12).

Commonwealth fisheries increase in value

- Commonwealth fisheries accounted for the second largest share (20 per cent) of the total value of Australian fisheries production in 1998-99 (table 1). The value of Commonwealth fisheries production rose by an estimated \$58 million, or 17 per cent, over the year. The performance of the various fisheries was mixed in 1998-99. Gross value of production fell in the northern prawn, south east (both trawl and nontrawl sectors) and Bass Strait scallop fisheries. The largest fall occurred in the south east trawl fishery (\$14 million or 19 per cent), which was mainly caused by declines in landings of orange roughy and nonquota species.
- Despite a rise in estimated average unit returns in the northern prawn fishery, this was not sufficient to offset the decline in the total prawn catch for the financial year. While there was an increase in the banana prawn landings at the beginning of the year, landings of the more valuable tiger prawns and endeavour prawns fell in the second half of the year. Even so the northern prawn fishery remains the most valuable Commonwealth managed fishery.
- Estimated gross value of production in 1998-99 rose for all tuna, Torres Strait, South Tasman Rise, southern shark and the Great Australian Bight fisheries (table 13). Increased landings and higher returns contributed to the rises in the

gross value of production of the tuna fisheries. The gross value of production in the eastern tuna and billfish fishery rose by 70 per cent to \$55.2 million in 1998-99, while landings rose by 89 per cent. Landings of southern bluefin tuna rose by 18 per cent, with the gross value production increasing by \$16 million to \$56.8 million. As well as increased landings, improved export returns contributed to this rise. There was a substantial increase in the value of catches taken in the western and southern tuna fishery, from \$4.3 million in 1997-98 to an estimated \$10.9 million in 1998-99.

- In the South Tasman Rise fishery, which is concentrated on orange roughy, average returns declined. However, the five-fold increase in landings more than compensated for the decline in unit values. In contrast to the northern prawn fishery (in which landings fell by 10 per cent), the volume of prawns landed in the Torres Strait prawn fishery rose by 16 per cent. This combined with a slight increase in average unit returns contributed to an increase in the total gross value of production for the Torres Strait as a whole to an estimated \$35.5 million in 1998-99.
- While shark catches in the southern shark fishery declined for the second consecutive year, higher average unit returns offset this decline, so that the gross value of production rose by 32 per cent to \$15.5 million in 1998-99. The total gross value

of production of other Commonwealth managed fisheries tripled to an estimated \$43.4 million in 1998-99. This group of fisheries includes the southern squid fishery, trawl fisheries off western Australian and the valuable sub Antarctic fisheries.

Prawns, rock lobster and fish the major contributors

- By species, prawns accounted for 20 per cent of the total value of Australian fisheries production, rock lobster accounted for 20 per cent, fish (excluding tuna) 21 per cent and other molluscs (mainly pearl) 11 per cent in 1998-99 (figure C, table 4). The share of tuna increased from 5 per cent in 1997-98 to 11 per cent in 1998-99.

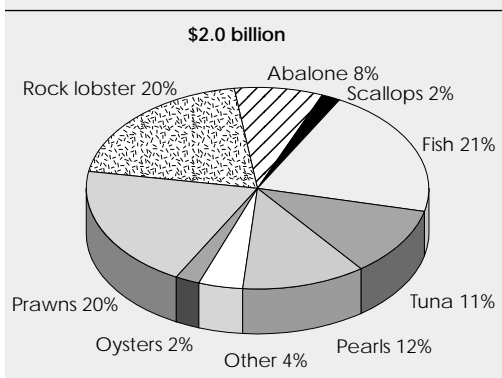
Aquaculture share rises

- The share of the gross value of fisheries of production attributable to aquaculture rose to around 30 per cent in 1998-99 (table 1). The value of Australian aquaculture production increased by \$98 million, or 19 per cent to \$602 million. Most of the increase in the value of aquaculture production stemmed from an estimated \$79 million, or 91 per cent, increase in the value of farmed tuna production (tables 15 and 16). There were also increases in the value of salmon production to \$71.7 million (13 per cent) and prawn production to \$44 million (22 per cent).

Employment in the fisheries sector

- In 1997-98, the marine fishing sector of the Australian seafood industry (excluding the processing, wholesale, marketing or retail sectors) directly employed around 9550 people, a 5 per cent increase from the previous year. Employment in the aquaculture sector also grew in 1997-98, increasing by 6 per cent from the previous year to approximately 3200 people.
- Rock lobster fisheries are the largest employers, accounting for 24 per cent of the total employment in the marine fishing sector in 1997-98, followed by the prawn fishing sector which employed 17 per cent.

C Value of Australian fisheries, 1998-99



- Queensland and Western Australia were the two largest employers in the marine fishing sector in 1997-98. New South Wales and Tasmania were the largest employers in the aquaculture sector over the same period.

Exports of fisheries products

Value of exports increased in 1998-99

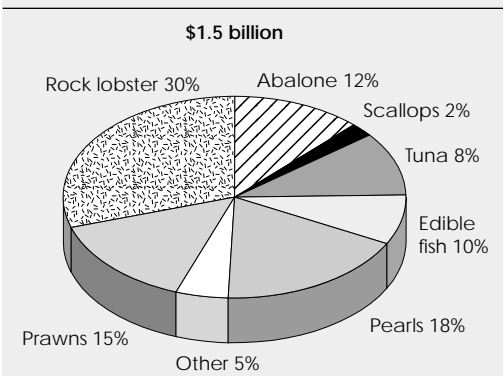
- The export value of Australian fisheries products rose by an estimated 1.5 per cent (\$22 million) in 1998-99 to \$1.51 billion (table 17). The total value of edible fisheries exports rose 4 per cent to \$1.22 billion in 1998-99, with edible fish exports increasing by 18 per cent to \$275 million and the value of edible crustacean and mollusc exports remaining relatively unchanged at \$949 million. The total value of inedible fisheries products (of which pearls accounted for 95 per cent) fell by 7 per cent to \$288 million in 1998-99. Contributions of products to the value of exports are shown in figure D.
- The Asian economic downturn did not adversely affect the majority of Australian fisheries exports during 1998-99. The depreciation of the Australian dollar against the US dollar and the Japanese yen during 1998-99 meant that Australian seafood exports remained competitively priced in key Asian markets. This was

important for the high value seafood products such as tuna and rock lobster. The volume of most seafood exports increased, although export unit values declined for a number of products. This resulted in a fall in the value of sales for all major commodities except tuna, finfish and rock lobster.

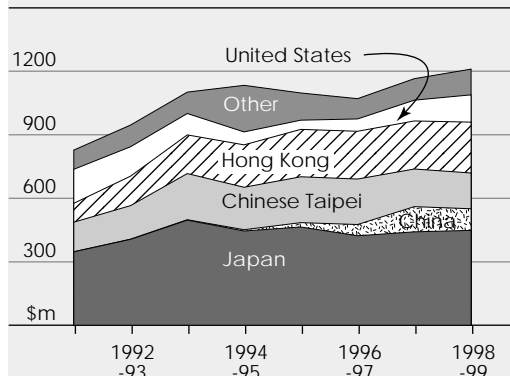
Key export markets

- Australian exports have been concentrated in just five countries — Japan, China, Chinese Taipei, Hong Kong and the United States (figure E) — which accounted for 90 per cent of Australian exports in 1998-99. This dominance has remained fairly constant over the past five years, although the relative importance of individual countries has changed. The proportion of exports destined for Japan and Chinese Taipei have declined, while the significance of markets in China, Hong Kong and the United States has increased.
- Japan continues to be the major destination for Australian exports of fisheries product, accounting for over 30 per cent of the total export value in 1998-99 (table 23). This share compares with 33 per cent in 1997-98 and 35 per cent in 1996-97. Hong Kong, Chinese Taipei, China and the United States continue to be the next largest markets for Australian exports, accounting for 17 per cent, 11 per cent, 7 per cent and 10 per cent respectively of export value. Exports of seafood to the

D Value of Australian fisheries exports, 1998-99



E Value of Australian seafood exports



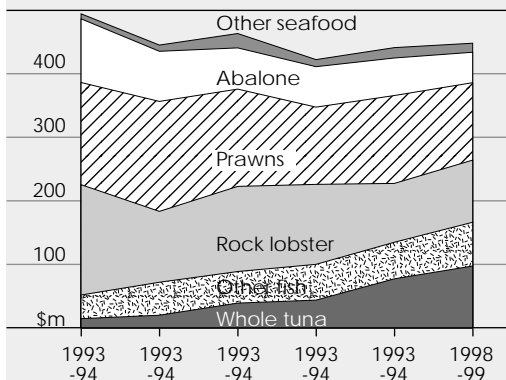
APEC region accounted for 93 per cent of total export value of Australian seafood (table 24).

- Sales of edible fisheries products to Japan and Hong Kong increased (by 2 per cent and 6 per cent respectively) in 1998-99, while there was strong growth in sales to the United States (31 per cent). Against this, exports to China declined by 14 per cent to \$102 million following a more than doubling in the previous year, while Australian sales to Chinese Taipei continued their downward trend. It is also worth noting that sales to Europe increased in 1998-99, although they still account for only a small proportion of total value of exports.
- Japan remains Australia's major seafood export market, taking \$448 million of Australia's seafood exports in 1998-99 (table 24). The strong performance of Australian tuna in the Japanese market continued, with a 26 per cent increase in the value of exports. This was primarily the result of a 28 per cent rise in the volume of farmed southern bluefin tuna and product from the east coast tuna fishery exported to Japan.
- While prawns have been the major Australian seafood exported to Japan (figure F), exports of whole tuna and fish products have been rising steadily so that in 1998-99 they comprised 22 per cent and 15 per cent respectively of the value of total seafood exports to Japan. This is in comparison to 1993-94 when these

products comprised 3 per cent and 8 per cent respectively of the total value of Australian seafood exports to Japan.

- After a significant decline in 1997-98, sales of rock lobster to Japan recovered by 6 per cent to \$98 million in 1998-99. Sales of prawns and abalone declined by 12 per cent and 19 per cent respectively, reflecting continuing falls in both the volumes and unit values of exports.
- The 6 per cent increase in the value of seafood exports to Hong Kong was mainly a result of strong growth in the volume of sales of rock lobster and abalone, as prices were weaker during 1998-99. The volume of whole fresh or chilled rock lobster exports increased by 47 per cent, resulting in the value of rock lobster exports increasing by 30 per cent to \$106 million. Similarly, the volume of abalone exports increased by 43 per cent, with the value increasing by 14 per cent to \$71 million (tables 21, 22 and 24).
- The strong growth in the value of exports to the United States in 1997-98 continued into 1998-99, with the value of Australian exports reaching \$129 million (up by 31 per cent). The main contributor to this growth was rock lobster, exports of which (primarily tails) increased by 17 per cent to \$70 million in 1998-99.
- The value of seafood exports to China declined by 14 per cent in 1998-99, although that was following a significant (124 per cent) increase in exports in 1997-98. A fall in rock lobster sales was the major factor in the decline, with the value of exports declining by 26 per cent. The value of prawn and fish exports increased over the year.
- Australian sales of major seafood commodities to Chinese Taipei declined by 5 per cent in 1998-99 to \$169 million. This continues a trend in the declining significance of the Chinese Taipei market — the value of Australian exports to this market have declined by an average 3 per cent a year over the past five years. The volume of both rock lobster and abalone sales increased in 1998-99, although sharp declines in the unit value of the exports (10 per cent for rock lobster and 13 per cent for abalone) resulted in a decline in the value of exports.

F Value of Australian seafood exports to Japan



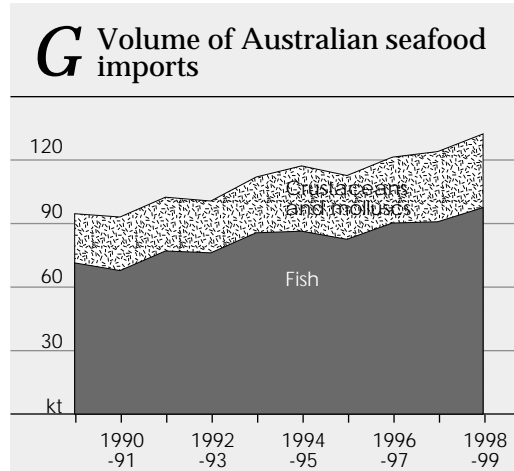
Rock lobster, pearls and prawns remain major export products

- Rock lobster remains Australia's highest value export product, accounting for an estimated 30 per cent of the 1998-99 total export value, followed by pearls at 18 per cent, prawns at 15 per cent and abalone at 12 per cent (table 17).
- Both the total volume and value of rock lobster exports rose in 1998-99 (table 19). The total value of rock lobster exports rose by \$27 million, to \$451 million, while the volume rose by 17 per cent to 14 392 tonnes. Exports of whole live or chilled rock lobster rose by 6 per cent to \$269 million; exports of tails rose by 19 per cent to \$76 million, while the value of whole frozen and cooked rock lobster fell less than 1 per cent to \$17 million and \$87 million respectively (table 21).
- Hong Kong remained the major market for whole live, fresh or chilled Australian rock lobster exports in 1998-99, accounting for 40 per cent of total value of Australian whole rock lobster exports (table 21). Sales to Hong Kong rose 30 per cent to \$106 million in 1998-99. Australia's other major markets for whole rock lobster are China, Chinese Taipei and Japan. The United States remains by far the major market for rock lobster tail exports, with both value and volume increasing in 1998-99.
- The value of prawn exports fell by \$9 million (4 per cent) in 1998-99 to \$224 million, with lower volume and unit values. Whole prawn exports are the major product form exported, accounting for nearly 90 per cent of the total value of prawn exports. The value of whole prawn exports rose by 3.5 per cent to \$196 million in 1998-99, while the value of headless prawn exports fell by 39 per cent to \$25 million (table 19).
- Japan remains the largest market for Australian prawns accounting for 54 per cent of the total value of prawn exports in 1998-99, down from 59 per cent in 1997-98. Other major markets include China, Hong Kong and Chinese Taipei. There was a large increase (138 per cent) in the value of prawn exports to Spain, making that country Australia's third largest export market for whole prawns (table 21).
- The volume of abalone exports in 1998-99 was 13 per cent higher than in 1997-98. However, an estimated 15 per cent fall in unit value resulted in a 4 per cent decrease in the estimated value of abalone exports to \$185 million (table 17). The major markets for Australian abalone are Hong Kong, Japan and Chinese Taipei, accounting for 38 per cent, 26 per cent and 22 per cent respectively of the value of Australian abalone exports (table 22).
- Export sales of scallops and crabs fell to around \$33 million and \$20 million respectively in 1998-99 (table 19). While the volume of scallop exports rose by 17 per cent, it was offset by a decline in unit values. Hong Kong remains the largest export market for Australian scallops, accounting for 61 per cent (\$20 million) of scallop exports (table 22). Both the value and volume of crab exports fell in 1998-99 (table 21). Chinese Taipei is most significant market, accounting for 49 per cent (\$10 million) of Australian crab exports.
- The total value of fish exports (including tuna) rose 18 per cent to \$275 million in 1998-99 (table 18). This increase was largely a result of increases in the value of exports of frozen whole tuna (\$21 million or 222 per cent), whole frozen fish (excluding whiting) (\$23 million or 85 per cent) and frozen fillets exports of (\$17 million or 64 per cent). A rise in the volume of whole frozen tuna exports of 165 per cent combined with a 21 per cent rise in unit value led to the rise in the total value of tuna exports. The volume of frozen fish fillets exports rose by 35 per cent to 4759 tonnes in 1998-99, most of this increase came from a rise in exports to the United States (table 20).
- Western Australia remained the major seafood exporting state, accounting for 33 per cent of the total export value of seafood in 1998-99 (table 27), of which 75 per cent consisted of rock lobster. Queensland and South Australia were the states with the next largest seafood exports, accounting for 22 per cent and 21 per cent respectively of the value of Australian seafood exports.

- Australian exports of nonedible fisheries products declined by 7 per cent to \$288 million in 1998-99. Pearls dominates this category, accounting for 95 per cent of nonedible exports in 1998-99 (table 17).

Seafood imports

- Imports supply around 60 per cent of all seafood consumed in Australian. Originally, imported seafood products met the demand from segments of the Australian market that the domestic market could not supply because of resource constraints, but imports have increasingly been competitive in other market segments.
- The total reported value of Australian imports of fisheries products increased by \$58 million (7 per cent) in 1998-99 to \$878 million (table 28). Australia imported \$441 million of edible fish products, \$303 million of edible crustaceans and molluscs and \$135 million of nonedible fisheries products.
- In terms of quantity, around 97 600 tonnes (product weight) of edible fish and 34 800 tonnes (product weight) of edible crustaceans and molluscs were imported in 1998-99 (table 28).
- The total volume of seafood imported has risen 40 per cent over the past decade, increasing from 95 000 tonnes in 1989-90 to 132 000 tonnes in 1998-99 (figure G). Over that period there have been no significant changes in the composition of imports by product type. Imports of fresh, chilled or frozen product have comprised around 60 per cent of total imports, with canned products comprising about 30 per cent, smoked dried or salted (3 per cent) and other fish preparations (6 per cent).



- Australia's largest imports by value were frozen fish fillets, canned fish, and prawns, which accounted for \$157 million (18 per cent), \$165 million (19 per cent) and \$151 million (17 per cent), respectively, of the total value of Australian imports in 1998-99 (table 28).
- The major sources of edible seafood products imported into Australia in 1998-99 were Thailand (32 per cent of total import value) and New Zealand (19 per cent) (table 35). Nearly 70 per cent of the total fisheries product imports from Thailand comprise prawns and canned fish — Thailand remains the major supplier of prawns to Australia, accounting for 57 per cent by value in 1998-99 (tables 35 and 36). The major imported products from New Zealand are frozen fish fillets and chilled whole fish. Imports of seafood products from the APEC region made up three quarters of the total value of Australian seafood imports (tables 28 and 36).

Economic information

Its role in the fisheries sector

Peter Gooday

Economic information is used throughout the economy in a wide range of applications. The fisheries sector should be no exception.

Reliable and timely economic data are essential for well informed investment, management and policy decisions. In addition, with debate on fishery resource access continuing, and resulting in initiatives like *Australia's Oceans Policy*, it is important that stakeholders are provided with accurate information on the values associated with the fisheries sector.

While a number of economic statistics relevant to the fishing industry are collected on a regular basis, significant gaps remain.

Economic information

In this article the main areas in which economic information on commercial fisheries is required are outlined and the gaps in current knowledge are identified. These areas are:

- investment opportunities;
- resource use conflicts;
- management and adjustment;
- international reporting; and
- the size and importance of the fishing industry.

Investment opportunities

Information on variables such as prices, costs and consumption patterns are used to form expectations about the net returns associated with potential investments.

While participants in the fishing industry and the investment community can be expected to use economic information in decisions on, among other things, the expansion or contraction of operations, investments in new capital equipment and marketing strategies, it should be remembered that governments also have investment decisions to make.

State governments and the Commonwealth invest considerable resources each year in funding fisheries research and development, managing fisheries and in representing Australian interests in international negotiations. To ensure that this spending is as effective as possible, information on the areas in which the potential payoffs are greatest and on the risks associated with investment is required.

Management and adjustment

Economic information should be an important input to the formulation of management policies and adjustment programs. The likely response of industry participants to the incentives provided by proposed regulations is obviously a vital input to considerations about the potential for those regulations to achieve the desired outcomes.

Predicting the manner in which an industry will respond to a particular set of incentives requires a sound understanding of the economics of that industry. Having profiles of industry costs and returns is important to this process.

Another important use of economic information is in reporting on the success of fisheries managers in pursuing economic efficiency. Because there is separation between the ownership of the fish and associated natural resources, the ownership and operation of fishing enterprises and the management of the fishery, public reporting on a range of economic (and biological) performance measures is necessary (Rose and Stubbs 1999).

ABARE's cost and earnings surveys of selected Commonwealth fisheries provide some of the information required to examine these issues. However, for most fisheries there is no regular collection of this type of information.

Peter Gooday presented this paper at the Seafood Directions Conference in Adelaide in October 1999.

Resource use conflicts

While commercial fishing operators are significant users of fisheries resources, they must compete with other users, such as recreational and indigenous fishers as well as conservation groups. Information on the tradeoffs involved in alternative resource access options is required to ensure that the long term net benefits to the community from the use of marine resources are maximised.

For example, the appropriate tradeoff between environmental and commercial resource uses will depend on how the values associated with each resource use change with changes in access regulations.

The economic analysis required to provide this type of information is expensive and difficult to produce — even where there is relative certainty about the impact of the proposed policy change on the resource in question. In many cases, qualitative information, which can often provide a good indication of the likely magnitude of the relevant tradeoffs, will have to suffice.

International issues

The Commonwealth government, through ABARE, contributes to a number of international databases, including databases managed by the Food and Agriculture Organisation (FAO) and the Organisation for Economic Cooperation and Development (OECD).

Information at the international level can be important to international negotiations on issues such as transboundary fisheries, in analysing trade opportunities and threats and is essential for participating in forums like Asia Pacific Economic Cooperation (APEC) and World Trade Organisation (WTO) negotiations.

Significant government resources are used on pursuing Australia's trade interests overseas and information on where those resources should be spent to obtain the greatest net gains is required.

Analysis of the economic impacts of quarantine measures also requires information on international trade and production as well as domestic data. Information on international markets is obviously also important for the private sector in pursuing marketing and investment opportunities.

Industry profile

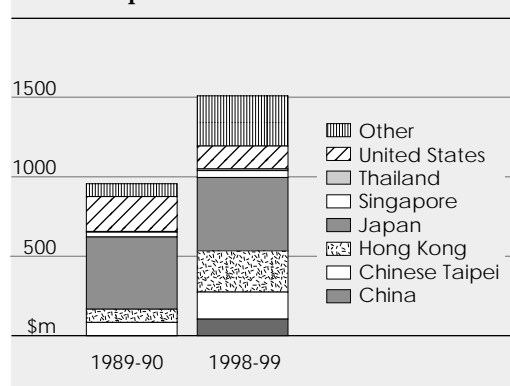
Broad economic information on the fishing industry is needed to inform policy makers and the general public of the significance of the industry so that fishing industry interests are appropriately represented in policy formulation and debate. This is likely to become increasingly important as the community places more and more emphasis on environmental values. The most basic information required is that on production, consumption, trade and employment.

Information may be required at a variety of levels — for example, at fishery, state or national levels. At present, some of this information is available through *Australian Fisheries Statistics*, published annually by ABARE, and through the Fisheries Research and Development Corporation's *From Antarctica to the Tropics: A Snapshot of the Australian Fishing Industry* which was published for the first time in 1999.

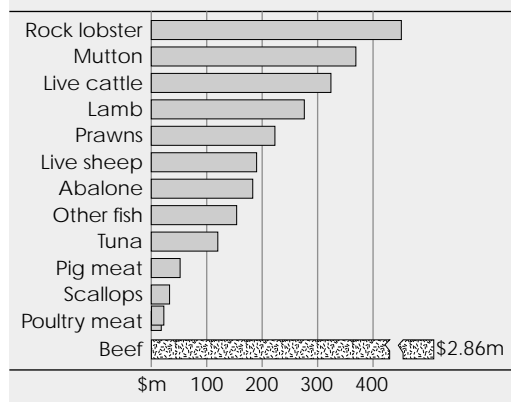
Using information contained in *Australian Fisheries Statistics* it is possible to examine various aspects of the fisheries sector at different points in time. For example, the real value of fisheries product exports in 1989-90 and 1998-99 is shown in figure A. It can be seen that the real value of exports has increased by around \$500 million to a little over \$1.5 billion and that Japan and the United States now account for a significantly smaller share of exports.

It is also possible to combine information from *Australian Fisheries Statistics* with other information to make comparisons between sectors. For example, the relative value of

A Real value of fisheries products exports In 1998-99 dollars



B Value of Australian exports, 1998-99



meat and seafood exports is illustrated in figure B.

In making comparisons between industries or between sectors within an industry care must be taken to ensure that like is compared with like. For example, in comparing the gross value of production from different sectors it is important to ensure that the valuations are performed at the same stages in the processing chain.

The conclusions that can be drawn from comparisons also need to be considered carefully. For example, an increase in the gross values of production from one year to the next does not necessarily imply that the

community is better off from these increased sales and/or prices (Holland, Stokes and Helali 1999). It will also depend on how the costs of production change.

The information just illustrated is aggregated to a very broad level. In many cases, more disaggregated information would be useful. For example, information at a fishery level may be required.

While *Australian Fisheries Statistics* has detailed production information for each of the major Commonwealth fisheries, production information for each state fishery is not presented — only state totals. The difficulty in obtaining value of production information varies from state to state. In some states it is contained in annual reports or is relatively easily derived from existing sources; in others, significant additional work is involved.

A gap in describing the fishing industry is the lack of published information on the number of people employed in the various sectors of the industry. Changes in employment at the regional, state and national levels are generally a major focus of discussions on changes that can affect an industry.

Employment data collected through the Australian Bureau of Statistics (ABS) Business Register Counts of Employment is shown in table 1.

The fishing industry breakdown presented in table 1 is the finest level of sectoral

1 Employment in commercial fishing, aquaculture and processing – September 1998

	New South Wales	Victoria	Queens- land	South Australia	Western Australia	Tasmania	Northern Territory	Total
Marine fishing								
Rock lobster fishing	np	112	109	463	1 239	346	np	2 303
Prawn fishing	191	17	1 025	157	200	np	42	1 638
Finfish trawling	210	161	476	152	97	115	36	1 247
Squid jigging	0	np	0	0	0	np	0	np
Line fishing	91	np	403	160	102	78	np	903
Marine fishing nec	352	464	817	540	498	637	154	3 462
Total	844	754	2 830	1 472	2 136	1 176	232	9 553
Aquaculture	977	243	503	310	402	684	60	3 179
Seafood processing	567	580	np	537	1 502	718	np	4 280
Fish wholesaling	1 562	673	921	398	545	136	np	4 281
Total	3 950	2 250	4 254	2 717	4 585	2 714	292	22 390

np Not published for confidentiality reasons (less than 6 data points).

Source: Australian Bureau of Statistics (1999).

disaggregation available. Employment data for related sectors are available; however, the fishing industry component of these data cannot be isolated. These other classifications include: ship building; boat building; fresh meat, fish and poultry retailing; and marine equipment retailing.

ABS employment data are available down to the statistical local area level of aggregation which can be used to examine trends at a regional level. While the data can be used to illustrate the number of people employed in activities related to commercial fishing that live in particular regions, determining the employment in a region that is attributable to a specific fishery is more difficult. Surveys of fisheries or regions are generally required to obtain this information.

While fisheries employment data exist they do not seem to be published anywhere in a regular and easily available fashion. It is intended that a table similar to table 1 will be included in future issues of *Australian Fisheries Statistics*.

Industry profile and regional marine planning

Regardless of the scope of the planning that is agreed, it seems that the regional marine planning process described in *Australia's Oceans Policy* will require regional profiles of the different values associated with current uses of resources in the region: environmental, heritage, economic, and social.

Profiles of economic values will involve the presentation of quite detailed information on the current state of the fishing industry — and other relevant industries — in each region assessed. This information will be used to inform stakeholders, decision makers and the general public of the current economic impact of industry activity in each region. Baseline information on the size and structure of the industry and the important interactions with regional, state and national economies would need to be collated.

Given the complex, multijurisdictional nature of the commercial fishing industry, it is likely that considerable cooperation between industry and state and Commonwealth departments will be required to produce accurate profiles.

In contrast to information that describes the current size and structure of the industry, the information required to assess the sensitivity of industry size and structure to changes in access regulations will depend on the scope of regional marine plans. While this might appear similar to the type of analysis undertaken for the Regional Forest Agreement process, the nature of the fishing industry and fish resources results in a considerably more complex problem. Fishing capital is relatively mobile and there is relatively little information on the spatial distribution of fish stocks that would be of assistance at a subregional level.

Issues in data collection

Having established that economic data can be a useful input to answering various questions that are asked about the commercial fishing industry, the cost of collecting the data needs to be considered. Resources available for data collection and analysis are limited and these can be expensive undertakings.

In general, it will always be possible to collect more data, so a decision needs to be made about how much data should be collected. It will usually also be necessary to consider the degree of accuracy that is required, as costs rise with the degree of accuracy. A good example is data that are collected through surveys.

The nature of the returns to the fishery should provide some guidance on how much should be spent on collecting and analysing information. At the broadest level, research and management effort seems more likely to pay off for large fisheries that currently have low returns, than for smaller fisheries or fisheries that already have high returns. However, broad indicators of economic performance need to be interpreted in the context of other available knowledge of the fishery (Rose and Stubbs 1999).

A significant constraint in collecting data that describe the fishing industry is that the data required are held in a number of locations and that different data are collected in different fisheries. *Australian Fisheries Statistics* brings some of these data together. However, as noted previously, the data

contained in the report are aggregated and will not be as useful if the task is to describe or analyse activity within a region.

Some data on a fishery level are available from the regular cost and earnings surveys conducted by ABARE and from some one-off studies that have been completed. However, for most fisheries, data are sparse and it would be difficult to comment on the economic values associated with commercial fishing activity without collecting additional data.

There is an increasing need for information that describes the economic impact of the fishing industry on a regional, state and national level. It is likely that significant cooperation between industry and state and Commonwealth departments will be required to collect and analyse this information.

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Profile of Australian fisheries in 1999

Fishery	Area	Species	Main fishing method	Number
Commonwealth				
Northern prawn	Gulf of Carpentaria from Cape York to Cape Londonderry	Banana, tiger, endeavour, and king prawn	Otter trawling	109 concessions
Torres Strait	Torres Strait waters	Prawn, rock lobster, Spanish mackerel, pearl and trochus shell, beche-de-mer, coral trout and other reef fish	Otter trawl, troll and dive	493 concessions (includes 58 processor boats)
South east fishery	Commonwealth waters from Barrenjoey Point, NSW, around Tas. to Cape Jervis, SA	Mixed fish species particularly orange roughy, ling, blue grenadier, flathead, blueeye trevalla and warehou	Otter trawl, Danish seine, anchored gillnet and demersal dropline/longline	110 trawl, 119 nontrawl concessions
Great Australian Bight	Commonwealth waters between Cape Leeuwin, WA, and Kangaroo Island, SA	Deepwater flathead, orange roughy and Bight redfish	Demersal otter, limited midwater trawl	8 concessions
Southern bluefin tuna	Commonwealth waters especially the southern and south eastern parts the AFZ	Southern bluefin tuna	Purse seining, pole and line, pelagic longline troll, rod and reel, and handline	88 concessions
Eastern tuna and billfish	Commonwealth waters off Qld, NSW, Vic. and Tas. from Cape York to the SA/Vic. border	Yellowfin, bigeye, skipjack, and albacore tuna, and billfish species	Pelagic longline, purse seine, pole, trolling, rod and reel, and handline	270 concessions
Southern and western tuna and billfish	Commonwealth waters from Cape York around northern Australia to the SA/Vic. border	Yellowfin, bigeye, skipjack, and albacore tuna, and some billfish species	Pole and line, purse seine, pelagic longline, troll, rod and reel, and handline	7 western only, 72 southern and western, 45 southern
Southern shark	Commonwealth waters off SA, Vic. and Tas.	Gummy, school and other shark	Demersal gillnet, and demersal line	137 concessions
Bass Strait scallop	Commonwealth waters off SA, Vic. and Tas.	Scallop	Dredge	154 concessions (fishery closed 1999)

Fishery	Area	Species	Main fishing method	Number
Jack mackerel	Commonwealth waters from north of the NSW/Qld border, along southern Australia to near Perth, WA	Greenback, yellowtail and Peruvian jack mackerel	Purse seine and midwater trawl	41 concessions
Southern squid	Commonwealth waters off SA, Vic., NSW, Tas. and southern Qld	Arrow or Gould's squid	Jig	56 concessions
Sub Antarctic	Heard, McDonald Islands and Macquarie Island waters	Patagonian toothfish and icefish	Otter trawl and midwater trawl	2 concessions
Western deepwater trawl	Commonwealth waters off WA	Mixed fish species	Otter trawl	9 concessions
North west slope	Commonwealth waters off the northern parts of WA	Scampi	Otter trawl	7 concessions

PROFILE

Fishery	Species	Main fishing method	Number
<i>New South Wales</i>			
Abalone	Blacklip abalone	Diving	38 fishing businesses
Rock lobster	Eastern rock lobster	Pots/traps	197 fishing businesses
Ocean prawn trawl	Eastern king, school whiting and octopus	Trawling	348 fishing businesses
Ocean trap and line	Spanner crabs, snapper silver trevally and	Fish traps, dropline longline, spanner crab nets	700 fishing businesses
Ocean haul	Sea mullet and Australian salmon	Purse seine and hauling	406 fishing businesses
Ocean fish trawl	Tiger flathead, redfish	Trawling	112 fishing businesses
Estuary prawn trawl	School prawns	Trawling	296 fishing businesses
Estuary general	Sea mullet and bream and traps	Haul, mesh and prawn nets	1005 fishing businesses

Victoria

Abalone	Greenlip, blacklip	Diving	71 licence holders
Scallop	Scallops	Dredging	94 licence holders
Bay and inlet	Mixed fish species	Various	230 licence holders
Rock lobster	Southern rock lobster	Pots	159 boats and 8003 pots
Inshore trawl	Mixed fish species	Trawling	61 licence holders

Queensland a

East coast trawl	Tiger, banana, red spot king, endeavour, eastern king, eastern school and greasy back prawns, scallops, bugs and whiting	Trawling	791 boats
East coast and Gulf of Carpentaria barramundi	Barramundi	Gillnet	345 fishery symbols
Beam trawl	Prawns	Trawling	163 fishery symbols
Net	Threadfin, mackerel, Shark and mullet	Gillnet, seine	819 fishery symbols
Reef	Mixed fish species	Handline, trolling	1702 fishery symbols
Crab	Mud, sand and spanner crabs	Pots, dillies	spanner crab 235 fishery symbols other crab 926 fishery symbols

Western Australia

West coast rock lobster	Western rock lobster	Pots	594 boats and 58 819 pots
Abalone	Greenlip, brownlip and Roe's abalone	Diving	26 licence holders
Shark Bay prawn	King tiger and endeavour prawns, scallops	Trawling	27 boats

Fishery	Species	Main fishing method	Number
Exmouth Gulf prawn	King, tiger and endeavour prawns	Trawling	16 boats
Nickol Bay prawn	King, banana prawns	Trawling	14 boats
Shark Bay scallops	Scallops	Trawling	14 boats

South Australia

Southern zone rock lobster	Southern rock lobster	Pots	185 licence holders
Northern zone rock lobster	Southern rock lobster	Pots	75 licence holders
Abalone	Greenlip, blacklip abalone	Diving	35 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	Mixed fish species	Netting, line fishing, handlines and traps	536 licence holders
Pilchard	Pilchard	Purse seine	14 licence holders

Tasmania

Abalone	Blacklip abalone	Diving	125 diving
Rock lobster	Southern rock lobster	Pots	314 licence holders and 10 507 pots
Aquaculture	Atlantic salmon, Pacific oysters	Cage culture farming	35 farms 102 farms

Northern Territory

Coastal	Finfish and bait	Line, net and trap	66 licence holders
Offshore	Mackerel, shark and reef	Trolling, hand and longline net, trap and trawling	125 licence holders
Barramundi	Barramundi and threadfin	Gillnet	26 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	36 licence holders

^a There were 1955 primary boats licensed as of 30 June 1999. Most boats tended to operate in one or two fisheries only. 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; Tasmanian Department of Primary Industries; Water and Environment Western Australian Fisheries; ABARE.

1 Gross value of Australian fisheries production

	1996-97 \$'000	1997-98 ^p \$'000	1998-99 ^s \$'000
State wild capture fisheries			
New South Wales	79 478	70 204	82 521
Victoria	71 288	80 178	69 415
Queensland	194 821	216 772	196 509
Western Australia	396 044	347 951	405 420
South Australia	146 470	164 787	167 782
Tasmania	137 896	149 237	128 560
Northern Territory	21 321	23 746	27 006
Total	1 047 318	1 052 876	1 077 213
Aquaculture a			
New South Wales	31 772	40 043	38 930
Victoria	16 927	13 713	10 860
Queensland	36 071	37 268	45 048
Western Australia	175 868	194 623	186 732
South Australia	49 477	98 220	180 171
Tasmania	78 725	75 400	85 402
Northern Territory	45 000	45 000	55 000
Total	433 840	504 267	602 143
Commonwealth fisheries			
Northern prawn	105 156	119 365	111 248
Torres Strait	25 756	34 171	35 462
South east trawl	48 738	73 197	59 185
South east nontrawl	4 507	3 823	3 776
South Tasman Rise	na	2 378	8 654
Great Australian Bight	5 666	6 046	6 193
Southern shark	17 777	11 742	15 534
East coast tuna longline	27 944	31 193	49 933
East coast purse seine	8 471	1 231	5 283
Southern bluefin tuna	40 863	40 932	56 804
Bass Strait scallop	8 030	7 015	1 706
Southern and western tuna	2 191	4 305	10 918
Other fisheries b	17 116	14 323	43 391
Total	312 216	349 721	408 089
Total value c	1 776 160	1 878 965	2 038 535

a Excludes the value of hatchery fishery production. **b** Includes north west slope, western deepwater, southern squid, Jack mackerel, Maquarie Island, Coral Sea, Cocos and Christmas Islands, and Heard and McDonald Islands. **c** 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.

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 Management Authority; Queensland Department of Primary Industries; South Australian Research and Development Institute; Tasmanian Department of Primary Industries, Water and Environment; Fisheries Western Australia.

PRODUCTION

2 Australian fisheries production in 1996-97, by state a

	NSW	Vic.	Qld	WA	SA	Tas.	NT	C'wlth	Aust.
Value	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000
Fish									
Tuna	0	0	0	44	40 200	0	13	73 031 b	96 014 c
Other	36 017	24 285	62 398	46 193	22 116	77 749	11 400	98 105 d	378 264
Total	36 017	24 285	62 398	46 237	62 316	77 749	11 413	171 136	474 278
Crustaceans									
Prawns	22 510	13	125 348	50 715	25 151	0	0	120 543 e	344 279
Rock lobster	3 830	14 550	8 357	254 554	71 379	53 330	0	7 223	413 223
Crab	4 884	1 723	18 631	3 351	2 587	2 000	7 468	49	40 693
Other	1 279	2 181	1	3 216	280	11	1 806	1 578	10 351
Total	32 503	18 467	152 336	311 836	99 397	55 341	9 274	129 393	808 547
Molluscs									
Abalone	11 600	42 011	0	10 606	25 184	63 130	0	0	152 531
Scallops	2	1 150	13 086	14 148	0	0	13	8 217	36 616
Oysters	25 887	0	1 910	0	5 205	19 000	0	0	52 002
Squid	381	328	1 162	304	1 730	55	61	2 759	6 780
Other	4 860	1 974	0	188 781	2 114	1 345	621	712 f	200 407
Total	42 730	45 463	16 158	213 839	34 233	83 530	635	11 687	448 336
Total value	111 250	88 215	230 892	571 912	195 947	216 621	66 321 g	312 216 h	1 776 160 c
Quantity	t	t	t	t	t	t	t	t	t
Fish									
Tuna	0	0	0	17	2 089	0	5	13 794 b	13 026 c
Other	13 837	6 561	12 018	26 993	9 270	19 530	2 837	37 483 d	128 528
Total	13 837	6 561	12 018	27 010	11 359	19 530	2 843	51 277	141 555
Crustaceans									
Prawns	2 136	2	9 433	4 025	2 024	0	0	10 116 e	27 736
Rock lobster	103	458	696	9 977	2 528	1 819	0	233	15 815
Crab	761	62	3 889	678	567	103	618	7	6 685
Other	187	132	63	215	21	2	179	177	976
Total	3 188	654	14 081	14 895	5 140	1 924	797	10 533	51 212
Molluscs									
Abalone	331	1 452	0	323	903	2 227	0	0	5 236
Scallops	1	575	165	2 021	0	0	4	3 518	6 283
Oysters	5 197	0	63	0	1 336	3 800	0	0	10 396
Squid	186	75	246	44	356	21	16	845	1 789
Other	1 479	799	0	1 179	1 431	396	63	237 f	5 585
Total	7 194	2 901	474	3 567	4 026	6 444	83	4 600	29 289
Total quantity	24 219	10 116	26 606	45 472	20 525	27 899	3 723	66 407 h	222 055 c

a State totals include estimates of aquaculture production but exclude hatchery. b Includes the southern bluefin, eastern tuna and billfish and southern and western tuna fisheries. c 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. d Includes the fish component of Commonwealth fisheries, plus catch from Commonwealth fishers that cannot be disaggregated due to confidentiality reasons. e Includes the northern prawn, Torres Strait, south east and other fisheries. f Includes octopus and cuttlefish from the south east and Great Australian Bight fisheries, and pearl oyster from the Torres Strait fishery. g Estimates of aquaculture value included in total due to confidentiality reasons. h 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 Management Authority; Queensland Department of Primary Industries; South Australian Research and Development Institute; Tasmanian Department of Primary Industries, Water and Environment; Fisheries Western Australia.

3 Australian fisheries production in 1997-98, by state ^{a p}

	NSW	Vic.	Qld	WA	SA	Tas.	NT	C'wlth	Aust.
Value s	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000
Fish									
Tuna	0	0	0	95	87 223	0	25	68 418 b	127 860 c
Other	28 860	20 940	67 422	39 296	24 438	83 548	15 494	118 387 d	398 385
Total	28 860	20 940	67 422	39 391	111 661	83 548	15 519	186 804	526 245
Crustaceans									
Prawns	23 683	427	131 122	55 044	33 246	0	0	140 004 e	383 526
Rock lobster	4 140	17 083	9 210	211 598	78 555	45 594	0	10 184	376 363
Crab	5 011	1 381	19 507	4 426	3 505	2 509	7 406	29	43 774
Other	1 166	1 332	1	3 879	255	26	40	1 739	8 438
Total	34 000	20 223	159 840	274 947	115 561	48 129	7 445	151 956	812 101
Molluscs									
Abalone	11 447	49 964	0	12 926	26 883	80 902	0	0	182 122
Scallops	1	829	23 699	7 641	0	0	0	7 083	39 253
Oysters	30 870	0	1 810	0	4 908	10 459	0	0	48 047
Squid	176	201	1 269	440	2 036	114	1	3 392	7 629
Other	4 893	1 734	0	207 229	1 958	1 485	782	486 f	218 567
Total	47 387	52 728	26 778	228 236	35 785	92 960	782	10 961	495 619
Total value	110 248	93 891	254 040	542 574	263 007	224 637	68 746 g	349 721 h	1 878 965 c
Quantity	t	t	t	t	t	t	t	t	t
Fish									
Tuna	0	0	0	23	5 140	0	15	10 200 b	11 890 c
Other	10 659	5 613	12 806	20 419	11 962	25 752	3 530	43 917 d	134 659
Total	10 659	5 613	12 806	20 442	17 102	25 752	3 545	54 117	146 549
Crustaceans									
Prawns	2 044	48	10 118	4 077	2 759	0	0	10 556 e	29 602
Rock lobster	108	522	768	10 551	2 622	1 465	0	551	16 587
Crab	745	59	3 777	833	633	113	613	3	6 775
Other	133	91	60	295	18	6	4	176	782
Total	3 029	720	14 723	15 756	6 031	1 584	617	11 286	53 746
Molluscs									
Abalone	327	1 397	0	326	813	2 363	0	0	5 226
Scallops	1	416	298	1 528	0	0	0	3 516	5 759
Oysters	5 934	0	60	0	1 298	1 986	0	0	9 278
Squid	92	46	254	69	426	39	0	761	1 687
Other	1 686	684	0	1 325	1 587	249	187	194 f	5 913
Total	8 039	2 543	612	3 248	4 124	4 637	187	4 471	27 862
Total quantity	21 728	8 876	28 169	39 446	27 258	31 973	4 348	69 874 h	228 157 c

a State totals include estimates of aquaculture production but exclude hatchery. **b** Includes the southern bluefin, eastern tuna and billfish, and southern and western tuna fisheries. **c** 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. **d** Includes the fish component of Commonwealth fisheries, plus catch from Commonwealth fisheries that cannot be disaggregated due to confidentiality reasons. **e** Includes the northern prawn, Torres Strait, south east and other Commonwealth fisheries. **f** Includes octopus and cuttlefish from the south east and Great Australian Bight fisheries, and pearl oyster from the Torres Strait fishery. **g** Estimates of aquaculture value included in total due to confidentiality reasons. **h** 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 Management Authority; Queensland Department of Primary Industries; South Australian Research and Development Institute; Tasmanian Department Primary Industries, Water and Environment; Fisheries Western Australia.

PRODUCTION

4 Australian fisheries production in 1998-99, by state as

	NSW	Vic.	Qld	WA	SA	Tas.	NT	C'wth	Aust.
Value	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000
Fish									
Tuna	0	0	0	103	166 700	0	15	105 324 b	223 233 c
Other	30 386	15 271	66 384	39 447	25 443	79 509	18 247	151 281 d	425 968
Total	30 386	15 271	66 384	39 550	192 143	79 509	18 261	256 605	649 201
Crustaceans									
Prawns	35 674	424	132 117	63 024	39 615	0	0	137 343 e	408 197
Rock lobster	3 820	15 360	6 599	261 424	73 908	39 846	0	7 158	408 116
Crab	5 079	656	16 013	3 513	3 863	12	7 736	14	36 886
Other	1 584	2 788	1	3 100	406	32	74	1 449	9 434
Total	46 156	19 228	154 730	331 061	117 791	39 890	7 810	145 965	862 632
Molluscs									
Abalone	11 316	43 847	0	12 930	27 161	74 200	0	0	169 454
Scallops	0	40	17 853	10 160	0	5 848	7	1 834	35 742
Oysters	27 434	0	1 890	0	5 489	11 636	0	0	46 449
Squid	257	238	700	405	2 022	484	0	2 958	7 064
Other	5 901	1 652	0	198 046	3 346	2 395	927	727 f	212 994
Total	44 908	45 777	20 443	221 541	38 018	94 563	934	5 518	471 703
Total value	121 451	80 275	241 557	592 152	347 953	213 962	82 006 g	408 089 h	2 038 535 c
Quantity	t	t	t	t	t	t	t	t	t
Fish									
Tuna	0	0	0	22	6 365	0	4	15 855 b	17 255 c
Other	10 398	4 790	12 353	16 918	10 027	19 787	3 177	48 491 d	125 941
Total	10 398	4 790	12 353	16 940	16 392	19 787	3 181	64 346	143 196
Crustaceans									
Prawns	2 695	46	9 950	4 709	2 761	0	0	10 123 e	30 284
Rock lobster	110	471	550	13 063	2 729	1 353	0	501	18 777
Crab	815	47	2 900	656	669	0	640	2	5 730
Other	172	59	60	239	35	5	7	202	780
Total	3 792	623	13 460	18 667	6 195	1 358	647	10 828	55 570
Molluscs									
Abalone	323	1 435	0	340	933	2 559	0	0	5 590
Scallops	2	20	3 607	2 336	0	475	2	784	7 226
Oysters	5 318	0	65	0	1 441	2 453	0	0	9 277
Squid	108	56	140	79	435	174	2	778	1 772
Other	1 837	607	0	1 290	1 466	397	274	317 f	6 189
Total	7 588	2 118	3 812	4 045	4 275	6 058	278	1 879	30 053
Total quantity	21 777	7 531	29 652	39 652	26 862	27 203	4 107	77 052 h	228 819 c

a State totals include estimates of aquaculture production but exclude hatchery. **b** Includes the southern bluefin, eastern tuna and billfish, southern and western tuna fisheries. **c** 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. **d** Includes the fish component of Commonwealth fisheries, plus catch from Commonwealth fisheries that cannot be disaggregated due to confidentiality reasons. **e** Includes the northern prawn, Torres Strait, south east and other fisheries. **f** Includes octopus and cuttlefish from the south east and Great Australian Bight fisheries, and pearl oyster from the Torres Strait fishery. **g** Estimates of aquaculture value included in total due to confidentiality reasons. **h** 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 Management Authority; Queensland Department of Primary Industries; South Australian Research and Development Institute; Tasmanian Department of Primary Industries, Water and Environment; Fisheries Western Australia.

5 Australian fisheries production in 1998-99, by location of catch ^{as}

	NSW	Vic.	Qld	WA	SA	Tas.	NT	Other ^b	Aust.
Value ^s	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000
Fish									
Tuna	19 908	4 525	16 955	11 087	215 912	3 741	15	0	223 233 ^c
Other	50 484	42 099	78 042	42 687	35 333	115 621	18 311	43 391	425 968
Total	70 391	46 624	94 997	53 775	251 244	119 362	18 325	43 391	649 201
Crustaceans									
Crab	5 082	658	16 013	3 513	3 865	19	7 736	0	36 886
Prawns	36 997	424	193 401	69 726	39 615	0	68 033	0	408 197
Rock lobster	3 820	15 360	13 758	261 424	73 908	39 846	0	0	408 116
Other	1 603	2 799	759	3 111	420	32	708	0	9 434
Total	47 503	19 242	223 932	337 774	117 807	39 897	76 477	0	862 632
Molluscs									
Abalone	11 316	43 847	0	12 930	27 161	74 200	0	0	169 454
Oysters	27 434	0	1 890	0	5 489	11 636	0	0	46 449
Scallops	0	1 703	17 866	10 160	0	5 891	122	0	35 742
Squid	943	1 226	720	429	2 159	678	910	0	7 064
Other	6 053	1 883	313	198 047	3 346	2 418	935	0	212 994
Total	45 745	48 658	20 789	221 565	38 155	94 823	1 967	0	471 703
Total value	163 639	114 524	339 717	613 114	407 207	254 082	151 769 ^d	43 391	2 038 535 ^{ce}
Quantity	t	t	t	t	t	t	t	t	t
Fish									
Tuna	2 180	3 864	2 053	2 098	11 381	667	4	0	17 255 ^c
Other	18 439	16 391	14 191	18 180	13 143	33 340	3 196	9 060	125 941
Total	20 619	20 254	16 244	20 279	24 524	34 007	3 200	9 060	143 196
Crustaceans									
Crab	816	48	2 900	656	670	0	640	0	5 730
Prawns	3 093	46	14 650	5 264	2 761	0	4 469	0	30 284
Rock lobster	110	471	1 051	13 063	2 729	1 353	0	0	18 777
Other	185	67	156	240	44	7	80	0	780
Total	4 205	631	18 757	19 223	6 203	1 360	5 190	0	55 570
Molluscs									
Abalone	323	1 435	0	340	933	2 559	0	0	5 590
Oysters	5 318	0	65	0	1 441	2 453	0	0	9 277
Scallops	2	755	3 610	2 336	0	494	28	0	7 226
Squid	277	300	146	91	480	222	253	0	1 770
Other	1 929	711	108	1 290	1 466	405	280	0	6 189
Total	7 848	3 202	3 929	4 058	4 321	6 133	562	0	30 051
Total quantity	32 672	24 087	38 930	43 559	35 048	41 500	8 951	9 060	228 817 ^{ce}

^a 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. ^b Includes Commonwealth fisheries that have been aggregated for reasons of confidentiality – that is, north west slope, western deep water, southern squid, Jack mackerel, Macquarie Island, Heard and McDonald Islands, Coral Sea, Cocos and Christmas Islands fisheries. ^c 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. ^d Estimates of aquaculture value included in total due to confidentiality reasons. ^e Totals include confidential Commonwealth landings and only sum across. ^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 Department of Primary Industries; Queensland Fisheries Management Authority; South Australian Research and Development Institute; Tasmanian Department of Primary Industries, Water and Environment; Fisheries Western Australia.

PRODUCTION

6 New South Wales fisheries production

	1996-97		1997-98 p		1998-99 s	
	t	\$'000	t	\$'000	t	\$'000
Crustaceans						
Rock lobster	103	3 830	108	4 140	110	3 820
King prawns	738	12 251	763	13 034	1 142	20 788
School prawns	1 106	6 356	815	4 370	948	6 904
Other prawns	82	443	105	754	143	1 147
Crabs	761	4 884	745	5 011	815	5 079
Other	157	879	92	697	132	1 113
Total a	2 949	28 644	2 627	28 006	3 289	38 850
Molluscs						
Abalone	331	11 600	327	11 447	323	11 316
Scallops	1	2	1	1	2	0
Cuttlefish	290	614	251	543	369	628
Pipi	468	916	455	750	627	1 443
Octopus	506	2 219	714	2 529	553	2 272
Squid	186	381	92	176	108	257
Other	169	831	230	856	201	874
Total a	1 950	16 563	2 070	16 301	2 183	16 790
Fish						
Sea mullet	4 143	6 245	4 451	6 478	3 575	5 087
Silver trevally	704	1 365	427	979	496	1 139
Yellowtail kingfish	83	702	76	690	123	1 021
Jack mackerel	30	21	18	14	22	25
Black and yellowfin bream	496	3 806	439	3 335	409	3 455
Australian salmon	1 316	1 449	296	284	200	227
Snapper	308	2 632	272	2 400	389	3 286
Rubberlip morwong	197	605	159	545	163	542
Mulloway	89	649	91	658	114	798
Sand whiting	165	1 500	145	1 330	210	1 861
Luderick	507	679	496	620	584	688
Other	5 371	14 618	3 373	8 564	3 616	8 752
Total a	13 411	34 271	10 241	25 898	9 901	26 880
Total wildcaught	18 310	79 478	14 937	70 204	15 372	82 521
Aquaculture b						
Prawns	209	3 460	362	5 526	463	6 835
Yabbies	30	399	40	469	40	471
Oysters	5 197	25 887	5 934	30 870	5 318	27 434
Silver perch	81	655	134	1 181	164	1 557
Trout	345	1 091	285	1 782	334	1 949
Other	46	280	36	216	87	684
Total	5 909	31 772	6 790	40 043	6 405	38 930
Total production	24 219	111 250	21 728	110 248	21 777	121 451

a Excludes catches in the Commonwealth south east and eastern tuna and billfish fisheries. b Excludes hatchery production. p Preliminary. s Estimates.

Sources: ABARE; New South Wales Fisheries; New South Wales Fish Marketing Authority.

7 Victorian fisheries production

	1996-97		1997-98 ^p		1998-99 ^s	
	t	\$'000	t	\$'000	t	\$'000
Crustaceans						
Rock lobster	458	14 550	522	17 083	471	15 360
Prawns	2	13	48	427	46	424
Giant crabs	62	1 723	59	1 381	47	656
Other	63	361	39	248	26	137
Total	585	16 647	668	19 139	590	16 577
Molluscs						
Abalone	1 452	42 011	1 397	49 964	1 435	43 847
Scallops	575	1 150	416	829	20	40
Squid	75	328	46	201	56	238
Octopus	43	109	26	75	21	59
Other	36	65	77	132	52	76
Total	2 181	43 663	1 962	51 201	1 584	44 260
Fish						
Pilchards	773	1 006	790	926	600	1 015
Bream	113	933	165	1 257	193	1 609
Sea garfish	52	306	93	370	92	342
Shark ^a	78	280	98	340	89	292
Snapper	49	355	62	470	72	512
Eels	203	858	160	636	118	271
Australian salmon	308	432	718	717	663	612
King george whiting	306	1 714	283	1 616	222	1 369
Other	2 674	5 094	1 946	3 506	1 813	2 557
Total	4 556	10 978	4 315	9 838	3 862	8 579
Total wildcaught	7 322	71 288	6 945	80 178	6 036	69 415
Aquaculture ^a						
Mussels	720	1 800	581	1 527	534	1 517
Yabbies	25	250	24	184	21	200
Trout ^b	1 690	10 000	1 130	9 366	839	5 453
Oysters	0	0	0	0	0	0
Eels	315	3 307	168	1 736	89	1 239
Other	44	1 570	28	900	12	2 451
Total	2 794	16 927	1 931	13 713	1 495	10 860
Total production	10 116	88 215	8 876	93 891	7 531	80 275

^a Shark taken only in Victorian bays and inlets. ^b Excludes hatchery production. ^c Includes salmon production. ^p Preliminary. ^s Estimates.

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

8 Queensland fisheries production

	1996-97		1997-98 ^p		1998-99 ^s	
	t	\$'000	t	\$'000	t	\$'000
Crustaceans						
Prawns	8 078	95 248	8 421	100 422	8 000	94 917
Crabs	3 889	18 631	3 777	19 507	2 900	16 013
Lobster (mainly bugs)	696	8 357	768	9 210	550	6 599
Total	12 663	122 236	12 966	129 139	11 450	117 529
Molluscs						
Scallops	165	13 086	298	23 699	3 607	17 853
Squid	246	1 162	254	1 269	140	700
Total	411	14 248	552	24 968	3 747	18 553
Fish						
Snapper	120	794	145	1 159	120	959
Barramundi	601	4 325	659	4 614	750	5 250
Bream (including tarwhine)	167	675	167	678	130	527
Mullet	1 600	4 809	1 690	5 083	1 700	4 384
Tailor	180	316	128	385	160	461
Whiting	2 168	5 887	1 860	5 146	1 800	5 252
Coral trout	1 533	15 328	1 338	13 384	1 300	13 000
Red throat emperor	695	3 477	697	3 485	580	2 900
Spanish mackerel	716	5 011	916	6 410	800	5 600
Grey mackerel	410	2 460	632	3 792	500	3 000
Other species	3 410	15 255	4 084	18 528	4 000	19 093
Total	11 601	58 338	12 317	62 665	11 840	60 427
Total wildcaught	24 675	194 821	25 835	216 772	27 037	196 509
Aquaculture ^a						
Prawns	1 355	30 100	1 697	30 700	1 950	37 200
Barramundi	383	3 750	462	4 500	485	5 700
Oysters	63	1 910	60	1 810	65	1 890
Silver perch	34	310	28	257	28	257
Redclaw	63	1	60	1	60	1
Other ^b	0	0	0	0	0	0
Total	1 931	36 071	2 334	37 268	2 615	45 048
Total production	26 606	230 892	28 169	254 040	29 652	241 557

^a Excludes hatchery production. ^b Includes pearls, freshwater and aquarium fish. ^p Preliminary. ^s Estimates.

Sources: ABARE; Queensland Fisheries Management Authority; Queensland Department of Primary Industries.

9 Western Australian fisheries production

	1996-97		1997-98 ^p		1998-99 ^s	
	t	\$'000	t	\$'000	t	\$'000
Crustaceans						
Rock lobster	9 977	254 554	10 551	211 598	13 063	261 424
Prawns	4 025	50 715	4 077	55 044	4 709	63 024
Crabs	678	3 351	833	4 426	656	3 513
Other	18	219	22	237	32	306
Total	14 698	308 839	15 483	271 305	18 460	328 267
Molluscs						
Abalone	323	10 606	326	12 926	340	12 930
Scallops	2 021	14 148	1 528	7 641	2 336	10 160
Squid	44	304	69	440	79	405
Other ^a	673	16 177	666	16 539	611	14 408
Total	3 061	41 235	2 589	37 546	3 366	37 903
Fish						
Tuna	17	44	23	95	22	103
Shark	1 629	7 106	1 760	4 229	1 711	4 582
Australian salmon	2 597	1 428	2 608	1 252	1 753	841
Snapper	2 872	9 393	2 425	8 084	2 589	9 441
Cobbler	217	508	222	626	271	959
WA jewfish (dhufish)	197	1 861	232	2 066	209	1 981
Spanish mackerel	487	3 894	560	2 883	546	3 241
Sea mullet	419	1 026	393	1 080	370	778
Yelloweye mullet	169	86	178	178	138	207
Pilchards	11 945	6 570	7 037	4 823	3 633	2 470
Australian herring	1 083	487	764	337	746	306
Whiting	213	727	281	1 100	237	1 002
Other	5 132	12 840	3 925	12 347	4 681	13 339
Total	26 977	45 970	20 408	39 100	16 906	39 250
Total wildcaught	44 736	396 044	38 480	347 951	38 732	405 420
Aquaculture ^b						
Pearls	na	171 360	na	188 937	na	181 837
Yabbies	150	1 396	231	2 253	165	1 591
Marron	47 ^c	1 158	42	1 035	42 ^d	1 027
Mussels	506	1 244	659	1 753	679	1 801
Fish	33	267	34	291	34	300
Other	na	443	na	354	na	176
Total	736	175 868	966	194 623	920	186 732
Total production	45 472	571 912	39 446	542 574	39 652	592 152

^a Value includes pearl oyster shells taken, including those taken for 'mother of pearl', and mussels and beche de mer. ^b Excludes hatchery production. ^c Reassessed based on producer surveys. ^d Not enough data available from survey to update figure from 1997-98. ^{na} Not available. ^p Preliminary. ^s Estimates.
Sources: ABARE; Fisheries Western Australia.

PRODUCTION

10 South Australian fisheries production

	1996-97		1997-98 p		1998-99 s	
	t	\$'000	t	\$'000	t	\$'000
Crustaceans						
Prawns	2 024	25 151	2 759	33 246	2 761	39 615
Rock lobster	2 528	71 379	2 622	78 555	2 729	73 908
Crab	567	2 587	633	3 505	669	3 863
Other	6	53	1	6	1	15
Total	5 125	99 170	6 014	115 312	6 161	117 400
Molluscs						
Abalone	903	25 184	813	26 883	933	27 161
Pipi (Goolwa cockle)	830	914	1 041	941	976	1 407
Squid	356	1 730	426	2 036	435	2 022
Other	601	1 200	546	1 017	385	900
Total	2 690	29 028	2 826	30 877	2 729	31 490
Fish a						
Australian salmon	555	669	632	809	527	672
Mullet	248	760	265	696	207	694
Australian herring	204	240	284	277	322	314
Snapper	305	1 516	394	1 980	447	2 238
King george whiting	586	4 471	552	3 685	594	4 629
Garfish	513	1 785	504	1 619	421	1 572
Leather jackets	426	402	475	466	330	512
Pilchard	3 428	2 197	6 041	3 846	4 465	2 500
Yellowfin whiting	102	408	73	302	84	391
Snook	120	261	113	227	117	240
Callop	235	2 862	191	2 255	155	1 971
Other species	2 106	2 701	1 845	2 436	1 684	3 158
Total	8 827	18 271	11 367	18 598	9 352	18 891
Total wildcaught	16 642	146 470	20 208	164 787	18 242	167 782
Aquaculture b						
Yabbies	10	111	11	115	27	231
Marron	5	116	6	134	7	160
Oysters	1 336	5 205	1 298	4 908	1 441	5 489
Southern bluefin tuna	2 089	40 200	5 140	87 223	6 365	166 700
Barramundi	138	1 642	193	2 681	249	3 192
Trout	25	191	23	118	14	101
Other c	280	2 012	379	3 041	517	4 298
Total	3 883	49 477	7 050	98 220	8 620	180 171
Total production	20 525	195 947	27 258	263 007	26 862	347 953

a Excludes shark from the southern shark fishery. b Excludes hatchery production. c Includes abalone, mussels, Atlantic salmon and aquarium fish. p Preliminary. s Estimates.

Sources: ABARE; South Australian Research and Development Institute.

11 Tasmanian fisheries production

	1996-97		1997-98 ^p		1998-99 ^s	
	t	\$'000	t	\$'000	t	\$'000
Crustaceans						
Rock lobster	1 819	53 330	1 465	45 594	1 353	39 846
Giant crab	103	2 000	113	2 509	0	12
Other	2	11	6	26	5	32
Total	1 924	55 341	1 584	48 129	1 358	39 890
Molluscs						
Abalone	2 227	63 130	2 363	80 902	2 559	74 200
Octopus	41	104	43	104	86	268
Scallop	0	0	0	0	475	5 848
Other	26	71	60	173	199	569
Total	2 295	63 306	2 466	81 179	3 319	80 885
Fish ^a						
Australian salmon	287	348	476	671	385	554
Cod	63	127	15	14	10	24
Garfish	92	375	83	416	101	380
Banded morwong	79	701	72	597	43	407
Jackass morwong	21	28	33	42	17	22
Elephant shark	49	60	21	32	15	23
Bastard trumpeter	52	176	40	146	48	152
Striped trumpeter	81	385	75	392	97	483
School whiting	na	na	na	na	23	33
Wrasse	110	673	99	547	90	548
Shark	829	4 058	463	2 341	166	844
Other	10 220	12 318	17 306	14 731	9 597	4 315
Total	11 883	19 249	18 683	19 929	10 592	7 785
Total wildcaught	16 102	137 896	22 733	149 237	15 269	128 560
Aquaculture ^b						
Salmonids ^c	7 647	58 500	7 069	63 619	9 195	71 724
Oysters	3 800	19 000	1 986	10 459	2 453	11 636
Other ^d	350	1 225	185	1 322	286	2 042
Total	11 797	78 725	9 240	75 400	11 934	85 402
Total production	27 899	216 621	31 973	224 637	27 203	213 962

^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 mussels, scallops, native oysters and abalone. **na** Not available. **p** Preliminary. **s** Estimates.

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

PRODUCTION

12 Northern Territory fisheries production

	1996-97		1997-98 ^p		1998-99 ^s	
	t	\$'000	t	\$'000	t	\$'000
Crustaceans						
Crab	618	7 468	613	7 406	640	7 736
Other	179	1 806	4	40	7	74
Total	797	9 274	617	7 445	647	7 810
Molluscs						
Scallops	4	13	0	0	2	7
Squid	16	61	0	1	2	0
Pearls ^a	0	0	0	0	0	0
Other	63	561	187	781	274	927
Total	83	635	187	782	278	934
Fish						
Tuna	5	13	15	25	4	15
Shark	671	1 768	565	1 585	381	1 416
Snapper	516	2 646	727	3 960	255	1 595
Barramundi	577	2 839	647	3 305	766	3 855
Threadfin salmon	216	362	272	463	321	557
Jewfish	45	110	48	124	49	142
Emperor	29	143	97	490	44	220
Cod	21	100	33	167	21	111
Mackerel	505	1 251	581	1 473	431	1 210
Gold band snapper	na	na	na	na	314	1 460
Sea perch	na	na	na	na	454	2 318
Other	258	2 182	559	3 926	142	5 362
Total	2 843	11 413	3 545	15 519	3 181	18 261
Total wildcaught	3 723	21 321	4 348	23 746	4 107	27 006
Aquaculture ^{bc}	na	45 000	na	45 000	na	55 000
Total production	3 723	66 321	4 348	68 746	4 107	82 006

^a Production includes all pearl oyster taken, including those sold for 'mother of pearl'. ^b Includes pearls and aquarium production. These values are estimated derived for a limited number of operators. ^c Excludes hatchery production. ^p Preliminary. **na** Not available. **s** Estimates.

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

13 Commonwealth fisheries production

	1996-97		1997-98 p		1998-99 s	
	t	\$'000	t	\$'000	t	\$'000
Northern prawn						
Prawn						
Tiger	2 431	45 195	2 811	59 629	2 795	52 618
Banana	4 546	45 170	3 711	35 547	3 608	42 615
Endeavour	1 247	11 461	1 975	20 964	1 129	13 670
King	41	407	21	234	11	139
Other	14	155	14	112	3	32
Total	8 279	102 388	8 531	116 486	7 547	109 075
Other species	438	2 768	381	2 879	437	2 173
Total	8 717	105 156	8 912	119 365	7 984	111 248
Torres Strait						
Prawn						
Tiger	624	9 193	875	13 973	676	11 301
Endeavour	998	8 103	910	8 001	1 428	14 770
King	26	279	89	996	70	845
Other	2	11	11	79	3	30
Total	1 649	17 587	1 885	23 049	2 178	26 945
Tropical rock lobster	233	7 223	551	10 184	501	7 158
Spanish mackerel	87	607	97	689	92	652
Other	46	264	37	240	164	697
Pearls	0	76	0	9	0	9
Total	2 015	25 756	2 570	34 171	2 934	35 462
South east - trawl						
Orange roughy	3 129	11 203	7 443	27 250	4 728	15 225
Blue grenadier	2 851	7 387	4 752	8 220	6 209	9 398
Tiger flathead	2 301	3 799	2 296	4 639	3 307	5 909
Redfish	1 357	1 415	1 812	1 993	1 550	1 718
Blue warehou	777	1 400	853	1 774	705	1 204
Silver warehou	2 860	2 983	2 436	3 752	2 463	2 697
School whiting	476	914	462	697	421	792
Jackass morwong	1 117	1 721	924	1 618	990	1 463
Ling	1 569	4 897	1 618	6 002	1 674	5 460
Gemfish	339	1 068	598	1 932	454	971
Silver trevally	168	261	131	234	91	146
Mirror dory	420	723	507	954	378	738
Royal red prawn	188	568	137	450	385	1 273
Ocean perch	349	906	371	973	356	852
John dory	118	617	102	661	136	700
Blue eye	80	373	90	502	122	599
Other	4 580	8 504	5 083	11 545	3 782	10 043
Total	22 679	48 738	29 616	73 197	27 750	59 185
South east - nontrawl a						
Blue eye	458	2 151	351	1 950	462	2 274
Blue warehou	383	691	67	137	159	271
Ling	353	1 100	211	785	207	675
Other	338	565	367	952	188	556
Total	1 532	4 507	997	3 823	1 015	3 776
Total south east	24 211	53 245	30 613	77 020	28 765	62 962
South Tasman Rise	na	na	650	2 378	3 270	8 654

Continued

PRODUCTION

13 Commonwealth fisheries production (continued)

	1996-97		1997-98 ^p		1998-99 ^s	
	t	\$'000	t	\$'000	t	\$'000
Southern shark						
School and gummy	4 169	16 620	2 858	10 841	2 462	13 882
Other shark	757	1 157	607	900	550	1 514
Fish	na	na	na	na	33	138
Total	4 926	17 777	3 465	11 742	3 045	15 534
Great Australian Bight						
Orange roughy	349	992	430	1 212	575	1 852
King flathead	1 477	2 568	1 018	2 046	679	1 446
Bight redfish	332	425	376	909	439	1 053
Leather jacket	122	274	118	154	121	402
Angel shark	129	219	120	277	101	151
Boarfish	123	234	103	236	68	122
Jackass morwong	61	82	66	110	97	143
Squid	93	150	58	84	35	70
Knifejaw	52	46	48	21	44	24
Gemfish	35	99	73	234	92	197
Blue grenadier	13	34	23	39	48	73
Queen snapper	33	185	30	198	29	45
Spotted trevalla	2	2	9	19	54	60
Other	189	355	215	506	206	557
Total	3 010	5 666	2 687	6 046	2 590	6 193
East coast – longline and minor line						
Yellowfin	1 676	15 055	1 242	7 989	2 183	20 790
Skipjack	20	42	23	43	28	32
Albacore	317	725	418	1 629	430	626
Bigeye	568	5 684	1 024	12 289	904	10 873
Billfish	1 084	5 968	1 929	8 578	2 185	16 131
Other	227	471	318	665	609	1 481
Total	3 892	27 944	4 954	31 193	6 339	49 933
East coast – purse seine and pole						
Yellowfin	50	358	1	5	0	2
Skipjack	4 785	8 051	826	1 207	4 591	5 280
Other	54	63	10	19	1	2
Total	4 889	8 471	837	1 231	4 592	5 283
Total east coast	8 781	36 416	5 791	32 424	10 931	55 216
Southern bluefin tuna	5 940	40 863	4 791	40 932	5 649	56 804
Western and southern tuna	403	2 191	1 864	4 305	2 071	10 918
Bass Strait scallop	3 491	8 030	3 508	7 015	754	1 706
Other fisheries ^b	4 912	17 116	5 023	14 323	9 060	43 391
Total production	66 407	312 216	69 874	349 721	77 052	408 089

a Incomplete data for 1996-97. **b** Includes north west slope, western deepwater, southern squid, Jack mackerel, Maquarie Island, Coral Sea, Cocos and Christmas Islands, and Heard and MacDonalld Islands. **p** Preliminary. **s** Estimates. **na** Not available.

Sources: Australian Fisheries Management Authority; ABARE.

14 Australian aquaculture production in 1996-97, by state ^a

Value	NSW	Vic.	Qld	WA	SA	Tas.	NT	Aust.
	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000
Fish								
Salmon	0	0	0	0	0	58 500	0	58 500
Trout	1 091	10 000 ^b	0	267	191	0	0	11 549
Tuna	0	0	0	0	40 200	0	0	40 200
Silver perch	655	0	310	0	0	0	0	965
Barramundi	0	0	3 750	0	1 642	0	0	5 392
Other ^c	80	3 307	0	0	2 012	0	0	5 399
Total	1 827	13 307	4 060	267	44 045	58 500	0	122 006
Crustaceans								
Prawn	3 460	0	30 100	0	0	0	0	33 560
Yabbies	399	250	0	1 396	111	0	0	2 156
Marron	0	0	0	1 158	116	0	0	1 274
Redclaw	0	0	1	0	0	0	0	1
Other ^d	0	1 570	0	443	0	0	0	2 013
Total	3 859	1 820	30 101	2 997	227	0	0	39 004
Molluscs								
Edible oysters	25 887	0	1 910	0	5 205	19 000	0	52 002
Pearl oysters	0	0	0	171 360	0	0	0	171 360
Mussels	200	1 800	0	1 244	0	0	0	3 244
Other ^e	0	0	0	0	0	1 225	0	1 225
Total	26 087	1 800	1 910	172 604	5 205	20 225	0	227 831
Total value	31 772	16 927	36 071	175 868	49 477	78 725	45 000 ^f	433 840 ^f
Quantity								
	t	t	t	t	t	t	t	t
Fish								
Salmon	0	0	0	0	0	7 647	0	7 647
Trout	345	1 690 ^b	0	33	25	0	0	2 093
Tuna	0	0	0	0	2 089	0	0	2 123
Silver perch	81	0	34	0	0	0	0	115
Barramundi	0	0	417	0	138	0	0	555
Other ^c	6	315	0	0	280	0	0	601
Total	433	2 005	450	33	2 532	7 647	0	13 134
Crustaceans								
Prawn	209	0	1 355	0	0	0	0	1 564
Yabbies	30	25	0	150	10	0	0	215
Marron	0	0	0	47	5	0	0	52
Redclaw	0	0	63	0	0	0	0	63
Other ^d	0	44	0	0	0	0	0	44
Total	239	69	1 418	197	15	0	0	1 938
Molluscs								
Edible oysters	5 197	0	63	0	1 336	3 800	0	10 396
Pearl oysters	0	0	0	0	0	0	0	0
Mussels	40	720	0	506	0	0	0	1 266
Other ^e	0	0	0	0	0	350	0	350
Total	5 237	720	63	506	1 336	4 150	0	12 012
Total quantity	5 909	2 794	1 931	736	3 883	11 797	na	27 084

^a Excludes hatchery production, crocodiles, microalgae and aquarium worms. ^b Includes salmon production. ^c Includes eels, other native fish and aquarium fish. ^d Includes crabs and brine shrimp. ^e Includes mussels, scallops, abalone and giant clams. ^f Northern Territory aquaculture has been aggregated for reasons of confidentiality. Total only sums across. **na** Not available.

Sources: ABARE; Bribie Island Aquaculture Research Centre; Marine and Freshwater Resources Institute; New South Wales Fisheries; Northern Territory Department of Primary Industries and Fisheries; Queensland Department of Primary Industries; South Australian Research and Development Institute; Tasmanian Department of Primary Industries, Water and Environment; Fisheries Western Australia.

PRODUCTION

15 Australian aquaculture production 1997-98, by state ^{a p}

Value	NSW	Vic.	Qld	WA	SA	Tas.	NT	Aust.
	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000
Fish								
Salmon	0	0	0	0	0	63 619	0	63 619
Trout	1 782	9 366 b	0	291	118	0	0	11 557
Silver perch	1 181	0	257	0	0	0	0	1 438
Barramundi	0	0	4 500	0	2 681	0	0	7 181
Tuna	0	0	0	0	87 223	0	0	87 223
Other c	60	1 736	0	0	3 041	0	0	4 837
Total	3 023	11 102	4 757	291	93 063	63 619	0	175 855
Crustaceans								
Prawn	5 526	0	30 700	0	0	0	0	36 226
Yabbies	469	184	0	2 253	115	0	0	3 021
Marron	0	0	0	1 035	134	0	0	1 169
Redclaw	0	0	1	0	0	0	0	1
Other d	0	900	0	354	0	0	0	1 254
Total	5 995	1 084	30 701	3 642	249	0	0	41 670
Molluscs								
Edible oysters	30 870	0	1 810	0	4 908	10 459	0	48 047
Pearl oysters	0	0	0	188 937	0	0	0	188 937
Mussels	155	1 527	0	1 753	0	0	0	3 435
Other e	0	0	0	0	0	1 322	0	1 322
Total	31 025	1 527	1 810	190 690	4 908	11 781	0	241 741
Total value	40 043	13 713	37 268	194 623	98 220	75 400	45 000 f	504 267 f
Quantity								
	t	t	t	t	t	t	t	t
Fish								
Salmon	0	0	0	0	0	7 069	0	7 069
Trout	285	1 130	0	34	23	0	0	1 472
Tuna	0	0	0	0	5 140	0	0	5 168
Silver perch	134	0	28	0	0	0	0	162
Barramundi	0	0	490	0	193	0	0	683
Other c	4	168	0	0	379	0	0	551
Total	423	1 298	517	34	5 735	7 069	0	15 104
Crustaceans								
Prawn	362	0	1 697	0	0	0	0	2 059
Yabbies	40	24	0	231	11	0	0	306
Marron	0	0	0	42	6	0	0	48
Redclaw	0	0	60	0	0	0	0	60
Other d	0	28	0	0	0	0	0	28
Total	402	52	1 757	273	17	0	0	2 502
Molluscs								
Edible oysters	5 934	0	60	0	1 298	1 986	0	9 278
Pearl oysters	0	0	0	0	0	0	0	0
Mussels	31	581	0	659	0	0	0	1 271
Other e	0	0	0	0	0	185	0	185
Total	5 965	581	60	659	1 298	2 171	0	10 734
Total quantity	6 790	1 931	2 334	966	7 050	9 240	na	28 339

a Excludes hatchery production, crocodiles, microalgae and aquarium worms. **b** Includes salmon production. **c** Includes eels, aquarium fish and other native fish. **d** Includes crabs and brine shrimp. **e** Includes mussels, scallops, giant clams and abalone. **f** Northern Territory aquaculture has been aggregated for reasons of confidentiality. Total only sums across. **na** Not available. **p** Preliminary.

Sources: ABARE; Bribie Island Aquaculture Research Centre; Marine and Freshwater Resources Institute; New South Wales Fisheries; Northern Territory Department of Primary Industries and Fisheries; Queensland Department of Primary Industries; South Australian Research and Development Institute; Tasmanian Department of Primary Industries, Water and Environment; Fisheries Western Australia; Tuna Boat Owners Association of Australia.

16 Australian aquaculture production in 1998-99, by state as

<i>Value</i>	NSW	Vic.	Qld	WA	SA	Tas.	NT	Aust.
	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000
Fish								
Salmon	0	0	0	0	0	71 724	0	71 724
Trout	1 949	5 453 b	0	300	101	0	0	7 803
Tuna	0	0	0	0	166 700	0	0	166 700
Silver perch	1 557	0	257	0	0	0	0	1 814
Barramundi	0	0	5 700	0	3 192	0	0	8 892
Other c	684	1 239	0	0	3 259	0	0	5 182
Total	4 190	6 692	5 957	300	173 252	71 724	0	262 115
Crustaceans								
Prawn	6 835	0	37 200	0	0	0	0	44 035
Yabbies	471	200	0	1 591	231	0	0	2 493
Marron	0	0	0	1 027	160	0	0	1 187
Redclaw	0	0	1	0	0	0	0	1
Other d	0	2 451	0	176	0	0	0	2 627
Total	7 306	2 651	37 201	2 794	391	0	0	50 343
Molluscs								
Edible oysters	27 434	0	1 890	0	5 489	11 636	0	46 449
Pearl oysters	0	0	0	181 837	0	0	0	181 837
Mussels	0	1 517	0	1 801	183	0	0	3 501
Other e	0	0	0	0	856	2 042	0	2 898
Total	27 434	1 517	1 890	183 638	6 528	13 678	0	234 685
Total value	38 930	10 860	45 048	186 732	180 171	85 402	55 000 f	602 143 f
Quantity	t	t	t	t	t	t	t	t
Fish								
Salmon	0	0	0	0	0	9 195	0	9 196
Trout	334	839 b	0	34	14	0	0	1 221
Tuna	0	0	0	0	6 365	0	0	6 393
Silver perch	164	0	28	0	0	0	0	191
Barramundi	0	0	513	0	249	0	0	762
Other c	87	89	0	0	412	0	0	588
Total	584	928	540	34	7 040	9 195	0	18 349
Crustaceans								
Prawn	463	0	1 950	0	0	0	0	2 413
Yabbies	40	21	0	165	27	0	0	253
Marron	0	0	0	42	7	0	0	49
Redclaw	0	0	60	0	0	0	0	60
Other d	0	12	0	0	0	0	0	12
Total	503	33	2 010	207	34	0	0	2 787
Molluscs								
Edible oysters	5 318	0	65	0	1 441	2 453	0	9 277
Pearl oysters	0	0	0	0	0	0	0	0
Mussels	0	534	0	679	84	0	0	1 297
Other e	0	0	0	0	84	286	0	370
Total	5 318	534	65	679	1 609	2 739	0	10 944
Total quantity	6 405	1 495	2 615	920	8 683	11 934	na	32 080

a Excludes hatchery production, crocodiles, microalgae and aquarium worms. **b** Includes salmon production. **c** Includes eels aquarium fish and other native fish. **d** Includes crabs and brine shrimp. **e** Includes mussels, scallops and giant clams and abalone. **f** Northern Territory aquaculture has been aggregated for reasons of confidentiality. Total only sums across. **na** Not available. **s** Estimates.

Sources: ABARE; Bribie Island Aquaculture Research Centre; Marine and Freshwater Resources Institute; New South Wales Fisheries; Northern Territory Department of Primary Industries and Fisheries; Queensland Department of Primary Industries; South Australian Research and Development Institute; Tasmanian Department of Primary Industries, Water and Environment; Fisheries Western Australia.

17 Australian exports of fisheries products

	1996-97		1997-98		1998-99 p	
	t	\$'000	t	\$'000	t	\$'000
Edible						
Fish						
Live	na	14 657	na	16 028	na	13 313
Fresh, chilled or frozen						
Whole						
Tuna a	3 406	44 757	5 303	79 952	7 015	102 699
Other	8 370	55 136	9 344	54 135	10 198	71 411
Fillets	2 421	18 636	3 914	32 325	5 343	49 099
Canned	428	2 472	276	1 878	384	2 731
Dried, salted and smoked	340	10 197	578	10 159	197	6 869
Other fish products	4 020	36 740	4 252	39 066	3 034	28 567
Total fish b	18 986	182 596	23 666	233 542	26 170	274 689
Crustaceans and molluscs						
Rock lobster	12 481	453 395	12 261	424 458	14 392	451 415
Prawns	10 974	184 790	12 387	234 240	11 995	224 254
Abalone	2 940	169 586	3 003	191 716	3 396	184 621
Scallops	1 325	36 570	1 346	36 391	1 569	33 236
Oysters	22	296	42	515	73	613
Crabs	3 091	27 521	2 692	26 953	1 892	19 839
Other	1 736	30 782	1 958	33 557	2 050	35 087
Total	32 568	902 940	33 689	947 831	35 366	949 064
Total edible b	51 554	1 085 535	57 356	1 181 373	61 537	1 223 753
Nonedible						
Marine fats and oils	na	2 224	na	3 086	na	2 894
Fish meal	na	4 543	na	8 466	na	6 779
Pearls	na	191 754	na	285 744	na	272 016
Ornamental fish	na	5 281	na	1 330	na	1 268
Other nonedible	na	15 535	na	9 428	na	4 673
Total nonedible	na	219 336	na	308 054	na	287 629
Total fisheries products	na	1 304 872	na	1 489 427	na	1 511 382

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

18 Australian exports of fish

	1996-97		1997-98		1998-99 ^p	
	t	\$'000	t	\$'000	t	\$'000
Tuna ^a						
Whole						
Fresh or chilled	3 033	42 371	4 651	70 352	5 286	71 821
Frozen	373	2 387	652	9 600	1 729	30 878
Canned	123	778	224	1 452	351	2 425
Other	2 224	21 680	2 057	23 076	1 163	15 240
Total	5 752	67 215	7 584	104 479	8 529	120 363
Salmon						
Fresh or chilled	1 845	18 505	1 359	11 954	767	7 847
Frozen	162	2 731	121	1 589	194	2 403
Smoked	65	1 460	44	963	53	1 037
Total	2 072	22 696	1 524	14 505	1 014	11 288
Other fish						
Live	na	14 657	na	16 028	na	13 313
Whole						
Fresh or chilled	1 727	11 297	1 720	9 341	835	7 236
Frozen						
Whiting	1 756	3 346	2 139	3 982	1 698	3 415
Other	2 880	19 258	4 005	27 269	6 704	50 510
Fillets						
Fresh or chilled	509	4 988	400	5 403	584	4 841
Frozen	1 913	13 648	3 515	26 922	4 759	44 258
Other (fresh, chilled or frozen)	663	8 080	1 071	9 290	1 237	9 380
Canned	305	1 694	78	607	33	307
Dried, salted and smoked	275	8 737	534	9 197	143	5 831
Other	1 133	6 980	1 098	6 519	634	3 947
Total ^b	11 162	90 631	14 559	114 557	16 627	143 038
Total fish ^b	18 986	182 596	23 666	233 542	26 170	274 689

^a Exports of tuna landed in Australia. Tuna transhipped at sea or captured under joint venture or bilateral agreements are not included. ^b Excludes live tonnage but includes live value. ^p Preliminary. **na** Not available.
Source: Australian Bureau of Statistics.

EXPORTS

19 Australian exports of crustaceans and molluscs

	1996-97		1997-98		1998-99 p	
	t	\$'000	t	\$'000	t	\$'000
Rock lobster						
Whole						
Live, fresh or chilled	7 130	267 298	7 256	254 265	8 374	268 556
Frozen	664	19 686	632	17 213	714	17 005
Cooked	3 528	112 200	3 202	87 731	3 663	86 956
Tails (fresh, chilled or frozen)	973	49 623	1 049	63 808	1 464	76 064
Other	186	4 589	122	1 442	176	2 835
Total	12 481	453 395	12 261	424 458	14 392	451 415
Prawns						
Headless	1 801	33 237	1 941	40 543	1 150	24 854
Whole	8 891	147 361	10 174	189 055	10 630	195 710
Other	283	4 191	272	4 643	215	3 691
Total	10 974	184 790	12 387	234 240	11 995	224 254
Crabs						
Fresh, frozen or cooked	3 087	27 506	2 690	26 946	1 891	19 836
Other	4	14	2	7	0	3
Total	3 091	27 521	2 692	26 953	1 892	19 839
Abalone						
Fresh, chilled or frozen	1 429	75 286	1 439	81 820	1 688	86 782
Canned	1 511	94 300	1 564	109 896	1 707	97 839
Total	2 940	169 586	3 003	191 716	3 396	184 621
Scallops						
Fresh, chilled or frozen	1 273	35 196	1 309	35 573	1 530	32 233
Other	52	1 374	37	818	40	1 002
Total	1 325	36 570	1 346	36 391	1 569	33 236
Other	1 758	31 078	2 000	34 072	2 122	35 700
Total crustaceans and molluscs	32 568	902 940	33 689	947 831	35 366	949 064

p Preliminary.

Source: Australian Bureau of Statistics.

20 Australian exports of edible fish, by destination

	1996-97		1997-98		1998-99 p	
	t	\$'000	t	\$'000	t	\$'000
Tuna a						
Fresh or chilled (whole)						
Japan	2 912	41 375	4 416	68 503	4 673	66 521
Singapore	1	25	3	113	7	131
United States	72	662	223	1 607	593	4 968
Other	48	309	9	129	13	201
Total	3 033	42 371	4 651	70 352	5 286	71 821
Frozen (whole)						
Japan	308	2 131	498	8 519	1 642	30 721
Samoa	49	171	58	182	84	134
Other	16	85	96	898	3	23
Total	373	2 387	652	9 600	1 729	30 878
Salmon						
Fresh or chilled (whole)						
Chinese Taipei	6	56	0	9	0	0
Hong Kong	3	61	0	1	0	0
Japan	1 714	16 704	1 282	11 166	760	7 774
Singapore	9	170	1	22	1	7
South Korea	10	234	0	0	0	0
United States	0	0	0	0	0	0
Other	102	1 279	76	756	6	67
Total	1 845	18 505	1 359	11 954	767	7 847
Frozen (whole)						
Chinese Taipei	31	394	12	177	0	0
Hong Kong	16	251	13	267	3	71
Japan	54	995	65	636	87	1 187
South Korea	28	671	0	0	0	0
Thailand	3	77	5	103	4	73
Other	30	343	27	405	100	1 072
Total	162	2 731	121	1 589	194	2 403
Whiting						
Frozen (whole)						
Chinese Taipei	16	38	0	0	0	0
Hong Kong	83	156	1	6	19	46
Japan	179	421	106	236	180	445
Thailand	1 315	2 412	1 883	3 448	1 332	2 585
Other	163	319	149	292	167	338
Total	1 756	3 346	2 139	3 982	1 698	3 415
Frozen (meat)						
Japan	13	26	1	18	0	0
Thailand	104	243	69	173	0	0
Other	0	1	1	5	120	71
Total	117	271	70	196	120	71

Continued

20 Australian exports of edible fish, by destination *(continued)*

	1996-97		1997-98		1998-99 p	
	t	\$'000	t	\$'000	t	\$'000
Other fish						
Fresh or chilled (whole)						
Chinese Taipei	172	1 488	66	623	21	189
Hong Kong	14	167	27	452	32	509
Japan	654	4 900	449	2 792	238	2 689
Singapore	20	118	39	126	22	132
United States	333	2 055	426	2 524	237	2 373
Other	136	1 165	431	1 501	65	498
Total	1 329	9 893	1 439	8 018	615	6 390
Fresh or chilled (fillets)						
Hong Kong	21	209	0	6	4	26
Japan	288	2 537	210	3 236	335	2 038
United States	94	1 267	113	1 409	158	1 818
Other	106	976	76	752	87	958
Total	509	4 988	400	5 403	584	4 841
Frozen (whole)						
Germany	252	2 590	175	1 695	140	1 377
Hong Kong	377	2 049	366	2 427	325	2 207
Japan	393	4 189	1 228	9 809	3 206	27 934
United States	275	1 794	474	4 619	830	8 410
Other	1 357	5 808	1 588	6 157	2 106	9 163
Total	2 655	16 430	3 832	24 707	6 607	49 091
Frozen (fillets)						
China	2	33	405	865	355	1 210
Chinese Taipei	100	903	16	326	58	861
Hong Kong	255	1 331	166	1 008	113	1 071
Japan	308	2 295	582	3 582	787	7 664
United States	580	6 304	1 480	18 259	2 083	28 606
Other	667	2 783	865	2 882	1 364	4 845
Total	1 913	13 648	3 515	26 922	4 759	44 258
Canned						
Tuna						
New Zealand	99	620	168	1 152	284	2 030
Singapore	9	67	13	84	22	148
Other	14	91	43	216	45	246
Total	123	778	224	1 452	351	2 425
Salmon						
Canada	25	361	0	0	0	0
New Zealand	1	6	4	62	18	103
Singapore	4	69	4	44	3	36
Other	5	42	8	108	1	7
Total	35	478	16	214	21	146
Other fish						
Chinese Taipei	1	7	5	87	0	0
Japan	40	182	9	41	0	1
New Zealand	133	490	44	305	19	146
Singapore	7	104	7	91	6	97
Other	124	911	12	83	8	62
Total	305	1 694	78	607	33	307

a Exports of tuna landed in Australia. Tuna transhipped at sea or captured under joint venture or bilateral agreements are not included. p Preliminary.

Source: Australian Bureau of Statistics.

21 Australian exports of crustaceans, by destination

	1996-97		1997-98		1998-99 p	
	t	\$'000	t	\$'000	t	\$'000
Rock lobster						
Whole						
Live, fresh or chilled						
China	807	30 741	1 896	75 223	1 520	54 188
Chinese Taipei	2 163	78 144	1 410	41 668	1 680	47 735
Hong Kong	2 637	101 536	2 173	81 672	3 185	106 178
Japan	1 377	51 319	1 655	51 202	1 770	52 778
Singapore	75	2 923	62	2 402	43	1 569
United States	20	710	15	593	44	2 131
Other	52	1 925	44	1 504	132	3 978
Total	7 130	267 298	7 256	254 265	8 374	268 556
Frozen						
China	0	1	0	0	5	111
Chinese Taipei	200	6 035	196	5 299	161	4 254
Hong Kong	43	804	18	501	5	103
Japan	374	11 159	415	11 271	415	8 950
Singapore	9	236	0	2	19	466
United States	17	1 128	3	119	91	2 713
Other	21	323	1	21	18	407
Total	664	19 686	632	17 213	714	17 005
Cooked						
China	1	34	22	583	89	2 041
Chinese Taipei	1 739	53 244	2 080	56 863	2 169	49 681
Japan	1 674	55 272	949	25 929	1 142	28 144
Singapore	20	541	41	1 222	150	3 725
Other	94	3 109	110	3 134	113	3 365
Total	3 528	112 200	3 202	87 731	3 663	86 956
Tails						
Fresh, chilled or frozen						
China	0	6	1	26	0	0
Chinese Taipei	84	2 375	8	260	72	1 770
Hong Kong	31	1 358	25	1 209	68	2 542
Japan	173	7 409	48	3 230	182	6 831
Singapore	6	235	1	58	12	499
United States	668	37 647	963	58 956	1 113	63 773
Other	10	593	3	69	17	648
Total	973	49 623	1 049	63 808	1 464	76 064
Other						
Chinese Taipei	24	980	0	0	19	382
Japan	93	838	100	1 058	81	1 244
United States	1	14	4	103	14	859
Other	69	2 757	18	281	63	349
Total	186	4 589	122	1 442	176	2 835
Total rock lobster	12 481	453 395	12 261	424 458	14 392	451 415

Continued

21 Australian exports of crustaceans, by destination *(continued)*

	1996-97		1997-98		1998-99 ^p	
	t	\$'000	t	\$'000	t	\$'000
Prawns						
Headless						
China	88	999	63	727	23	275
Chinese Taipei	21	464	11	288	22	462
Hong Kong	214	2 636	450	6 849	88	1 256
Japan	1 310	27 097	1 326	31 152	821	19 941
Spain	78	772	13	229	119	1 579
Other	90	1 269	79	1 299	77	1 340
Total	1 801	33 237	1 941	40 543	1 150	24 854
Whole						
China	1 560	18 284	2 248	33 449	2 081	34 274
Chinese Taipei	142	2 610	119	2 567	155	3 077
Hong Kong	1 117	15 064	1 422	20 930	1 132	18 032
Italy	8	84	40	942	91	1 730
Japan	4 611	93 755	4 549	105 749	4 667	101 199
Spain	454	5 125	668	8 808	1 389	19 946
United States	9	197	1	14	3	85
Other	989	12 242	1 128	16 595	1 112	17 367
Total	8 891	147 361	10 174	189 055	10 630	195 710
Other						
China	17	219	14	261	22	432
Chinese Taipei	104	2 017	105	1 854	8	270
Japan	69	847	88	1 577	40	852
Singapore	24	328	23	438	13	295
Other	69	779	42	513	132	1 841
Total	283	4 191	272	4 643	215	3 691
Total prawns	10 974	184 790	12 387	234 240	11 995	224 254
Crabs						
Fresh, frozen or cooked						
China	24	580	124	3 057	124	2 108
Chinese Taipei	2 358	18 897	1 766	14 254	1 155	9 634
Hong Kong	177	2 626	161	2 633	110	1 736
Japan	345	2 880	499	4 446	416	4 689
Singapore	79	1 111	56	663	26	362
United States	35	891	65	1 700	34	1 058
Other	70	521	20	191	27	248
Total	3 087	27 506	2 690	26 946	1 891	19 836

^p Preliminary.

Source: Australian Bureau of Statistics.

22 Australian exports of molluscs, by destination

	1996-97		1997-98		1998-99 p	
	t	\$'000	t	\$'000	t	\$'000
Abalone						
Fresh, chilled or frozen						
Chinese Taipei	165	6 472	209	9 178	178	6 884
Hong Kong	371	26 081	529	35 178	847	44 750
Japan	809	37 614	583	30 125	572	28 782
Singapore	58	3 553	80	5 119	36	2 447
United States	8	474	6	384	11	797
Other	17	1 092	31	1 836	44	3 122
Total	1 429	75 286	1 439	81 820	1 688	86 782
Canned						
Chinese Taipei	440	27 045	496	34 452	571	33 299
Hong Kong	408	25 774	380	27 094	456	25 949
Japan	416	26 113	406	29 020	328	19 143
Singapore	193	12 021	213	14 131	247	13 765
United States	34	2 160	49	3 614	56	3 264
Other	20	1 186	20	1 584	50	2 418
Total	1 511	94 300	1 564	109 896	1 707	97 839
Scallops						
Fresh, chilled or frozen						
France	200	3 101	194	3 252	103	2 039
Hong Kong	726	22 605	813	24 487	933	20 133
Singapore	188	5 514	177	5 116	268	5 424
Other	158	3 976	125	2 718	225	4 637
Total	1 273	35 196	1 309	35 573	1 530	32 233

p Preliminary.

Source: Australian Bureau of Statistics.

23 Australian exports of fisheries products, by destination

	1996-97		1997-98		1998-99 p	
	t	\$'000	t	\$'000	t	\$'000
Edible (excluding live)						
China	2 815	53 183	5 158	119 213	5 046	102 140
Chinese Taipei	8 460	215 024	7 088	177 868	6 858	169 110
France	221	3 468	276	4 462	452	7 841
Germany	325	3 656	258	2 851	360	2 466
Greece	64	847	149	2 697	296	5 417
Hong Kong	7 838	225 743	7 938	227 090	8 249	240 343
Indonesia	261	2 690	464	2 706	242	1 338
Italy	70	973	116	2 046	182	2 848
Japan	20 803	422 764	22 301	441 310	24 408	448 283
Malaysia	621	10 233	214	3 818	293	5 030
New Zealand	859	6 074	1 081	7 307	1 018	7 293
Singapore	1 463	36 744	1 404	37 144	1 689	39 546
South Africa	260	2 300	373	3 924	266	3 863
South Korea	768	7 915	678	4 168	430	2 947
Spain	562	6 125	703	9 167	1 574	21 825
Thailand	1 913	6 155	2 909	12 805	2 407	9 285
United States	2 391	58 303	3 990	98 243	5 701	129 012
Vietnam	319	1 044	587	1 206	121	528
Other	1 540	7 637	1 668	7 320	1 944	11 325
Total	51 554	1 070 878	57 356	1 165 345	61 537	1 210 440
Nonedible						
China	na	84	na	656	na	1 842
Chinese Taipei	na	1 840	na	1 059	na	613
France	na	423	na	1 793	na	6 202
Germany	na	3 860	na	2 169	na	1 734
Hong Kong	na	10 705	na	17 502	na	7 532
Italy	na	135	na	482	na	891
Japan	na	24 040	na	41 898	na	13 987
Philippines	na	133	na	719	na	621
New Zealand	na	5 803	na	6 861	na	6 641
Singapore	na	3 226	na	3 406	na	3 586
South Korea	na	1 951	na	993	na	974
Switzerland	na	8 286	na	8 940	na	31 165
Spain	na	3 553	na	3 424	na	1 507
Thailand	na	1 668	na	1 576	na	1 469
United Kingdom	na	3 791	na	5 194	na	7 162
United States	na	17 679	na	11 855	na	15 098
Other	na	132 159	na	199 526	na	186 606
Total	na	219 336	na	308 054	na	287 629
Total exports	na	1 290 214	na	1 473 399	na	1 498 069

p Preliminary. na Not available.

Source: Australian Bureau of Statistics.

24 Australian exports of seafood to selected countries, by product ^a

	1996-97		1997-98		1998-99 ^p	
	t	\$'000	t	\$'000	t	\$'000
Hong Kong						
Dried, salted or smoked fish	198	6 954	450	8 192	101	4 552
Other fish	940	5 575	772	6 176	549	4 802
Rock lobster	2 821	107 550	2 309	86 269	3 286	109 613
Prawns	1 357	18 020	1 872	27 786	1 238	19 572
Crabs	177	2 626	161	2 633	110	1 736
Abalone	779	51 856	910	62 273	1 303	70 699
Scallops	760	23 631	838	25 155	972	21 065
Other	806	9 530	626	8 607	690	8 304
Total	7 838	225 743	7 938	227 090	8 249	240 343
Japan						
Tuna (whole)	3 220	43 506	4 914	77 022	6 316	97 242
Fillets	596	4 831	792	6 818	1 121	9 702
Dried, salted or smoked fish	6	205	16	340	35	677
Other fish	5 414	51 326	5 588	50 495	5 904	58 542
Rock lobster	3 691	125 997	3 167	92 690	3 590	97 947
Prawns	5 990	121 699	5 963	138 478	5 528	121 992
Crabs	345	2 880	499	4 446	416	4 689
Abalone	1 225	63 727	989	59 146	900	47 925
Scallops	17	317	1	38	1	5
Other	299	8 275	372	11 838	597	9 561
Total	20 803	422 764	22 301	441 310	24 408	448 283
Singapore						
Tuna (whole)	1	25	8	217	7	135
Fillets	54	622	106	564	149	1 215
Dried, salted or smoked fish	26	1 560	11	472	12	580
Canned fish	16	171	16	148	28	245
Other fish	333	1 982	282	1 673	323	2 427
Rock lobster	112	4 005	104	3 684	225	6 259
Prawns	48	745	38	579	16	377
Crabs	79	1 111	56	663	26	362
Abalone	250	15 574	293	19 251	283	16 212
Scallops	189	5 540	177	5 116	268	5 424
Other	355	5 408	314	4 777	352	6 308
Total	1 463	36 744	1 404	37 144	1 689	39 546

Continued

24 Australian exports of seafood to selected countries, by product ^a (continued)

	1996-97		1997-98		1998-99 ^p	
	t	\$'000	t	\$'000	t	\$'000
Chinese Taipei						
Fish	855	11 941	573	8 467	467	5 850
Rock lobster	4 210	140 778	3 694	104 090	4 101	103 822
Prawns	266	5 091	234	4 709	185	3 809
Crabs	2 358	18 897	1 767	14 260	1 155	9 634
Abalone	605	33 517	705	43 630	749	40 184
Scallops	23	292	33	618	55	1 282
Other	142	4 507	81	2 095	146	4 529
Total	8 460	215 024	7 088	177 868	6 858	169 110
United States						
Fillets	674	7 571	1 593	19 668	2 241	30 424
Canned fish	16	162	0	0	0	0
Other fish	759	4 996	1 164	9 371	1 895	17 581
Rock lobster	727	40 312	986	59 857	1 278	70 275
Prawns	15	285	10	266	8	192
Crabs	35	891	65	1 700	34	1 058
Abalone	43	2 634	55	3 998	67	4 061
Scallops	0	3	16	234	15	290
Other	123	1 448	102	3 150	163	5 132
Total	2 391	58 303	3 990	98 243	5 701	129 012
China						
Fish	198	550	646	2 486	992	5 445
Rock lobster	829	31 627	1 921	75 892	1 614	56 340
Prawns	1 666	19 503	2 324	34 437	2 126	34 982
Crabs	24	580	124	3 057	124	2 108
Other	98	923	144	3 341	189	3 265
Total	2 815	53 183	5 158	119 213	5 046	102 140
APEC						
Tuna	5 663	66 885	7 517	104 201	8 418	120 057
Salmon	2 061	22 531	1 514	14 314	986	10 876
Other fish	9 485	83 132	13 102	106 444	15 127	135 484
Rock lobster	12 435	452 144	12 200	423 083	14 116	445 068
Prawns	10 174	174 994	11 288	217 655	9 804	190 068
Abalone	2 933	169 226	2 994	190 969	3 384	183 930
Scallops	1 123	33 449	1 126	32 730	1 450	30 858
Oysters	22	296	42	512	72	609
Crabs	3 058	27 412	2 689	26 904	1 878	19 737
Other crustaceans and molluscs	1 560	29 456	1 507	32 523	1 898	33 896
Total	48 418	1 046 688	53 346	1 133 574	56 533	1 157 297

^a Excludes live. ^p Preliminary.

Source: Australian Bureau of Statistics.

25 Australian seafood exports in 1996-97, by state ^{ab}

	NSW	Vic.	Qld	WA	SA	Tas.	NT	Aust. ^c
Value	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000
Fish ^d								
Live	1 374	512	12 737	16	0	19	0	14 657
Fresh, chilled or frozen								
Whole	11 351	4 221	25 425	2 321	34 490	21 151	371	99 894
Fillets	2 572	2 591	4 385	424	2 978	5 298	15	18 636
Other	7 053	3 012	10 114	3 268	21 223	2 093	882	49 409
Total fish	22 350	10 337	52 661	6 028	58 690	28 560	1 268	182 596
Crustaceans and molluscs								
Rock lobster	9 895	54 521	16 415	295 779	52 082	24 311	0	453 395
Prawns	2 234	485	104 829	39 394	36 982	18	5	184 790
Abalone	14 892	43 330	168	8 961	34 544	67 666	0	169 586
Scallops	453	3 222	19 062	13 377	7	194	0	36 570
Oysters	44	5	0	4	13	126	41	296
Crabs	191	1 288	23 651	547	201	765	684	27 521
Other	719	8 994	4 374	7 093	8 572	364	164	30 782
Total	28 428	111 844	168 500	365 155	132 402	93 444	895	902 940
Total value	50 778	122 181	221 161	371 183	191 092	122 004	2 163	1 085 535
Quantity	t	t	t	t	t	t	t	t
Fish ^d								
Live	na	na	na	na	na	na	na	na
Fresh, chilled or frozen								
Whole	1 838	751	4 320	666	1 974	1 972	104	11 777
Fillets	286	286	851	60	322	506	2	2 421
Other	766	465	515	416	2 102	77	38	4 788
Total fish	2 890	1 501	5 686	1 142	4 398	2 555	144	18 986
Crustaceans and molluscs								
Rock lobster	248	1 359	426	8 421	1 391	621	0	12 481
Prawns	118	52	6 180	2 400	2 142	1	0	10 974
Abalone	358	883	3	114	487	1 094	0	2 940
Scallops	13	211	662	415	1	5	0	1 325
Oysters	6	2	0	0	2	8	0	22
Crabs	15	55	2 846	43	14	22	51	3 091
Other	58	747	228	360	252	16	4	1 736
Total	815	3 308	10 346	11 752	4 289	1 767	55	32 568
Total quantity	3 705	4 809	16 032	12 894	8 687	4 322	199	51 554

^a State totals include Commonwealth fisheries exports. ^b Exports are identified according to source state or territory, not state or territory in which the product was landed. ^c Includes Australian Capital Territory. ^d Tuna transhipped at sea or captured under joint venture or bilateral agreements are not included. ^{na} Not available.

Source: Australian Bureau of Statistics.

26 Australian seafood exports in 1997-98, by state ^{ab}

	NSW	Vic.	Qld	WA	SA	Tas.	NT	Aust. ^c
Value	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000
Fish ^d								
Live	1 877	618	13 460	5	5	62	0	16 028
Fresh, chilled or frozen								
Whole	6 366	3 674	33 083	11 238	64 833	14 310	103	134 086
Fillets	3 693	2 615	3 748	2 449	2 825	16 812	0	32 325
Other	7 768	3 316	10 100	2 049	24 330	1 677	295	51 103
Total fish	19 704	10 223	60 391	15 741	91 992	32 861	398	233 542
Crustaceans and molluscs								
Rock lobster	9 932	39 783	18 573	266 907	60 442	28 653	0	424 458
Prawns	1 495	451	157 804	35 780	38 195	0	23	234 240
Abalone	11 817	56 366	926	7 921	37 848	75 808	0	191 716
Scallops	67	4 153	26 805	4 836	0	320	0	36 391
Oysters	94	89	0	28	61	150	55	515
Crabs	87	1 305	21 865	1 166	527	1 604	386	26 953
Other	1 481	12 185	5 562	4 780	7 300	1 841	264	33 557
Total	24 973	114 333	231 535	321 418	144 372	108 375	729	947 831
Total value	44 677	124 556	291 926	337 159	236 364	141 236	1 127	1 181 373
Quantity	t	t	t	t	t	t	t	t
Fish ^d								
Live	na	na	na	na	na	na	na	na
Fresh, chilled or frozen								
Whole	1 860	721	5 213	2 052	3 104	1 564	23	14 647
Fillets	440	286	837	404	128	1 786	0	3 914
Other	987	463	649	192	2 186	322	7	5 105
Total fish	3 287	1 470	6 698	2 648	5 418	3 671	30	23 666
Crustaceans and molluscs								
Rock lobster	234	1 037	373	8 417	1 532	665	0	12 261
Prawns	54	26	8 671	1 804	1 790	0	0	12 387
Abalone	280	990	36	92	464	1 119	0	3 003
Scallops	5	238	923	147	0	16	0	1 346
Oysters	8	6	0	2	6	17	0	42
Crabs	5	40	2 471	68	36	38	33	2 692
Other	523	616	207	340	225	26	4	1 958
Total	1 109	2 953	12 680	10 871	4 053	1 882	37	33 689
Total quantity	4 397	4 424	19 379	13 519	9 471	5 553	67	57 356

a State totals include Commonwealth fisheries exports. **b** Exports are identified according to source state or territory, not state or territory in which the product was landed. **c** Includes Australian Capital Territory. **d** Tuna transhipped at sea or captured under joint venture or bilateral agreements are not included. **p** Preliminary. **na** Not available.
 Source: Australian Bureau of Statistics.

27 Australian seafood exports in 1998-99, by state ^{ap}

	NSW	Vic.	Qld	WA	SA	Tas.	NT	Aust. ^c
Value	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000
Fish ^d								
Live	1 509	491	11 234	0	34	25	0	13 313
Fresh, chilled or frozen								
Whole	14 906	4 039	35 983	36 180	70 987	11 436	393	174 110
Fillets	4 442	2 827	5 928	8 770	2 498	24 267	0	49 099
Other	5 684	2 546	8 420	2 521	16 965	1 339	144	38 166
Total fish	26 541	9 903	61 566	47 471	90 485	37 067	538	274 689
Crustaceans and molluscs								
Rock lobster	6 184	21 879	12 151	304 296	78 527	28 318	0	451 415
Prawns	1 474	790	151 279	26 852	42 783	0	0	224 254
Abalone	11 402	54 727	230	9 925	39 578	68 752	0	184 621
Scallops	264	2 687	22 204	7 913	19	102	0	33 236
Oysters	13	15	32	44	109	394	0	613
Crabs	35	1 050	16 599	1 109	428	320	288	19 839
Other	297	14 535	9 093	8 558	616	1 335	404	35 087
Total	19 669	95 683	211 589	358 696	162 060	99 222	692	949 064
Total value	46 210	105 586	273 155	406 167	252 545	136 289	1 229	1 223 753
Quantity	t	t	t	t	t	t	t	t
Fish ^d								
Live	na	na	na	na	na	na	na	na
Fresh, chilled or frozen								
Whole	2 426	612	5 235	4 670	3 123	1 048	56	17 213
Fillets	621	305	899	1 205	191	2 056	0	5 343
Other	798	509	517	288	1 365	34	2	3 615
Total fish	3 845	1 426	6 652	6 163	4 679	3 138	58	26 170
Crustaceans and molluscs								
Rock lobster	116	631	263	10 381	2 239	758	0	14 392
Prawns	101	57	8 169	1 487	2 080	0	0	11 995
Abalone	322	1 073	4	124	600	1 273	0	3 396
Scallops	14	118	1 042	371	10	4	0	1 569
Oysters	1	3	2	6	12	49	0	73
Crabs	4	30	1 722	65	31	8	23	1 892
Other	61	787	282	840	16	34	17	2 050
Total	619	2 700	11 485	13 273	4 987	2 125	40	35 366
Total quantity	4 464	4 126	18 137	19 436	9 666	5 264	98	61 537

^a State totals include Commonwealth fisheries exports. ^b Exports are identified according to source state or territory, not state or territory in which the product was landed. ^c Includes Australian Capital Territory. ^d Tuna transhipped at sea or captured under joint venture or bilateral agreements are not included. **na** Not available.

Source: Australian Bureau of Statistics.

28 Australian imports of fisheries products

	1996-97		1997-98		1998-99 p	
	t	\$'000	t	\$'000	t	\$'000
Edible						
Fish						
Live fish	na	9	na	1	na	0
Fresh, chilled or frozen						
Fresh or chilled whole	3 231	16 450	3 705	19 558	4 086	21 767
Frozen whole	14 345	25 869	12 752	24 893	11 888	22 152
Fresh or chilled fillets	304	1 616	228	1 258	221	1 224
Frozen fillets	30 478	124 353	34 274	145 409	35 931	156 906
Other	6 651	16 643	5 314	13 573	5 307	13 665
Canned fish	26 976	117 592	26 600	142 401	29 328	164 910
Smoked, dried or salted fish	3 010	21 012	2 727	22 038	4 081	31 003
Other fish preparations	5 258	23 889	5 268	24 730	6 722	29 069
Total a	90 256	347 432	90 871	393 861	97 563	440 696
Crustaceans and molluscs						
Fresh, chilled or frozen b						
Prawns	8 743	114 170	9 109	140 222	10 107	151 439
Lobster	451	8 504	436	9 110	386	7 261
Scallops	1 196	15 471	1 445	20 370	1 157	16 215
Oysters	503	4 020	527	3 944	622	4 938
Mussels	2 371	6 407	2 338	6 873	2 476	7 997
Other	9 245	40 277	10 011	39 655	10 280	39 198
Canned	7 590	60 038	8 065	68 454	8 103	67 218
Extracts and pastes	162	783	306	1 754	192	1 041
Other	1 919	10 656	1 799	9 478	2 312	11 945
Total	31 148	254 154	33 176	294 961	34 833	302 510
Total edible a	121 404	601 586	124 048	688 822	132 396	743 205
Nonedible						
Pearls	na	43 013	na	71 328	na	67 341
Fish meal	27 312	17 501	21 398	18 395	18 749	16 859
Ornamental fish	na	1 843	na	1 973	na	2 107
Marine fats and oils	na	6 589	na	5 840	na	7 077
Other marine products	41 287	31 399	46 771	33 239	68 341	41 775
Total nonedible	na	100 345	na	130 775	na	135 160
Total fisheries products	na	701 931	na	819 597	na	878 366

a Excludes live tonnage, but includes live value. b Includes dried and salted. p Preliminary. na Not available.
Source: Australian Bureau of Statistics.

29 Australian imports of fish

	1996-97		1997-98		1998-99 p	
	t	\$'000	t	\$'000	t	\$'000
Salmon						
Smoked	187	3 293	196	2 969	272	4 292
Frozen	25	431	36	579	5	119
Fresh or chilled	0	0	0	9	0	0
Total a	212	3 725	233	3 556	278	4 411
Hake						
Frozen						
Fillets	14 184	48 878	12 479	44 182	12 587	48 931
Whole	405	1 772	24	89	3	12
Mince	2 061	2 660	1 786	2 246	1 101	1 601
Total	16 650	53 310	14 290	46 517	13 691	50 544
Tuna						
Whole						
Fresh or chilled	137	548	188	1 001	215	915
Frozen	8 320	11 215	6 609	11 133	6 458	9 202
Total a	8 457	11 763	6 797	12 134	6 673	10 116
Other fish						
Live	na	9	na	1	na	0
Fresh or chilled whole	3 094	15 902	3 517	18 548	3 870	20 853
Frozen whole	5 595	12 450	6 083	13 092	5 422	12 819
Fresh or chilled fillets	304	1 616	228	1 258	221	1 224
Frozen fillets	16 294	75 475	21 794	101 227	23 344	107 975
Other fresh, chilled or frozen products	4 591	13 982	3 528	11 327	4 205	12 065
Canned fish						
Salmon	8 092	40 419	8 092	54 849	7 856	59 579
Tuna	11 092	41 489	11 331	51 105	14 454	68 505
Herrings	1 011	4 315	901	4 133	887	4 352
Sardines	3 228	16 328	3 226	17 770	3 695	18 263
Anchovy	747	6 592	992	7 438	637	6 979
Other	2 809	8 490	2 063	7 137	1 799	7 231
Total	26 976	117 592	26 600	142 401	29 328	164 910
Smoked						
Herrings	83	326	73	365	48	277
Liver and roes	4	30	8	73	1	13
Other	1 890	9 431	1 531	9 858	2 198	14 408
Total	1 977	9 787	1 613	10 296	2 248	14 697
Dried	503	5 959	528	6 410	451	6 417
Salted	343	1 973	390	2 363	1 109	5 597
Other fish preparations						
Fish meal	16	301	7	136	24	174
Fishballs, fishcake, sausages	984	3 341	1 159	4 433	1 709	6 708
Caviar and pastes	48	2 291	68	2 106	71	1 173
Other	4 513	18 940	4 399	19 393	5 477	23 312
Total	5 258	23 889	5 268	24 730	6 722	29 069
Total other fish b	64 934	278 634	69 548	331 654	76 922	375 625
Total fish b	90 256	347 432	90 871	393 861	97 563	440 696

a Excludes canned. b Excludes live tonnage but includes live value. p Preliminary. na Not available.
Source: Australian Bureau of Statistics.

IMPORTS

30 Australian imports of crustaceans and molluscs

	1996-97		1997-98		1998-99 ^p	
	t	\$'000	t	\$'000	t	\$'000
Canned and preserved						
Crabs	242	1 805	272	2 153	255	2 017
Prawns	5 069	42 046	5 698	50 860	5 654	51 147
Smoked molluscs	752	7 343	737	7 636	826	6 607
Other molluscs	1 526	8 845	1 357	7 805	1 368	7 447
Extracts and pastes	162	783	306	1 754	192	1 041
Other preserved	1 919	10 656	1 799	9 478	2 312	11 945
Total	8 640	65 304	9 310	74 788	9 805	75 462
Other						
Prawns						
Fresh, chilled or frozen	8 287	107 662	8 679	132 394	9 632	143 517
Other	457	6 508	430	7 828	476	7 922
Lobster	451	8 504	436	9 110	386	7 261
Scallops	1 196	15 471	1 445	20 370	1 157	16 215
Oysters	503	4 020	527	3 944	622	4 938
Mussels	2 371	6 407	2 338	6 873	2 476	7 997
Crabs	119	721	147	1 172	95	584
Calamari, squid and octopus	7 968	28 842	8 914	28 277	9 054	29 800
Other	1 158	10 714	951	10 206	1 131	8 815
Total	22 509	188 850	23 866	220 174	25 028	227 048
Total crustaceans and molluscs	31 148	254 154	33 176	294 961	34 833	302 510

^p Preliminary. ^{na} Not available.

Source: Australian Bureau of Statistics.

31 Australian imports of edible fish, by source

	1996-97		1997-98		1998-99 p	
	t	\$'000	t	\$'000	t	\$'000
Fish (excluding canned)						
Tuna						
Chinese Taipei	0	0	477	406	0	0
Indonesia	2	11	1 020	1 943	15	61
Japan	0	0	2 823	4 730	4 652	6 460
Philippines	0	0	785	1 247	2	2
Singapore	321	568	283	667	537	980
Solomon Islands	0	0	830	1 361	0	0
Thailand	94	418	217	643	130	202
United States	5 987	7 926	0	0	0	0
Other	2 053	2 841	361	1 137	1 338	2 412
Total	8 457	11 763	6 797	12 134	6 673	10 116
Salmon						
Canada	14	226	12	176	21	294
Denmark	136	2 115	163	2 411	136	2 154
Other	62	1 383	57	969	121	1 963
Total	212	3 725	233	3 556	278	4 411
Hake						
Argentina	0	0	0	1	56	173
Cayman Islands	3 377	12 827	0	0	0	0
Chile	5 351	10 770	5 592	12 007	4 824	13 642
Chinese Taipei	246	837	132	634	86	357
Namibia	1 714	6 238	1 582	6 001	1 612	6 379
New Zealand	2 134	8 326	1 766	6 115	1 410	5 912
South Africa	1 738	6 378	4 777	19 443	5 367	22 185
Thailand	129	826	186	1 252	91	606
Uruguay	73	177	75	290	18	79
Other	1 888	6 929	179	773	227	1 212
Total	16 650	53 310	14 290	46 517	13 691	50 544
Canned fish						
Canada	3 278	18 901	3 123	20 268	3 859	26 392
Chile	788	2 383	747	3 248	942	5 614
China	149	506	123	484	118	425
Denmark	245	1 291	349	1 285	80	528
Germany	546	2 362	497	2 426	534	3 049
Greece	191	1 671	160	1 379	191	1 732
Indonesia	118	347	49	203	354	1 794
Italy	477	4 535	420	4 080	484	5 102
Japan	226	255	44	215	94	456
Malaysia	583	2 418	480	2 251	377	1 916
Norway	444	5 520	499	5 777	344	3 989
Philippines	110	348	115	301	90	268
Portugal	195	727	200	754	166	679
South Korea	123	444	127	467	163	577
Spain	41	799	102	1 584	78	1 617
Thailand	12 589	45 310	12 660	55 441	15 328	70 210
United Kingdom	385	2 930	469	4 051	409	3 843
United States	5 901	24 081	5 845	35 312	5 144	33 445
Other	588	2 764	593	2 875	573	3 273
Total	26 976	117 592	26 600	142 401	29 328	164 910

p Preliminary.

Source: Australian Bureau of Statistics.

IMPORTS

32 Australian imports of fresh, chilled or frozen fish, by source

	1996-97		1997-98		1998-99 p	
	t	\$'000	t	\$'000	t	\$'000
Fresh or chilled fish						
Whole						
Indonesia	2	11	46	344	58	218
New Zealand	2 900	15 239	3 218	17 336	3 560	19 715
Papua New Guinea	59	223	137	667	197	779
Solomon Islands	64	148	68	251	20	57
Vietnam	127	430	163	563	200	668
Other	79	398	72	396	50	331
Total	3 231	16 450	3 705	19 558	4 086	21 767
Fillets						
Indonesia	11	68	1	11	7	32
New Zealand	216	1 216	219	1 180	174	983
Other	78	332	8	67	40	208
Total	304	1 616	228	1 258	221	1 224
Frozen fish						
Whole						
Tuna						
Chinese Taipei	0	0	77	406	0	0
Indonesia	0	0	996	1 763	1	2
Japan	0	0	2 823	4 730	4 652	6 460
New Zealand	0	0	195	302	0	0
Philippines	0	0	785	1 247	2	2
Singapore	320	552	283	667	536	977
Solomon Islands	0	0	830	1 361	0	0
Thailand	94	418	217	643	130	202
United States	5 985	7 918	0	0	0	0
Other	1 922	2 328	403	14	1 138	1 558
Total	8 320	11 215	6 609	11 133	6 458	9 202
Salmon						
Denmark	19	277	31	530	5	119
New Zealand	6	155	0	0	0	0
Other	0	0	5	49	0	0
Total	25	431	36	579	5	119
Other						
China	189	645	265	891	152	796
Japan	53	193	108	460	13	154
Netherlands	467	268	1 520	773	518	310
New Zealand	3 268	6 587	2 638	5 960	2 887	6 478
Singapore	53	230	179	821	37	142
Thailand	91	353	123	445	138	327
United States	78	55	61	54	483	472
Other	1 637	5 723	967	3 543	1 194	4 149
Total	5 837	14 055	5 860	12 947	5 422	12 829

Continued

32 Australian imports of fresh, chilled or frozen fish, by source *(continued)*

	1996-97		1997-98		1998-99 ^p	
	t	\$'000	t	\$'000	t	\$'000
Frozen fish <i>(continued)</i>						
Fillets						
Hake						
Argentina	0	0	0	1	56	173
Cayman Islands	3 189	11 975	0	0	0	0
Chile	3 567	8 504	3 806	9 763	3 960	12 338
Namibia	1 534	5 453	1 563	5 935	1 612	6 379
New Zealand	1 936	8 100	1 765	6 111	1 387	5 872
South Africa	1 685	6 154	4 775	19 432	5 158	21 930
Thailand	129	826	186	1 252	91	606
Uruguay	53	153	75	290	18	79
Other	2 091	7 711	309	1 398	305	1 555
Total	14 184	48 878	12 479	44 182	12 587	48 931
Other						
Argentina	154	506	100	357	140	543
Chile	102	234	207	700	268	765
China	163	474	300	1 577	417	1 427
Chinese Taipei	658	2 421	584	2 516	552	2 145
Indonesia	587	3 531	720	4 961	478	2 980
Kenya	976	4 088	2 120	9 104	2 929	13 600
Netherlands	160	907	121	676	138	848
New Zealand	7 947	35 800	11 858	49 795	12 611	55 631
Singapore	118	687	179	1 099	167	974
South Africa	565	2 275	400	1 724	690	3 147
Tanzania	915	3 967	766	3 359	617	2 830
Thailand	469	2 651	905	5 494	1 068	5 777
Uganda	786	3 362	1 105	4 837	1 195	4 998
United Kingdom	544	2 814	376	2 266	280	1 892
Vietnam	915	5 551	1 005	6 477	763	5 046
Other	1 238	6 209	1 050	6 285	1 032	5 371
Total	16 294	75 475	21 794	101 227	23 344	107 975

^p Preliminary.

Source: Australian Bureau of Statistics.

33 Australian imports of dried, salted or smoked fish, by source

	1996-97		1997-98		1998-99 p	
	t	\$'000	t	\$'000	t	\$'000
Dried or salted						
China	74	742	74	787	53	680
Greece	49	297	50	289	41	256
Italy	15	93	57	316	21	222
Iceland	80	560	57	444	66	549
New Zealand	21	99	1	59	1	49
Norway	252	1 704	194	1 544	149	1 736
Spain	21	129	12	130	19	105
United Kingdom	0	0	18	87	0	2
Vietnam	81	581	77	558	92	950
Other	253	3 728	378	4 560	1 117	7 464
Total	846	7 932	918	8 773	1 561	12 014
Smoked						
Argentina	442	1 204	16	53	33	118
Canada	14	226	12	176	23	321
Denmark	312	4 898	457	6 658	476	8 343
Netherlands	28	126	8	78	23	555
New Zealand	150	1 343	100	985	102	1 047
South Africa	1 031	4 054	1 050	4 024	1 673	6 563
United Kingdom	107	494	81	464	42	285
Other	79	735	85	827	148	1 757
Total	2 164	13 080	1 809	13 265	2 520	18 989
Total dried, salted or smoked fish	3 010	21 012	2 727	22 038	4 081	31 003

p Preliminary.

Source: Australian Bureau of Statistics.

34 Australian imports of crustaceans and molluscs, by source

	1996-97		1997-98		1998-99 p	
	t	\$'000	t	\$'000	t	\$'000
Crustaceans (fresh, chilled or frozen)						
Lobster						
New Zealand	30	769	9	154	15	301
Papua New Guinea	41	1 035	60	2 135	48	1 885
Thailand	31	607	62	949	83	1 118
United States	48	932	113	2 281	53	1 154
Vietnam	75	1 147	50	706	75	921
Other	226	4 014	142	2 885	112	1 883
Total	451	8 504	436	9 110	386	7 261
Prawns						
Fresh, chilled or frozen						
China	70	677	41	469	27	181
Chinese Taipei	166	2 575	114	2 109	24	482
India	139	1 265	541	7 333	956	13 165
Indonesia	242	2 764	344	5 122	402	6 215
Malaysia	727	7 445	680	6 800	629	6 117
Philippines	7	22	3	57	6	125
Singapore	370	4 503	390	6 129	175	2 133
Thailand	5 103	72 475	5 259	85 974	5 162	81 700
Vietnam	660	7 528	553	8 089	1 059	17 921
Other	802	8 408	754	10 313	1 190	15 478
Total	8 287	107 662	8 679	132 394	9 632	143 517
Other						
Indonesia	2	20	5	35	4	45
Malaysia	17	159	10	115	31	333
Singapore	55	607	24	325	74	746
Thailand	295	4 639	311	6 098	265	5 364
Other	88	1 083	81	1 255	102	1 434
Total	457	6 508	430	7 828	476	7 922
Crabs						
Canada	0	0	1	14	0	1
Vietnam	72	457	96	825	76	454
Other	47	264	49	333	19	129
Total	119	721	147	1 172	95	584

Continued

34 Australian imports of crustaceans and molluscs, by source *(continued)*

	1996-97		1997-98		1998-99 ^p	
	t	\$'000	t	\$'000	t	\$'000
<i>Molluscs (fresh, chilled or frozen)</i>						
Scallops						
Japan	509	7 398	804	12 020	481	7 043
New Zealand	1	14	15	156	23	343
Thailand	404	4 945	419	5 361	329	4 271
Vietnam	26	168	67	527	25	167
Other	257	2 945	141	2 306	298	4 390
Total	1 196	15 471	1 445	20 370	1 157	16 215
Mussels						
New Zealand	2 348	6 197	2 333	6 821	2 473	7 975
Other	23	210	5	52	3	22
Total	2 371	6 407	2 338	6 873	2 476	7 997
Squid						
China	223	1 181	596	2 577	266	1 359
Chinese Taipei	2 271	9 639	3 166	9 464	3 931	11 980
Hong Kong	135	596	68	311	19	180
India	196	496	272	727	100	240
Japan	153	295	53	159	22	107
Malaysia	255	1 012	298	1 150	174	611
New Zealand	2 027	8 374	2 054	6 670	2 173	7 687
Singapore	46	258	19	95	18	141
Thailand	1 592	4 997	1 634	5 170	1 478	4 780
United States	689	794	297	489	172	347
Vietnam	274	885	325	1 064	547	1 769
Other	109	314	132	400	155	599
Total	7 968	28 842	8 914	28 277	9 054	29 800
<i>Crustaceans and molluscs (canned)</i>						
China	223	1 646	353	2 906	303	2 360
Denmark	33	145	15	65	46	26
Malaysia	1	8	51	197	40	102
New Zealand	211	733	233	988	242	1 107
Singapore	115	869	125	947	117	839
South Korea	518	5 767	402	4 817	597	4 709
Thailand	631	3 962	541	3 692	479	3 368
Other	47	454	63	646	97	732
Total	1 780	13 584	1 783	14 258	1 921	13 244

^p Preliminary.

Source: Australian Bureau of Statistics.

35 Australian imports of fisheries products, by source

	1996-97		1997-98		1998-99 p	
	t	\$'000	t	\$'000	t	\$'000
Edible (excluding live)						
Argentina	598	1 716	117	411	230	839
Canada	3 320	19 429	3 249	21 070	3 924	27 342
Cayman Islands	3 428	13 007	0	0	0	0
Chile	6 308	13 962	6 596	16 132	6 042	20 102
China	1 571	9 306	2 188	12 513	2 073	12 775
Chinese Taipei	3 864	17 636	5 248	17 650	5 228	17 695
Denmark	682	7 573	934	9 206	644	9 200
Germany	603	3 636	553	3 703	625	4 380
Hong Kong	237	3 155	175	2 972	154	2 641
India	782	2 902	1 350	10 536	1 667	15 080
Indonesia	1 294	8 824	2 620	15 196	2 020	15 548
Italy	493	4 645	487	4 489	507	5 343
Japan	1 480	12 488	4 487	22 728	5 775	18 685
Malaysia	3 540	25 229	3 780	27 403	3 412	23 626
Norway	781	7 998	764	7 805	622	7 071
New Zealand	27 497	111 712	29 838	121 082	31 464	133 576
Philippines	250	1 107	1 024	2 275	250	1 318
Singapore	1 663	11 717	1 795	14 893	1 623	9 433
South Africa	3 469	13 250	6 386	26 064	8 035	33 197
South Korea	883	7 467	776	6 565	1 503	7 627
Spain	104	2 570	116	1 788	185	2 004
Thailand	28 035	181 292	28 998	216 169	33 883	234 736
United Kingdom	1 140	6 544	983	7 081	783	6 208
United States	13 376	36 527	6 680	40 532	6 365	37 671
Vietnam	2 975	20 163	2 887	21 671	3 672	31 567
Other	13 029	57 720	12 015	58 887	11 710	65 542
Total	121 401	601 577	124 044	688 821	132 396	743 205
Nonedible						
Chile	na	2 584	na	6 960	na	642
Chinese Taipei	na	697	na	2 004	na	4 115
French Polynesia	na	4 841	na	5 246	na	7 507
Hong Kong	na	2 853	na	2 884	na	8 613
Indonesia	na	897	na	3 042	na	3 258
Japan	na	10 716	na	9 780	na	6 296
Malaysia	na	1 330	na	966	na	1 546
Netherlands	na	2 246	na	2 480	na	3 825
New Zealand	na	7 008	na	7 194	na	8 929
Peru	na	14 375	na	6 595	na	10 090
Philippines	na	489	na	526	na	483
Samoa	na	4 365	na	5 228	na	3 987
Singapore	na	1 177	na	1 389	na	1 613
Thailand	na	3 735	na	1 367	na	2 263
United States	na	11 764	na	18 802	na	22 952
Other	na	31 268	na	56 312	na	49 041
Total	na	100 345	na	130 775	na	135 160
Total imports	na	701 922	na	819 596	na	878 366

p Preliminary. na Not available.

Source: Australian Bureau of Statistics.

36 Australian seafood imports from selected countries, by product ^a

	1996-97		1997-98		1998-99 p	
	t	\$'000	t	\$'000	t	\$'000
Canada						
Canned fish	3 278	18 901	3 123	20 268	3 859	26 392
Smoked, dried or salted fish	17	314	17	323	57	791
Other fish	0	0	5	14	0	0
Scallops	0	0	1	19	0	0
Other crustaceans and molluscs	2	152	1	16	1	8
Other	23	58	102	430	7	151
Total	3 320	19 429	3 249	21 070	3 924	27 342
Japan						
Frozen whole fish	53	193	2 931	5 190	4 664	6 614
Canned fish	226	255	44	215	94	456
Smoked, dried or salted fish	19	469	37	501	23	515
Other fish	350	2 210	348	2 424	267	1 952
Prawns	0	15	5	27	10	29
Scallops	509	7 398	804	12 020	481	7 043
Oysters	17	183	12	150	17	210
Mussels	10	120	0	3	0	0
Canned crustaceans and molluscs	9	101	1	32	8	33
Other crustaceans and molluscs	198	621	163	1 002	75	607
Other	63	819	131	1 132	120	1 101
Total	1 480	12 488	4 487	22 728	5 775	18 685
New Zealand						
Fresh and chilled whole fish	2 900	15 239	3 218	17 336	3 560	19 715
Frozen whole fish	3 438	6 909	3 079	6 496	2 890	6 481
Fresh and chilled fillets	216	1 216	219	1 180	174	983
Frozen fillets	9 882	43 900	13 622	55 906	13 998	61 503
Canned fish	6	25	12	109	1	12
Smoked, dried or salted fish	170	1 442	101	1 044	103	1 096
Other fish	1 715	5 441	1 573	5 322	2 361	8 100
Lobster	30	769	9	154	15	301
Scallops	1	14	15	156	23	343
Squid	2 027	8 374	2 054	6 670	2 173	7 687
Oysters	470	3 614	509	3 648	597	4 540
Mussels	2 348	6 197	2 333	6 821	2 473	7 975
Canned crustaceans and molluscs	211	733	233	988	242	1 107
Other crustaceans and molluscs	2 107	11 783	2 155	11 663	2 282	11 271
Extracts and pastes	91	366	198	1 108	86	401
Other	3 911	14 063	2 561	9 151	2 658	9 750
Total	27 497	111 712	29 838	121 082	31 464	133 576

Continued

36 Australian seafood imports from selected countries, by product ^a (continued)

	1996-97		1997-98		1998-99 ^p	
	t	\$'000	t	\$'000	t	\$'000
Thailand						
Frozen whole fish	185	771	340	1 088	268	528
Fillets	129	826	186	1 252	91	606
Canned fish	12 589	45 310	12 660	55 441	15 328	70 210
Smoked, dried or salted fish	41	349	60	371	873	3 712
Other fish	2 515	10 375	2 483	10 322	2 695	10 736
Prawns	5 398	77 114	5 570	92 072	5 427	87 063
Lobster	31	607	62	949	83	1 118
Scallops	404	4 945	419	5 361	329	4 271
Mussels	6	41	2	19	1	2
Canned crustaceans and molluscs	631	3 962	541	3 692	479	3 368
Other crustaceans and molluscs	2 083	7 267	2 104	7 283	2 170	7 645
Extracts and pastes	35	244	64	403	49	322
Other	3 988	29 481	4 507	37 916	6 090	45 155
Total	28 035	181 292	28 998	216 169	33 883	234 736
United States						
Frozen whole fish	6 063	7 972	61	55	483	472
Frozen fillets	25	95	13	57	75	450
Canned fish	5 901	24 081	5 845	35 312	5 144	33 445
Smoked, dried or salted fish	0	2	9	156	2	28
Other fish	63	308	71	425	71	405
Scallops	37	476	9	159	0	0
Canned crustaceans and molluscs	1	4	25	201	0	0
Other crustaceans and molluscs	746	1 321	306	915	173	359
Other	539	2 266	342	3 251	417	2 513
Total	13 376	36 527	6 680	40 532	6 365	37 671
APEC region						
Fresh and chilled whole fish	2 993	15 700	3 439	18 544	3 831	20 795
Frozen whole fish	10 553	18 370	9 816	20 037	10 064	18 818
Fresh and chilled fillets	244	1 337	221	1 195	185	1 049
Frozen Fillets	12 377	56 024	16 726	74 059	17 073	77 042
Canned fish	23 095	92 725	22 592	115 151	25 564	135 719
Smoked, dried or salted fish	475	5 773	511	6 075	1 270	9 058
Other fish	5 015	20 819	4 952	21 575	6 132	25 856
Prawns	15	30	4	12	3	12
Lobster	184	3 995	321	7 084	245	5 261
Scallops	1 107	14 570	1 336	19 134	1 116	15 813
Oysters	500	4 010	527	3 942	622	4 938
Mussels	2 366	6 389	2 337	6 864	2 475	7 992
Canned crustaceans and molluscs	1 728	13 299	1 761	14 156	1 836	13 069
Other crustaceans and molluscs	8 374	35 616	9 163	36 280	9 390	35 739
Extracts and pastes	153	721	300	1 705	188	1 008
Other	18 306	165 691	17 563	188 137	18 410	186 762
Total	87 330	449 294	91 268	527 875	98 215	549 871

^a Excludes live imports. ^p Preliminary.
Source: Australian Bureau of Statistics.