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Southeast Asian Fisheries Development Center (SEAFDEC)

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Foreword

It is well recognized that fishery statistics play very significant role in the formulation of national fisheries policies. Towards this end, the ASEAN and SEAFDEC Member Countries identified the need to “strengthen national fishery statistical systems and maximize their use for fisheries planning and management and develop standard definitions and classifications to facilitate regional fishery statistics and information exchanges” in the ASEAN-SEAFDEC Resolution and Plan of Action on Sustainable Fisheries for Food Security for the ASEAN Region adopted in 2001. Guided by such specific directive, SEAFDEC continued to compile fishery statistics and information from the data provided by the Member Countries in order to provide the basis for understanding the status and conditions of the fishery resources in the Southeast Asian region.

Moreover, SEAFDEC also enhanced its collaboration with various organizations, notably with the Food and Agriculture Organization (FAO) of the United Nations in order to harmonize the reporting system for fishery statistics by the ASEAN countries to SEAFDEC and to FAO. Harmonization of recording and reporting of fishery statistics was facilitated through the recently published Regional Framework for Fishery Statistics of Southeast Asia published by SEAFDEC which contains among others, the minimum requirements for the collection and compilation of fishery statistics by the Member Countries for subsequent submission to SEAFDEC and FAO. Specifically, the Framework also includes harmonized standard definitions and classifications of relevant statistical information consistent with the regional requirements as well as with those of international standards. Following such development, SEAFDEC shall henceforth call this publication which was originally known as the “Fishery Statistical Bulletin for the South China Sea Area” as the “Fishery Statistical Bulletin of Southeast Asia”.

It is noteworthy that with the Framework as reference, improvements have been made in the collection and compilation of fishery statistics by the Member Countries. The inputs from the Member Countries had therefore led to the improvement of the contents of this Bulletin. However, more efforts are still needed for the collection and compilation of fishery statistics from inland fisheries. The fact that catches from inland waters are not reported by rural communities in the national statistics of many countries, is a concern that henceforth needs much attention. Although, some countries have started to report their respective production from inland fisheries which had been reflected in the current issue of the Bulletin, still some countries have not yet developed their own systems.

SEAFDEC together with the ASEAN countries therefore wished to address the various concerns in the compilation of the complete fishery statistics of the region by developing the proposed inputs for the 2011 Resolution and Plan of Action viz: “strengthen knowledge/science-based management and development of fisheries through mobilization of existing available statistics and information, regional data and information sharing mechanism and capacity building”. Under this proposed framework, SEAFDEC and the ASEAN countries are envisaged to exert more efforts towards the further refinement of the Regional Framework to include extensive and enhanced ways of reporting relevant statistics particularly in the inland capture fisheries and aquaculture sub-sectors.

SEAFDEC is hopeful that this compilation could be further improved in the near future with the continued full support and cooperation of the Member Countries. As can be seen from this current issue of the Bulletin, there are already improvements compared with the previous issues especially in the inland capture fisheries sub-sector. As our commitment, SEAFDEC would continue to publish the Bulletin for the benefit of the countries and consider it as our way of assisting the ASEAN countries in their efforts towards improving fisheries management for food security in the region.



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SEAFDEC Secretary-General and
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I. EXPLANATORY NOTES

EXPLANATORY NOTES

1. GENERAL NOTES

1.1 Data Collection

The data compiled in this Bulletin are in principle based upon the returns received from countries to a questionnaire prepared by the Secretariat, Southeast Asian Fisheries Development Center (SEAFDEC).

1.2 Time Reference

Data in this Bulletin refer, in general, to the year 2005. However, in cases where a country was not able to supply the statistics of that year, the latest data available have been included in the tables.

1.3 Standard Symbols and Abbreviations

The following standard symbols and abbreviations are used throughout the tables:

...	=	Not available
-	=	Magnitude zero or not applicable
0	=	Magnitude insignificant, i.e., less than half of the measurement
MT	=	Metric ton
US\$ 1,000	=	1,000 dollars in U.S. currency
No.	=	Number
Q	=	Quantity
V	=	Value
()	=	A figure (in parenthesis) given in a different unit of measurement as indicated in a footnote.

2. NOTES ON STATISTICS

2.1 General Geographic, Demographic and Economic Statistics

2.1.1 General notes

Most of the data in this section (land area, length of coastline, inland water area, population, manpower, gross domestic product, wage and price, external trade, foreign exchange rate) are collected by each country from the statistics published by its central statistical office. Statistical terms used in this section are the same as those used in the statistics of the United Nations.

2.1.2 Explanatory notes on the terms used

Water body:

See definition given in Paragraph 2.8.2 (p.x).

Population:

The data refers to mid-year population. The figure should be shown in million persons, with two digits after the decimal point.

External trade:

The coverage of the fishery commodities under this item should be the same as for the statistics on export and import of fishery commodities. Please refer to paragraph 2.13.2 (p.xv).

Foreign exchange rate:

Prevailing rate which has been used for statistical purposes for conversion of national currency into US\$.

2. NOTE ON STATISTICS

2.1 Statistical Coverage

Fishery Statistics Bulletin of Southeast Asia covers the fishery statistics on Production; Fishing Units; Fishing boats; Fishers; and Fish Price. Production (landings) covers fishes, crustaceans, mollusks, and other aquatic animals and plants taken for all purposes (capture fisheries and aquaculture animals and plants taken units and aquaculture activities operating in marine, brackishwater and freshwater areas, in appropriate geographical categories.

2.2 Geographical Coverage

The data also cover all production by commercial and small-scale fisheries and aquaculture activities in freshwater, brackishwater and marine water designated by FAO Fishing Area 57 (Indian Ocean, Eastern), 71 (Pacific, Western Central), 61 (Pacific, Northwest), and 04 (Asia, Inland Water). Countries and sub-areas to be used in marine fishery statistics are established in consistent with the FAO Fishing Areas see detail map and description in Appendix 1.

2.3 Fishery Structure and Sub-sectors

In line with the structure of fisheries in the Southeast Asian region, the statistics are divided into two main sectors, such as Capture Fishery and Aquaculture. Capture means an economic activity to catch or collect aquatic organisms which grow naturally in public waters and which do not belong to the property of any person whereas culture means an economic activity to rear the young aquatic organisms such as fry, fingerlings, oyster seeds, etc. to commercial size. Unlike capture, aquatic organisms under culture operations belong to the property of a specific person or a group of specific persons who manage them until they grow to commercial size.

2.3.1 Statistic on Capture Fisheries

With concerns in the different environment of fishery resources and other components of capture fishery, the statistics compiled under this section are classified into two sectors, namely Marine Capture Fishery and Inland Capture Fishery. Statistics on production or catch, fishing gear, fishing boats, fishing units, fishers, etc. will be collected and compiled under each sector.

2.3.1.1 Marine Capture Fisheries

a. Coverage and definition

Marine capture fishery is divided into two sub-sectors: small-scale fishery (including subsistence fishery / artisanal/traditional) and commercial fishery. As it is not possible to establish common definition of these two categories in the region, the national distinction between small-scale and commercial fisheries of countries in the region is given in Appendix 2. The data for marine capture fishery exclude sport fishing, recreation, and research.

b. Marine Capture Production

The statistics for marine production represent the statistics on catches and landings of marine and brackishwater species of aquatic organisms, killed, caught, trapped or collected for all commercial, industrial, and subsistence purposes. The statistics in terms of quantity will be used to assess the stock of the marine organisms, to disclose the size of a fishing industry as a whole, and to be used as index showing the sta-

tus and trend of a fishing industry by annual series of fisheries industry in monetary terms to adequately compare the economic size of the fisheries industry with those of other industries.

b.1 Unit of Measurement

1) Production in quantity

Production in quantity represents the weight equivalent of the landing. Production in quantity should be reported in metric tons, except those expressed in numbers or in kilogram. If production is reported in kilograms, this should be converted into metric tons estimated by rounding off to the nearest hundredths. The production of ornamental fish and reptiles will be reported in numbers.

There are many instances where the catches on board fishing vessel are gutted, filleted, salted, dried etc. or reduced to meals, oil etc. The data on the landing of such species and products require conversion by accurate yield rates (conversion factors) to establish the live weight equivalents (nominal catches) at the time of their capture.

2) Production in value

Production in value represents the products' value equivalent of the landing (average monthly weighted value, where available). It is generally estimated by multiplying the quantity of production by the producers' price. In reporting production in value, the amount reported in the national currencies should be converted to US\$.

b.2 Statistic on Marine Capture Production

1) Production by species

Marine capture production covers production from all kinds of commercial and small-scale fisheries broken down by species (at the species, genus, family or higher taxonomic levels into statistical categories called species items).

The standard statistical list of marine species is developed in consistent with the 'International Standard Statistical Classification of Aquatic Animals and Plants' (ISSCAAP) with two-digit group code. Statistics on marine species items or group items or group should be reported by referring to the FAO English name, Taxonomic code in 10 digits, and inter-agency 3-alpha code, and national/local name. Please refer to Appendix 3 for the ISSCAAP and the regional list of aquatic animal and plants.

2) Production by type of fishing gear

The production classifies under commercial and small-scale fisheries, where possible should be further classified into detailed typed of fishing gear for each category.

To complete the statistics on production by type of fishing gear, the Regional Classification of Fishing Gear developed in consistent with the CWP-International Standard Statistical Classification of Fishing Gear (ISS-CFG) is shown as Appendix 4.

c. Fishing Boat

Fishing boats can be also be called in various terms as fishing vessels, fishing fleets, or fishing crafts. Fishing boat means any vessel, boat, ship of other craft and is equipped and used for fishing or in support of such activity. Statistics on fishing boats will be used to clarify the amount of capital invested in a fishery corresponding to the size of fishing boat. Such statistics can also be used as inputs for the economic analysis and measure of the material input productivity of fishing industry, and as a rough indication of the fishing effort considering the size of the fishing boat.

c.1 Coverage of Fishing Boat

The statistics should cover annual data of fishing boats in marine areas. All boats used in fishing, whether registered with the government or not, should be included.

c.2 Classification of Fishing Boat

Based on the characteristics of marine capture fisheries in the Southeast Asian region, one fishing boat can operate various types of fishing gear as well as catching many target species.

The regional classification of fishing boats is then developed separately from the Coordinating Working Party on Fishery Statistics (CWP) in order to present the specificity of the fisheries situation of the region. In compiling the statistics on fishing boats and fishing units for marine capture fisheries in the region, the Regional Classification of Fishing Boats by Type of Boats has been developed as shown in Appendix 5.

Tonnage is expressed uniformly in gross ton. When a unit other than gross tons is used to measure the size of the boat, this should be converted into gross tons. Although the method of measurement of the tonnage of fishing boats varies from country to country, statistics should be based on national measurement standards.

d. Fishing Unit

Fishing unit means the smallest unit in as fishing operation, which comprises generally a fishing boat, fishers and fishing gears. In cases where two fishing boats are jointly operated in fishing such as the pair trawler or two-boat purse seine, these two fishing boats are regarded as one fishing unit.

A fishing boat may be counted as two or more fishing units on the same year if it uses different kinds of fishing gears in separate seasons. For instance, in cases where a fishing boat operates trawl fishing half a year and gill net fishing during the other half of the year, the fishing boat is regarded as two fishing units. Fishing units are generally counted by type of fishing gear. The statistics on fishing unit is mainly used to consider the limitation of the number of fishing units for fisheries management.

d.1 Coverage of Fishing Units

The statistics should cover the annual data of fishing units operated in marine and coastal areas. Fishing units operating without boats or non-powered boats are excluded.

d.2 Classification of Fishing Units

Fishing units are classified by type and size of fishing boats as well as major types of fishing gear. In cases where a fishing unit operates more than two fishing boats such as the pair trawl and two-boat purse seine, the size is represented by the tonnage of the major single fishing boat from among the boats employed. The type of fishing gear is based on the national classifications. In order to facilitate reporting of the statistics on fishing units, please refer to Appendix 4 for the details.

e. Fishers

e.1 Coverage of Fishers

The statistics on fishers are generally obtained from the Marine Fishery Census of the Member Countries. The statistics should cover all commercial and subsistence fishers operating in marine and brackishwater areas for catching and landing of all aquatic animals similar types of boats.

e.2 Classification of Fishers

Statistics on the number of fishers by sub-sectors of fisheries and working status should be based on the following two main categories: full-time fishers and part-time fishers. For the detailed classification of the fishers, please refer to Appendix 6.

1. Full-time fishers/farmers: fishers/farmers who spend all of their working time in fishing/farming
2. Part-time fishers/farmers: fishers/farmers who spend part of their working time in fishing/farming

2.3.1.2 Inland Capture Fishery

a. Coverage and definition

Inland Capture Fishery refers to any activity involving the catching or collection of aquatic organisms, which grow naturally in inland water bodies for economic, livelihoods and food security purposes. The statistics cover the annual data of commercial and subsistence operations for catching and collecting, and landing production of all aquatic animals in freshwater areas.

The statistics on inland capture fishery cover all productions and the people involves in fishing designated by FAO Fishing Area 04

b. Inland Capture Production

The statistics for inland capture production present the catch of freshwater species of aquatic organisms that are killed, caught, trapped or collected for all commercial and subsistence purposes.

b.1 Unit of Measurement

1) *Production in quantity*

Production in quantity represents the weight equivalent of aquatic organisms caught and collected in inland water bodies. Production in quantity should be reported in metric tons, except those expressed in numbers. If production is reported in kilograms, this should be converted into metric tons estimated by rounding off to the nearest hundredths.

2) *Production in value*

Production in value represents an estimation of the value equivalent at the first point of sale, indicating seasonal variations in the average total value where available, with estimations including aquatic products caught and collected for subsistence and household purposes. In reporting production in value, the amount reported in national currencies should be converted to US\$.

b.2 Statistics on Inland Capture Production

1) Production by species

Inland capture production covers all aquatic animals and plants in inland waters broken down by species (at the species, genus, family or higher taxonomic levels into statistical categories called species items). The standard statistical list of freshwater species is developed in consistent with the 'International Standard Statistical Classification of Aquatic Animals and Plants' (ISSCAAP). The statistics of freshwater species items or groups should be reported using in the same format as that for marine species. The regional standard statistical list of aquatic species is given Appendix 3.

2) Production by type of water bodies

Statistics on production from inland capture fishery should be presented in accordance with the following four types of water bodies:

- (a) Lakes: Non-flowing, naturally enclosed bodies of water, including regulated natural lakes but excluding reservoirs
- (b) Rivers: running water body such as rivers, drainage canals, irrigation canals which also cover creeks, streams and other linear water bodies
- (c) Flood plains/rice fields: seasonally flooded areas including paddy fields
- (d) Reservoirs: artificial impoundments of water used for irrigation, flood control, municipal water supplies, recreation, hydroelectric power generation, and so forth
- (e) Others: Any water bodies other than the above; Peri-urban wetland is included in this category

3) Production by type of fisheries

Inland fisheries is quite diverse in its involvement of different groups of people, the scale of operation and the types of gear/boat used as well as in its seasonal variation. As available records would allow, the statistics under the Framework should try reflect such variations.

- (a) Categories of scale
 - Commercial
 - Family/small scale
 - Household occasional fishing
- (b) Categories of application/seasonality/licensing
 - Fishing lots/Leasable fisheries and other types of licensed fisheries and/or areas for (commercial) fishing
 - Dai fisheries (term used to exemplify the national/regional importance of specific type of fisheries)
 - Community fisheries and other rights/based fisheries at village level
 - "On farm" fishing, fishing in rice fields, etc.
- (c) Categories of equipment/gear/boats
 - Set nets/traps
 - Gear operated from boats
 - Mobile gear/hand line/hooks/etc.

c. Fishers**c.1 Coverage of Fishers**

The statistics on fishers for inland capture fishery are generally obtained from the respective National Fishery Census (or Agricultural Census). Statistics on fishers cover fishers engaged in inland capture fishery while persons operate fishing in marine area as well as any type of aquaculture should be excluded.

c.2 Classification of Fishers

Fishers in this section are mostly rural people who, in one way or another, seasonally or the whole year, full-time or part/time, are involved in activities related to the catch and collection of aquatic organisms in inland water bodies. Some of the information/statistics related to household occasional fishing could also be found in other sources of statistics that are available at fisheries agencies.

As far as possible, the relative involvement of people in fishing should be reported to reflect the importance of inland fisheries to the countries whether nationally, locally, seasonally as well as for rural livelihood in general. Fishers/people involved in fishing could be classified into:

- a) Full-time
- b) Part-time (including seasonally full-time)
- c) Occasional fishing by household members (which could be a daily exercise)

2.3.2 Statistics on Aquaculture**a. Coverage and Definition**

Aquaculture means the farming of aquatic organisms including fish, mollusks, crustaceans, echinoderms, and aquatic plants. Farming implies some form of intervention in the rearing process to enhance production, such as regular stocking, feeding and protection from predators. Farming also implies individual or cooperative ownership of or rights resulting from contractual arrangements to, the stock being cultivated primarily for livelihood and business activities. For statistics purposes, aquatic organisms harvested by an individual or corporation, which has owned them throughout their rearing period contribute to aquaculture, whereas aquatic organisms exploited by the public as a common property resources, with or without appropriate licenses, are the harvest of fisheries .

Considering the different ecology and resources in aquaculture, the statistics on aquaculture could be classified into three sub-sectors, namely: mariculture, brackishwater culture, and freshwater culture. The distinction between these categories should be based on culture environment where the aquatic organism is farmed or cultivated. Considering aquaculture production, some aquatics species can be cultured in various environments, its production then could be reported in more than one sub-sector, e.g. Java barb, tilapia, milkfish, etc.

1) Mariculture

The farming or growing-out of aquatic animals/plants takes place in full seawater. This includes the culture of groupers, milkfish and other marine fishes in sea cages offshore or in coral reef coves; abalone and giant clams in coral reefs; seaweeds in longlines along the sea coasts; oysters in longlines.

2) Brackishwater culture

The farming or growing-out of aquatic animals/plants takes place in estuaries, river mouths, mangrove lagoons or in ponds with seawater. This includes culture of groupers and other fishes in cages; milkfish and penaeid shrimps in ponds; mud crab in pens in mangroves; oysters, mussels and other bivalves in estuaries.

3) Freshwater aquaculture

The farming or growing-out of aquatic animals/ plants takes place in lakes, reservoirs, rivers, rice fields, small farm impoundments or in freshwater ponds. This includes culture of carps, tilapias and other freshwater fish species in reservoirs, lake cages, and ponds; catfishes in ponds; freshwater prawns in ponds.

b. Aquaculture Production**b.1 Unit of Measurement****1) Production in quantity**

Production in quantity represents the weight at farm gate. Production in quantity should be reported in metric tons, except those expressed in numbers. If production is reported in kilograms, this should be converted into metric tons estimated by rounding off to the nearest hundredths.

2) Production in value

Production in value represents the producers' price at farm gate. It is generally estimated by multiplying the quantity of production by the farm gate price by species. In reporting production in value, the amount reported in the national currencies should be converted to US\$.

b.2 Statistics on Aquaculture Production

Aquaculture production means the output of farmed aquatic organisms either for final consumption or as raw materials for transformation into other products or for trade. It includes commodities quantified by numbers rather than by weight such as ornamental fishes and hatchery output. The statistics on production could be classified into the following categories:

1) Production by culture environment

The statistics on production should be based on the culture environment where the aquatic organism was cultivated, such as mariculture, brackishwater culture and freshwater aquaculture. One species can be reported in more than one type of environment depending on its tolerant and the culture status in the each country.

2) Production by species

Production from aquaculture could be broken down by species from all types of culture environments in the Southeast Asian region, The list of species is provided in Appendix 3.

3) Production by methods of culture

To facilitate aquaculture management, the production statistics should be reported by methods of culture such as ponds, pens, paddy field or paddy cum fish, etc. The definition of each method is described below.

(a) Ponds and tanks are artificial units of varying sizes constructed above or below ground level capable of holding and interchanging water

(b) Pens refer to water areas confined by net, mesh and other barriers allowing uncontrolled water column between substrate and surface; where pens and enclosures will generally enclose a relatively large volume of water

(c) Cages refer to open or covered enclosed structures constructed with net, mesh, or any porous material allowing natural water interchange. These structures may be floating, suspended, or fixed to the substrate but still permitting water interchange from below

(d) Paddy fields refer to paddy fields used for rice and aquatic organisms; rearing them in rice paddies to any marketable size

(e) Others refer to methods other than the above; rafts. Ropes, stakes are included in this category

c. Artificial Seed Production

The statistics on artificial seed production is presented in order to assess the recruitment in aquaculture and facilitate management purpose. Production could be reported by species in terms of the number of larvae, fingerlings, juveniles, etc. used that focuses on two main objectives, such as for wild stock enhancement and aquaculture practices. As part of wild stock enhancement, production covers both the number released to a controlled environment and to the wild whereas production for aquaculture practices covers seed stocks for mariculture, brackishwater culture and freshwater culture.

d. Aquaculture Unit

Aquaculture unit refers to a management unit, which operates aquaculture in marine, brackishwater and freshwater areas. The term covers both economic units (companies) and households conducting activities in culturing aquatic organism. In Southeast Asian countries, the use of this term varies from country to country, e.g. fishing establishments in Indonesia, farms in Singapore and Thailand.

e. Area under Culture

Area under culture can be referred to as the net area (water surface area) and gross area. Net area refers to the areas of the culture facilities but limited to the water surface area, whereas gross area refers to the culture facilities including not only the water surface area but also the area of the dike surrounding the water area. For ponds and cages, the area under culture will be reported both in net area and gross area while for the other culture methods this could be reported only as net area. The number of culture facilities should also be reported in order to facilitate aquaculture management.

f. Fish Farmers

Fish farmers (or aquaculture workers) under this item, refer to persons who are engaged in aquaculture activities such as people working in farms, hatcheries, and employed in shellfish culture operations, maintenance of aquaculture facilities, water supply, feeding etc. As the number of fish farmers engaged in aquaculture often varies according to the season such as harvesting or construction of the aquaculture facilities, only the fish farmers who are engaged full-time in aquaculture are counted in reporting the statistics on the number of fish farmers.

2.3.3 Statistics on Fish Price

a. Coverage

Statistics on fish price cover aquatic organisms in the form of fresh fish only, which includes marine and freshwater species but excluding processed fish.

b. Definition of Price

Statistics on price refer to products' price, considered as average weighted price which is realized at wholesale markets or in landing centers where producers sell their catches (applicable in some countries in the region). The price is determined (there) by means of auction, negotiation between producers and wholesalers and middlemen, etc., which can also be used to estimate the total production in value.

c. Unit of Price

The products' price should be given in US\$ per kilogram of fresh fish by species. The figure should include two digits after the decimal point by rounding off to the nearest hundredths

Appendix 1**CLASSIFICATION OF FISHING AREAS**

The fishing areas of the Southeast Asian region, established for fishery statistical purposes, consist of inland and marine fishing areas, which is consistent with the definition and classification of capture fishery. There are standardized in accordance with the FAO Major Fishing Areas, the boundaries of which were determined in consultation with international fishery agencies taking into account various considerations, including:

- (i) The boundary of national regions and the natural divisions of oceans and seas;
- (ii) The boundaries of adjacent statistical fisheries bodies already established in inter-governmental conventions and treaties;
- (iii) Existing national practices;
- (iv) National boundaries;
- (v) The longitude and latitude grid system;
- (vi) The distribution of the aquatic fauna; and
- (vii) The distribution of the resources and the environmental conditions within as area.

1. Inland Fishing Areas

All inland waters of Southeast Asian countries are identified under the Area 04 (Asia, Inland Water). There is no sub-area for Asia (Fishing Area 04) that is recognized for the collection of catch and effort data for the Southeast Asian region. The data presented by Lao PDR, which is the sole landlocked country in the region, are therefore reported under Area 04 only.

2. Marine Fishing Areas

The marine fishing areas of the Southeast Asia countries are identified under Area 57 (Indian Ocean, Eastern), Area 71 (Pacific, Western Central) and Area 61 (Pacific, Northwest). Countries and their sub-areas to be used in marine fishery statistics are as follows:

Countries	Sub-areas for marine fishery statistics	FAO Marine Fishing Area	SEAFDEC Sub-areas
a) Brunei Darussalam		71	71i
b) Cambodia		71	71b
c) Indonesia		57,71	
	West Sumatra	57	57e
	South Java	57	57e
	Malacca Strait	57,71	57d, 71k
	East Sumatra	71	71k
	North Java	71	71k
	Bali-Nusa Tenggara	57	57f
	South-west Kalimantan	71	71k
	East Kalimantan	71	71k
	South Sulawesi	71	71k
	North Sulawesi	71	71k
	Maluku-Papua	71	71k
d) Malaysia			
	West Coast of Peninsular Malaysia	57	57c
	East Coast of Peninsular Malaysia	71	71e
	Sabah	71	71f
	Sarawak	71	71g
e) Myanmar		57	57a
f) Philippines		71	71j
	Luzon	71	71j
	Visayas	71	71j
	Mindanao	71	71j
g) Singapore		71	71h
h) Thailand		57,71	
	Gulf of Thailand	71	71a
	Indian Ocean	57	57b
i) Vietnam		61,71	
	North Vietnam	61	61a
	Central Vietnam	61	61b
	Southwest Vietnam	71	71c
	Southeast Vietnam	71	71d

Area 57 (Indian Ocean, Eastern)

Under fishing area 57, marine fishery statistics such as production, species, fishing gear, fishing vessel, fishing units, etc. will be collected and reported within the Exclusive Economic Zone (EEZ) of each country.

To facilitate the reporting fishery statistics by each country, the fishing area in the Southeast Asian region can be divided into 6 sub-areas under, which correspond to the existing EEZs of Myanmar, Thailand, Malaysia and Indonesia. The sub-areas under area 57 are as follow:

- Sub-area 57a: Marine fishing area of Myanmar
- Sub-area 57b: Marine fishing area of Thailand (Indian Ocean)
- Sub-area 57c: Marine fishing area of Malaysia (West Coast of Peninsular Malaysia)
- Sub-area 57d: Marine fishing area of Indonesia (Malacca Strait)
- Sub-area 57e: Marine fishing area of Indonesia (West Sumatra and South Java)
- Sub-area 57f: Marine fishing area of Indonesia (Bali-Nusa Tenggara)

Boundary between Area 57 and 71

1. At the Strait of Malacca, the areas bounded by a line commencing from East Sumatra and across the strait at 2° 30' N latitude to meet the West Coast of Peninsular Malaysia.
2. At marine waters between Sumatra and Java, the areas bounded by a line commencing on the coast of Sumatra at the boundary between the District of Lampung Utara and the District of Lampung Selatan at 5° 31' S latitude, 104° 33' E longitude. The boundary is running along a rhomb line between Cape Tjuku Redak on the mainland of Sumatra and Cape Batu Kebucung on the Island of Tebuan to the position 6° 15' S latitude, 105° 04' E longitude; then along a rhomb line between Cape Parat on the Island of Panaitan and the southeastern tip of the Island of Rakarta to the western coast of Java at the boundary between the District of Lebak and the District of Serang at 6° 23' S latitude, 105° 49' E longitude.
3. At marine waters of Java and Bali-Nusa Tenggara, the areas bounded by a line commencing from 8°00' S latitude starting the coast of South Java at Surabaya and running east to meet at 129°00' E longitude; thence running due south until meet Northern coast of Australia. The area under the line is recognized as the fishing area 57 whereas the other above the line accepted as fishing area 71.

Area 71 (Pacific, Western Central)

Under fishing area 71, marine fishery statistics such as production, species, fishing gear, fishing vessel, fishing units, etc. will be collected and reported within the Exclusive Economic Zone (EEZ) of each country. There are 8 Southeast Asian countries identified under fishing area 71 covering Brunei Darussalam, Cambodia, Indonesia, Malaysia, Philippines, Singapore, Thailand and Vietnam. To facilitate reporting fishery statistics by each country, the fishing area can be divided into 11 sub-areas for the region, corresponding to the existing EEZ of these countries. The sub-areas under area 71 are as follows.

- Sub-area 71a: Marine fishing area of Thailand (Gulf of Thailand)
- Sub-area 71b: Marine fishing area of Cambodia
- Sub-area 71c: Marine fishing area of Vietnam (Southwest Vietnam)
- Sub-area 71d: Marine fishing area of Vietnam (Southeast Vietnam)
- Sub-area 71e: Marine fishing area of Malaysia (East Coast of Peninsular Malaysia)
- Sub-area 71f: Marine fishing area of Malaysia (Sabah)
- Sub-area 71g: Marine fishing area of Malaysia (Sarawak)
- Sub-area 71h: Marine fishing area of Singapore
- Sub-area 71i: Marine fishing area of Brunei Darussalam
- Sub-area 71j: Marine fishing area of Philippines (Luzon, Visayas, Mindanao)
- Sub-area 71k: Marine fishing area of Indonesia (East Sumatra, North Java, Bali-Nusa Tenggara, South-West Kalimantan, East Kalimantan, South Sulawesi, Maluku-Papua)

Area 61 (Pacific, Northwest)

Under fishing area 61, the marine fishery statistics such as production, species, fishing gear, fishing vessel, fishing units, etc. will be collected and reported within the Exclusive Economic Zone (EEZ) of each country. There is only one country identified under fishing area 61, which is Vietnam. The fishing area can be divided into 2 sub-areas as follows:

Sub-area 61a: Marine fishing area of Vietnam (North Vietnam)

Sub-area 61b: Marine fishing area of Vietnam (Central Vietnam)

Appendix 2

CLASSIFICATION OF SMALL-SCALE AND COMMERCIAL FISHERIES

Due to different legal definitions used by each country, the following table shows the classification of small-scale and commercial fisheries of countries in the region.

Countries	Small-scale Fisheries	Commercial Fisheries
Brunei Darussalam	Small-scale/artisanal fisheries: Operating in all zones but concentrating in Zone 1 (0-3 nm)	Trawler, seiner, long liner a) <60 GT; <350 Hp operating in Zone2 b)60.1-150 GT; 351-600 Hp operating in Zone3 c)151-200 GT; 600-800 Hp operating in Zone4
Cambodia	Coastal fisheries small-scale fisheries with/without engine (from 5-50 Hp) operating in Zone1	Commercial fisheries: more than 50 Hp operating in Zone2
Indonesia	Fisheries that its operation without using boat, using non-power boat, using outboard motor size <5 GT, or inboard motor size <5 GT	a)Fisheries that its operation using outboard motor size 5 GT-30 GT or inboard motor size 5 GT-30 GT b)Fisheries that its operating using outboard motor size \geq 30 GT
Lao PDR	-	-
Malaysia	Traditional fisheries: small-scale fisheries using traditional fishing gears (i.e. other than trawls and purse seines) with vessel less than 40 GRT operating in all zones concentrating in Zone A	Commercial fisheries: Medium and large- scale fisheries using commercial fishing gears such as trawls and purse seines a)With vessels less than 40 GRT operating in Zone B b)With vessels from 40-70 GRT operating in Zone C c)With vessels above 70 GRT operating in Zone C2
Myanmar	Coastal fisheries: vessels of less than 30 ft or using less than 12 Hp engine operating in Zone1	Industrial fisheries: vessels more than 30 ft or using more than 12 Hp engines operating in Zone2
Philippines	Municipal fisheries: small-scale fisheries with vessels of less than 3 GT operating in Zone 1 and 2	Commercial fisheries: a)Small-scale commercial fisheries: from 3.1-20 GT vessels operating in Zone 2; can also operate within 10.1-15 km (within Zone 1) if authority is granted by the concerned local government unit (LGU)
Singapore	Small-scale fisheries with vessels of less than 3 GT operating in Zone1	Small-scale commercial fisheries: Inboard engine less than 50 GT or 380 Hp operating in Zone2
Thailand	Small-scale fisheries: vessels of less than 5 GT operating in Zone 1	Large-scale fisheries: vessels of more than 5 GT operating in Zone 2
Vietnam	Small-scale fisheries: vessels with no engine and with engine but less than 40 Hp	Large-scale fisheries: vessels with engine more than 40 Hp

Fishing Zones of Countries in Southeast Asia

Countries	Fishing Zone1	Fishing Zone2	Fishing Zone 3	Fishing Zone 4
Brunei Darussalam	From shore line to 3 nm	From 3 nm to 20 nm	From 20 nm to 45 nm	From 45 nm to EEZ limit
Cambodia	From shore line to 20 m depth	From 20 m depth to EEZ limit		
Indonesia	From shore line out to 4 nm	From the outer limit of first fishing zone to 12 nm from shore	From the outer limit of second fishing zone to EEZ limit	
Malaysia	From shore line to 5 nm	From 5 nm to 12 nm	From 12 nm to 30 nm	From 30 nm to EEZ limit
Myanmar	From shore line to 5 nm in the northern area, 10 nm in the southern area	From outer limit of first fishing zone to EEZ limit		
Philippines	From shore line to 15 km	From 15 km to EEZ limit		
Singapore	From shore line to within Port Limits	From 12 nm to EEZ limit		
Thailand	From shore line to 12 nm	From 12 nm to EEZ limit		
Vietnam	From shore line to 30 m depth in Northern and Southern areas, to 50 m depth in Central area	From 30 to 50 m depth to the EEZ limit		

Appendix 3

LIST OF AQUATIC ANIMALS AND PLANTS

For the statistics on production for capture fishery and aquaculture in the Southeast Asian region, broken down into species, the International Standard Classification of Aquatic Animals and Plants (ISSCAAP) developed by CWP will be used as basis to develop the Regional Standard Statistic List of Aquatic Species, which focused on the species available and their distribution in the region.

For Capture production, since some aquatic animals particularly diadromous species may be caught in both marine and inland waters, the statistics will be reported in two parts of capture fisheries. Regarding aquaculture production since some aquatic species can be culture in more than one culture environment, production can then be reported based on where the species are cultured.

The International Standard Classification of Aquatic Animals and Plants (ISSCAAP) applied for the region is as follows:

Code	Group of Species
1	Freshwater fishes
11	Carp, barbells and other cyprinids
12	Tilapias and other cichlids
13	Miscellaneous freshwater fishes
2	Diadromous fishes
24	Shads
25	Miscellaneous diadromous fishes
3	Marine fishes
31	Flounders, halibuts, soles
33	Miscellaneous coastal fishes
34	Miscellaneous demersal fishes
35	Herring, sardines, anchovies
36	Tunas, bonitos, billfishes
37	Miscellaneous pelagic fishes
38	Sharks, rays, chimaeras
39	Marine fishes not identified
4	Crustaceans
41	Freshwater crustaceans
42	Crabs, sea-spiders
43	Lobsters, spiny-rock lobsters
45	Shrimps, prawns
47	Miscellaneous marine crustaceans
5	Molluscs
51	Freshwater molluscs
52	Abalones, winkles, conch
53	Oysters
54	Mussels

55	Scallops, pectens
56	Squids, cuttlefishes, octopuses
57	Miscellaneous marine molluscs
7	Miscellaneous aquatic animals
71	Frogs and other amphibians
72	Turtles
73	Crocodiles and alligators
76	Sea-urchins and other echinoderms
77	Miscellaneous aquatic invertebrates
8	Miscellaneous aquatic animal products
81	Pearls, mother-of pearl, shells
82	Corals
83	Sponges
9	Aquatic plants
91	Brown seaweeds
92	Red seaweeds
93	Green seaweeds
94	Miscellaneous aquatic plants

Appendix 4

CLASSIFICATION OF FISHING GEARS

For the statistics on fishing units and marine production, breakdown into types of fishing gear, the

Major Group	Minor Group	Standard Abbreviation	ISSCFG Code
1.Purse seine		PS	01.1.0
2.Seine Net		SX	02.9.0
	Boat seines	SV	02.2.0
	Beach seine	SB	02.1.0
3.Trawl		TX	03.9.0
	Beam trawl	TBB	03.1.1
	Otter board trawl	OT	03.4.9
	Pair trawl	PT	03.5.9
4.Lift net		LN	05.9.0
5.Gill net		GN	07.9.1
6.Trap		FIX	08.9.0
	Stationary trap	-	-
	Portable trap	-	-
7.Hook and lines		LX	09.9.0
8.Push/Scoop net		-	-
9.Shellfish and seaweed collecting gear		-	-
10.Others		MIS	20.0.0

Types of Fishing Gears and Definitions

1. Purse seine

A net roughly rectangular in shape without a distinct bag is set vertically in water, to surround the school of fish with purse line, generally of pelagic nature.

Actually, this group of fishing gear called 'Surrounding Net', which is sub-divided into three major groups, such as a) one boat purse seine; b) two-boat purse seine; and c) surrounding net without a purse line. However, in term of fishery statistics, no countries in the region collect the data in such individual groups. Thus, purse seine is the only gear of surrounding net which collect data without detail in one or two-boat operations.

2. Seine net

A bag shaped net with two wings, normally; the wings are larger than those of trawls nets. The net is pulled towards a stationary boat or onto a beach. A seine net of primitive nature sometimes does not have a bag. Insofar as the net is pulled towards a stationary boat or beach, it is included herein. The seine net is sub-divided into two minor groups: a) boat seine and b) beach seine.

2.1 Boat seine

Boat seine consists of two wings, a body and a bag, which is similar to that of trawls. Operated from a boat, they are generally used on the bottom, where they are hauled by two ropes, usually very long, set in the water so as to ensure that as many fish as possible are driven or herded towards the opening of the net. Danish seine is also included herein.

2.2 Beach seine

Beach seine is a simple fishing gear; one end of the wing is held by a group of fishermen on the shore, the net is first set at right angles to the seashore and the direction of the net setting turns gradually towards the shore. After setting all the net, the towing line of the wing is laid out and the boat runs toward the shore providing a certain distance between the landing and setting points. Then, from the two ends of the wings, the buoy line and the sinker line are hauled to catch the fish.

3. Trawl

A conical bag shaped-net with two or more wings, pulled by one to two boats for a period of time, to catch mainly fish or other aquatic animals that live directly on or stay near the sea bed. When such a gear is used in mid-water with the same catching mechanism, the mid-water trawl is included under this group. The trawl is also sub-divided into three minor groups: a) beam trawl; b) otter board trawl; and c) pair trawl

3.1 Beam trawl

The main feature of this trawl is abeam, mostly made of iron. Its purpose is to spread the netting. Sometimes a heavy beam is supported by steel shoes at each end which run over the sea bed. A ground rope and a head rope are joined together to the cement ski that works as a bobbin. The principle catch of beam trawl are shrimps, therefore the mesh size is relatively small. The mesh size of beam trawl also depends on the catch.

3.2 Otter board trawl

Otter boards are used for horizontal spreading of the net mouth. Most otter trawl nets consist of two panels; this is called a 'two-seam net'. The mouth is oval-shaped when viewed from front. Two wings stretch out to increase the swept area and to guide the fish in the net's path down to the cod-end

3.3 Pair trawl

Pair trawl means this net is towed by two boats. In pair trawling, the net mouth is kept open by outward towing of the two boats, which always try keep the same distance between them during operation. The otter boards are not necessary, the arrangement of gear has been simplified, the wrap is connected directly to the sweep lines the other is joined to a triangular iron frame at the end of Gridles from each wing of the net.

4. Lift net

A sheet of net, usually square, but may sometimes be conical, is stretched by several rods, ropes, or a frame and is set either at the bottom or in mid-water for some time and then lifted to trap the fish swimming above it. Both stationary lift nets and portable lift nets are included herein.

5. Gill net

A net wall, with its lower end weighted by sinkers (or heavy net, as in drift gill net) and the upper end raise

by floats, is set across the path of migrating fish. Fish trying to make their way through the net wall are gilled or entangled in the mesh. The trammel net with two to three wall nets is also included herein. The migrating fish are entangled between two layers of nets and not in the mesh where a combination of different types of nets are used.

6. Trap

Trap referred to a gear that is set or stationed in the water for a certain period, regardless of the kind of materials used or their construction, The fish when are naturally confined in a collecting unit from which escape is prevented by labyrinths and/or retarding devices such as gorges, funnels, etc. without any active fishing operation taking place. Trap is also sub-divided into two minor groups: a) stationary trap; and b) portable trap.

6.1 Stationary trap

Considering its operation, this group of trap is stationed in the water for long period at least until the end of fishing season. Most of stationary gear is operated in relation to water current. Stationary trap covers bamboo stake trap, bamboo fence trap, set net, bag net. Etc.

6.2 Portable trap

Trap is portable, designed in form of cages or basket. It can be made of various materials such as wood, bamboo, metal rods, wire netting, etc. It is used with or without bait depending on the target species. Fish trap, crab trap, shrimp trap are included herein.

7. Hook and lines

This gear generally consists of line(s) and hook(s) where natural or artificial baits are hooked to attract fish or other aquatic animals. Unbaited hook or a jig may also be used.

8. Push/Scoop net

A bag net with a fixed or variable opening is operated in shallow waters or from boats. Some large scale scoop nets are operated from a motorized boat such as the boat push net.

9. Shellfish and seaweed collecting gear

All manual gears and complex devices which are used for collecting shellfish and seaweeds, regardless of the type of materials used for their construction. While the manual gear are operated by an individual, some of the more complex devices such as cockle dredge, clam dredge, etc. need a motor boat for their operation.

10. Others

This group of fishing gear covers the great variety of other fishing gears and methods which are not specified elsewhere, including cast net drive-in-net, muro ami, harpoon, etc.

Appendix 5**CLASSIFICATION OF FISHING BOATS**

To compile the statistics on the fishing units considering the existing fishing operations in the region, the Regional Classification of Fishing Boats by Type of Boats is referred to provide figures of the fishing vessel as follows:

Boat Type		Size of Boat
First level	Second level	
1.Non-powered boat		
2.Powered boat		
	2.1Out-board powered boat	
	2.2In-board powered boat	Less than 5 tons
		5-9.9 tons
		10-19.9 tons
		20-49.9 tons
		50-99.9 tons
		100-199.9 tons
		200-499.9 tons
		More than 500 tons

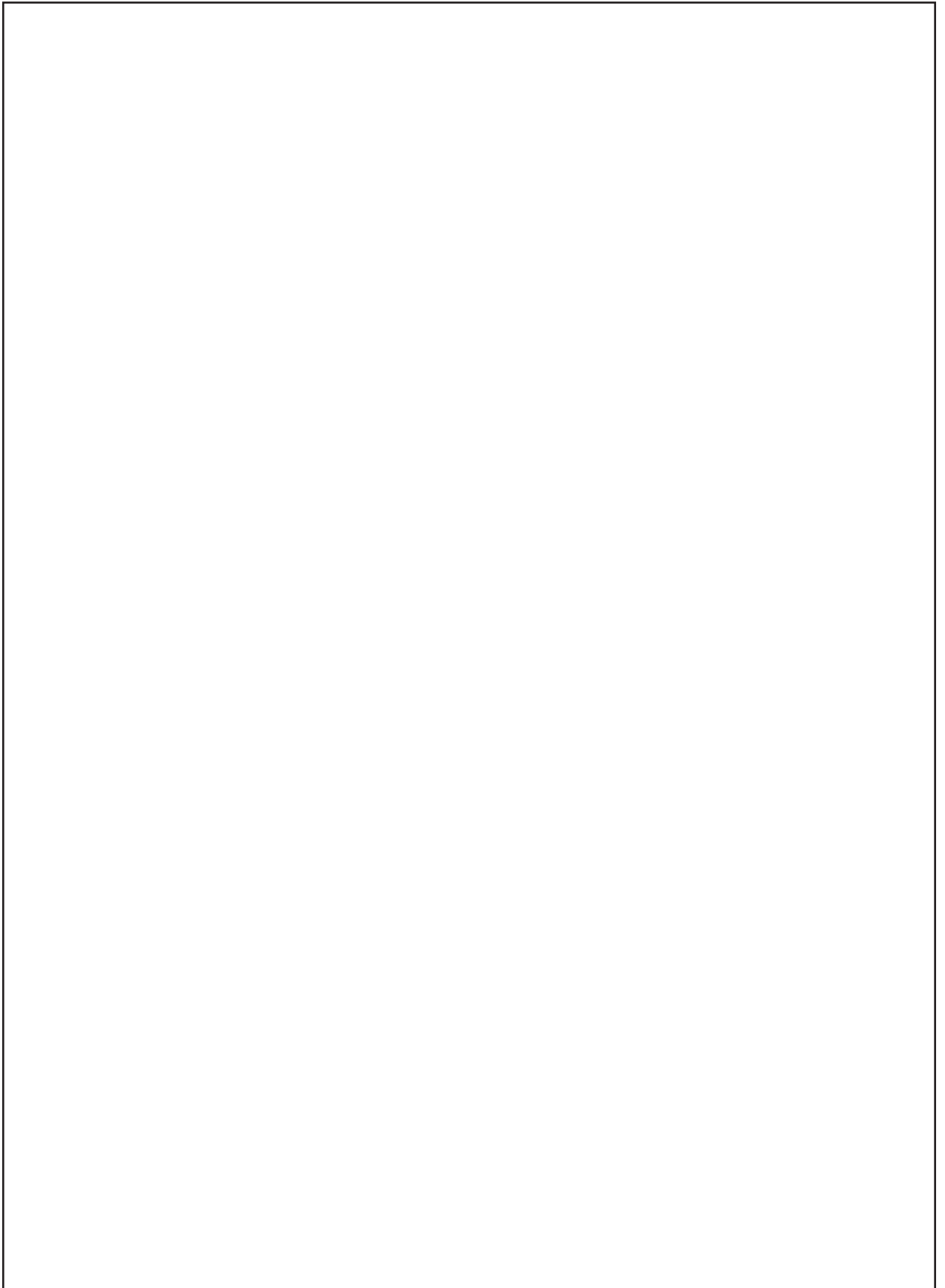
Appendix 6

CLASSIFICATION OF FISHERS AND FARMERS

To compile statistics on the number of fishers by sub-sectors of fisheries and working status, the Classification of fishers and farmers will be used as follows.

Main Category	Working Area	Working Status
1. Fishers (engaged in fisheries)	1.1 Marine capture fisheries	Full-time fishers
		Part-time fishers
	1.2 Inland capture fisheries	Full-time fishers
		Part-time fishers
		Occasional fishing by household members
2. Farmers (engaged in aquaculture)	2.1 Mariculture	
	2.2 Brackishwater culture	
	2.3 Freshwater culture	

SUMMARY 2008



STATISTICAL SUMMARY

AN OVERVIEW OF THE FISHERY SECTOR OF SOUTHEAST ASIA IN 2008

1. The Fisheries Sector

In 2008, the total fishery production of the region was 27,260,013 MT valued at 28,584 million US\$, of which production from marine capture fisheries accounted for 51% (13,814,368 MT), about 9% (2,381,711) from inland capture fisheries, and about 40% (11,063,934 MT) from aquaculture. In terms of value, marine capture fisheries contributed about 43% (12,336 million US\$), inland capture fisheries about 8% (2,215 million US\$) and aquaculture about 49% (14,032 million US\$).

The region's total fishery production and value had slightly increased in 2008 by 8.13% and 19.41%, respectively compared with those of 2007. Overall, production from fisheries remained relatively stable in the last five years from 2004 to 2008. However, the production from marine capture fisheries of 13,814,368 MT in 2008 was a slight decrease over the sub-sector's production in 2007. After increasing from about 13,380,841 MT in 2004 to 13,938,748 MT in 2006, marine capture fisheries production also increased to about 14,056,985 MT in 2007 but decreased to 13,814,368 MT in 2008. But the value of marine capture fisheries in 2008 increased by approximately 3,500 million US\$ compared with that of 2007. Production from inland capture fisheries in 2008 which was 2,381,711 MT valued at 2,215 million US\$, was higher than in 2007 which was 1,979,891 MT and valued at 769 million US\$. Likewise, aquaculture production also increased in terms of quantity and value by 1,889,598 MT and 1,285 million US\$, respectively, over that of 2007.

By country, the highest total fishery production came from Indonesia at 9,054,873 MT. Philippines came second with production of 4,964,703 MT while Vietnam placed third with 4,559,720 MT followed in descending order by Thailand at 3,204,200 MT; Myanmar at 3,147,605 MT; Malaysia at 1,639,017 MT; Cambodia at 536,320 MT; and Lao PDR at 145,687 MT. The lowest fishery production was reported by Singapore at 5,141 MT and Brunei Darussalam at 2,747 MT. For the whole region, the fishery production increased by 6,206,348 MT compared with that of 2004 or annual average increase of 1,241,270 MT during the five-year period from 2004 to 2008.

In terms of value, Indonesia's production was reported to be worth 9,700 million US\$ the highest total fishery value in 2008 followed by the Philippines at 4,675 million US\$. In descending order, Vietnam reported next at 4,618 million US\$; Thailand 3,596 million US\$; Myanmar 3,156 million US\$; Malaysia 2,164 million US\$; Lao PDR 331 million US\$, and Cambodia 317 million US\$. The lowest fishery value was reported by Singapore at 18 million US\$ and Brunei Darussalam at 7 million US\$.

2. Marine Fisheries Production (in quantity and value)

In 2008, the total production from marine capture fisheries was 13,814,368 MT, a slight decrease of 242,617 MT compared with that of 2007. During the past five years from 2004 to 2008, the

reported landing from marine capture fisheries fluctuated between 13.38-13.81 million MT, representing an increase of 3.24% with respect to the 2004 data. Correspondingly, the total value of the catch which was about US\$ 12.33 billion representing a 60% increase over the value in 2004 and an annual average increase of 12% during the five-year period.

The trend of production from marine capture fisheries had not changed since 2004 until 2008, with Indonesia still continuing to take the lead with its production valued at 4.957 million US\$. Philippines came second with production valued at 2.810 million US\$. Although in terms of quantity, Vietnam placed third in the 2008 ranking but the value of its production was not reported. Myanmar reported next with a production of 1,679,010 MT but in terms of value (1,586 million US\$) the country came after Malaysia (1,691 million US\$) with total production of 1,394,531 MT. Thailand followed with a production of 1,644,800 MT valued at 1,276 million US\$ while Malaysia came next with production of 1,394,531 MT valued at 1,690 million US\$ which ranked higher than Myanmar and Thailand. Cambodia reported its production of 66,000 MT (but the value was not reported), Brunei Darussalam at 2,357 MT (valued at 6.9 million US\$) and Singapore at 1,623 MT (valued at 8.6 million US\$).

From 2004 to 2008, production from marine capture fisheries increased in terms of quantity by 433,527 MT or an annual average increase of 86,705 MT and landed value by 4,931 million US\$ or an annual average increase of 986 million US\$. The increasing trend of the production quantity over the five-year period was contributed mainly by Myanmar's production which increased by 476,980 MT, followed by Indonesia's production which had increased by 381,692 MT, production of the Philippines which increased by 310,386 MT, and Vietnam's production which increased by 201,187 MT. In terms of increase in the production value over the five-year period, Myanmar only reported the corresponding value in 2008 but no report was made during the previous years. Indonesia reported an increase of value by 1,793 million US\$ and the Philippines by 1,214 million US\$. Vietnam reported steady increase in production over the five-year period but has never reported the value of its production. Malaysia also reported a production increase by 62,886 MT and increase in value by 588 million US\$. In contrast, Thailand reported a decline in production by 991,169 MT as well as in value by 258 million US\$. Although Cambodia's production increased by 10,183 MT or 18.2% but the value was not reported. Singapore reported decreased production by 550 MT but the corresponding value increased by 2.3 million US\$. Likewise for Brunei Darussalam's production which decreased by 68 MT but the values reported for 2007 and 2008 showed decreasing trend, no information were reported during the previous years.

By species, production in 2008 in terms of quantity and percentage from marine capture fisheries indicated that scad nei (*Decapterus* spp.) had the highest production which far exceeded that for all other species, accounting for nearly 4.1% (564,722 MT) of the total production from marine capture fisheries in the region. The second most heavily exploited species was the skipjack tuna (*Katsuwonus pelamis*) producing 471,902 MT contributing 3.4% to the total production followed by sardinellas nei (*Sardinella* spp.) at 448,342 MT at 3.2%, cephalopods nei at 230,630 MT at 1.7%, yellowfin tuna (*Thunnus albacores*) at 229,986 MT at 1.7%, and frigate tuna (*Auxis thazard*) at 229,986 MT at 1.7% of the total production from marine capture fisheries in the region. The catch of the miscellaneous marine fishes (*Osteichthyes*) was 9,049,323 MT contrib-

uting a total of 34.5% to the region's total production from marine capture fisheries. Despite the fact that a regional breakdown by species in terms of value was not reported by Cambodia, Lao PDR and Vietnam, the data still indicated that skipjack tuna (*Katsuwonus pelamis*) constituted the highest proportion (valued at 21.8 million US\$ contributing 4.3% to the region's total production value from marine capture fisheries) followed by scad nei (*Decapterus* spp.) at 16.6 million US\$ at 3.3%, narrow-barred Spanish mackerel (*Scomberomorus commerson*) at 16.5 million US\$ at 3.3%, banana prawn (*Penaeus merguensis*) at 15.8 million US\$ at 3.2%, *Natantia* at 14.1 million US\$ at 2.8%, and short mackerel (*Rastrelliger brachysoma*) at 14.0 million US\$ contributing about 2.8% to the region's total production value from marine capture fisheries.

In 2008, the top species group that contributed to the marine fisheries catch of Indonesia (4,701,933 MT or 34% of the region's total catch from marine capture fisheries) was led by marine fish nei (*Osteichthyes*) with production of 370,796 MT (accounting for 7.9% of the country's total marine catch) followed by scad nei (*Decapterus* spp.) at 266,787 MT or 5.7%, skipjack tuna (*Katsuwonus pelamis*) at 243,638 MT or 5.2%, short mackerel (*Rastrelliger brachysoma*) at 141,644 MT or 3%, Bali sardinella (*Sardinella lemuru*) at 119,457 MT or 2.5%, kawakawa (*Euthynnus affinis*) at 114,627 MT or 2.4%, goldstripe sardinella (*Sardinella gibbosa*) at 109,770 MT or 2.3%, narrow-barred Spanish mackerel (*Scomberomorus commerson*) at 101,343 MT or 2.2%, and yellowstripe scad (*Selaroides leptolepis*) at 98,565 MT contributing 2.1% to the country's total production from marine capture fisheries.

For the Philippines which had the second highest production from marine capture fisheries in the region, the top ten species that contributed to the country's marine catch of 2,377,514 MT (accounting for 17% of the region's total production from marine capture fisheries) included sardinellas nei (*Sardinella* spp.) at 369,199 MT (contributing 15.5% to the country's production from marine capture fisheries) followed by scad nei (*Decapterus* spp.) at 297,892 MT or 12.5%, skipjack tuna (*Katsuwonus pelamis*) at 222,010 MT or 9.3%, yellowfin tuna (*Thunnus albacores*) at 168,411 MT or 7.1%, frigate tuna (*Auxis thazard*) at 156,341 MT or 6.6%, marine fishes nei (*Osteichthyes*) at 150,467 MT or 6.3%, bigeye scad (*Selar crumenophthalmus*) at 97,149 MT or 4.1%, Indian mackerel (*Rastrelliger kanagurta*) at 91,272 MT or 3.8%, *Stolephorus* anchovies (*Stolephorus* spp.) at 73,235 MT or 3.1%, and *Carrangids* nei (*Carrangidae*) at 72,916 MT contributing 3.1% of the country's total marine catch.

As for Vietnam which accounted for the third highest marine catch in the region, the top species comprised the marine fishes nei (*Osteichthyes*) at 1,454,800 MT (accounting for 74.7% of the country's total production from marine capture fisheries), Cephalopoda at 227,700 MT or 11.7%, *Natantia* at 102,300 MT or 5.2%, Mollusca at 69,000 MT or 3.5%, *Scombroidei* at 21,000 MT at 1.1%, and tropical spiny lobsters nei (*Panulirus* spp.) at 1,500 MT contributing 0.1% to the country's total marine catch.

3. Inland Fisheries Production (in quantity and value)

The total catch from the region's inland waters remained stable at 2,381,711 MT in 2008 from 1,429,167 MT in 2007 for a five-year increase of 952,544 MT. It should be noted, however, that reporting of the inland fisheries production continues to present problems owing to the lack of

reliable information in terms of quantity and species composition. Moreover, catches by rural communities in many countries that comprise the main users of the resources, are not reported in the national statistics. Accordingly, the figures on the total catch provided in this document should be considered as indicative only.

With eight countries reporting the quantity of catch from inland fisheries but only seven countries reported the corresponding values, the regional trend of the inland fisheries sector could not be pictured as of the moment. However, for some individual countries that reported the data in quantity and value, the national picture of their respective inland fisheries could be visualized. Nevertheless, production from inland capture fisheries in the region (2,381,711 MT) accounted for about 8.7% of the region's total fisheries production in 2008. Myanmar as the top producer reported stable inland catch since 2004, and the country's catch from inland fisheries in 2008 was 814,740 MT (34.2% of the region's total inland fisheries production). However, the country's production report was not classified by species, similarly for Indonesia's production of 497,740 MT (20.9% of the region's total inland fisheries production). Cambodia's production from inland fisheries was 430,600 MT accounted for 18.1% of the region's total inland fisheries production, while Thailand's production was 228,600 MT or 9.6% and the Philippines at 179,491 MT or 7.5%. Vietnam's production was 144,800 MT or 6.1% with Lao PDR reporting with 81,387 MT production or 3.4% and Malaysia at 4,353 MT contributing 0.2% to the region's total inland fisheries production.

In terms of value of the catch in 2008, Myanmar also reported the highest value at 788 million US\$ followed by Indonesia at 521 million US\$, Cambodia at 255 million US\$, Thailand at 254 million US\$, Lao PDR at 240 million US\$, Philippines at 145 million US\$, and Malaysia at 10 million US\$. Brunei Darussalam, Singapore and Vietnam did not report the corresponding values of their production from inland fisheries. Therefore, the percentage contribution from inland fisheries to the region's total fisheries production in terms of value could not be established because of lack of data making any conclusion unreliable.

In terms of species, the inland fisheries production of Indonesia at 497,740 MT comprised the freshwater fishes nei (*Osteichthyes*) at 267,192 MT or 53.7% of the country's inland fisheries production followed by striped snakehead (*Chana striata*) at 29,842 MT or 6%, snakeskin gourami (*Trichogaster pectoralis*) at 17,588 MT or 3.5%, Nile tilapia (*Oreochromis niloticus*) at 15,492 MT or 3.1%, torpedo-shaped catfish nei (*Clarias* spp.) at 14,323 MT or 2.9%, glass catfish (*Kryptopterus* spp.) at 13,167 MT or 2.6%, kissing gourami (*Helostoma temminckii*) at 12,703 MT or 2.6%, Asian redbtail catfish (*Mystus nemurus*) and three spot gourami (*Trichogaster trichopterus*) at 12,350 MT or 2.5%, climbing perch (*Anabus testudineus*) at 11,372 MT or 2.3%, and catfishes (*Pangasius djambal*) at 9,724 MT contributing 2% to Indonesia's of the total production from inland capture fisheries.

4. Aquaculture

Under aquaculture, the data included production from mariculture, brackishwater culture and freshwater culture. From the total fisheries production from aquaculture of 11,063,934 MT in 2008 (accounting for about 40% of the region's total fisheries production), mariculture contrib-

uted 4,646,146 MT while 2,072,026 MT came from brackishwater culture and 4,345,762 MT from freshwater culture. Indonesia was the leader in terms of production quantity at 3,855,200 MT or 34.8% of the region's total production from aquaculture, valued at 4,222 million US\$ or 30.1% of the total value of the region's aquaculture production. Vietnam ranked second at 2,468,320 MT accounting for 22.3% of the region's total, valued at 4,618 million US\$ or 32.9% of the region's total. The Philippines reported production of 2,407,698 MT or 21.8% of the region's total and valued at 1,719 million US\$ or 12.2% of the region's total, Thailand at 1,330,800 MT or 12% of the region's total and valued at 2,065 million US\$ or 14.7% of the region's total, Myanmar at 653,855 MT or 5.9% of the region's total and valued at 782 million US\$ or 5.6% of the region's total, Malaysia at 240,133 MT or 2.2% of the region's total and valued at 463 million US\$ or 3.3% of the region's total, Lao PDR at 64,300 MT or 0.6% of region's total and valued at 91 million US\$ or 0.6% of the region's total, and Cambodia at 39,720 MT or 0.4% of the region's total and valued at 62 million US\$ or 0.4% of the region's total. The lowest production was reported by Singapore at 3,518 MT or 0.03% of the region's total, valued at 9 million US\$ or 0.06% of the region's total, while Brunei Darussalam reported its production at 390 MT or 0.003% and valued at 392,000 US\$ or 0.002% of the region's total.

4.1 Mariculture

Out of the region's total production from mariculture of 4,646,146 MT or 42.0% of the region's total production from aquaculture in 2008 valued at 2,994 million US\$ or 21.3% of the region's total value of its aquaculture production, Gracilaria seaweed provided 2,145,060 MT or 46.2% of the region's total production from mariculture with Indonesia contributing the highest production. The second mariculture species with the highest production was marine fishes nei (Osteichthyes) at 2,107,787 MT or 44.2% of the region's total mariculture with the Philippines accounting for the highest production of 2,096,639 MT or 99.5% of the species group's total production, followed by green mussel (*Perna viridis*) at 211,275 MT or 4.5% of the region's total with Thailand contributing the highest production of 201,552 MT or 95.4% of the species group's total production.

In terms of value, marine fishes nei (Osteichthyes) accounted for the highest mariculture valued at 1,508 million US\$ with Indonesia contributing the highest value for the species group. This was followed by the grey bambooshark (*Chilocylium griseum*) at 193 million US\$ with Myanmar contributing the highest value of the species group and marine molluscs nei at 170 million US\$ with which Vietnam contributing the highest value of species group.

4.2 Brackishwater culture

In 2008, the total production from brackishwater culture was 2,072,026 MT or 18.7% of the region's total production from aquaculture, valued at 3,473 million US\$ or 24.8% of the region's total. Production of the whiteleg shrimp (*Penaeus vannamei*) was highest at 524,300 MT or 25.3% of the region's total production from brackishwater culture with Thailand contributing the most at 485,700 MT or 92.6% of the species group's total production and reported value of 190 million US\$. The giant tiger prawn (*Penaeus monodon*) accounted for the second highest production at 382,031 MT or 18.4% of the region's total production from brackishwater culture, of which Vietnam contributed 317,600 MT or 83.1% of the production of the species group and valued at 1,357

million US\$. The third highest production came from the Indian white prawn (*Penaeus indicus*) at 217,470 MT or 10.5% of the region's total production from brackishwater culture with Indonesia contributing the highest production of 207,470 MT or 95.4% of the total species group production and valued of 1,370 million US\$.

4.3 Freshwater culture

The total production from freshwater culture in 2008 was 4,345,762 MT or 39.3% of the region's total production from aquaculture. Vietnam contributed the highest production at 1,918,300 MT or 44.3% of the region's total production from freshwater culture. The second major producer was Indonesia with 786,386 MT or 18.2% of the region's total freshwater culture production then followed by Myanmar at 605,552 MT or 14% of the region's total production from freshwater culture. Pangas catfish (*Pangasius pangasius*) contributed the highest production among the species group at 1,257,844 MT or 28.9% of the region's total freshwater culture production all total with Vietnam contributing the highest production of 1,250,000 MT or 99.4% of the total production of the species group. The second highest species produced was freshwater fishes nei (*Osteichthyes*) at 620,456 MT or 14.3% of the region's total production from freshwater culture with the Philippines contributing the highest production of 311,059 MT or 7.2% of the total species group. Roho labeo (*Labeo rohita*) followed with production of 435,505 MT or 10.0% of the region's total production from freshwater culture, of which Myanmar had the highest production of 433,130 MT or 99.4% of the total species group.

In terms of value, the collective total for the region's freshwater culture was 4,716 million US\$, of which Vietnam accounted for 2,656 million US\$, 1,398 million US\$ from Indonesia, 462 million US\$ from Thailand, 387 million US\$ from the Philippines, 141 million US\$ from Myanmar, 124 million US\$ from Malaysia, 91 million US\$ from Lao PDR, 57 million US\$ from Cambodia and 1 million US\$ from Singapore. No corresponding values were reported by Brunei Darussalam.

5. Fishing gear analysis

An analysis of the fishing gear used in the region in 2008 was focused on the three countries that reported their respective production from marine capture fisheries by type of fishing gear. The most prevalent gear used in Malaysia was trawl with total production of 703,453 MT or 51.1% of the production from all types of gears, of which trash fishes comprised the highest production by trawl at 269,710 MT or 38.3% of the trawl's total production. This was followed by purse seine at 391,352 MT or 28.4% of all types of gears, where Scad nei (*Decapterus* spp.) comprised highest catch production by purse seine at 89,794 MT 22.9% of the purse seine's total production. The gill net came third with production of 149,135 MT or 10.8% of types of gears, of which the *Rastrelliger* mackerel (*Rastrelliger* spp.) reported a production of 52,942 MT or 35.5% of the gill net's total production.

Myanmar reported that its highest catch production in terms of gear was by the purse seine at 139,339 MT or 57.4% of all types of gears, of which hilsa (*Tenualosa ilisha*) showed the highest catch production by purse seine at 115,197 MT or 82.7% of the purse seine's total. This was followed by trap at 57,766 MT or 23.8% of all types of gears, hairtail nei (*Trichiurus* spp.) reported

the highest catch production by trap at 40,317 MT or 69.8% of the trap's total production. Singapore reported that its highest production by gear catch was from the trawls at 1,411 MT or 86.9% of all types of gears, of which the penaeid shrimp nei (*Penaeus* spp.) gave the highest production of 132 MT or 80.2% of the trawl's total production.

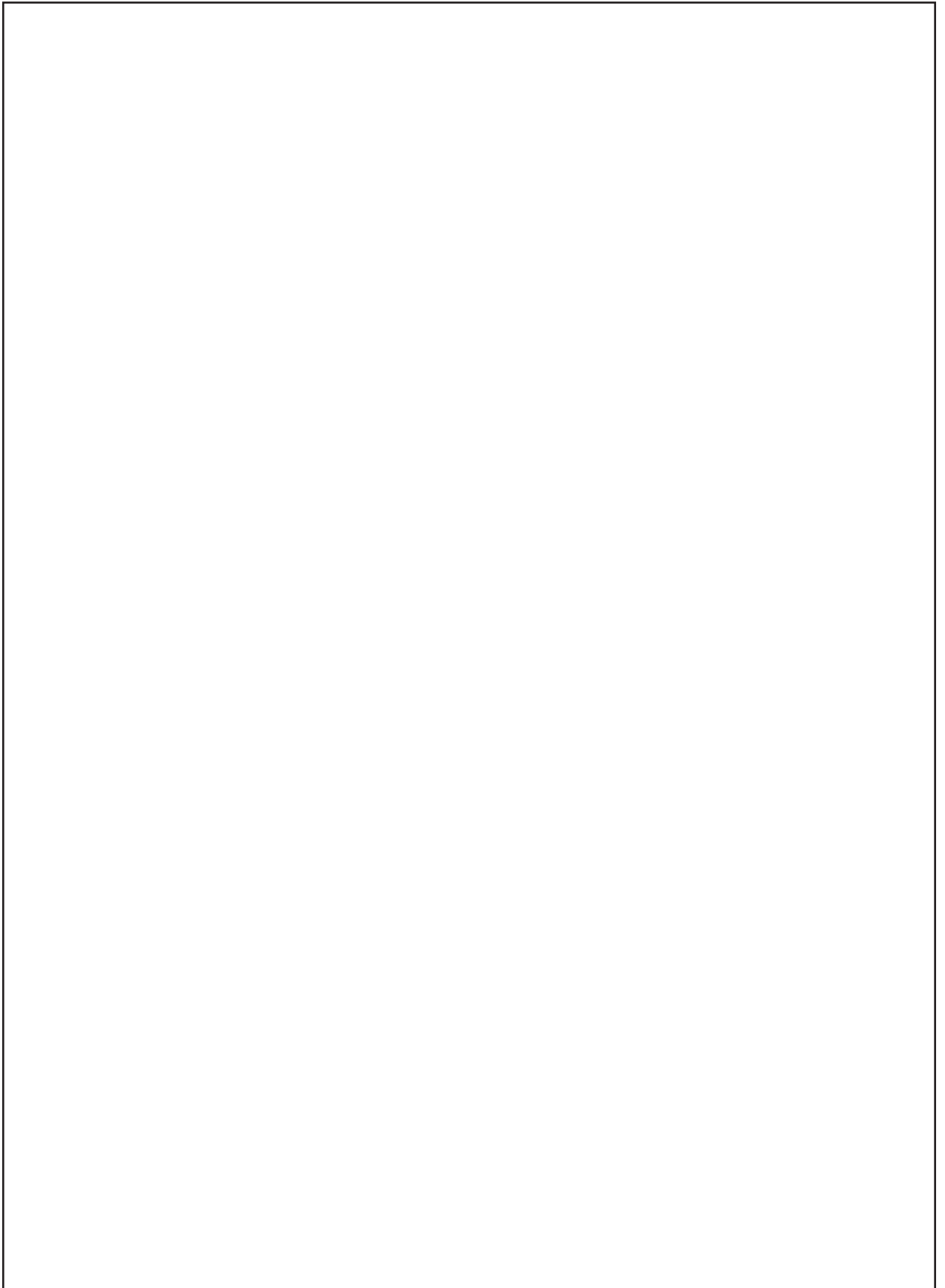
However, it should be noted the abovementioned data for gear used in marine capture fisheries could not be properly analyzed as several countries such as Brunei Darussalam, Cambodia, Indonesia, Lao PDR, Philippines, Thailand and Vietnam did not provide any information.

6. Number of Fishing Boats by Type and Tonnage

The figures included in this section cover only the boats that were registered in each nation, Cambodia, Lao PDR and the Philippines did not report the number of their fishing boats for 2008. By far Indonesia reported the highest number of boats at 604,847 of which 252,515 were non-powered boats and 352,332 were powered, followed by Malaysia with 40,959 of which 2,992 are non-powered boats and 37,967 are powered boats. The third highest number was reported by Myanmar with 31,371 of which 15,219 were non-powered boats and 16,152 which were powered. Vietnam reported that its total number of boats was 22,529 followed by Thailand at 12,920 which were all powered boats while Brunei Darussalam reported its total number of boats at 3,184 of which 305 were non-powered boats and 2,879 were powered while Singapore reported that its total number of boats was 142.

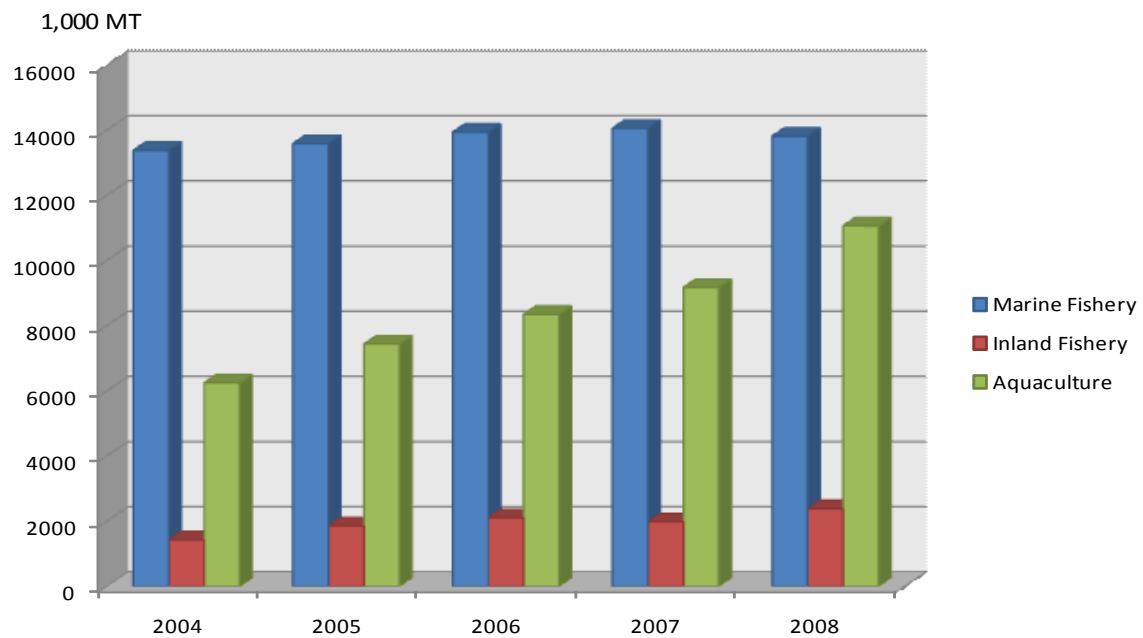
7. Number of Fishers by Working Status

In 2008, Myanmar had the highest number of fishers at 3,201,923 of which 1,429,800 or 44.6% were involved in marine fishery including 244,000 full-time and 262,000 part-time fishers. In inland fishery, the country had 1,574,000 fishers or 49.1% including 489,000 full-time and 300,000 part-time fishers. The country's aquaculture had 198,123 fishers or 6.2% including 154,026 full-time fishers. Malaysia had 140,358 including 109,771 fishers in marine fishery and 30,587 in aquaculture. Brunei Darussalam had 5,229 fishers of which 1,191 were full-time and 4,038 part-time fishers. Cambodia, Indonesia, Lao PDR, the Philippines, Singapore, Thailand and Vietnam did not provide information on their respective number of fishers.

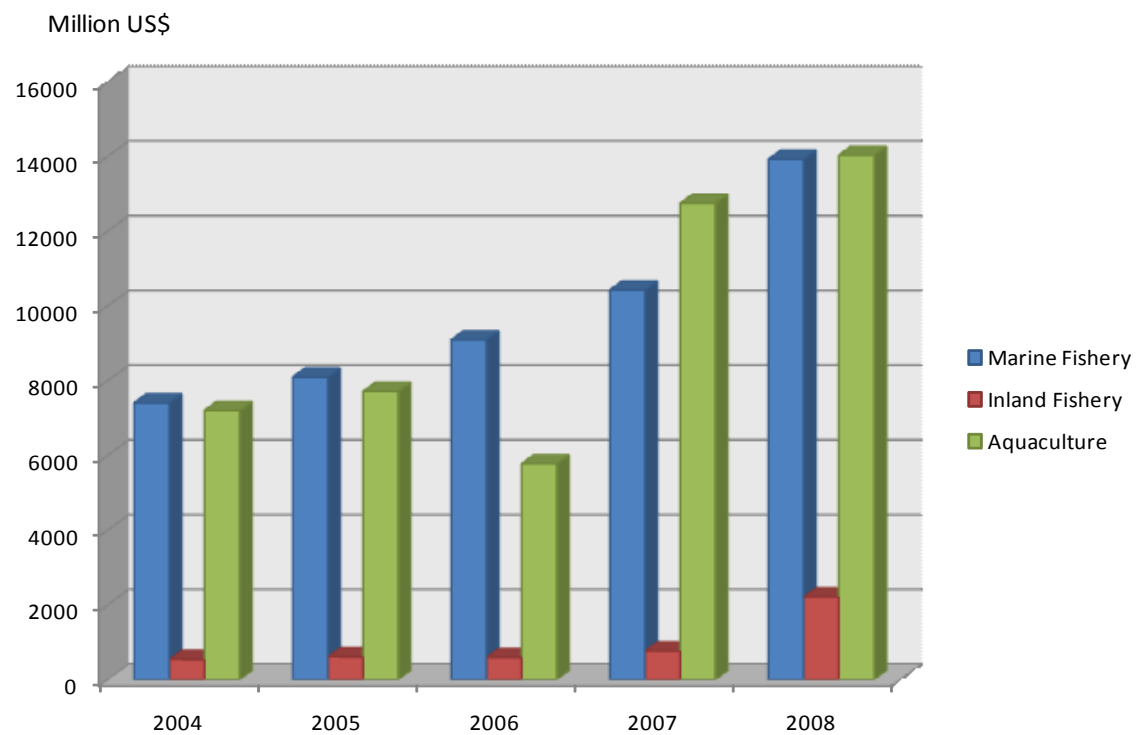


1. Fishery Production 2004-2008

(1) In quantity

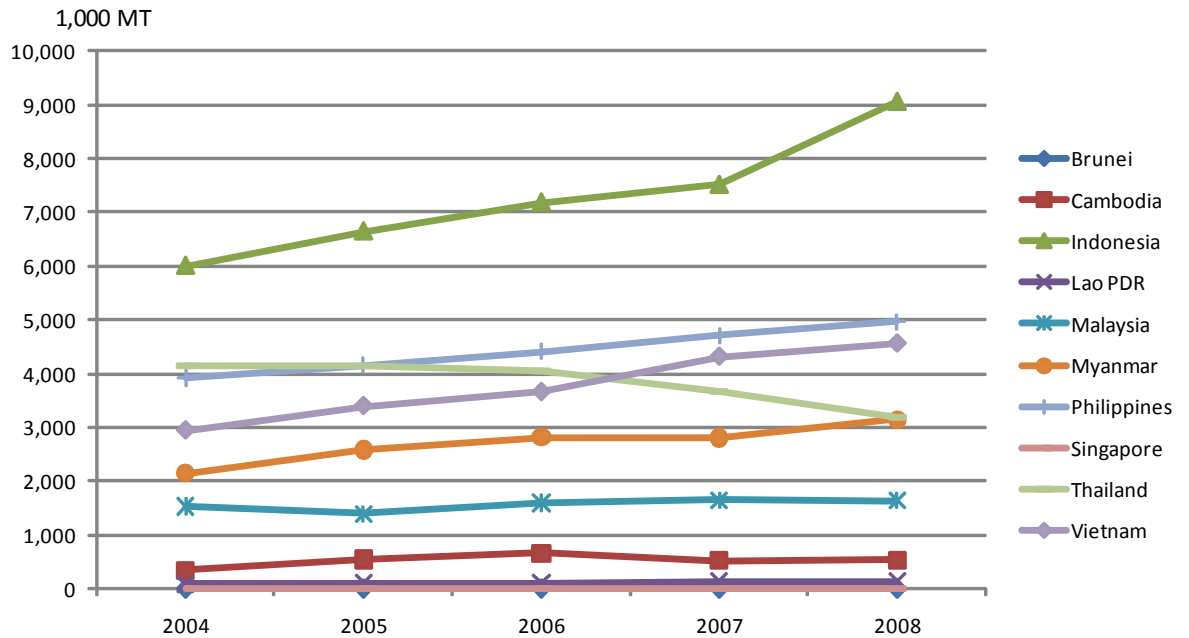


(2) In value

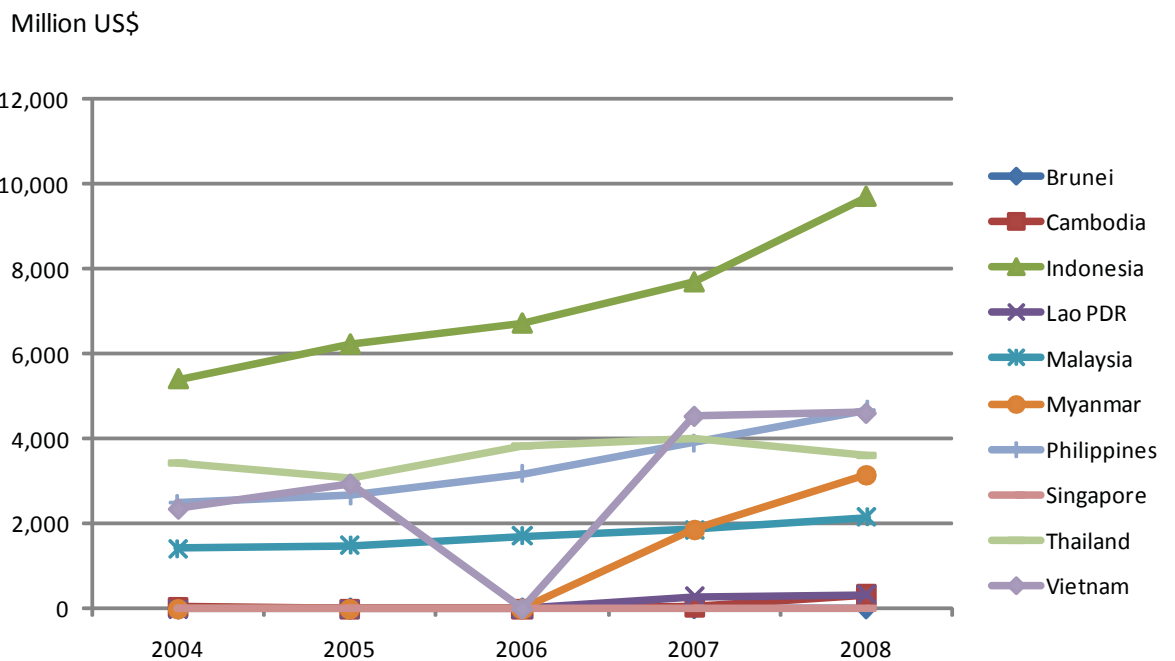


2. Fishery Production by Country 2004-2008

(1) In quantity

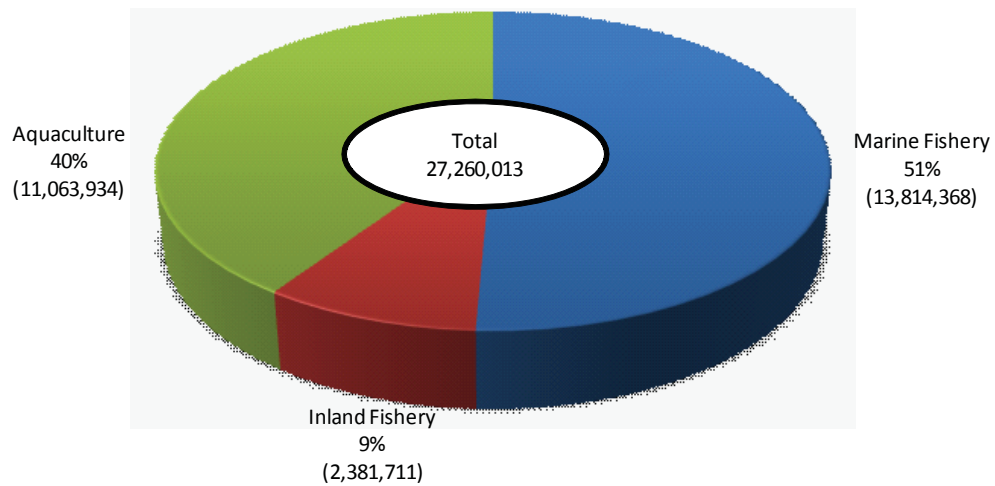


(2) In value

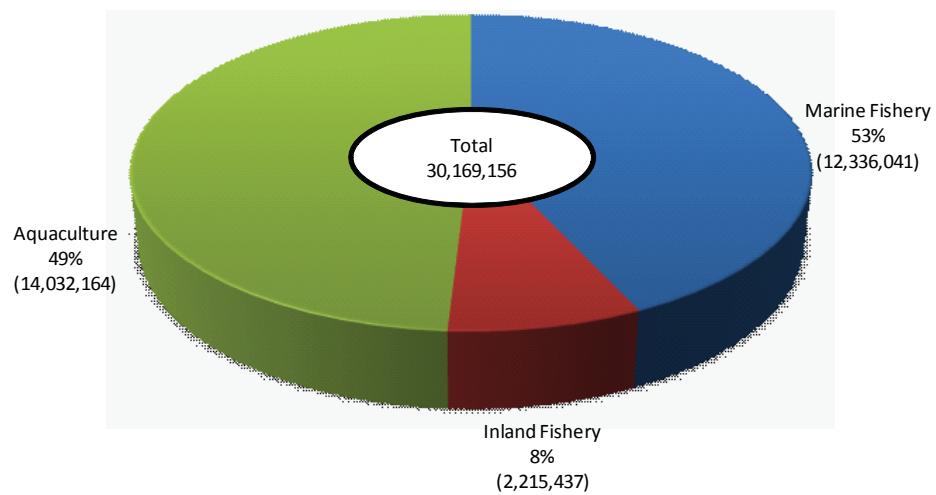


3. Fishery Production by Sub-sector : 2008

(1) In quantity (MT)



(2) In value (US\$ 1,000)



4. Production by Sub-sector and by Country : 2008

(1) In quantity

MT

Country/Territory	Total	Marine Fishery	Inland Fishery	Aquaculture
Total	27,260,013	13,814,368	2,381,711	11,063,934
Brunei	2,747	2,357	...	390
Cambodia	536,320	66,000	430,600	39,720
Indonesia	9,054,873	4,701,933	301,588	3,855,200
Lao PDR	145,687	...	81,387	64,300
Malaysia	1,639,008	1,394,531	4,353	240,133
Myanmar	3,147,605	1,679,010	814,740	653,855
Philippines	4,964,703	2,377,514	179,491	2,407,698
Singapore	5,141	1,623	...	3,518
Thailand	3,204,200	1,644,800	228,600	1,330,800
Vietnam	4,559,720	1,946,600	144,800	2,468,320

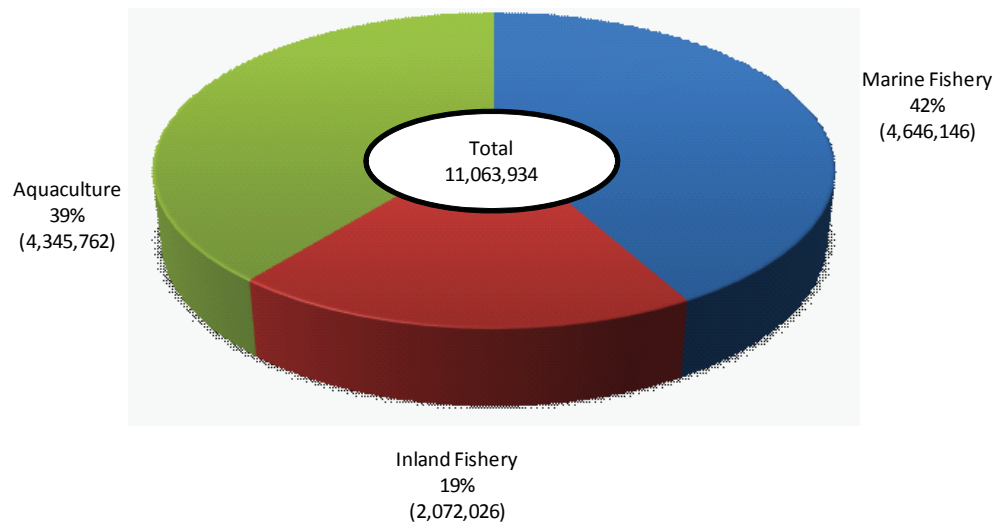
(2) In value

US\$ 1000

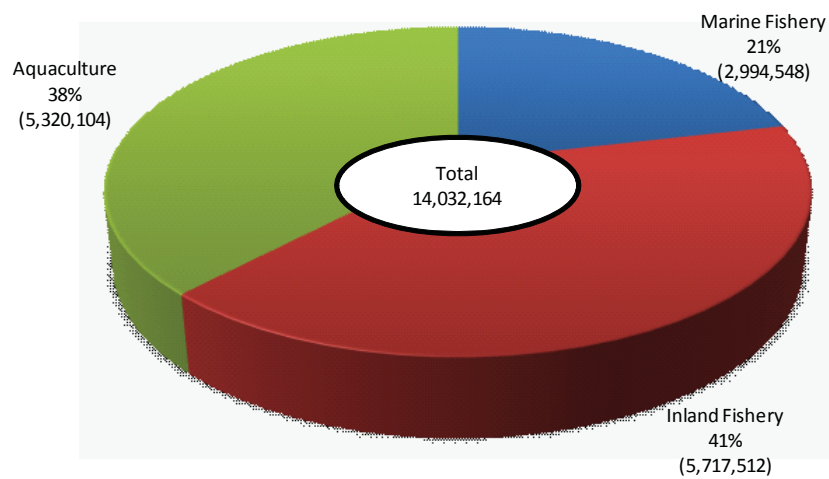
Country/Territory	Total	Marine Fishery	Inland Fishery	Aquaculture
Total	28,583,642	12,336,041	2,215,437	14,032,164
Brunei	7,303	6,911	...	392
Cambodia	317,290	...	255,500	61,790
Indonesia	9,700,810	4,957,293	521,019	4,222,498
Lao PDR	331,475	...	240,334	91,141
Malaysia	2,163,885	1,690,715	10,290	462,880
Myanmar	3,156,405	1,585,514	788,325	782,566
Philippines	4,675,417	2,810,871	145,912	1,718,634
Singapore	17,822	8,560	...	9,262
Thailand	3,595,535	1,276,177	254,057	2,065,301
Vietnam	4,617,700	...	...	4,617,700

5. Aquaculture by Sub-sector : 2008

(1) In quantity (MT)



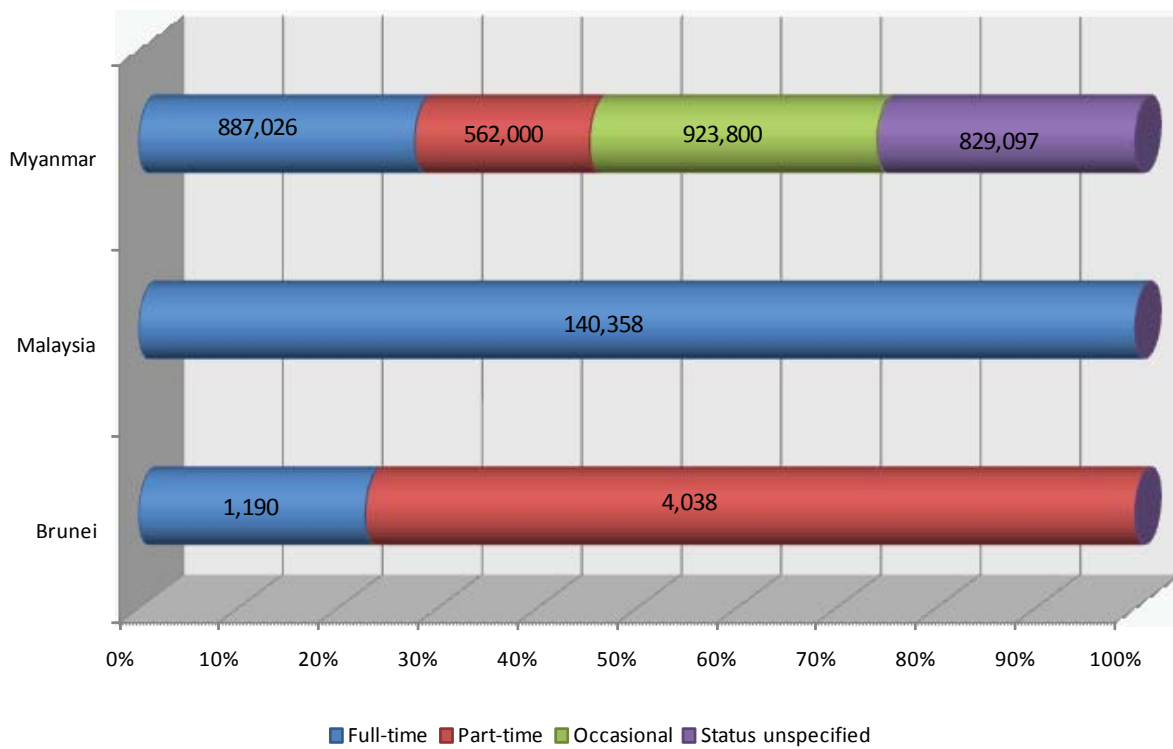
(2) In value (US\$ 1,000)



6. Number of Fishing Boats by Type (Marine fishery only)

Country/ Territory	Year	Total	Non-powered boat	Out-board powered boat	In-board powered boat
Brunei	2008	3,184	305	2,841	38
Indonesia	2008	604,847	252,515	214,094	138,238
Malaysia	2008	40,959	2,992	20,227	17,740
Myanmar	2008	31,371	15,219	14,289	1,863
Singapore	2008	142	...	130	12
Thailand	2008	12,920	...	...	12,920
Vietnam	2008	22,529	...	...	...

7. Number of Fishermen by Working Status



8. Major 20 Marine Species Caught in the Region : 2004

(1) In quantity (MT)

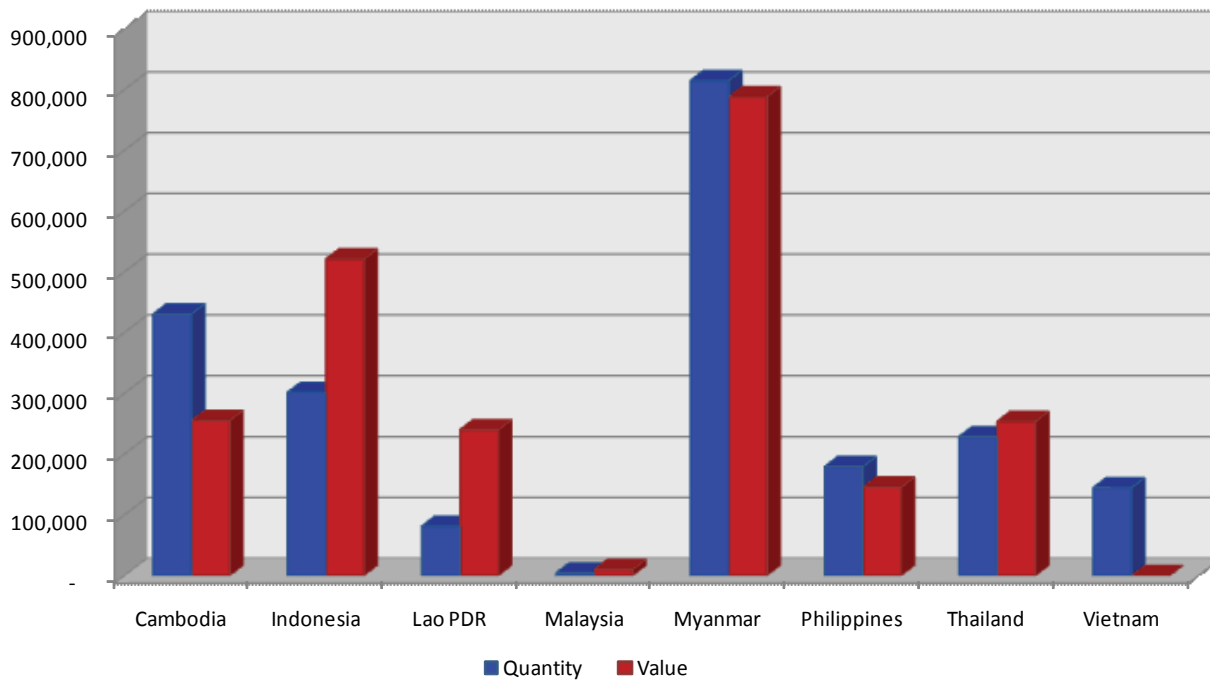
Country Species	Total	Ratio (%)	Brunei	Cambodia	Indonesia	Malaysia	Philippines	Singapore	Thailand	Vietnam
1.Misc.fish	3,086,035	22.3	445	47,450	469,361	413,932	150,467	350	549,230	1,454,800
2.Scad nei	564,722	4.1	...	...	266,787	...	297,892	43	...	...
3.Skipjack tuna	471,902	3.4	114	...	243,638	...	222,010	2	6,138	...
4.Sardinellas nei	448,342	3.2	284	...	...	...	369,199	...	78,859	...
5.Cephalopods nei	230,630	1.7	...	2,930	...	...	...	...	...	227,700
6.Yellowfin tuna	229,986	1.7	31	...	61,544	...	168,411	...	...	...
7.Frigate tuna	225,895	1.6	...	...	69,554	...	156,341	...	...	...
8.Natantia decapods nei	203,687	1.5	...	11,040	64,977	25,238	...	132	...	102,300
9.Stolephorus anchovies	202,341	1.5	...	...	118,670	10,436	73,235	...	...	...
10.Common squids nei	194,685	1.4	43	...	45,236	34,405	57,223	12	57,766	...
11.Short mackerel	192,630	1.4	...	...	141,644	...	50,986	...	...	...
12.Other mackerels	166,894	1.2	...	...	...	139,597	...	...	27,297	...
13.Kawakawa	162,779	1.2	18	...	73,339	19,383	54,907	...	15,132	...
14.Bigeye scad	158,790	1.1	...	...	6,326	40,517	97,149	...	14,798	...
15.Jellyfish	147,622	1.1	...	...	32	481	...	...	147,109	...
16.Threadfin breams nei	139,077	1.0	...	...	36,536	26,047	51,432	38	25,024	...
17.Indian mackerel	122,065	0.9	147	...	15,432	...	91,272	...	15,214	...
18.Narrow-barred mackerel	120,367	0.9	19	...	101,343	...	19,005	...	...	...
19.Anchovies nei	119,964	0.9	...	...	...	...	...	...	119,964	...
20.Bali sardinella	119,457	0.9	...	...	119,457	...	...	...	...	...

(2) In value (US\$ 1,000)

Country Species	Total	Ratio (%)	Brunei	Indonesia	Malaysia	Myanmar	Philippines	Singapore	Thailand
1.Misc.fish	2,349,569	19	1,678	299,468	78,706	1,585,514	311,346	2,052	70,805
2.Skipjack tuna	522,550	4.2	299	215,447	...	...	296,509	5	10,294
3.Scad nei	480,376	3.9	...	165,073	...	...	315,179	124	...
4.Common squids nei	391,747	3.2	140	73,505	80,218	...	92,566	55	145,263
5.Yellowfin tuna	377,132	3.1	60	84,965	...	...	292,107	...	...
6.Frigate tuna	245,320	2.0	...	56,499	...	...	188,821	...	...
7.Sardinella nei	245,030	2.0	561	...	...	...	208,562	...	35,907
8.Natantis decapods nei	243,043	2.0	...	141,582	100,377	...	...	1,084	...
9.Longtail tuna	226,397	1.8	...	33,674	178,000	...	...	...	14,723
10.Banana prawn	224,437	1.8	...	158,901	...	...	...	...	65,536
11.Narrow-barred mackerel	205,999	1.7	74	166,352	...	...	39,573	...	...
12.Stolephorus anchovies	203,483	1.6	...	126,149	11,412	...	65,922	...	...
13.Short mackerel	203,153	1.6	...	141,149	...	...	62,005	...	...
14.Blue swimming crab	201,048	1.6	4	60,101	...	...	67,888	...	73,055
15.Bigeys scad	193,633	1.6	...	4,317	52,798	...	124,488	...	12,030
16.Threadfin breams nei	191,487	1.5	1	32,041	40,099	...	80,322	204	38,820
17.Other mackerels	174,703	1.4	...	...	174,703	...	...	...	...
18.Kawakawa	173,827	1.4	36	72,490	24,107	...	60,664	...	16,530
19.Indian mackerel	154,244	1.2	482	13,252	...	...	112,728	...	27,782
20.Snapper nei	148,154	1.2	191	139,701	7,722	...	...	540	...

9. Inland Fishery Production in Quantity and Value by Country

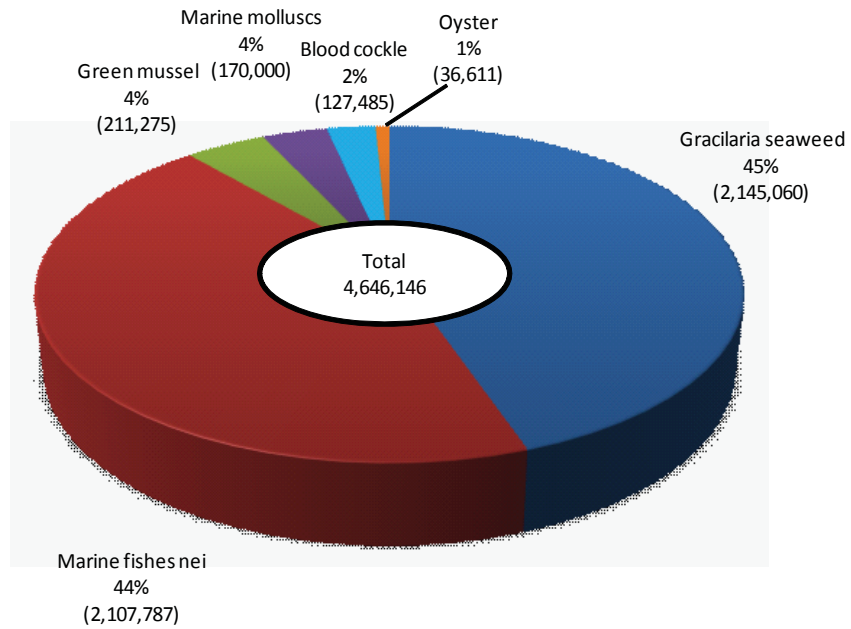
Quantity : MT
Value : US\$ 1,000



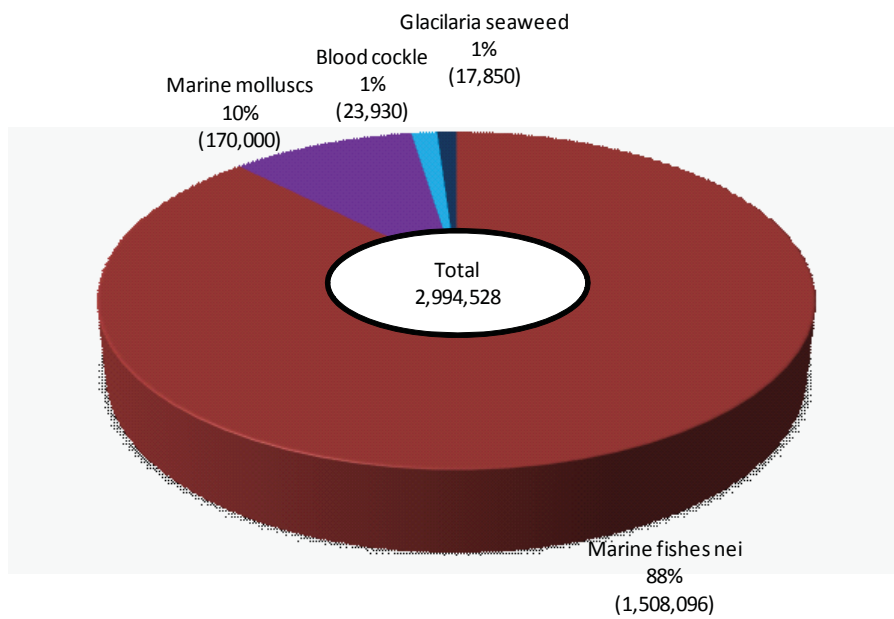
10. Aquaculture

10.1 Mariculture Production : 2008

(1) In quantity (MT)

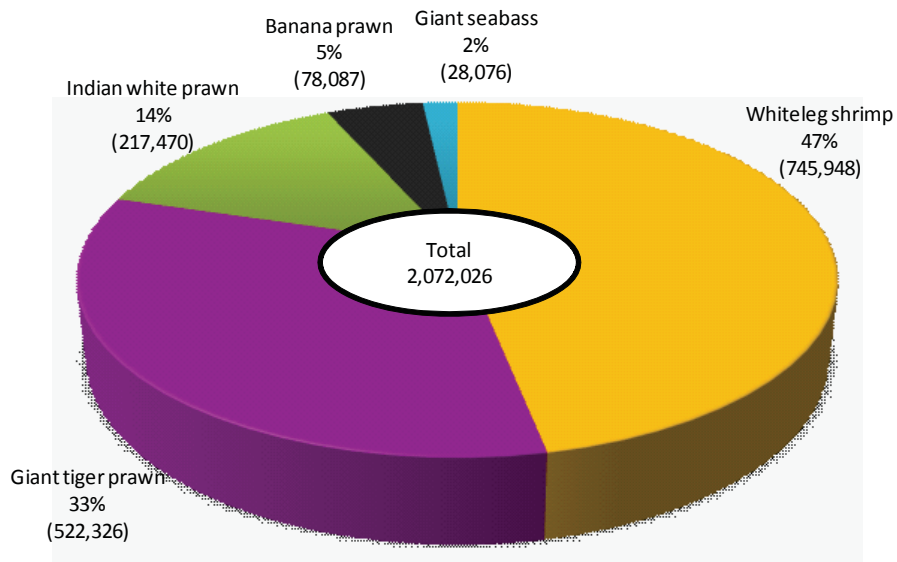


(2) In value (US\$ 1,000)

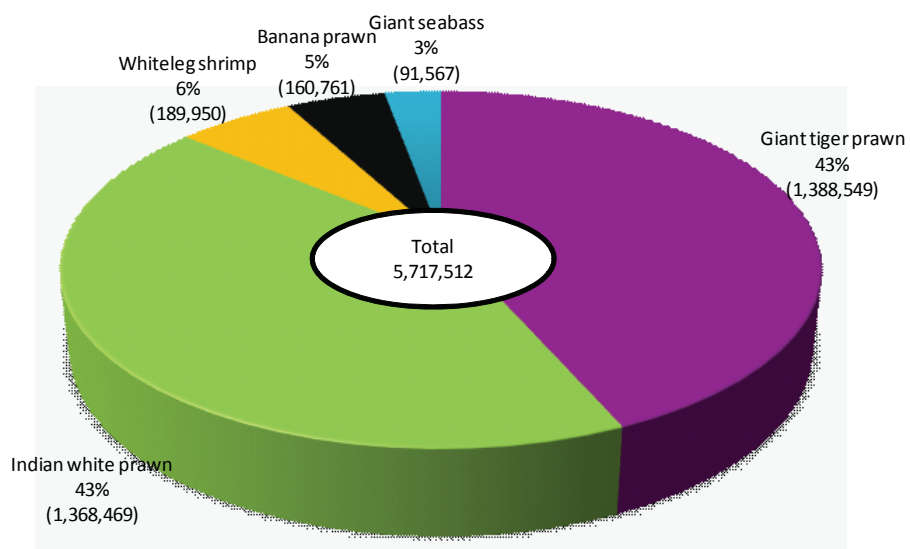


10.2 Brackishwater Production : 2008

(1) In quantity (MT)

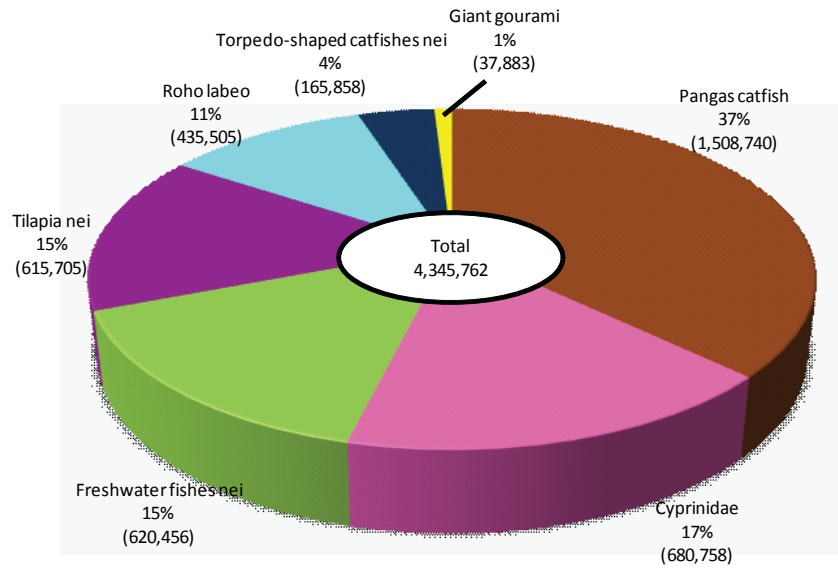


(2) In value (US\$ 1,000)

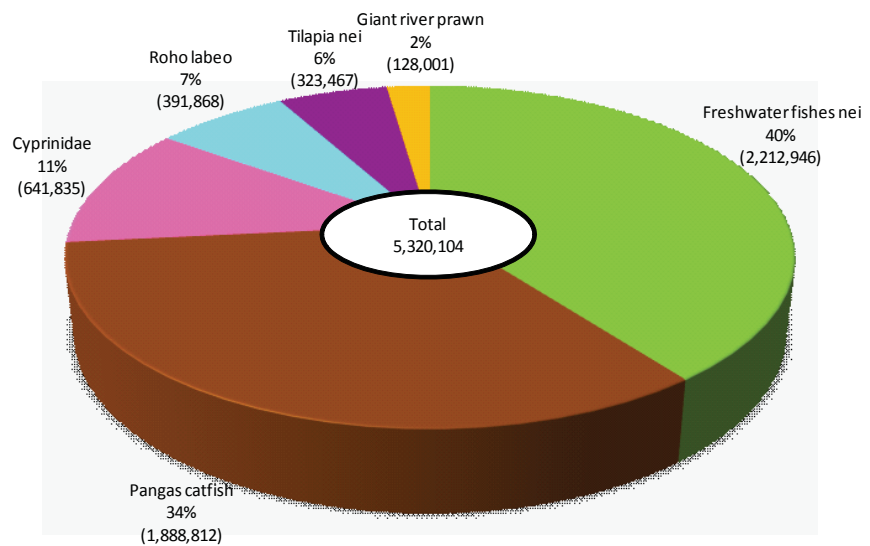


10.3 Freshwater Culture Production : 2008

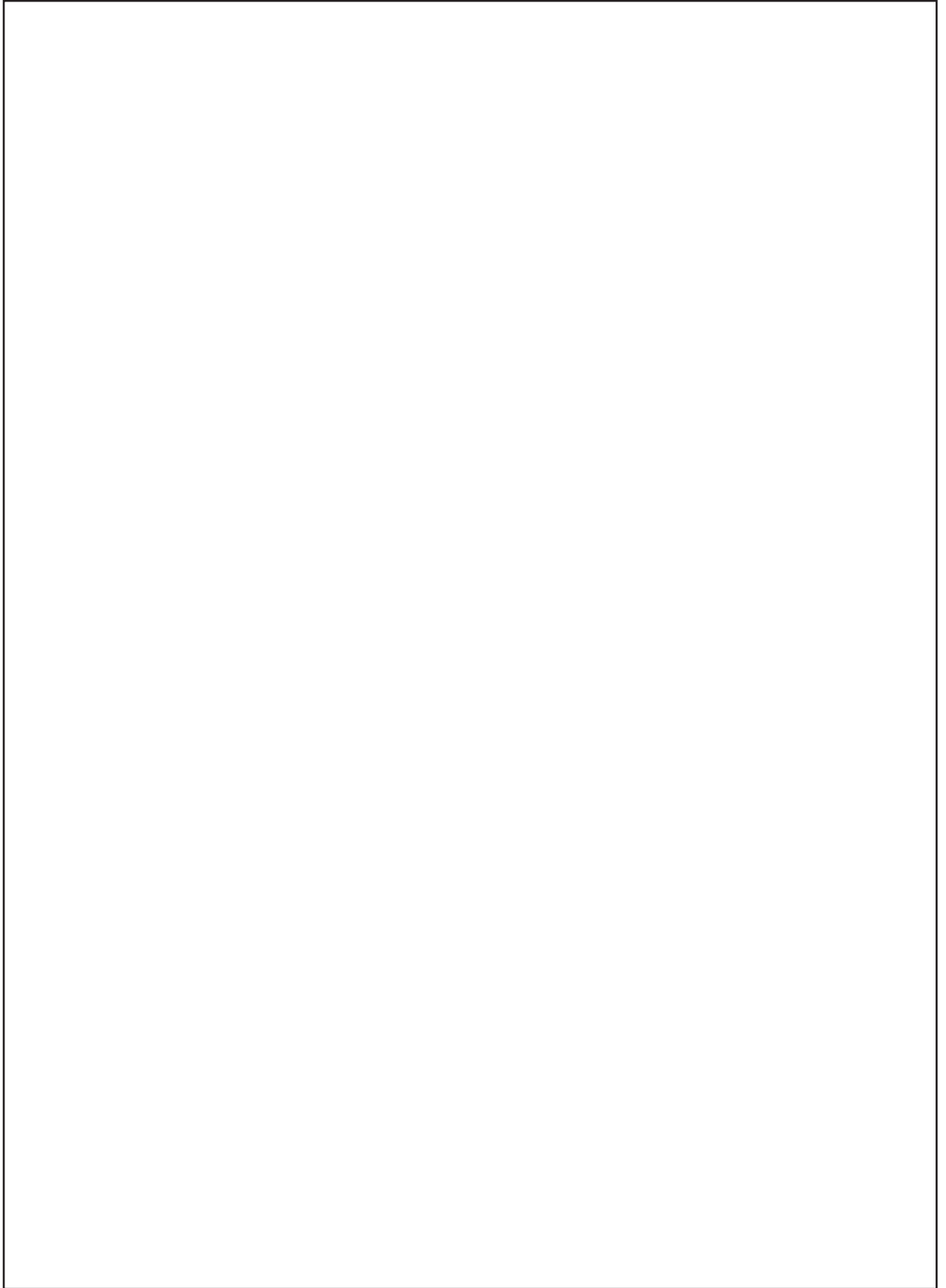
(1) In quantity (MT)



(2) In value (US\$ 1,000)



STATISTICAL TABLES 2008



1. ANNUAL SERIES OF FISHERY PRODUCTION

1.1 Total Production

1.1.1 In Quantity

		MT				
Country		2004	2005	2006	2007	2008
Total	0	21,053,665	22,879,984	24,394,078	25,211,212	27,260,013
Brunei	1	3,133	3,103	3,100	3,227	2,747
Cambodia	2	343,492	546,000	661,542	525,100	536,320
Indonesia	3	6,005,622	6,646,965	7,183,586	7,510,767	9,054,873
Lao PDR	4	94,700	107,800	107,800	143,847	145,687
Malaysia	5	1,537,990	1,402,404	1,596,051	1,654,221	1,639,017
Myanmar	6	2,148,580	2,581,780	2,817,990	2,808,037	3,147,605
Philippines	7	3,926,173	4,161,869	4,412,158	4,710,952	4,964,703
Singapore	8	7,579	7,837	11,675	8,026	5,141
Thailand	9	4,137,066	4,132,826	4,051,824	3,675,382	3,204,200
Vietnam A	10	2,944,030	3,397,200	3,656,152	4,315,500	4,559,720

Notes: A Figures from FAO Database of Fishery Statistics, 2008

1.1.2 In Value

		US\$ 1,000				
Country		2004	2005	2006	2007	2008
Total	0	15,148,492	16,416,959	15,466,120	23,937,795	28,583,642
Brunei	1	3,093	...	...	11,464	7,303
Cambodia	2	42,165	...	...	58,038	317,290
Indonesia	3	5,400,146	6,218,941	6,712,275	7,683,427	9,700,810
Lao PDR	4	...	...	...	296,962	331,475
Malaysia	5	1,419,854	1,497,406	1,706,864	1,855,326	2,163,885
Myanmar	6	...	...	...	1,862,403	3,156,405
Philippines	7	2,477,630	2,657,342	3,184,066	3,912,137	4,675,417
Singapore	8	14,793	16,071	20,945	23,319	17,822
Thailand	9	3,433,830	3,081,549	3,841,970	3,986,931	3,595,535
Vietnam A	10	2,356,981	2,945,650	...	4,544,750	4,617,700

Notes: A Figures from FAO Database of Fishery Statistics, 2008

1.2 Marine Fishery Production

1.2.1 In Quantity

		MT				
Country		2004	2005	2006	2007	2008
Total	0	13,380,841	13,586,961	13,938,748	14,056,985	13,814,368
Brunei	1	2,425	2,390	2,390	2,553	2,357
Cambodia	2	55,817	60,000	60,500	54,900	66,000
Indonesia	3	4,320,241	4,408,499	4,512,191	4,734,280	4,701,933
Lao PDR	4	...	...	...	...	...
Malaysia	5	1,331,645	1,209,601	1,379,859	1,381,424	1,394,531
Myanmar	6	1,220,030	1,375,670	1,525,000	1,485,740	1,679,010
Philippines	7	2,067,128	2,122,216	2,154,802	2,327,815	2,377,514
Singapore	8	2,173	1,920	3,103	3,522	1,623
Thailand	9	2,635,969	2,615,565	2,484,803	2,079,351	1,644,800
Vietnam A	10	1,745,413	1,791,100	1,816,100	1,987,400	1,946,600

Notes: A Figures from FAO Database of Fishery Statistics, 2008

1.2.2 In Value

		US\$ 1,000				
Country		2004	2005	2006	2007	2008
Total	0	7,404,747	8,093,827	9,091,274	10,421,046	12,336,041
Brunei	1	...	...	...	8,252	6,911
Cambodia	2	...	...	...	...	...
Indonesia	3	3,164,160	3,726,394	4,106,402	4,867,641	4,957,293
Lao PDR	4	...	...	...	...	...
Malaysia	5	1,102,293	1,147,093	1,346,434	1,493,332	1,690,715
Myanmar	6	...	...	...	...	1,585,514
Philippines	7	1,597,362	1,680,729	1,997,578	2,451,954	2,810,871
Singapore	8	6,269	6,100	11,468	14,269	8,560
Thailand	9	1,534,663	1,533,511	1,629,392	1,585,599	1,276,177
Vietnam A	10	...	...	...	...	...

Notes: A Figures from FAO Database of Fishery Statistics, 2008

1.3 Inland Fishery Production

1.3.1 In Quantity

		MT				
Country		2004	2005	2006	2007	2008
Total	0	1,429,167	1,858,489	2,107,143	1,979,891	2,381,711
Brunei	1	...	10	10	...	...
Cambodia	2	250,000	444,000	559,642	420,000	430,600
Indonesia	3	330,880	297,370	293,921	310,457	497,740
Lao PDR	4	29,800	29,800	29,800	80,597	81,387
Malaysia	5	4,119	4,583	4,164	4,283	4,353
Myanmar	6	502,550	631,120	718,000	717,640	814,740
Philippines	7	142,018	143,806	165,081	168,311	179,491
Singapore	8	...	...	...	...	...
Thailand	9	199,600	198,800	214,000	225,600	228,600
Vietnam A	10	...	138,800	152,325	133,600	144,800

Notes: A Figures from FAO Database of Fishery Statistics, 2008

1.3.2 In Value

		US\$ 1,000				
Country		2004	2005	2006	2007	2008
Total	0	541,901	611,950	596,877	769,464	2,215,437
Brunei	1	...	...	...	...	...
Cambodia	2	...	...	...	...	255,500
Indonesia	3	268,990	323,827	264,372	368,247	521,019
Lao PDR	4	...	...	...	215,708	240,334
Malaysia	5	7,811	9,187	8,455	9,013	10,290
Myanmar	6	...	...	...	...	788,325
Philippines	7	80,442	84,077	101,477	125,464	145,912
Singapore	8	...	...	...	...	...
Thailand	9	184,658	194,859	222,573	266,740	254,057
Vietnam A	10	...	...	...	...	...

Notes: A Figures from FAO Database of Fishery Statistics, 2008

1.4 Aquaculture Production

1.4.1 In Quantity

		MT				
Country		2004	2005	2006	2007	2008
Total	0	6,243,657	7,434,534	8,348,187	9,174,336	11,063,934
Brunei	1	708	703	700	674	390
Cambodia	2	37,675	42,000	41,400	50,200	39,720
Indonesia	3	1,354,501	1,941,096	2,377,474	2,466,030	3,855,200
Lao PDR	4	64,900	78,000	78,000	63,250	64,300
Malaysia	5	202,226	188,220	212,028	268,514	240,133
Myanmar	6	426,000	574,990	574,990	604,657	653,855
Philippines	7	1,717,027	1,895,847	2,092,275	2,214,826	2,407,698
Singapore	8	5,406	5,917	8,572	4,504	3,518
Thailand	9	1,301,497	1,318,461	1,353,021	1,370,431	1,330,800
Vietnam A	10	1,198,617	1,467,300	1,687,727	2,194,500	2,468,320

Notes: A Figures from FAO Yearbook of Fishery Statistics, 2008

1.4.2 In Value

		US\$ 1,000				
Country		2004	2005	2006	2007	2008
Total	0	7,201,844	7,711,182	5,777,969	12,747,286	14,032,164
Brunei	1	3,093	...	...	3,212	392
Cambodia	2	42,165	...	...	58,038	61,790
Indonesia	3	1,966,996	2,168,720	2,341,501	2,447,539	4,222,498
Lao PDR	4	...	...	...	81,255	91,141
Malaysia	5	309,750	341,126	351,975	352,981	462,880
Myanmar	6	...	...	...	1,862,403	782,566
Philippines	7	799,826	892,536	1,085,011	1,334,719	1,718,634
Singapore	8	8,524	9,971	9,477	9,052	9,262
Thailand	9	1,714,509	1,353,179	1,990,005	2,134,592	2,065,301
Vietnam A	10	2,356,981	2,945,650	...	4,544,750	4,617,700

Notes: A Figures from FAO Database of Fishery Statistics, 2008

2. FISHERY PRODUCTION BY SUB-SECTOR

2.1 In Quantity

MT

Country	Year	Total	Marine fishery (capture only)			
			Sub-total	Small-scale Fishery	Large-scale Fishery	
Total	0	2008	27,260,013	13,814,368	275,567	1,121,321
Brunei	1	2008	2,747	2,357	219	2,138
Cambodia	2	2008	536,320	66,000	...	...
Indonesia	3	2008	9,054,873	4,701,933	...	...
Lao PDR	4	2008	145,687	...	...	...
Malaysia	5	2008	1,639,008	1,394,531	275,348	1,119,183
Myanmar	6	2008	3,147,605	1,679,010	...	...
Philippines	7	2008	4,964,703	2,377,514	...	...
Singapore	8	2008	5,141	1,623	...	...
Thailand	9	2008	3,204,200	1,644,800	...	...
Vietnam A	10	2008	4,559,720	1,946,600	...	...

Notes: A Figures from FAO Database of Fishery Statistics, 2008

2.1 In Quantity (Cont'd)

MT

Country, Sub-area	Inland fishery (capture only)	Aquaculture				
		Sub-total	Mari-culture	Brackish-water culture	Fresh-water culture	
Total	0	2,381,711	11,063,934	4,646,146	2,072,026	4,345,762
Brunei	1	...	390	390	...	...
Cambodia	2	430,600	39,720	1,370	...	38,350
Indonesia	3	301,588	3,855,200	2,377,382	691,432	786,386
Lao PDR	4	81,387	64,300	...	...	64,300
Malaysia	5	4,353	240,133	70,407	73,694	96,032
Myanmar	6	814,740	653,855	48,303	...	605,552
Philippines	7	179,491	2,407,698	2,096,639	...	311,059
Singapore	8	...	3,518	3,235	...	283
Thailand	9	228,600	1,330,800	...	805,300	525,500
Vietnam A	10	144,800	2,468,320	48,420	501,600	1,918,300

Notes: A Figures from FAO Database of Fishery Statistics, 2008

2.2 In Value

US\$ 1,000

Country, Sub-area	Year	Total	Marine fishery (capture only)			
			Sub-total	Small-scale Fishery	Large-scale Fishery	
Total	0	2008	28,583,642	12,336,041	642	6,269
Brunei	1	2008	7,303	6,911	642	6,269
Cambodia	2	2008	317,290	...	...	...
Indonesia	3	2008	9,700,810	4,957,293	...	...
Lao PDR	4	2008	331,475	...	...	...
Malaysia	5	2008	2,163,885	1,690,715	...	...
Myanmar	6	2008	3,156,405	1,585,514	...	...
Philippines	7	2008	4,675,417	2,810,871	...	...
Singapore	8	2008	17,822	8,560	...	...
Thailand	9	2008	3,595,535	1,276,177	...	...
Vietnam A	10	2008	4,617,700	...	...	...

Notes: A Figures from FAO Database of Fishery Statistics, 2008

2.2 In Value (cont'd)

US\$ 1,000

Country, Sub-area	Inland fishery (capture only)	Aquaculture				
		Sub-total	Mari-culture	Brackish-water culture	Fresh-water culture	
Total	0	2,215,437	14,032,164	2,994,548	3,473,549	4,716,200
Brunei	1	...	392	392	...	...
Cambodia	2	255,500	61,790	3,890	375	57,525
Indonesia	3	521,019	4,222,498	983,185	1,840,902	1,398,411
Lao PDR	4	240,334	91,141	...	...	91,141
Malaysia	5	10,290	462,880	4,974	333,749	124,157
Myanmar	6	788,325	782,566	...	641,278	141,288
Philippines	7	145,912	1,718,634	500,275	831,073	387,286
Singapore	8	...	9,262	8,082	...	1,180
Thailand	9	254,057	2,065,301	...	1,602,685	462,616
Vietnam A	10	...	4,617,700	1,493,750	467,450	2,656,500

Notes: A Figures from FAO Database of Fishery Statistics, 2008



3. MARINE FISHERY STATISTIC						
3.1 Number of Fishing Boats by Type and Tonnage						
Country, Sub-area		Year	Total	Non-powered boat	Sub-total	Out-board powered boat
Brunei	1	2008	3,184	305	2,879	2,841
Muara	2	2008	1,995	112	1,883	1,845
Belait/ Seria	3	2008	459	126	333	333
Tutong	4	2008	353	37	316	316
Temburong	5	2008	377	30	347	347
Cambodia	6	2008	...	...	...	...
Indonesia	7	2008	604,847	252,515	352,332	214,094
West Sumatra	8	2008	45,717	24,984	20,733	12,162
South Jawa	9	2008	23,151	5,671	17,480	13,284
Malaka Strait	10	2008	35,681	9,567	26,114	2,177
East Sumatra	11	2008	60,636	21,636	39,000	11,376
North Jawa	12	2008	81,202	8,014	73,188	60,269
Bali, Nusatenggara, Timor	13	2008	67,028	35,457	31,571	23,584
South/West Kalimantan	14	2008	29,457	9,969	19,488	6,688
East Kalimantan	15	2008	38,557	7,367	31,190	11,945
South Sulawesi	16	2008	79,974	33,419	46,555	30,851
North Sulawesi	17	2008	52,682	22,971	29,711	28,381
Maluku - Papua	18	2008	90,762	73,460	17,302	13,377
Lao PDR	19	2008	...	...	...	...
Malaysia	20	2008	40,959	2,992	37,967	20,227
West Coast of Peninsular	21	2008	17,990	98	17,892	10,027
East Coast of Peninsular	22	2008	7,486	2	7,484	3,220
Sabah	23	2008	10,978	2,886	8,092	5,234
Sarawak	24	2008	4,199	6	4,193	1,461
Labuan	25	2008	306	...	306	285
Myanmar	26	2008	31,371	15,219	16,152	14,289
Philippines	27	2008	...	...	...	...
Singapore	28	2008	142	...	142	130
Thailand	29	2008	12,920	...	12,920	...
Gulf of Thailand	30	2008	11,028	...	11,028	...
Indian Ocean	31	2008	1,892	...	1,892	...
Vietnam A	32	2008	22,529	...	...	...

Notes: A Figures from General Statistics Office of Vietnam Website

3.2.3 Malaysia (2008)

Type of Fishing Gear	Total	Non-powered boat	Out-board powered boat	In-board powered boat						
				Sub-total	Less than 5 tons	5-9.9 tons	10-19.9 tons	20-49.9 tons	50-99.9 tons	
All Purse Seines	1	1,265	...	4	1,261	28	58	108	209	858
Anchovy Purse Seine	2	110	...	...	110	...	5	23	5	77
Fish Purse Seine	3	1,155	...	4	1,151	28	53	85	204	781
All Seine Nets	4	711	4	69	638	38	593	6	1	...
Boat Seines	5	...	...	...	...	...	...	...	...	...
Beach Seines	6	...	...	...	...	...	...	...	...	...
All Trawls	7	6,090	...	...	6,090	80	344	1,426	2,359	1,881
Beam Trawl	8	...	...	...	...	...	...	...	...	...
Otter Board Trawl	9	...	...	...	...	...	...	...	...	...
Pair Trawl	10	...	...	...	...	...	...	...	...	...
Lift Nets	11	373	282	55	34	1	18	14	1	2
All Falling Nets	12	...	...	...	...	...	...	...	...	...
Anchovy Falling Net	13	...	...	...	...	...	...	...	...	...
Squid Falling Net	14	...	...	...	...	...	...	...	...	...
Gill Nets	15	24,160	1,355	16,562	6,243	2,043	2,804	1,117	221	58
All Traps	16	955	261	365	329	54	82	138	43	12
Stationary Trap	17	200	45	123	32	27	5	...	...	...
Portable Trap	18	755	216	242	297	27	77	138	43	12
Hooks & Limes	19	4,478	628	2,037	1,813	503	576	492	133	109
Push/Scoop Nets	20	13	1	...	12	...	4	8	...	...
Shellfish & seaweed collecting gear	21	321	106	75	140	68	52	13	7	...
Others	22	2,593	595	820	1,178	260	505	179	231	1

3.2.4 Myanmar (2008)

Type of Fishing Gear	Total	Non-powered boat	Out-board powered boat	In-board powered boat						
				Sub-total	5-9.9 tons	10-19.9 tons	20-49.9 tons	50-99.9 tons	100-199.9 tons	
All Purse Seines	1	1,404	152	1,100	152	...	...	9	65	77
Anchovy Purse Seine	2	45	...	45	...	...	...	...	...	...
Fish Purse Seine	3	1,359	152	1,207	152	...	...	9	65	77
All Seine Nets	4	4,716	4,466	250	...	...	...	...	...	...
Boat Seines	5	...	...	...	...	...	...	...	...	...
Beach Seines	6	...	...	...	...	...	...	...	...	...
All Trawls	7	770	...	...	770	...	3	91	307	368
Beam Trawl	8	...	...	...	...	...	...	...	...	...
Otter Board Trawl	9	770	...	...	770	...	3	91	307	368
Pair Trawl	10	...	...	...	...	...	...	...	...	...
Lift Nets	11	444	354	90	...	...	...	...	...	...
All Falling Nets	12	19	...	...	19	...	5	13	1	...
Anchovy Falling Net	13	...	...	...	...	...	...	...	...	...
Squid Falling Net	14	19	...	...	19	...	5	13	1	...
Gill Nets	15	10,876	2,327	8,301	248	31	154	59	2	2
All Traps	16	10,156	7,513	2,643	...	...	...	...	...	...
Stationary Trap	17	3,836	2,993	843	...	...	...	...	...	...
Portable Trap	18	6,320	4,520	1,800	...	...	...	...	...	...
Hooks & Limes	19	1	...	...	1	...	1	...	...	...
Push/Scoop Nets	20	1,915	407	986	522	24	85	246	97	70
Shellfish & seaweed collecting gear	21	212	...	212	...	...	...	...	...	...
Others	22	858	...	707	151	...	3	68	74	5

3.2.6 Thailand (2008)

Type of Fishing Gear	Total	In-board powered boat								
		Sub-total	Less than 5 tons	5-9.9 tons	10-19.9 tons	20-49.9 tons	50-99.9 tons	100-199.9 tons	200-499.9 tons	
All Purse Seines	1	1,473	1,473	24	93	126	388	647	191	4
Anchovy Purse Seine	2	292	292	7	51	54	76	93	11	...
Fish Purse Seine	3	1,181	1,181	17	42	72	312	554	180	4
All Seine Nets	4	...	...	...	...	...	...	...	...	...
Boat Seines	5	...	...	...	...	...	...	...	...	...
Beach Seines	6	...	...	...	...	...	...	...	...	...
All Trawls	7	4,367	4,367	161	396	806	1,774	1,120	104	6
Beam Trawl	8	81	81	6	11	33	30	...	1	...
Otter Board Trawl	9	2,787	2,787	135	329	594	1,119	570	37	3
Pair Trawl	10	1,145	1,145	...	2	61	491	523	65	3
Lift Nets	11	354	354	20	54	118	134	27	1	...
All Falling Nets	12	6,635	6,635	2,922	761	1,273	1,286	333	56	4
Anchovy Falling Net	13	771	771	66	128	287	258	32	...	...
Squid Falling Net	14	2,353	2,353	458	391	727	658	111	8	...
Gill Nets	15	3,511	3,511	2,398	242	259	370	190	48	4
All Traps	16	...	...	...	...	...	...	...	...	...
Stationary Trap	17	...	...	...	...	...	...	...	...	...
Portable Trap	18	...	...	...	...	...	...	...	...	...
Hooks & Limes	19	...	...	...	...	...	...	...	...	...
Push/Scoop Nets	20	383	383	135	105	59	60	24	...	...
Shellfish & seaweed collecting gear	21	...	...	...	...	...	...	...	...	...
Others	22	60	60	13	11	9	17	5	3	2

3.3 Marine Capture Fishery Production by Species and Fishing Area, 2008

3.3.1 In Quantity

				MT	
Scientific Name	FAO English Name	Fishing Area	Brunei	Cambodia	
<i>Anodontostoma chacunda</i>	Chacunda gizzard shad	57	...	...
<i>Anodontostoma chacunda</i>	Chacunda gizzard shad	71	1.5	...	
<i>Tenualosa toli</i>	Toli shad	57	...	...
<i>Tenualosa toli</i>	Toli shad	71	12.5	...	
<i>Pellona ditchela</i>	Indian pellona	57	...	...
<i>Pellona ditchela</i>	Indian pellona	71	1.5	...	
<i>Lates calcarifer</i>	Barramundi (= Giant seaperch)	57	...	...
<i>Lates calcarifer</i>	Barramundi (= Giant seaperch)	71	1.5	...	
<i>Psettodes erumei</i>	Indian halibut	57	...	...
<i>Psettodes erumei</i>	Indian halibut	71	12.5	...	
Pleuronectiformes	Flatfishes nei	57	...	...
Pleuronectiformes	Flatfishes nei	71	...	...
<i>Cynoglossus spp.</i>	Tongue soles nei	57	...	...
<i>Cynoglossus spp.</i>	Tongue soles nei	71	...	...
<i>Harpadon nehereus</i>	Bombay-duck	57	...	...
<i>Harpadon nehereus</i>	Bombay-duck	71	...	...
<i>Saurida tumbil</i>	Greater lizardfish	57	...	...
<i>Saurida tumbil</i>	Greater lizardfish	71	...	...
<i>Saurida spp.</i>	Lizard fishes	57	...	...
<i>Saurida spp.</i>	Lizard fishes	71	6.4	...	
<i>Arius spp.</i>	Sea catfishes	57	...	...
<i>Arius spp.</i>	Sea catfishes	71	12.1	...	
<i>Plotosus spp.</i>	Eeltail catfishes	57	...	...
<i>Plotosus spp.</i>	Eeltail catfishes	71	0.3	...	
Mugilidae	Mulletts nei	57	...	...
Mugilidae	Mulletts nei	71	1.6	...	
<i>Caesio caeruleaurea</i>	Blue and gold fusilier	57	...	...
<i>Caesio caeruleaurea</i>	Blue and gold fusulier	71	...	...
<i>Caesio cunning</i>	Redbelly yellowtail fusilier	57	...	...
<i>Caesio cunning</i>	Redbelly yellowtail fusilier	71	...	...
<i>Caesio spp.</i>	Fusilier	71	0.3	...	
<i>Epinephelus merra</i>	Honeycomb grouper	57	...	...
<i>Epinephelus merra</i>	Honeycomb grouper	71	...	...
<i>Epinephelus tauvina</i>	Greasy grouper	57	...	...
<i>Epinephelus tauvina</i>	Greasy grouper	71	...	...

							MT
Indonesia	Lao PDR	Malaysia	Myanmar	Philippines	Singapore	Thailand	Vietnam A
1,821	...	2,645	...	...	...	...	...
3,705	...	1,479	...	1,150	...	...	...
682
3,959
...	...	9,544	...	...	...	...	...
...	...	6,161	...	1,207	...	...	...
12,328	47	...
64,489	315	...	7	...
15,044	...	160	...	...	...	1,200	...
3,134	...	1,354	...	644	71	1,000	...
2,124	...	1,171	...	...	...	...	...
5,532	...	1,112	...	983	...	...	...
...	...	3,424	...	...	...	...	...
...	...	1,452	...	...	...	...	...
1,309	...	485	...	...	...	...	...
5,060	...	1,906	...	...	...	...	...
5,387
15,008
...	...	10,430	...	...	...	13,232	...
...	...	12,766	...	5,448	3	15,053	...
19,344	...	5,174	...	...	...	2,269	...
78,607	...	9,223	...	5,813	36	1,095	...
...	...	1,183	...	...	...	59	...
...	...	1,114	...	...	...	103	...
16,480	...	1,033	...	...	...	2,967	...
28,405	...	1,787	...	16,525	19	3,560	...
1,937
5,197
7,494
48,546
...	20,834	3	...	...
2,491
4,495
...
...

Notes: A Figures from FAO Database of Fishery Statistics, 2008

3.3 Marine Capture Fishery Production by Species and Fishing Area, 2008

3.3.1 In Quantity (Cont'd)

Scientific Name	FAO English Name	Fishing Area	MT	
			Brunei	Cambodia
<i>Epinephelus spp.</i>	Groupers nei	57	...	...
<i>Epinephelus spp.</i>	Groupers nei	71	15.8	...
<i>Cephalopholis boenak</i>	Chocolate hind	57	...	...
<i>Cephalopholis boenak</i>	Chocolate hind	71	...	...
<i>Cromileptes altivelis</i>	Humpback grouper	57	...	...
<i>Cromileptes altivelis</i>	Humpback grouper	71	...	...
<i>Plectropomus leopardus</i>	Leopard coral grouper	57	...	...
<i>Plectropomus leopardus</i>	Leopard coral grouper	71	...	...
<i>Priacanthus macracanthus</i>	Red bigeye	57	...	...
<i>Priacanthus macracanthus</i>	Red bigeye	71	...	...
<i>Priacanthus spp.</i>	Bigeyes nei	57	...	...
<i>Priacanthus spp.</i>	Bigeyes nei	71	...	...
<i>Sillago sihama</i>	Silver sillago	57	...	...
<i>Sillago sihama</i>	Silver sillago	71	...	...
<i>Sillago spp.</i>	Sillago-whitings	57	...	...
<i>Sillago spp.</i>	Sillago-whitings	71	0.1	...
<i>Mene maculate</i>	Moonfish	71	...	...
Sciaenidae	Croakers, drums nei	57	...	...
Sciaenidae	Croakers, drum nei	71	21.2	...
<i>Lutjanus argentimaculatus</i>	Mangrove red snapper	57	...	...
<i>Lutjanus argentimaculatus</i>	Mangrove red snapper	71	...	...
<i>Lutjanus sebae</i>	Emperor red snapper	71	13.4	...
<i>Lutjanus lutjanus</i>	Bigeye snapper	71	20.1	...
<i>Lutjanus spp.</i>	Snappers nei	57	...	...
<i>Lutjanus spp.</i>	Snappers nei	71	29	...
Lutjanidae	Snappers, jobfishes nei	57	...	...
Lutjanidae	Snappers, jobfishes nei	71	...	...
Serranidae	Groupers, seabasses nei	57	...	...
Serranidae	Groupers, seabasses nei	71	...	...
<i>Pristipomoides spp.</i>	Sharptooth jobfishes	57	...	...
<i>Pristipomoides spp.</i>	Sharptooth jobfishes	71	0.2	...
<i>Nemipterus spp.</i>	Threadfin breams nei	57	...	...
<i>Nemipterus spp.</i>	Threadfin breams nei	71	0.3	...
<i>Scolopsis spp.</i>	Monocole breams	57	...	...
<i>Scolopsis spp.</i>	Monocole breams	71	...	...

							MT
Indonesia	Lao PDR	Malaysia	Myanmar	Philippines	Singapore	Thailand	Vietnam A
...	...	1,361	...	...	...	...	...
...	...	6,543	...	...	51	...	...
12,296
18,587
4,420
1,573
4,889
4,250
89
262
5,050	...	2,502	...	...	...	12,617	...
15,499	...	10,523	...	...	...	19,658	...
8
415
...	...	650	...	...	...	...	...
...	...	1,096	...	16,481	9	...	...
...	17,609	24	...	...
23,875	...	14,847	...	...	...	13,727	...
41,428	...	10,799	...	...	29	13,355	...
...	...	687	...	...	...	...	...
...	...	8,288	...	...	...	...	...
...
...
18,569	...	244	...	...	...	...	...
90,730	...	3,624	...	...	94	...	...
...	...	612	...	...	...	1,524	...
...	...	2,605	...	18,246	23	974	...
...	1,966	...
...	20,563	...	1,829	...
728
923
11,750	...	11,608	...	...	...	15,127	...
36,536	...	26,047	...	51,432	38	25,024	...
...	...	178	...	...	...	...	...
...	...	1,718	...	...	...	...	...

Notes: A Figures from FAO Database of Fishery Statistics, 2008

3.3 Marine Capture Fishery Production by Species and Fishing Area, 2008

3.3.1 In Quantity (Cont'd)

Scientific Name	FAO English Name	Fishing Area	MT	
			Brunei	Cambodia
<i>Leiognathus spp.</i>	Ponyfishes	57	...	...
<i>Leiognathus spp.</i>	Ponyfishes	71	26.7	...
<i>Pristis spp.</i>	Sweetlips	57	...	...
<i>Pristis spp.</i>	Sweetlips	71	...	...
<i>Pomadasys argenteus</i>	Silver grunt	57	...	...
<i>Pomadasys argenteus</i>	Silver grunt	71	...	...
Haemulidae (=Pomodasyidae)	Grunts, sweetlips nei	57	...	...
Haemulidae (=Pomodasyidae)	Grunts, sweetlips nei	71	7.1	...
Lethrinidae	Emperors (=Scavengers) nei	57	...	...
Lethrinidae	Emperors (=Scavengers) nei	71	1	...
Sparidae	Porgies, seabreams nei	71	297	...
<i>Parupeneus indicus</i>	Indian goatfish	57	...	...
<i>Parupeneus indicus</i>	Indian goatfish	71	...	...
<i>Parupeneus spp.</i>	Goatfishes	71	19.9	...
<i>Upeneus sulphureus</i>	Sulphur goatfish	57	...	...
<i>Upeneus sulphureus</i>	Sulphur goatfish	71	...	...
<i>Upeneus vittatus</i>	Yellowstriped goatfish	57	...	...
<i>Upeneus vittatus</i>	Yellowstriped goatfish	71	...	...
<i>Upeneus spp.</i>	Goatfishes	57	...	...
<i>Upeneus spp.</i>	Goatfishes	71	...	...
<i>Gerres spp.</i>	Mojarras nei	57	...	...
<i>Gerres spp.</i>	Mojarras nei	71	...	...
<i>Drepane punctata</i>	Spotted sicklefish	57	...	...
<i>Drepane punctata</i>	Spotted sicklefish	71	...	...
<i>Cheilinius undulatus</i>	Humphead wrasse	57	...	...
<i>Cheilinius undulatus</i>	Humphead wrasse	71	...	...
Labridae	Wrasses, hogfishes, etc. nei	57	...	...
Labridae	Wrasses, hogfishes, etc. nei	71	...	...
<i>Eleutheronema tetradactylum</i>	Four finger threadfin	57	...	...
<i>Eleutheronema tetradactylum</i>	Four finger threadfin	71	...	...
<i>Polynemus spp.</i>	Threadfins	57	...	...
<i>Polynemus spp.</i>	Threadfins	71	12.4	...
Polynemidae	Threadfins, Tasselfishes nei	57	...	...
Polynemidae	Threadfins, Tasselfishes nei	71	...	...

							MT
Indonesia	Lao PDR	Malaysia	Myanmar	Philippines	Singapore	Thailand	Vietnam A
26,853	...	193	...	...	...	...	...
53,372	...	1,935	...	59,053	11	...	...
4,213
2,542
...	...	669	...	...	...	...	...
...	...	1,422	...	...	...	...	...
7,126	...	28	...	...	...	...	...
12,628	...	1,423	...	...	21	...	...
8,760	...	82	...	...	...	...	...
28,993	...	521	...	...	...	...	...
...	16,830	...	...	...
840
3,854
...
4,980
16,250
34,970
76
...	...	9,091	...	...	...	...	...
...	...	9,573	...	...	...	...	...
...	...	105	...	...	...	...	...
...	...	1,071	...	7,259	...	...	...
...	...	173	...	...	...	...	...
...	...	1,134	...	95	...	...	...
620
3,616
...	...	15	...	...	...	...	...
...	...	630	...	14,019	...	...	...
381
8,572
13,176	...	1,775	...	...	...	...	...
25,729	...	2,890	...	3,774	32	...	...
...	51	...
...	240	...

Notes: A Figures from FAO Database of Fishery Statistics, 2008

3.3 Marine Capture Fishery Production by Species and Fishing Area, 2008

3.3.1 In Quantity (Cont'd)

Scientific Name	FAO English Name	Fishing Area	MT	
			Brunei	Cambodia
<i>Siganus spp.</i>	Spinefeet nei	57	...	...
<i>Siganus spp.</i>	Spinefeet nei	71	2.1	...
<i>Megalops cyprinoides</i>	Indo-Pacific tarpon	57	...	...
<i>Megalops cyprinoides</i>	Indo-Pacific tarpon	71	...	...
<i>Terapon spp.</i>	Terapon perches nei	57	...	...
<i>Terapon spp.</i>	Terapon perches nei	71	...	...
<i>Platax spp.</i>	Batfishes	71	...	...
<i>Muraenesox cinereus</i>	Daggertooth pike conger	57	...	...
<i>Muraenesox cinereus</i>	Daggertooth pike conger	71	0.2	...
<i>Trichiurus lepturus</i>	Largehead hairtail	57	...	...
<i>Trichiurus lepturus</i>	Largehead hairtail	71	...	...
<i>Trichiurus spp.</i>	Hairtail nei	57	...	...
<i>Trichiurus spp.</i>	Hairtail nei	71	7.5	...
<i>Amblygaster sirm</i>	Spotted sardinella	57	...	...
<i>Amblygaster sirm</i>	Spotted sardinella	71	...	...
<i>Sardinella gibbosa</i>	Goldstripe sardinella	57	...	...
<i>Sardinella gibbosa</i>	Goldstripe sardinella	71	...	...
<i>Sardinella lemuru</i>	Bali sardinella	57	...	...
<i>Sardinella lemuru</i>	Bali sardinella	71	...	...
<i>Sardinella spp.</i>	Sardinellas nei	57	...	...
<i>Sardinella spp.</i>	Sardinellas nei	71	284	...
<i>Dussunieria acuta</i>	Rainbow sardinella	57	...	...
<i>Dussunieria acuta</i>	Rainbow sardinella	71	...	...
<i>Stolephorus spp.</i>	Stolephorus anchovies	57	...	...
<i>Stolephorus spp.</i>	Stolephorus anchovies	71	0.2	...
<i>Chirocentrus spp.</i>	Wolf-herring nei	57	...	...
<i>Chirocentrus spp.</i>	Wolf-herring nei	71	2.5	...
<i>Auxis thazard</i>	Frigate tuna	57	...	...
<i>Auxis thazard</i>	Frigate tuna	71	...	...
<i>Auxis rochei</i>	Bullet tuna	57	...	...
<i>Auxis rochei</i>	Bullet tuna	71	...	...
<i>Euthynnus affinis</i>	Kawakawa	57	...	...
<i>Euthynnus affinis</i>	Kawakawa	71	18.2	...
<i>Katsuwonus pelamis</i>	Skipjack tuna	57	...	...
<i>Katsuwonus pelamis</i>	Skipjack tuna	71	113.5	...

							MT
Indonesia	Lao PDR	Malaysia	Myanmar	Philippines	Singapore	Thailand	Vietnam A
3,023	...	134	...	...	...	...	...
14,156	...	2,013	...	29,810	17	...	...
...	...	21	...	...	...	...	...
...	...	512	...	1,326	...	...	...
1,300
3,048
...
...	...	2,277	...	...	...	709	...
...	...	3,484	...	3,288	...	1,330	...
...	...	4,934	...	...	...	3,189	...
...	...	5,122	...	...	24	7,073	...
72,278
1,429	20,137	...	...	...
652
4,966
64,586
109,770
119,457
19,893
...	17,596	...
...	369,199	...	78,859	...
4,676
14,537	11,426	...	...	...
81,005	...	9,164	...	...	...	...	...
118,670	...	10,436	...	73,235	...	...	...
7,658	2,459	...
13,084	383	17	2,742	...
65,190
69,554	156,341	...	...	...
3,216
388
114,627	...	2,580	...	...	...	7,088	...
73,339	...	19,383	...	54,907	...	15,132	...
53,131	...	329	...	...	...	...	...
243,638	222,010	2	6,138	...

Notes: A Figures from FAO Database of Fishery Statistics, 2008

3.3 Marine Capture Fishery Production by Species and Fishing Area, 2008

3.3.1 In Quantity (Cont'd)

				MT	
Scientific Name	FAO English Name	Fishing Area	Brunei	Cambodia	
<i>Thunnus tonggol</i>	Longtail tuna	57	...	...
<i>Thunnus tonggol</i>	Longtail tuna	71	...	...
<i>Thunnus alalunga</i>	Albacore tuna	57	...	...
<i>Thunnus alalunga</i>	Albacore tuna	71	...	...
<i>Thunnus maccoyii</i>	Southern bluefin tuna	57	...	...
<i>Thunnus maccoyii</i>	Southern bluefin tuna	71	...	...
<i>Thunnus albacores</i>	Yellowfin tuna	57	...	...
<i>Thunnus albacores</i>	Yellowfin tuna	71	30.6	...	
<i>Thunnus obesus</i>	Bigeye tuna	57	...	...
<i>Thunnus obesus</i>	Bigeye tuna	71	...	...
<i>Istiophorus platypterus</i>	Indo-pacific sailfish	57	...	...
<i>Istiophorus platypterus</i>	Indo-pacific sailfish	71	0.2	...	
Istiophoridae	Marlins, sailfishes, etc. nei	57	...	...
Istiophoridae	Marlins, sailfishes, etc. nei	71	...	...
<i>Makaira indica</i>	Black marlin	57	...	...
<i>Makaira indica</i>	Black marlin	71	...	...
<i>Makaira nigricans</i>	Atlantic blue marlin	57	...	...
<i>Makaira nigricans</i>	Atlantic blue marlin	71	...	...
<i>Tetrapturus audax</i>	Striped marlin	57	...	...
<i>Tetrapturus audax</i>	Striped marlin	71	...	...
<i>Xiphias gladius</i>	Swordfish	57	...	...
<i>Xiphias gladius</i>	Swordfish	71	...	...
<i>Scomberomorus commerson</i>	Narrow-barred Spanish mackerel	57	...	...
<i>Scomberomorus commerson</i>	Narrow-barred Spanish mackerel	71	18.8	...	
<i>Scomberomorous guttatus</i>	Indo-pacific king mackerel	57	...	...
<i>Scomberomorous guttatus</i>	Indo-pacific king mackerel	71	9.8	...	
Scombroidei	Tuna-like fishes nei	57	...	...
Scombroidei	Tuna-like fishes nei	71	...	...
<i>Scomberomorus spp.</i>	Seerfishes nei	57	...	...
<i>Scomberomorus spp.</i>	Seerfishes nei	71	...	...
<i>Sarda orientalis</i>	Striped bonito	57	...	...
<i>Sarda orientalis</i>	Striped bonito	71	...	...
<i>Tylosurus spp.</i>	Needlefishes nei	57	...	...
<i>Tylosurus spp.</i>	Needlefishes nei	71	...	...

							MT
Indonesia	Lao PDR	Malaysia	Myanmar	Philippines	Singapore	Thailand	Vietnam A
26,497	...	13,692	...	...	...	3,623	...
68,732	...	27,801	...	...	...	10,500	...
20,689	...	359	...	...	...	...	...
15,849
...	27	...
891
41,221	...	1,459	...	...	...	1,082	...
61,544	168,411	...	...	...
35,186	...	1,620	...	...	...	2,368	...
18,793	35,140	...	...	...
3,804
152
...	...	202	...	...	...	...	...
...	...	385	...	3,825	...	...	...
1,989
6,129
99
348	1,797	...	...	...
12
697
42	...	416	...	...	...	...	...
2,860	...	373	...	4,605	...	...	...
25,642
101,343	19,005	...	...	...
23,386
1,119
...
...	21,000
...	...	3,100	...	...	...	3,854	...
...	...	11,530	...	...	62	11,550	...
111
251
4,967
1,085	10,962	...	...	...

Notes: A Figures from FAO Database of Fishery Statistics, 2008

3.3 Marine Capture Fishery Production by Species and Fishing Area, 2008

3.3.1 In Quantity (Cont'd)

Scientific Name	FAO English Name	Fishing Area	MT	
			Brunei	Cambodia
<i>Hemiramphus spp.</i>	Halfbeaks nei	57	...	...
<i>Hemiramphus spp.</i>	Halfbeaks nei	71	...	...
<i>Lactarius lactarius</i>	False trevally	57	...	...
<i>Lactarius lactarius</i>	False trevally	71	...	...
<i>Rachycentron canadum</i>	Cobia	57	...	...
<i>Rachycentron canadum</i>	Cobia	71	...	...
<i>Decapterus russelli</i>	Indian scad	57	...	...
<i>Decapterus russelli</i>	Indian scad	71	...	...
<i>Decapterus punctatus</i>	Round scad	57	...	...
<i>Decapterus punctatus</i>	Round scad	71	257.5	...
<i>Decapterus spp.</i>	Scad nei	57	...	...
<i>Decapterus spp.</i>	Scad nei	71	...	...
<i>Caranx spp.</i>	Jack, crevalles nei	57	...	...
<i>Caranx spp.</i>	Jack, crevalles nei	71	31.3	...
Carangidae	Carangids nei	57	...	...
Carangidae	Carangids nei	71	...	...
<i>Selar crumenophthalmus</i>	Bigeye scad	57	...	...
<i>Selar crumenophthalmus</i>	Bigeye scad	71	...	...
<i>Selar boops</i>	Oxeye scad	57	...	...
<i>Selar boops</i>	Oxeye scad	71	142.5	...
<i>Selaroides leptolepis</i>	Yellowstripe scad	57	...	...
<i>Selaroides leptolepis</i>	Yellowstripe scad	71	...	...
<i>Seriolina nigrofasciata</i>	Blackbanded trevally	57	...	...
<i>Seriolina nigrofasciata</i>	Blackbanded trevally	71	...	...
<i>Parastromateus niger</i>	Black pomfret	57	...	...
<i>Parastromateus niger</i>	Black pomfret	71	1.5	...
<i>Elagatis bipinnulata</i>	Rainbow runner	57	...	...
<i>Elagatis bipinnulata</i>	Rainbow runner	71	...	...
<i>Megalaspis cordyla</i>	Hardtail scad	57	...	...
<i>Megalaspis cordyla</i>	Hardtail scad	71	14.4	...
<i>Scomberoides spp.</i>	Queenfishes	57	...	...
<i>Scomberoides spp.</i>	Queenfishes	71	6.3	...
<i>Coryphaena hippurus</i>	Dolphinfish	57	...	...
<i>Coryphaena hippurus</i>	Dolphinfish	71	...	...

							MT
Indonesia	Lao PDR	Malaysia	Myanmar	Philippines	Singapore	Thailand	Vietnam A
7,339
15,604	2,713	...	...	...
8,888
8,361	...	361	...	153	...	...	...
...	...	147	...	...	...	...	...
...	...	559	...	1,547	...	...	...
...	...	37,492	...	...	...	22,514	...
...	...	59,457	...	...	...	3,731	...
...
...
60,580
266,787	297,892	43	...	...
40,442
32,328	57	...	...
...	...	447	...	...	...	9,519	...
...	...	10,411	...	72,916	30	24,230	...
1,601	...	15,121	...	...	...	6,138	...
6,326	...	40,517	...	97,149	...	14,798	...
...
...
58,734	...	887	...	...	...	...	...
92,096	...	19,337	...	...	...	...	...
...	1,394	...
...	1,253	...
12,512	...	1,232	...	...	...	907	...
42,330	...	3,005	...	...	...	1,750	...
3,833	...	18	...	...	...	...	...
4,635	...	805	...	...	...	...	...
14,330	...	11,260	...	...	...	11,657	...
15,120	...	11,701	...	...	...	4,260	...
5,796	...	632	...	...	...	...	...
7,616	...	2,690	...	...	...	...	...
6,058
2,187	154	...	...	...

Notes: A Figures from FAO Database of Fishery Statistics, 2008

3.3 Marine Capture Fishery Production by Species and Fishing Area, 2008

3.3.1 In Quantity (Cont'd)

				MT	
Scientific Name	FAO English Name	Fishing Area	Brunei	Cambodia	
Engraulidae	Anchovies, etc. nei	57	...	...
Engraulidae	Anchovies, etc. nei	71	...	...
<i>Scomber australasicus</i>	Spotted chub mackerel	57	...	...
<i>Scomber australasicus</i>	Spotted chub mackerel	71	...	...
<i>Scomber japonicus</i>	Chub mackerel	57	...	...
<i>Scomber japonicus</i>	Chub mackerel	71	...	...
<i>Rastrelliger brachysoma</i>	Short mackerel	57	...	...
<i>Rastrelliger brachysoma</i>	Short mackerel	71	...	...
<i>Rastrelliger kanagurta</i>	Indian mackerel	57	...	...
<i>Rastrelliger kanagurta</i>	Indian mackerel	71	146.6	...	
<i>Rastrelliger spp.</i>	Other rastrelliger mackerels	57	...	...
<i>Rastrelliger spp.</i>	Other rastrelliger mackerels	71	...	...
<i>Pampus argenteus</i>	Silver pomfret	57	...	...
<i>Pampus argenteus</i>	Silver pomfret	71	0.7	...	
<i>Sphyaena jello</i>	Pickhandle barracuda	57	...	...
<i>Sphyaena jello</i>	Pickhandle barracuda	71	...	...
<i>Sphyaena spp.</i>	Barracudas nei	57	...	...
<i>Sphyaena spp.</i>	Barracudas nei	71	16.8	...	
<i>Alopias spp.</i>	Thresher shark nei	57	...	...
<i>Alopias spp.</i>	Thresher shark nei	71	...	...
<i>Sphyrna spp.</i>	Hammerhead sharks	57	...	...
<i>Sphyrna spp.</i>	Hammerhead sharks	71	...	...
<i>Squalus spp.</i>	Dogfish sharks	57	...	...
<i>Squalus spp.</i>	Dogfish sharks	71	...	...
<i>Dasyatis spp.</i>	Stings nei	57	...	...
<i>Dasyatis spp.</i>	Stings nei	71	68.8	...	
Laminidae	Mackerel sharks nei	57	...	...
Laminidae	Mackerel sharks nei	71	28.7	...	
Carcharhinidae	Requim sharks nei	57	...	...
Carcharhinidae	Requim sharks nei	71	...	...
Stromateidae	Butterfishes, pomfret nei	57	...	...
Stromateidae	Butterfishes, pomfret nei	71	...	...
Rajiformes	Rays, Stingrays, mantas nei	57	...	...
Rajiformes	Rays, Stingrays, mantas nei	71	...	...

							MT
Indonesia	Lao PDR	Malaysia	Myanmar	Philippines	Singapore	Thailand	Vietnam A
...	24,110	...
...	119,964	...
155
300
...
...	1,255	...	...	...
107,794
141,644	50,986	...	...	...
1,417	16,899	...
15,432	91,272	...	15,214	...
...	...	139,597	...	...	...	27,297	...
...	...	30,724	...	...	25	85,260	...
9,598	...	1,680	...	...	...	685	...
35,264	...	1,628	...	...	...	457	...
20
8
...	...	1,183	...	...	...	5,536	...
...	...	6,797	...	7,956	26	6,393	...
1,398
7,987
115
2,251
913
4,500
13,712
22,072
313	...	789	...	...	...	1,112	...
148	...	6,557	...	2,380	17	1,722	...
18,190
7,810
...	...	1,199	...	...	...	...	...
...	...	739	...	1,595	82	...	...
...	...	5,913	...	...	...	3,173	...
...	...	5,729	...	2,370	117	3,072	...

Notes: A Figures from FAO Database of Fishery Statistics, 2008

3.3 Marine Capture Fishery Production by Species and Fishing Area, 2008

3.3.1 In Quantity (Cont'd)

Scientific Name	FAO English Name	Fishing Area	MT	
			Brunei	Cambodia
<i>Myliobatis spp.</i>	Eagle rays	57	...	...
<i>Myliobatis spp.</i>	Eagle rays	71	...	...
<i>Mobula spp.</i>	Manta rays	57	...	...
<i>Mobula spp.</i>	Manta rays	71	...	...
Clupeoidei	Diadromous clupeoids nei	57	...	...
Clupeoidei	Diadromous clupeoids nei	71	...	...
Stomatopoda	Stomatopods nei	57	...	...
Stomatopoda	Stomatopods nei	71	...	...
Balistidae	Triggerfishes, durgons nei	57	...	...
Balistidae	Triggerfishes, durgons nei	71	...	...
Pristidae	Sawfishes	57	...	...
Pristidae	Sawfishes	71	...	...
Osteichthyes	Marine fishes nei	57	...	...
Osteichthyes	Marine fishes nei	71	444.6	66,000
<i>Portunus pelagicus</i>	Blue swimming crab	57	...	...
<i>Portunus pelagicus</i>	Blue swimming crab	71	1	...
<i>Scylla serrata</i>	Indo-pacific swamp crab	57	...	...
<i>Scylla serrata</i>	Indo-pacific swamp crab	71	0.5	...
<i>Panulirus spp.</i>	Tropical spiny lobsters nei	57	...	...
<i>Panulirus spp.</i>	Tropical spiny lobsters nei	71	0.3	...
Scyllaridae	Slipper lobsters nei	71	...	...
<i>Penaeus merguensis</i>	Banana prawn	57	...	...
<i>Penaeus merguensis</i>	Banana prawn	71	...	...
<i>Penaeus monodon</i>	Giant tiger prawn	57	...	...
<i>Penaeus monodon</i>	Giant tiger prawn	71	1.6	...
<i>Penaeus latisulcatus</i>	Western king prawn	57	...	...
<i>Penaeus latisulcatus</i>	Western king prawn	71	...	...
<i>Penaeus spp.</i>	Penaeus shrimp nei	57	...	...
<i>Penaeus spp.</i>	Penaeus shrimp nei	71	118.6	...
<i>Metapenaeus spp.</i>	Metapenaeus shrimps nei	57	...	...
<i>Metapenaeus spp.</i>	Metapenaeus shrimps nei	71	9	...
Sergestidae	Sergestid shrimps nei	57	...	...
Sergestidae	Sergestid shrimps nei	71	...	...
<i>Crassostrea spp.</i>	Cupped oyster nei	57	...	...
<i>Crassostrea spp.</i>	Cupped oyster nei	71	...	...

							MT
Indonesia	Lao PDR	Malaysia	Myanmar	Philippines	Singapore	Thailand	Vietnam A
1,274
2,597
2,605
1,704
...	...	4,153	...	...	...	...	...
...	...	36,162	...	505	1	...	...
...	1	...
...	845	...
...	...	233	...	...	...	...	...
...	...	2,346	...	...	...	...	...
5
8
143,522	...	229,061	1,679,010	...	...	199,704	...
678,387	...	184,871	...	150,467	350	349,526	1,454,800
7,983
30,855	33,718	...	16,156	...
5,841	539	...
20,787	1,158	22	1,205	...
8,370	...	24	...	...	...	...	...
1,526	...	1,088	...	177	2	...	1,500
...	59	16	...	...
19,620	3,126	...
54,250	6,924	...
8,113	1,021	...
18,379	1,091	...	2,116	...
...	1,412	...
...	1,503	...
...	4,207	...
...	12,294	...	13,486	...
30,531	2,225	...
4,187	10,066	...	6,143	...
...	...	25,774	...	...	...	153	...
...	...	681	...	16,287	...	7,124	...
233
57	101	...	...	...

Notes: A Figures from FAO Database of Fishery Statistics, 2008

3.3 Marine Capture Fishery Production by Species and Fishing Area, 2008

3.3.1 In Quantity (Cont'd)

Scientific Name	FAO English Name	Fishing Area	MT	
			Brunei	Cambodia
<i>Modiolus spp.</i>	Horse mussels nei	57	...	...
<i>Modiolus spp.</i>	Horse mussels nei	71	...	...
<i>Perna viridis</i>	Green mussel	57	...	...
<i>Perna viridis</i>	Green mussel	71	...	...
Pectinidae	Scallops nei	57	...	...
Pectinidae	Scallops nei	71	...	...
<i>Anadara granosa</i>	Blood cockle	57	...	...
<i>Anadara granosa</i>	Blood cockle	71	...	...
<i>Meretrix spp.</i>	Hard clams nei	57	...	...
<i>Meretrix spp.</i>	Hard clams nei	71	...	...
Bivalvia	Clams, etc. nei	57	...	...
Bivalvia	Clams, etc. nei	71	...	...
Crustacea	Marine crustacea nei	57	...	...
Crustacea	Marine crustacea nei	71	...	...
Brachyura	Marine crab nei	57	...	...
Brachyura	Marine crab nei	71	...	4,580
Natantia	Natantian decapods nei	57	...	...
Natantia	Natantian decapods nei	71	...	11,040
<i>Sepia spp.</i>	Cuttlefish	57	...	...
<i>Sepia spp.</i>	Cuttlefish	71	10	...
<i>Loligo spp.</i>	Common squids nei	57	...	...
<i>Loligo spp.</i>	Common squids nei	71	42.5	...
<i>Octopus spp.</i>	Octopuses nei	57	...	...
<i>Octopus spp.</i>	Octopuses nei	71	...	...
<i>Sepioteuthis lessoniana</i>	Bigfin reef squid	57	...	...
<i>Sepioteuthis lessoniana</i>	Bigfin reef squid	71	...	...
Squididae	Squidilids nei	57	...	...
Squididae	Squidilids nei	71	...	...
Mollusca	Marine molluscs nei	57	...	...
Mollusca	Marine molluscs nei	71	...	...
<i>Holothurioidea</i>	Sea cucumber nei	57	...	...
<i>Holothurioidea</i>	Sea cucumber nei	71	0.9	...
<i>Rhopilema spp.</i>	Jellyfishes	57	...	...
<i>Rhopilema spp.</i>	Jellyfishes	71	...	...

							MT
Indonesia	Lao PDR	Malaysia	Myanmar	Philippines	Singapore	Thailand	Vietnam A
...
...
...
14	28	...	...	...
11
1,743	42	...	171	...
41,863
5,574	1	...	1,219	...
17,350
441
...	...	6,322	...	...	...	...	...
111	...	1,730	...	319	...	...	...
1,180
1,066
...	...	5,747	...	...	...	3,012	...
...	...	6,383	...	...	81	2,184	69,000
26,969	...	29,316	...	...	...	...	...
64,977	...	25,238	...	...	132	...	102,300
12,484	...	10,526	...	...	...	8,554	...
9,535	...	10,697	...	1,599	24	13,873	...
20,136	...	21,950	...	...	...	14,198	...
45,236	...	34,405	...	57,223	12	57,766	...
675	...	1,057	...	...	...	4,766	...
7,704	...	1,423	...	3,997	...	6,013	...
...	3,271	...
...	4,528	...
...
...	3,216	...	...	...
570	1	...
2,392	3,096	70,300
369
3,254	777	...	...	...
32	...	481	...	...	...	147,109	...
2,175	...	4,658	...	17	...	2,264	...

Notes: A Figures from FAO Database of Fishery Statistics, 2008

3.3 Marine Capture Fishery Production by Species and Fishing Area, 2008

3.3.1 In Quantity (Cont'd)

Scientific Name	FAO English Name	Fishing Area	MT	
			Brunei	Cambodia
Testudinata	Marine turtle nei	57	...	...
Testudinata	Marine turtle nei	71	...	...
Cephalopoda	Cephalopods nei	57	...	...
Cephalopoda	Cephalopods nei	71	...	2,930
Invertebrata	Aquatic invertebrates nei	57	...	...
Invertebrata	Aquatic invertebrates nei	71	...	...
<i>Paphia spp.</i>	Short neck clams nei	57	...	...
<i>Paphia spp.</i>	Short neck clams nei	71	...	...
<i>Thenus orientalis</i>	Flathead lobster	57	...	...
<i>Thenus orientalis</i>	Flathead lobster	71	...	...
<i>Penaeus semisulcatus</i>	Green tiger prawn	57	...	...
<i>Penaeus semisulcatus</i>	Green tiger prawn	71	...	...

							MT
Indonesia	Lao PDR	Malaysia	Myanmar	Philippines	Singapore	Thailand	Vietnam A
100
138
...
...	227,700
169	3	...
120	669	...
...	1,800	...
...	3	...	14,134	...
...	97	...
...	908	...
...	771	...
...	1,929	...

Notes: A Figures from FAO Database of Fishery Statistics, 2008

3.3 Marine Capture Fishery Production by Species and Fishing Area, 2008

3.3.2 In Value

US\$ 1,000

Scientific Name	FAO English Name	Fishing Area	Brunei	Cambodia
<i>Anodontostoma chacunda</i>	Chacunda gizzard shad	57	...	...
<i>Anodontostoma chacunda</i>	Chacunda gizzard shad	71	...	...
<i>Tenualosa toli</i>	Toli shad	57	...	...
<i>Tenualosa toli</i>	Toli shad	71	...	...
<i>Pellona ditchela</i>	Indian pellona	57	...	...
<i>Pellona ditchela</i>	Indian pellona	71	2.95	...
<i>Lates calcarifer</i>	Barramundi (= Giant seaperch)	57	...	...
<i>Lates calcarifer</i>	Barramundi (= Giant seaperch)	71	2.16	...
<i>Psettodes erumei</i>	Indian halibut	57	...	...
<i>Psettodes erumei</i>	Indian halibut	71	41.24	...
Pleuronectiformes	Flatfishes nei	57	...	...
Pleuronectiformes	Flatfishes nei	71	...	...
<i>Cynoglossus spp.</i>	Tongue soles nei	57	...	...
<i>Cynoglossus spp.</i>	Tongue soles nei	71	...	...
<i>Harpadon nehereus</i>	Bombay-duck	57	...	...
<i>Harpadon nehereus</i>	Bombay-duck	71	...	...
<i>Saurida tumbil</i>	Greater lizardfish	57	...	...
<i>Saurida tumbil</i>	Greater lizardfish	71	...	...
<i>Arius spp.</i>	Sea catfishes	71	7.94	...
<i>Plotosus spp.</i>	Eeltail catfishes	57	...	...
<i>Plotosus spp.</i>	Eeltail catfishes	71	0.3	...
Mugilidae	Mulletts nei	57	...	...
Mugilidae	Mulletts nei	71	8.65	...
<i>Caesio caeruleaurea</i>	Blue and gold fusilier	57	...	...
<i>Caesio caeruleaurea</i>	Blue and gold fusilier	71	...	...
<i>Caesio cunning</i>	Redbelly yellowtail fusilier	57	...	...
<i>Caesio cunning</i>	Redbelly yellowtail fusilier	71	...	...
<i>Caesionidae</i>	Fusiliers nei	57	...	...
<i>Caesionidae</i>	Fusiliers nei	71	1.05	...
<i>Epinephelus merra</i>	Honeycomb grouper	57	...	...
<i>Epinephelus merra</i>	Honeycomb grouper	71	...	...
<i>Epinephelus spp.</i>	Groupers nei	57	...	...
<i>Epinephelus spp.</i>	Groupers nei	71	83.41	...
<i>Cephalopholis boenak</i>	Chocolate grouper	57	...	...
<i>Cephalopholis boenak</i>	Chocolate grouper	71	...	...

US\$ 1,000							
Indonesia	Lao PDR	Malaysia	Myanmar	Philippines	Singapore	Thailand	Vietnam
833	...	1,762	...	...	...	...	...
1,694	...	985	...	...	...	...	...
592
3,438
...	...	6,277	...	...	...	...	...
...	...	4,052	...	...	...	...	...
20,019	...	591	...	...	...	...	...
104,721	...	5,003	...	...	346	161	...
11,282
2,350	2,847	...
2,542
6,619
...
...
1,206	...	271	...	...	...	...	...
4,662	...	1,063	...	...	...	...	...
3,374
9,400
...
...	...	3,147	...	...	...	...	...
...	...	2,964	...	...	...	408	...
12,636	...	1,237	...	...	...	...	...
21,779	...	2,115	...	17,767	131	...	...
801
2,149
5,031
32,590
...	...	96	...	...	...	...	...
...	...	2,275	...	28,592	8	...	...
933
7,882
...	...	7,217	...	...	...	...	...
...	...	34,695	...	...	346	...	...
24,950
37,716

3.3 Marine Capture Fishery Production by Species and Fishing Area, 2008

3.3.2 In Value (Cont'd)

US\$ 1,000

Scientific Name	FAO English Name	Fishing Area	Brunei	Cambodia
<i>Cromileptes altivelis</i>	Humpback grouper	57	...	...
<i>Cromileptes altivelis</i>	Humpback grouper	71	...	...
<i>Plectropomus leopardus</i>	Leopard coral grouper	57	...	...
<i>Plectropomus leopardus</i>	Leopard coral grouper	71	...	...
<i>Pricanthus macracanthus</i>	Red bigeye	57	...	...
<i>Pricanthus macracanthus</i>	Red bigeye	71	...	...
<i>Pricanthus spp.</i>	Bigeyes nei	57	...	...
<i>Pricanthus spp.</i>	Bigeye nei	71	...	...
<i>Sillago sihama</i>	Silver sillago	57	...	...
<i>Sillago sihama</i>	Silver sillago	71	...	...
<i>Sillago spp.</i>	Sillago-whittings	57	...	...
<i>Sillago spp.</i>	Sillago-whittings	71	0.18	...
Sciaenidae	Croakers, drums nei	57	...	...
Sciaenidae	Croakers, drums nei	71	55.76	...
<i>Lutjanus argentimaculatus</i>	Mangrove red snapper	57	...	...
<i>Lutjanus argentimaculatus</i>	Mangrove red snapper	71	...	...
<i>Lutjanus sebae</i>	Emperor red snapper	71	87.87	...
<i>Lutjanus lutjanus</i>	Bigeye snapper	71	40.32	...
<i>Lutjanus spp.</i>	Snappers nei	57	...	...
<i>Lutjanus spp.</i>	Snappers nei	71	190.87	...
Lutjanidae	Snappers, jobfishes nei	57	...	...
Lutjanidae	Snappers, jobfishes nei	71	...	...
Serranidae	Groupers, seabasses nei	71	...	...
<i>Pristipomoides spp.</i>	Sharptooth jobfishes	57	...	...
<i>Pristipomoides spp.</i>	Sharptooth jobfishes	71	0.06	...
<i>Nemipterus spp.</i>	Threadfin breams nei	57	...	...
<i>Nemipterus spp.</i>	Threadfin breams nei	71	1.41	...
<i>Scalopsis spp.</i>	Monocole breams	57	...	...
<i>Scalopsis spp.</i>	Monocole breams	71	...	...
<i>Leiognathus spp.</i>	Ponyfishes	57	...	...
<i>Leiognathus spp.</i>	Ponyfishes	71	35.16	...
<i>Pristis spp.</i>	Sweetlips	57	...	...
<i>Pristis spp.</i>	Sweetlips	71	...	...
<i>Pomadasys argenteus</i>	Silver grunt	57	...	...
<i>Pomadasys argenteus</i>	Silver grunt	71	...	...

US\$ 1,000							
Indonesia	Lao PDR	Malaysia	Myanmar	Philippines	Singapore	Thailand	Vietnam
16,020
5,701
13,562
11,789
53
155
3,300	...	1,192	...	...	...	...	...
10,129	...	19,047	...	...	...	15,555	...
4
209
...	...	922	...	...	...	...	...
...	...	1,555	...	...	21	6,186	...
16,621	...	15,920	...	...	...	...	...
28,841	...	11,580	...	...	28	23,086	...
...	...	1,853	...	...	...	...	...
...	...	22,349	...	...	...	...	...
...
...
28,592	...	520	...	...	...	...	...
139,701	...	7,722	...	...	540	...	...
...	...	1,224	...	...	...	...	...
...	...	5,210	...	30,186	50	7,514	...
...	42,276	...	11,974	...
421
533
13,304	...	17,870	...	...	...	...	...
32,041	...	40,099	...	80,322	204	38,820	...
...	...	155	...	...	...	...	...
...	...	1,499	...	...	...	...	...
14,432	...	136	...	...	...	...	...
28,684	...	1,360	...	56,004	29	...	...
2,044
1,233
...	...	1,846	...	...	...	...	...
...	...	3,918	...	...	...	...	...

3.3 Marine Capture Fishery Production by Species and Fishing Area, 2008

3.3.2 In Value (Cont'd)

US\$ 1,000

Scientific Name	FAO English Name	Fishing Area	Brunei	Cambodia
Haemulidae (=Pomodasyidae)	Grunts, sweetlips nei	57	...	...
Haemulidae (=Pomodasyidae)	Grunts, sweetlips nei	71	18.79	...
Lethrinidae	Emperors (=Scavengers) nei	57	...	...
Lethrinidae	Emperors (=Scavengers) nei	71	4.08	...
Sparidae	Porgies, seabreams nei	71	976.72	...
<i>Parupeneus indicus</i>	Indian goatfish	57	...	...
<i>Parupeneus indicus</i>	Indian goatfish	71	...	...
<i>Parupeneus spp.</i>	Goatfishes	71	13.09	...
<i>Upeneus sulphureus</i>	Sulphur goatfish	57	...	...
<i>Upeneus sulphureus</i>	Sulphur goatfish	71	...	...
<i>Upeneus vittatus</i>	Yellowstriped goatfish	57	...	...
<i>Upeneus vittatus</i>	Yellowstriped goatfish	71	...	...
<i>Upeneus spp.</i>	Goatfishes	57	...	...
<i>Upeneus spp.</i>	Goatfishes	71	...	...
<i>Gerres spp.</i>	Mojarras nei	57	...	...
<i>Gerres spp.</i>	Mojarras nei	71	...	...
<i>Drepane punctata</i>	Spotted sicklefish	57	...	...
<i>Drepane punctata</i>	Spotted sicklefish	71	...	...
<i>Cheilinius undulatus</i>	Humphead wrasse	57	...	...
<i>Cheilinius undulatus</i>	Humphead wrasse	71	...	...
Labridae	Wrasses, hogfishes, etc. nei	57	...	...
Labridae	Wrasses, hogfishes, etc. nei	71	...	...
<i>Eleutheronema tetradactylum</i>	Four finger threadfin	57	...	...
<i>Eleutheronema tetradactylum</i>	Four finger threadfin	71	...	...
<i>Polynemus spp.</i>	Threadfins	57	...	...
<i>Polynemus spp.</i>	Threadfins	71	40.68	...
<i>Siganus spp.</i>	Spinefeet nei	57	...	...
<i>Siganus spp.</i>	Spinefeet nei	71	6.79	...
<i>Megalops cyprinoides</i>	Indo-pacific tarpon	57	...	...
<i>Megalops cyprinoides</i>	Indo-pacific tarpon	71	...	...
<i>Terapon spp.</i>	Terapon perches nei	57	...	...
<i>Terapon spp.</i>	Terapon perches nei	71	...	...
<i>Muraenesox cinereus</i>	Daggertooth pike conger	57	...	...
<i>Muraenesox cinereus</i>	Daggertooth pike conger	71	...	...

US\$ 1,000							
Indonesia	Lao PDR	Malaysia	Myanmar	Philippines	Singapore	Thailand	Vietnam
8,290	...	58	...	...	...	...	...
14,691	...	2,956	...	...	39	...	...
6,820	...	157	...	...	...	...	...
22,574	...	995	...	...	...	...	...
...	22,541	...	...	...
727
333
...
876
2859
21,752
47
...	...	6,172	...	...	...	...	...
...	...	6,500	...	...	...	...	...
...	...	114	...	...	...	...	...
...	...	1,161	...	...	...	...	...
...	...	231	...	...	...	...	...
...	...	1,495	...	...	...	...	...
911
5,314
...	...	30	...	...	...	...	...
...	...	1,276	...	16,265	...	...	...
345
7,763
1,790	...	7,013	...	...	...	...	...
34,962	...	11,418	...	...	503	...	...
2,819	...	1,354	...	...	...	...	...
13,579	...	20,344	...	43,425	58	...	...
...
3
436
1,023
...	...	2,427	...	...	...	...	...
...	...	3,713	...	...	...	2,235	...

3.3 Marine Capture Fishery Production by Species and Fishing Area, 2008

3.3.2 In Value (Cont'd)

US\$ 1,000

Scientific Name	FAO English Name	Fishing Area	Brunei	Cambodia
<i>Trichiurus lepturus</i>	Largehead hairtail	57	...	...
<i>Trichiurus lepturus</i>	Largehead hairtail	71	...	...
<i>Trichiurus spp.</i>	Hairtail nei	57	...	...
<i>Trichiurus spp.</i>	Hairtail nei	71	4.94	...
<i>Amblygaster sirm</i>	Spotted sardinella	57	...	...
<i>Amblygaster sirm</i>	Spotted sardinella	71	...	...
<i>Sardinella gibbosa</i>	Goldstripe sardinella	57	...	...
<i>Sardinella gibbosa</i>	Goldstripe sardinella	71	...	...
<i>Sardinella lemuru</i>	Bali sardinella	57	...	...
<i>Sardinella lemuru</i>	Bali sardinella	71	...	...
<i>Sardinella spp.</i>	Sardinella nei	71	560.7	...
<i>Dussunieria acuta</i>	Rainbow sardinella	57	...	...
<i>Dussunieria acuta</i>	Rainbow sardinella	71	...	...
<i>Stolephorus spp.</i>	Stolephorus anchovies	57	...	...
<i>Stolephorus spp.</i>	Stolephorus anchovies	71	0.10	...
<i>Chirocentrus spp.</i>	Wolf-herring nei	57	...	...
<i>Chirocentrus spp.</i>	Wolf-herrinf nei	71	4.95	...
<i>Auxis thazard</i>	Frigate tuna	57	...	...
<i>Auxis thazard</i>	Frigate tuna	71	...	...
<i>Auxis rochei</i>	Bullet tuna	57	...	...
<i>Auxis rochei</i>	Bullet tuna	71	...	...
<i>Euthynnus affinis</i>	Kawakawa	57	...	...
<i>Euthynnus affinis</i>	Kawakawa	71	35.85	...
<i>Katsuwonus pelamis</i>	Skipjack tuna	57	...	...
<i>Katsuwonus pelamis</i>	Skipjack tuna	71	298.6	...
<i>Thunnus tonggol</i>	Longtail tuna	57	...	...
<i>Thunnus tonggol</i>	Longtail tuna	71	...	...
<i>Thunnus alaunga</i>	Albacore tuna	57	...	...
<i>Thunnus alaunga</i>	Albacore tuna	71	...	...
<i>Thunnus maccoyii</i>	Southern bluefin tuna	57	...	...
<i>Thunnus maccoyii</i>	Southern bluefin tuna	71	...	...
<i>Thunnus albacores</i>	Yellowfin tuna	57	...	...
<i>Thunnus albacores</i>	Yellowfin tuna	71	60.46	...
<i>Thunnus obesus</i>	Bigeye tuna	57	...	...
<i>Thunnus obesus</i>	Bigeye tuna	71	...	...

US\$ 1,000							
Indonesia	Lao PDR	Malaysia	Myanmar	Philippines	Singapore	Thailand	Vietnam
...	...	4,311	...	...	...	...	...
...	...	4,475	...	...	47	7,393	...
52,300
1,034	25,675	...	...	...
85
645
39,830
67,695
46,287
7,708
...	208,562	...	35,907	...
2,146
6,671	10,016	...	...	...
86,110	...	10,021	...	...	...	...	...
126,149	...	11,412	...	65,922	...	...	...
8,461	...	2,959	...	...	...	...	...
14,456	...	10,069	...	...	...	...	...
52,954
56,499	188,821	...	...	...
3,011
363
113,230	...	3,209	...	...	...	...	...
72,490	...	24,107	...	60,664	...	16,530	...
46,983	...	390	...	...	...	...	...
215,447	296,506	5	10,294	...
33,674	...	178,000	...	...	...	14,723	...
87,350	...	36,141	...	...	...	...	...
35,080
26,873	...	661	...	...	...	58	...
1,697	58	...
...
56,908	...	3,812	...	...	...	2,295	...
84,965	292,107	...	...	...
40,383	...	4,466	...	...	...	3,737	...
21,569	57,510	...	...	...

3.3 Marine Capture Fishery Production by Species and Fishing Area, 2008

3.3.2 In Value (Cont'd)

US\$ 1,000

Scientific Name	FAO English Name	Fishing Area	Brunei	Cambodia
<i>Istiophorus platypterus</i>	Indo-pacific sailfish	57	...	...
<i>Istiophorus platypterus</i>	Indo-pacific sailfish	71	0.42	...
Istiophoridae	Marlins, sailfishes, etc. nei	57	...	...
Istiophoridae	Marlins, sailfishes, etc. nei	71	...	...
<i>Makaira indica</i>	Black marlin	57	...	...
<i>Makaira indica</i>	Black marlin	71	...	...
<i>Makaira nigricans</i>	Atlantic blue marlin	57	...	...
<i>Makaira nigricans</i>	Atlantic blue marlin	71	...	...
<i>Tetrapturus audax</i>	Striped marlin	57	...	...
<i>Tetrapturus audax</i>	Striped marlin	71	...	...
<i>Xiphias gladius</i>	Swordfish	57	...	...
<i>Xiphias gladius</i>	Swordfish	71	...	...
<i>Scomberomorus commerson</i>	Narrow-barred spanish mackerel	57	...	...
<i>Scomberomorus commerson</i>	Narrow-barred spanish mackerel	71	74.05	...
<i>Scomberomorus guttatus</i>	Indo-pacific king mackerel	57	...	...
<i>Scomberomorus guttatus</i>	Indo-pacific king mackerel	71	25.67	...
<i>Scomberomorus spp.</i>	Seerfishes	71	...	...
<i>Sarda orientalis</i>	Striped bonito	57	...	...
<i>Sarda orientalis</i>	Striped bonito	71	...	...
<i>Tylosurus spp.</i>	Needlefishes nei	57	...	...
<i>Tylosurus spp.</i>	Needlefishes nei	71	...	...
<i>Hemiramphus spp.</i>	Halfbeaks nei	57	...	...
<i>Hemiramphus spp.</i>	Halfbeaks nei	71	...	...
<i>Lactarius lactarius</i>	False trevally	57	...	...
<i>Lactarius lactarius</i>	False trevally	71	...	...
<i>Rachycentron canadum</i>	Cobia	57	...	...
<i>Rachycentron canadum</i>	Cobia	71	...	...
<i>Decaptereus russelli</i>	Indian scad	57	...	...
<i>Decaptereus russelli</i>	Indian scad	71	...	...
<i>Decaptereus punctatus</i>	Round scad	71	338.8	...
<i>Decaptereus spp.</i>	Scad nei	57	...	...
<i>Decaptereus spp.</i>	Scad nei	71	...	...
<i>Caranx spp.</i>	Jack, crevalles nei	57	...	...
<i>Caranx spp.</i>	Jack, crevalles nei	71	205.7	...

US\$ 1,000							
Indonesia	Lao PDR	Malaysia	Myanmar	Philippines	Singapore	Thailand	Vietnam
3,447
138
...	...	124	...	...	...	...	...
...	...	236	...	...	...	...	...
2,499
7,701
195
687
21
1,219
57	...	249	...	...	...	...	...
3,854	...	223	...	...	...	...	...
42,091
166,352	39,573	...	...	...
48,480
2,320
...	375	26,071	...
87
197
2,342
512
3,762
7,997
4,702
4,423	...	656	...	...	...	...	...
...	...	154	...	...	...	...	...
...	...	587	...	...	...	...	...
...	...	38,972	...	...	...	...	...
...	...	61,804	...	...	...	22,224	...
...
37,483
165,073	315,179	124	...	...
45,584
36,438	137	...	...

3.3 Marine Capture Fishery Production by Species and Fishing Area, 2008

3.3.2 In Value (Cont'd)

US\$ 1,000				
Scientific Name	FAO English Name	Fishing Area	Brunei	Cambodia
Carangidae	Carangids nei	57	...	...
Carangidae	Carangids nei	71	...	...
<i>Selar crumenophthalmus</i>	Bigeye scad	57	...	...
<i>Selar crumenophthalmus</i>	Bigeye scad	71	...	...
<i>Selar boops</i>	Oxeye scad	71	468.65	...
<i>Selaroides leptolepis</i>	Yellowstripe scad	57	...	...
<i>Selaroides leptolepis</i>	Yellowstripe scad	71	...	...
<i>Parastromateus niger</i>	Black pomfret	57	...	...
<i>Parastromateus niger</i>	Black pomfret	71	7.98	...
<i>Elagatis bipinnulata</i>	Rainbow runner	57	...	...
<i>Elagatis bipinnulata</i>	Rainbow runner	71	...	...
<i>Megalaspis cordyla</i>	Hardtail scad	57	...	...
<i>Megalaspis cordyla</i>	Hardtail scad	71	37.94	...
<i>Scomberoides spp.</i>	Queenfishes	57	...	...
<i>Scomberoides spp.</i>	Queenfishes	71	8.25	...
<i>Coryphaena hippurus</i>	Dolphinfish	57	...	...
<i>Coryphaena hippurus</i>	Dolphinfish	71	...	...
<i>Scomber australasicus</i>	Spotted chub mackerel	57	...	...
<i>Scomber australasicus</i>	Spotted chub mackerel	71	...	...
<i>Rastrelliger brachysoma</i>	Short mackerel	57	...	...
<i>Rastrelliger brachysoma</i>	Short mackerel	71	...	...
<i>Rastrelliger kanagurta</i>	Indian mackerel	57	...	...
<i>Restrelliger kanagurta</i>	Indian mackerel	71	482.19	...
<i>Rastrelliger spp.</i>	Other Rastrilliger mackerels	57	...	...
<i>Rastrelliger spp.</i>	Other Rastrilliger mackerels	71	...	...
<i>Pampus argenteus</i>	Silver pomfret	57	...	...
<i>Pampus argenteus</i>	Silver pomfret	71	11.09	...
<i>Sphyraena jello</i>	Pickandle barracuda	57	...	...
<i>Sphyraena jello</i>	Pickandle barracuda	71	...	...
<i>Sphyraena barracuda</i>	Great barracuda	57	...	...
<i>Sphyraena barracuda</i>	Great barracuda	71	...	...
<i>Sphyraena spp.</i>	Barracudas nei	57	...	...
<i>Sphyraena spp.</i>	Barracudas nei	71	11.04	...
<i>Alopias spp.</i>	Thresher shark nei	57	...	...
<i>Alopias spp.</i>	Thresher shark nei	71	...	...

US\$ 1,000							
Indonesia	Lao PDR	Malaysia	Myanmar	Philippines	Singapore	Thailand	Vietnam
913
825	91,141	...	27,711	...
1,092	...	19,704	...	...	...	...	...
4,217	...	52,798	...	124,488	...	12,030	...
...
47,602	...	990	...	...	...	...	...
74,642	...	21,576	...	...	...	...	...
17,756	...	4,354	...	...	...	...	...
60,071	...	10,620	...	...	...	6,891	...
3,246	...	22	...	...	...	...	...
3,926	...	970	...	7,331	...	...	...
13,193	...	13,038	...	...	...	...	...
13,920	...	13,549	...	18,979	...	10,940	...
5,346	...	780	...	...	...	...	...
7,024	...	3,320	...	7,334	...	...	...
3,843
1,387
66
128
107,417
141,148	62,005	...	...	...
1,217
13,252	112,728	...	27,782	...
...	...	174,703	...	...	...	...	...
...	...	38,450	...	...	57	99,313	...
19,817	...	12,627	...	...	...	...	...
72,810	...	12,236	...	...	...	5,236	...
23
9
6,363
4,162
...	...	1,585	...	...	...	...	...
...	...	9,104	...	...	59	14,897	...
1,512
8,639

3.3 Marine Capture Fishery Production by Species and Fishing Area, 2008

3.3.2 In Value (Cont'd)

US\$ 1,000

Scientific Name	FAO English Name	Fishing Area	Brunei	Cambodia
<i>Sphyrna spp.</i>	Hammerhead sharks	57	...	...
<i>Sphyrna spp.</i>	Hammerhead sharks	71	...	...
<i>Squalus spp.</i>	Dogfish sharks	57	...	...
<i>Squalus spp.</i>	Dogfish sharks	71	...	...
<i>Dasyatis spp.</i>	Stings nei	57	...	...
<i>Dasyatis spp.</i>	Stings nei	71	...	...
Lamnidae	Mackerel sharks nei	57	...	...
Lamnidae	Mackerel sharks nei	71	...	...
Carcharhinidae	Requim sharks nei	57	...	...
Carcharhinidae	Requim sharks nei	71	...	...
Stromateidae	Butterfishes, pomfrets nei	57	...	...
Stromateidae	Butterfishes, pomfrets nei	71	...	...
Rajiformes	Rays, stingrays, mantas nei	57	...	...
Rajiformes	Rays, stingrays, mantas nei	71	...	...
<i>Myliobatis spp.</i>	Eagle rays	57	...	...
<i>Myliobatis spp.</i>	Eagle rays	71	...	...
<i>Mobula spp.</i>	Manta rays	57	...	...
<i>Mobula spp.</i>	Manta rays	71	...	...
Clupeoidei	Diadromous clupeoids nei	57	...	...
Clupeoidei	Diadromous clupeoids nei	71	...	...
Balistidae	Trigglefishes, durgons nei	57	...	...
Balistidae	Trigglefishes, durgons nei	71	...	...
Pristidae	Sawfishes	57	...	...
Pristidae	Sawfishes	71	...	...
Osteichthyes	Marine fishes nei	57	...	...
Osteichthyes	Marine fishes nei	71	1,582	...
<i>Portunus pelagicus</i>	Blue swimming crab	57	...	...
<i>Portunus pelagicus</i>	Blue swimming crab	71	3.85	...
<i>Scylla serrata</i>	Indo-pacific swamp crab	57	...	...
<i>Scylla serrata</i>	Indo-pacific swam crab	71	1.64	...
<i>Panulirus spp.</i>	Tropical spiny lobsters nei	57	...	...
<i>Panulirus spp.</i>	Tropical spiny lobsters nei	71	5.31	...
Scyllaridae	Slipper lobsters nei	71	...	...
<i>Penaeus merguensis</i>	Banana prawn	57	...	...
<i>Penaeus merguensis</i>	Banana prawn	71	...	...

US\$ 1,000							
Indonesia	Lao PDR	Malaysia	Myanmar	Philippines	Singapore	Thailand	Vietnam
96
1,888
661
3,259
10,722
17,259
103
49
13,428
5,765
...	...	10,062	...	...	...	6,891	...
...	...	6,201	...	...	914	...	...
...	...	9,087	...	...	...	...	...
...	...	14,952	...	...	323	5,582	...
616
1,255
673
440
...	...	2,916	...	...	...	...	...
...	...	28,079	...	...	2	...	...
...	...	294	...	...	...	...	...
...	...	3,093	...	...	...	...	...
7
12
47,781	...	74,339	1,585,514	...	...	...	...
287,706	...	4,367	...	311,346	2,052	70,805	...
15,550
60,101	67,888	...	73,055	...
11,623
41,366	175	5,188	...
39,311	...	134	...	...	...	...	...
7,167	...	6,065	...	...	33	...	...
...	157	...	...
57,468
158,901	65,536	...

3.3 Marine Capture Fishery Production by Species and Fishing Area, 2008

3.3.2 In Value (Cont'd)

			US\$ 1,000	
Scientific Name	FAO English Name	Fishing Area	Brunei	Cambodia
<i>Penaeus monodon</i>	Giant tiger prawn	57	...	...
<i>Penaeus monodon</i>	Giant tiger prawn	71	13.32	...
<i>Penaeus spp.</i>	Penaeus shrimp nei	71	779.92	...
<i>Metapenaeus spp.</i>	Metapenaeus shrimps nei	57	...	...
<i>Metapenaeus spp.</i>	Metapenaeus shrimps nei	71	5.90	...
Sergestidae	Sergestid shrimps nei	57	...	...
Sergestidae	Sergestid shrimps nei	71	...	...
<i>Crassostrea spp.</i>	Cupped oyster nei	57	...	...
<i>Crassostrea spp.</i>	Cupped oyster nei	71	...	...
<i>Perna viridis</i>	Green mussel	57	...	...
<i>Perna viridis</i>	Green mussel	71	...	...
Pectinidae	Scallops nei	57	...	...
Pectinidae	Scallops nei	71	...	...
<i>Anadara granosa</i>	Blood cockle	57	...	...
<i>Anadara granosa</i>	Blood cockle	71	...	...
<i>Meretrix spp.</i>	Hard clams nei	57	...	...
<i>Meretrix spp.</i>	Hard clams nei	71	...	...
Bivalvia	Clams, etc. nei	57	...	...
Bivalvia	Clams, etc. nei	71	...	...
Crustacea	Marine crustaceans nei	57	...	...
Crustacea	MARine crustaceans nei	71	...	...
Brachyura	Marine crabs nei	57	...	...
Brachyura	Marine crabs nei	71	...	...
Natantia	Natantion decapods nei	57	...	...
Natantia	Natantian decapods nei	71	...	...
<i>Sepia spp.</i>	Common squids nei	57	...	...
<i>Sepia spp.</i>	Common squids nei	71	26.37	...
<i>Loligo spp.</i>	Common squids nei	57	...	...
<i>Loligo spp.</i>	Common squids nei	71	139.82	...
<i>Octopus spp.</i>	Octopuses nei	57	...	...
<i>Octopus spp.</i>	Octopuses nei	71	...	...
Mollusca	Marine molluscs nei	57	...	...
Mollusca	Marine molluscs nei	71	...	...
Holothuridea	Sea cucumber nei	57	...	...
Holothuridea	Sea cucumber nei	71	...	...

US\$ 1,000							
Indonesia	Lao PDR	Malaysia	Myanmar	Philippines	Singapore	Thailand	Vietnam
45,688
103,500	3,806	...	31,768	...
...	41,896	...
98,038
13,445	33,063	...
...	...	9,224	...	...	...	...	...
...	...	244	...	13,346	...	3,111	...
400
98
...
24
27
4,326	502	...
72,633
9,671	644	...
7,865
200
...	...	5,790	...	...	...	...	...
...	...	941	...	...	...	...	...
913
825
...	...	16,648	...	...	...	...	...
...	...	18,490	...	...	554	9,459	...
60,240	...	116,136	...	...	...	...	...
141,582	...	100,377	...	...	1,084	...	...
13,729	...	15,013	...	...	...	...	...
10,486	...	15,257	...	...	60	46,234	...
32,720	...	51,178	...	...	...	...	...
73,505	...	80,218	...	92,566	55	145,263	...
1,233	...	848	...	...	...	...	...
14,074	...	1,142	...	...	...	12,559	...
334
1,404	943	...
1,892
16,682

3.3 Marine Capture Fishery Production by Species and Fishing Area, 2008

3.3.2 In Value (Cont'd)

				US\$ 1,000	
Scientific Name	FAO English Name	Fishing Area	Brunei	Cambodia	
<i>Rhopilema spp.</i>	Jellyfishes	57	...	...
<i>Rhopilema spp.</i>	Jellyfishes	71	...	...
Testudinata	Marine turtle nei	57	...	...
Testudinata	Marine turtle nei	71	...	...
<i>Trochus niloticus</i>	Commercial top	57	...	...
<i>Trochus niloticus</i>	Commercial top	71	...	...
Invertebrate	Aquatic invertebrates nei	57	...	...
Invertebrate	Aquatic invertebrates nei	71	...	...
Elasmobranchii	Sharks, rays, skates etc. nei	57	...	...
Elasmobranchii	Sharks, rays, skates etc. nei	71	...	...
<i>Sepioteuthis lessoniana</i>	Bigfin reef squid	71	...	...
<i>Paphia spp.</i>	Short neck clams nei	71	...	...
<i>Thenus orientalis</i>	Flathead lobster	71	...	...
<i>Penaeus semisulcatus</i>	Green tiger prawn	71	...	...
<i>Penaeus latisulcatus</i>	Western king prawn	71	...	...
<i>Chirocentrus dorab</i>	Dorab wols-herring	71	...	...
<i>Seriolina nigrofasciata</i>	Blackbanded trevally	71	...	...
Ariidae	Sea catfishes nei	71	...	...
Mugilidae	Mulletts nei	71	...	...
Cynoglossidae	Tonguefishes	71	...	...
Synodontidae	Lizardfishes nei	71	...	...
Polynemidae	Threadfins	71	...	...
Engraulidae	Anchovies, etc. nei	71	...	...
Stromatopoda	Stomatopoda	71	...	...
-	Trash fish	71	...	...

US\$ 1,000							
Indonesia	Lao PDR	Malaysia	Myanmar	Philippines	Singapore	Thailand	Vietnam
14	...	552	...	...	...	...	...
932	...	6,150	...	...	...	2,824	...
139
192
...
245
...
...	6,535	...
...	...	893	...	...	...	...	...
...	...	7,420	...	...	44	3,281	...
...	20,288	...
...	4,630	...
...	3,693	...
...	23,778	...
...	16,506	...
...	5,873	...
...	8,417	...
...	4,267	...
...	9,627	...
...	4,630	...
...	19,592	...
...	916	...
...	43,604	...
...	2,559	...
...	89,782	...

3.4 Capture Production by Type of Fishing Gear and by Species, 2008

3.4.1 Malaysia

MT

Scientific Name	FAO English Name	Purse Seine			Seine Net		
		All purse seine	Ancovy purse seine	Fish purse seine	All seine nets	Boat seine	Beach seine
<i>Anodontostoma chacunda</i>	chacunda gizzard shad	57	...	57	11	...	...
<i>Plotosus spp.</i>	Eeltail catfishes	...	...	...	7	...	...
<i>Lates calcarifer</i>	Barramudi (= Giant seaperch)	4	...	4	1	...	...
<i>Cynoglossus spp.</i>	Tongue soles nei	...	...	...	...	...	...
<i>Caesio spp.</i>	Fusiliers	16	...	16	25	...	...
<i>Epinephelus spp.</i>	Greasy nei	...	...	...	1	...	...
<i>Priacanthus tayenus</i>	purple-spotted bigeye	2	...	2	...	...	...
<i>Sillago spp.</i>	Sillago-whittings	14	...	14	...	...	...
<i>Otolithes ruber</i>	Tigertooth croaker	182	167	15	1,376	...	...
<i>Lutjanus malabaricus</i>	Malabar blood snapper	31	...	31	...	...	...
<i>Lutjanus johnii</i>	John's snapper	...	...	...	...	...	...
<i>Lutjanus russelli</i>	Russell's snapper	1	...	1	6	...	...
<i>Lutjanus spp.</i>	Snapper nei	14	...	14	...	...	...
<i>Hilsa kelee</i>	Kelee shad	...	...	...	1	...	...
<i>Tenulosa macrura</i>	Longtail shad	...	...	...	...	...	...
<i>Ilisha elongata</i>	Elongate ilisha	3,230	1	3,229	...	...	...
<i>Pellona ditchela</i>	Indian pellona	...	...	...	...	...	...
<i>Pseudorhombus spp.</i>	Flounders	1	...	1	...	...	...
<i>Harpadon nehereus</i>	Bombay duck	...	...	...	...	...	...
<i>Saurida spp.</i>	Lizard fishes	13	...	13	...	...	...
<i>Arius spp.</i>	Marine catfishes	121	14	107	89	...	...
<i>Pristipomoides multidens</i>	Goldenbanded jobfish	4	...	4	...	...	...
<i>Nemipterus spp.</i>	Threadfin breams nei	26	...	26	...	...	...
<i>Leiognathus spp.</i>	Ponyfishes	39	...	39	1	...	...
<i>Plectorhinchus spp.</i>	Sweetlips	...	...	...	...	...	...
<i>Pomadasyd spp.</i>	Grunts	9	...	9	...	...	...
<i>Lethrinus spp.</i>	Emperors	5	...	...	...	...	...
<i>Upeneus spp.</i>	Goatfishes	...	...	...	19	...	...
<i>Gerres spp.</i>	Mojarras nei	2	...	2	1	...	...
<i>Drepane punctata</i>	Spotted sicklefish	2	...	2	...	...	...
<i>Polynemus spp.</i>	Threadfins	39	...	39	10	...	...
<i>Siganus spp.</i>	Spinefeet nei	286	...	286	74	...	...
<i>Abalister stellaris</i>	Starry Tiggerfish	56	...	56	...	...	...

															MT
Trawl				Lift Net	Falling Net			Gill Net	Trap			Hook and Lines	Push/Scoop Net	Shell fish and seaweed collecting gear	Others
All trawls	Beam trawl	Otter board trawl	Pair trawl		All falling nets	Anchovy falling net	Squid falling net		All traps	Stationary traps	Portable trap				
862	3,088	73	33	40	1	...	...	32	
433	1,177	123	32	91	515	3	...	208	
332	2	...	...	485	125	29	96	539	2	...	14	
3,551	1	...	...	1,240	59	54	5	8	...	...	18	
118	140	207	1	206	618	...	...	39	
3,217	6	...	...	737	1,083	49	1,033	2,814	...	...	46	
13,012	4	...	...	6	...	...	...	2	...	...	...
1,383	422	...	...	...	35	...	...	2	
16,735	6,309	193	129	63	437	95	...	320	
2,113	25	...	...	820	483	16	467	2,362	19	...	112	
740	5	...	...	528	206	17	190	1,432	...	...	99	
632	5	...	...	29	174	24	151	812	2	...	...
1,467	211	399	...	399	116	...	...	...
100	248	...	...	...	...	...	...	23	
121	352	1	1	...	...	...	...	2	
7,244	3,940	...	...	...	...	...	...	...
271	1,013	...	...	...	...	...	...	6	
1,994	1	...	...	241	32	30	2	6	...	...	7	
707	49	...	...	424	11	11	...	...	...	...	1,200	
23,164	13	6	...	5	...	...	...	...
5,839	16	...	...	5,623	144	112	32	1,927	28	...	354	
1,739	3	...	...	135	207	...	207	1,100	...	...	24	
28,316	1	...	...	1,450	6,104	...	6,104	1,695	...	...	61	
1,452	269	...	...	310	35	35	...	3	...	...	19	
774	3	...	...	109	144	...	144	420	...	...	...
1,122	6	...	...	477	57	23	34	419	...	...	...
343	2	...	...	56	50	...	50	117	...	...	29	
18,508	1	...	...	17	104	4	100	...	...	...	3	
943	6	...	...	100	18	6	12	100	...	...	5	
767	2	...	...	278	31	9	23	137	...	...	91	
914	1,661	45	44	1	71	...	...	8	
876	34	...	...	279	492	130	362	58	13	...	35	
2,294	7	...	...	66	43	2	41	103	...	...	...

3.4 Capture Production by Type of Fishing Gear and by Species, 2008

3.4.1 Malaysia (Cont'd)

MT

Scientific Name	FAO English Name	Purse Seine			Seine Net		
		All purse seine	Ancovy purse seine	Fish purse seine	All seine nets	Boat seine	Beach seine
<i>Muraenesox cinereus</i>	Pike-congers nei	...	...	...	1	...	...
<i>Trichiurus spp.</i>	Hairtails nei	288	...	288	...	...	...
<i>Sardinella spp.</i>	Sardinellas nei	16,630	197	16,433	...	...	...
<i>Dussumieria spp.</i>	Rainbow sardinells	20,228	88	20,140	5	...	...
<i>Stolephorus spp.</i>	Stolephorus anchovies	11,701	11,665	36	...	...	...
<i>Chirocentrus spp.</i>	Wolf-herring nei	92	40	52	2	...	...
<i>Euthynnus affinis</i>	Kawakawa	16,992	...	16,992	3	...	...
<i>Katsuwonus pelamis</i>	Skipjack tuna	130	...	130	1	...	...
<i>Thunnus tonggol</i>	Longtail tuna	34,899	...	34,899	16	...	...
<i>Istiophorus platyterus</i>	Indo-pacific sailfish	12	...	12	14	...	...
<i>Makaira mazara</i>	Indo-pacific blue marlin	1	...	1	...	...	...
<i>Megalaspis cordyla</i>	Hardtail scad	12,812	...	12,812	1	...	...
<i>Scomberoides spp.</i>	Queenfishes	33	...	33	10	...	...
<i>Rastrelliger kanagurta</i>	Indian mackerel	25,241	...	25,241	...	...	...
<i>Rastrelliger spp.</i>	Other rastrelliger mackerels	48,626	203	48,423	...	...	...
<i>Pampus argenteus</i>	Silver pomfrets nei	4	...	4	256	...	...
<i>Pampus chinensis</i>	Chinese silver pomfret	...	...	...	238	...	...
<i>Sphyræna spp.</i>	Barracudas nei	404	...	404	8	...	...
<i>Scomberomorus commerson</i>	Narrow-barred spanish mackerel	439	...	439	1	...	...
<i>Lactarius lactarius</i>	False trevally	...	...	...	...	...	...
<i>Rachycentron canadum</i>	Cobia	2	...	2	...	...	...
<i>Decapterus spp.</i>	Scad nei	89,794	...	89,794	...	...	...
<i>Caranx sexfasciatus</i>	Bigeye travally	4	...	4	2	...	...
<i>Alectis indicus</i>	Indian threadfish	265	...	265	14	...	...
<i>Gnathanodon speciosus</i>	Golden trevally	79	...	79	...	...	...
<i>Carangoides spp.</i>	Horse mackerel	244	...	244	...	...	...
<i>Atule mate</i>	Yellowtail scad	5,701	...	5,701	...	...	...
<i>Alepes spp.</i>	Scads	18,582	...	18,582	...	...	...
<i>Selar boops</i>	Oxeye scad	14,712	...	14,712	...	...	...
<i>Selarroides leptolepis</i>	Yellowstripe scad	11,626	...	11,626	...	...	...
<i>Seriolina nigrofasciata</i>	Blackbanded trevally	7	...	7	...	...	...
<i>Parastromateus niger</i>	Black pomfret	345	...	345	12	...	...
<i>Elagastis bipinnulata</i>	Rainbow runner	312	...	312	...	...	...

															MT
Trawl				Lift Net	Falling Net			Gill Net	Trap			Hook and Lines	Push/Scoop Net	Shell fish and seaweed collecting gear	Others
All trawls	Beam trawl	Otter board trawl	Pair trawl		All falling nets	Anchovy falling net	Squid falling net		All traps	Stationary traps	Portable trap				
2,232	273	33	32	1	3,221	...	...	2	
8,511	158	...	...	989	89	89	...	9	...	...	12	
632	12	...	...	335	...	...	...	37	...	...	150	
796	1,324	...	...	103	37	37	...	22	...	...	3	
247	6,270	...	...	25	48	48	...	...	...	...	13	
2,714	3	...	...	2,488	3	...	3	9	...	...	71	
30	96	...	...	1,400	...	...	...	1,327	...	...	...
116	1	...	...	72	...	...	...	9	...	...	...
1,776	142	...	...	3,178	2	...	2	1,357	...	...	122	
146	162	...	...	...	251	...	...	...
2	1	...	...	...	179	...	...	...
7,613	351	...	...	1,544	4	...	4	636	...	...	...
1,194	212	...	...	1,692	40	40	...	138	...	...	1	
13,658	743	...	...	7,633	43	39	4	1,131	...	...	...
20,299	3	...	...	...	2	1	1	...	...	...	...
2,058	47	...	...	840	80	80	...	2	6	...	14	
461	523	4	...	4	10	1	...	3	
4,996	288	...	...	477	88	67	21	1,712	1	...	5	
4,940	30	...	...	6,741	1	...	1	2,432	...	...	46	
75	286	...	...	...	...	...	...	...
386	1	...	...	34	14	...	14	268	...	...	...
4,034	1,666	...	...	359	7	1	6	652	...	...	438	
157	157	...	...	...	...	...	21	10	...	10	289	...	...	...
2,201	105	...	...	392	42	7	35	849	...	...	...
78	115	28	...	28	119	...	...	...
2,032	241	...	...	949	105	24	81	1,509	...	...	14	
1,909	8	...	...	259	1	1	...	28	76	...	...
5,365	912	...	...	1,669	71	48	24	1,085	20	...	2	
6,066	25	...	...	123	...	...	...	19	...	...	...
5,908	689	...	...	878	97	...	97	1,026	...	...	...
1,015	4	...	...	18	10	...	10	24	...	...	...
2,425	
172	72	...	...	111	3	...	3	152	...	...	...

3.4 Capture Production by Type of Fishing Gear and by Species, 2008

3.4.1 Malaysia (Cont'd)

MT

Scientific Name	FAO English Name	Purse Seine			Seine Net		
		All purse seine	Ancovy purse seine	Fish purse seine	All seine nets	Boat seine	Beach seine
<i>Dasyatis spp.</i>	Stingrays nei	3	...	3	10	...	...
<i>Portunus pelagicus</i>	Blue swimming crab	1	...	1	14	...	...
<i>Scylla serrata</i>	Indo-pacific swamp crab	...	...	...	...	...	...
<i>Thenus orientalis</i>	Flathead lobster	...	...	...	...	...	...
<i>Penaeus merguensis</i>	Banana prawn	...	...	...	546	...	...
<i>Penaeus monodon</i>	Giant tiger prawn	...	...	...	...	...	...
<i>Penaeus indicus</i>	Indian white prawn	13	...	13	16	...	...
<i>Penaeus latisulcatus</i>	Western king prawn	...	...	...	...	...	...
<i>Metapenaeus affinis</i>	Jinga shrimp	...	...	...	...	...	...
<i>Metapenaeus brevicornis</i>	Yellow shrimp	...	...	...	14	...	...
<i>Metapenaeus ensis</i>	Greasyback shrimp	...	...	...	...	...	...
<i>Metapenaeus lysianassa</i>	Bird shrimp	...	...	...	1,110	...	...
<i>Metapenaeus spp.</i>	Metapenaeus shrimps nei	285	285	...	1,923	...	...
<i>Parapenaeopsis coromandelica</i>	Coromandel shrimp	...	...	...	3	...	...
<i>Parapenaeopsis hardwickii</i>	Spear shrimp	21	...	21	79	...	...
<i>Panulirus spp.</i>	Tropical spiny lobster nei	2	...	2	...	...	...
<i>Parapenaeopsis sculptilis</i>	Rainbow shrimp	...	...	...	21	...	...
<i>Metapenaeopsis stridulans</i>	Fiddler shrimp	...	...	...	29	...	...
<i>Sepia spp.</i>	Cuttlefish	158	...	158	371	...	...
<i>Loligo spp.</i>	Common squids nei	5,219	3	5,216	399	399	...
<i>Octopus spp.</i>	Octopuses nei	2	...	2	...	...	...
<i>Platycephalus indicus</i>	Bartail Flatfish	2	...	2	308	...	...
<i>Thachysurus leiotetocephalus</i>	-	...	...	...	...	...	...
<i>Aluterus monoceros</i>	Unicorn leatherjacket	13	...	13	...	...	...
<i>Ablennes hians</i>	Flat needlefish	71	...	71	61	...	...
<i>Lobotes surinamensis</i>	Atlantic tripletail	...	...	...	...	...	...
<i>Megalops cyprinoides</i>	Indo-pacific tarpon	376	...	376	1	...	...
<i>Septipinna tenuifilis</i>	Common hairfin anchovy	...	...	...	...	...	...
<i>Coilia macrognathos</i>	Goldspotted grenader anchovy	...	...	...	...	...	...
-	Trash fish	26,909	2,112	24,798	10,360	...	...
-	Mixed fish	23,816	228	23,588	2,343	...	...
<i>Carcharhinus spp.</i>	Shark	101	...	101	1	...	...
<i>Acetes spp.</i>	Paste shrimp	...	...	...	198	...	...

															MT
Trawl				Lift Net	Falling Net			Gill Net	Trap			Hook and Lines	Push/Scoop Net	Shell fish and seaweed collecting gear	Others
All trawls	Beam trawl	Otter board trawl	Pair trawl		All falling nets	Anchovy falling net	Squid falling net		All traps	Stationary traps	Portable trap				
10,335	1	...	...	...	1,578	123	78	45	3,504	22	...	66
5,362	2,617	393	87	306	37	19	...	1,125
52	109	43	...	43	...	4	...	2,353
685	170	2	...	2	...	...	...	...
1,935	2,763	20	20	...	2	149	...	189
1,018	175	5	5	...	...	8	...	675
2,926	1,543	35	35	...	...	163	...	154
4,560	99	...	...	...	...	5	...	647
676	3	...	...	...	...	...	...	1
2,600	735	80	80	...	...	246	...	3,988
405
6,211	4,007	39	39	...	48	660	...	1,092
2,561	1,307	25	25	...	...	428	...	199
56	1	...	85
1,492	232	...	...	...	1	41	...	191
144	34	47	...	47	...	...	...	27
1,274	605	5	5	...	...	86	...	133
3,055	7	1	1	...	...	49	...	261
19,504	174	...	...	...	256	391	...	391	80	120	...	170
47,141	1,106	...	...	...	253	246	120	126	1,059	4	...	927
2,375	9	...	...	...	43	...	...	...	21	...	...	30
2,496	3	...	...	...	99	72	44	28	571	...	...	26
50	13	2	2	...	21	...	...	...
446	1	...	...	...	223	70	...	70	38	...	...	...
53	210	6	6	...	205	...	...	1
56	193	1	1	...	...	14	...	1
68	57	15	15	...	16	...	...	...
1	851	6	6	...	...	...	...	438
40	224	15	15	...	...	...	...	419
...	2,496	291	287	4	155	1,173	...	5,106
41,584	683	...	...	...	6,969	602	114	487	4,039	31	...	736
4007	1,952	76	668	3	...	1,730	...	884
22,973	671	668	3	...	1,730	...	884

3.4 Capture Production by Type of Fishing Gear and by Species, 2008
3.4.1 Malaysia (Cont'd)

MT

Scientific Name	FAO English Name	Purse Seine			Seine Net		
		All purse seine	Ancovy purse seine	Fish purse seine	All seine nets	Boat seine	Beach seine
<i>Squilla mantis</i>	-	...	...	...	...	...	...
<i>Circe scripta</i>	Script venus	...	...	...	...	...	...
<i>Orbicularia orbiculata</i>	Short-necked clam	...	...	...	...	...	...
Bivalves/ Gastropods	Other clams	1	...	1	...	...	...
<i>Rhopilema spp.</i>	Jellyfish	...	...	...	...	...	...

3.4 Capture Production by Type of Fishing Gear and by Species, 2008

3.4.1 Myanmar

MT

Scientific Name	FAO English Name	Purse Seine			Seine Net		
		All purse seine	Anchovy purse seine	Fish purse seine	All seine nets	Boat seine	Beach seine
<i>Johnius coiter</i>	Coitor croaker	...	...	...	...	...	...
<i>Otolithes ruber</i>	Tigertooth croaker	...	...	...	...	...	...
<i>Lutjanus argentimaculatus</i>	Mangrove red snapper	...	...	...	...	...	...
<i>Tenualosa ilisha</i>	hilsa	115,197	...	...	...	...	...
<i>Johnius belangerii</i>	-	65.3	...	...	...	...	...
<i>Arius maculatus</i>	-	3,187	...	...	...	...	...
<i>Cybium lineolatum</i>	Spanish maelaral	30.8	...	...	...	...	...
<i>Plectropomus areolatus</i>	Squartail coral grouper	...	...	...	...	...	...
<i>Pseudorhombus arsius</i>	Largetooth flounder	...	...	...	...	...	...
<i>Chrysoahir aureus</i>	Reeve's croaker	...	...	...	...	...	...
<i>Nemipterus japonicus</i>	Threadfin bream	...	...	...	...	...	...
<i>Leiognathus spp.</i>	Ponyfishes	108	...	...	...	...	...
<i>Pomadasyd spp.</i>	Grunts	...	...	...	...	...	...
<i>Lethrinus spp.</i>	Emperors	...	...	...	...	...	...
<i>Gerres spp.</i>	Mojarras nei	...	...	...	...	...	...
<i>Drepane punctata</i>	Spotted sicklefish	...	...	...	...	...	...
<i>Polynemus indicus</i>	Threadfins	...	...	...	...	...	...
<i>Abalister stellaris</i>	Starry tigerfish	...	...	...	...	...	...
<i>Lagocephalus lunaris</i>	Lunartail puffer	525	...	...	...	...	...
<i>Leiognathus equulus</i>	Common ponyfish	...	...	...	...	...	...
<i>Upeneus tragula</i>	Freckled goatfish	...	...	...	...	...	...
<i>Pentaprion longimanus</i>	Longfin mojarra	...	...	...	...	...	...
<i>Plotosus canius</i>	Greyeeck catfish	...	...	...	...	...	...
<i>Otolithoides biauritus</i>	Bronze croaker	...	...	...	...	...	...
<i>Cephalopholis spp.</i>	Grouper	...	...	...	...	...	...
<i>Trichiurus spp.</i>	Hairtails nei	28	...	...	...	...	...
<i>Chirocentrus spp.</i>	Wolf-herring nei	...	...	...	...	...	...
<i>Euthynnus affinis</i>	Kawakawa	...	...	...	...	...	...
<i>Istiophorus platypterus</i>	Indo-pacific blur marlin	11.9	...	...	...	...	...
<i>Saurida elongata</i>	Blunt nose lizard fish	...	...	...	...	...	...
<i>Congresox talaboniodes</i>	Indian pike conger	...	...	...	...	...	...
<i>Coilia dussumieri</i>	Goldspotted grenadier anchovy	...	...	...	...	...	...
<i>Scomberomorus guttatus</i>	Indo-pacific king mackerel	...	...	...	...	...	...

														MT	
Trawl				Lift Net	Falling Net			Gill Net	Trap			Hook and Lines	Push/ Scoop Net	Shell fish and seaweed collect- ing gear	Others
All trawls	Beam trawl	Otter board trawl	Pair trawl		All falling nets	Anchovy falling net	Squid falling net		All traps	Station- ary traps	Porta- ble trap				
...	32	...	...	...	...	...	...	...
174
88	3	...	...	...	27	...	...	4,755
...
80.7	50.9	...	...	...	...	...	...	...
4.3	1,467	1,993	...	...	...	...	...	43
...
3
340
72
6
494
622
32
314
206
...	5,463	...	...	...	...	...	...	...
354
4	465	...	...	...	...	...	...
7
2
1,159
83
...	7.8	...	...	...	...	...	...	...
...	31	...	...	...	...
924	40,317	...	...	...	...	...	...
151
9	313	224	...	...	...	...	...	82
...	434	...	...	...	...	...	...	...
5	70	...	...	...	...	...	...	...
181	344	...	...	...	...	...	...
75
1,052	5,463	740	...	...	...	...	...	28

3.4 Capture Production by Type of Fishing Gear and by Species, 2008

3.4.1 Myanmar (Cont'd)

MT

Scientific Name	FAO English Name	Purse Seine			Seine Net		
		All purse seine	Ancovy purse seine	Fish purse seine	All seine nets	Boat seine	Beach seine
<i>Lactarius lactarius</i>	Flase trevally	...	...	...	...	...	...
<i>Rachycentron canadum</i>	Cobia	5,182	...	...	...	...	...
<i>Seriolina nigrofasciata</i>	Blackbanded trevally	...	...	...	...	...	...
<i>Parastromateus niger</i>	Black pomfret	...	...	....	...	...	...
<i>Carangoides ferdaui</i>	Blue trevally	2	...	...	...	...	...
<i>Lobotes surinamensis</i>	Tripletail	...	...	...	...	...	...
<i>Harpodon nehereus</i>	Bombay-duck	...	...	...	...	...	...
<i>Megalaspis cordyla</i>	Hardtail scad	9,369	...	...	...	...	...
<i>Scomberoides commersonianus</i>	Talang queenfish	2,336	...	...	...	...	...
<i>Coryphaena hippurus</i>	Dolphinfish	...	...	...	...	...	...
<i>Rastrelliger kanagurta</i>	Indian mackerel	9.8	...	...	...	...	...
<i>Spyraena barracuda</i>	Great barracuda	22	...	...	...	...	...
<i>Pampus argenteus</i>	Silver pomfrets	3,265	...	...	...	...	...
<i>Scylla serrata</i>	Inso-pacific swamp crab	...	...	...	...	...	...
<i>Rhinoptera javanica</i>	Flapnose ray	...	...	...	...	...	...
<i>Penaeus spp.</i>	Shrimp	...	...	...	...	...	...
<i>Loligo duvauceli</i>	Squids	...	...	...	...	...	...
<i>Sepia aculeata</i>	Cuttlefish	...	...	...	...	...	...

															MT
Trawl				Lift Net	Falling Net			Gill Net	Trap			Hook and Lines	Push/Scoop Net	Shell fish and seaweed collecting gear	Others
All trawls	Beam trawl	Otter board trawl	Pair trawl		All falling nets	Anchovy falling net	Squid falling net		All traps	Stationary traps	Portable trap				
26	
42	848	...	...	...	...	...	...	...
2,419	
...	539	...	...	...	...	...	...	...
122	654	...	...	...	...	...	...	4,240	
...	67	...	...	...	...	...	...	...
...	3,229	...	...	...	...	...	...	...
1,358	2,509	...	...	...	...	...	...
64	1,500	329	...	...	...	...	...	...
37	23	...	...	4,582	
9.8	
4	351	...	...	...	...	...	...
225	188	10,260	...	...	...	...	...	...
565	
315	
5	
3	
3	234	...	...	...	...	...	...

3.4 Capture Production by Type of Fishing Gear and by Species, 2008

3.4.1 Singapore

MT

Scientific Name	FAO English Name	Purse Seine			Seine Net		
		All purse seine	Ancovy purse seine	Fish purse seine	All seine nets	Boat seine	Beach seine
<i>Lates calcarifer</i>	Barramundi	...	...	...	...	...	...
<i>Saurida spp.</i>	Lizard fishes	...	...	...	...	...	...
<i>Arius spp.</i>	Seacatfishes	...	...	...	...	...	...
<i>Lisa spp.</i>	Mullet	...	...	...	...	...	...
<i>Caesio spp.</i>	Fusiliers	...	...	...	...	...	...
<i>Epinephelus spp.</i>	Grouper nei	...	...	...	...	...	...
<i>Sillago spp.</i>	Sillago whittings	...	...	...	...	...	...
<i>Mene maculata</i>	Moonfish	...	...	...	...	...	...
<i>Pennahia spp.</i>	Croakers & drum	...	...	...	...	...	...
<i>Lutjanus spp.</i>	Snappers nei	...	...	...	...	...	...
<i>Nemipterus spp.</i>	Threadfin bream nei	...	...	...	...	...	...
<i>Leiognathus spp.</i>	Ponyfishes	...	...	...	...	...	...
<i>Pomydasys spp.</i>	Grunts	...	...	...	...	...	...
<i>Polynemus spp.</i>	Threadfins	...	...	...	...	...	...
<i>Siganus spp.</i>	Spinefeet	...	...	...	...	...	...
<i>Trichiurus spp.</i>	Hairtails nei	...	...	...	...	...	...
<i>Chirocentrus spp.</i>	Wolf-herring nei	...	...	...	...	...	...
<i>Katsuwonus pelamis</i>	Skipjack tuna	...	...	...	...	...	...
<i>Scomberomorus commerson</i>	Narrow-barred spanish	...	...	...	...	...	...
<i>Carangoides spp.</i>	Horse mackerel	...	...	...	...	...	...
<i>Alepes spp.</i>	Scads	...	...	...	...	...	...
<i>Parastromateus niger</i>	Black pomfret	...	...	...	...	...	...
<i>Scomberoides spp.</i>	Queenfishes	...	...	...	...	...	...
<i>Rastrelliger kanagurta</i>	Indian mackerel	...	...	...	...	...	...
<i>Pampus argenteus</i>	Silver pomfret	...	...	...	...	...	...
<i>Pampus chinensis</i>	Chinese Silver pomfret	...	...	...	...	...	...
<i>Sphyrna spp.</i>	Barracudas nei	...	...	...	...	...	...
<i>Isurus spp.</i>	Mako sharks	...	...	...	...	...	...
<i>Dasyatis spp.</i>	Stingrays nei	...	...	...	...	...	...
<i>Portunus pelagicus</i>	Blue swimming crab	...	...	...	...	...	...
<i>Scylla serrata</i>	Indo-pacific swamp crab	...	...	...	...	...	...
<i>Panulirus polyphagus</i>	Mud spiny lobster	...	...	...	...	...	...
<i>Panulirus spp.</i>	Tropical spiny lobsters nei	...	...	...	...	...	...

3.4 Capture Production by Type of Fishing Gear and by Species, 2008
3.4.1 Singapore (Condn't)

MT

Scientific Name	FAO English Name	Purse Seine			Seine Net		
		All purse seine	Ancovy purse seine	Fish purse seine	All seine nets	Boat seine	Beach seine
<i>Penaeus spp.</i>	Penaeus shrimps nei	...	...	...	...	...	...
<i>Sepia spp.</i>	Cuttlefish	...	...	...	...	...	...
<i>Loligo spp.</i>	Common squids nei	...	...	...	...	...	...
<i>Lethrinus spp.</i>	Emoerors	...	...	...	...	...	...
Osteichthyes	Marine fish nei	...	...	...	...	...	...

4. INLAND CAPTURE FISHERY STATISTICS

4.1 Inland Capture Fishery Production by Species and Fishing Area, 2008

4.1.1 In Quantity

MT

Scientific Name	FAO English Name	Fishing Area	Brunei	Cambodia
<i>Cyprinus carpio</i>	Common carp	04	...	...
<i>Ctenopharyngodon idellus</i>	Grass carp	04	...	...
<i>Osteochilus haseltii</i>	Nilem carp	04	...	...
<i>Leptobarbus hoeveni</i>	Hoven's carp	04	...	...
<i>Puntius bionotatus</i>	Spotted barb	04	...	...
<i>Cyclochelichthys apogon</i>	Beardless barb	04	...	...
<i>Hampala macrolepidota</i>	Hampala barb	04	...	...
<i>Labiobarbus festivus</i>	Singal carp	04	...	...
<i>Rasbora argyrotaenio</i>	Silver rasbora	04	...	...
<i>Thynnichthys vailanti</i>	-	04	...	...
Cyprinidae	Cyprinids nei	04	...	...
<i>Tor douronensis</i>	River carp	04	...	...
<i>Tor soro</i>	-	04	...	...
<i>Barbichthys laevis</i>	-	04	...	...
<i>Barbodes balleroides</i>	-	04	...	...
<i>Barbonymus schwanenfeldii</i>	Tinfoil barb	04	...	...
<i>Barbonymus gonionotus</i>	Silver barb	04	...	...
<i>Mystacoleus marginatus</i>	-	04	...	...
<i>Macrochirichthys macrochirus</i>	-	04	...	...
<i>Puntioplites waandersi</i>	-	04	...	...
<i>Oreochromis (=Tilapia) spp.</i>	Tilapia nei	04	...	...
<i>Oreochromis mossambicus</i>	Mozambique tilapia	04	...	...
<i>Oreochromis niloticus</i>	Nile tilapia	04	...	...
<i>Chitala lopis</i>	Giant featherback	04	...	...
<i>Kryptopterus spp.</i>	Glass catfish	04	...	...
<i>Ompok bimacularus</i>	Butter catfish	04	...	...
<i>Mystus nemurus</i>	Asian redbtail catfish	04	...	...
<i>Mystus nigriceps</i>	Mystus wyckii	04	...	...
<i>Clarias spp.</i>	Torpedo-shaped catfishes nei	04	...	...
<i>Pangasius djambal</i>	Catfishes	04	...	...
<i>Pangasius spp.</i>	Pangas catfish nei	04	...	...
<i>Anguilla spp.</i>	River eels nei	04	...	...
<i>Monopterus albus</i>	Lai	04	...	...

							MT	
Indonesia	Lao PDR	Malaysia	Myanmar	Philippines	Singapore	Thailand	Vietnam	
8,183	15,600	...	
1,005	
5,833	41,800	...	
3,662	
18	
2,450	
160	
167	
713	
594	
...	18,465	...	...	...
1,116	
2	
34	
26	
4,540	
7,576	
22	
109	
1,678	
...	42,704	...	52,300	...	
8,548	
15,492	
1,880	
13,167	
317	
12,350	
571	
14,323	5,517	...	11,700	...	
9,724	
...	6,400	...	
645	710	...	...	...
...	200	...	

4.1 Inland Capture Fishery Production by Species and Fishing Area, 2008

4.1.1 In Quantity (Cont'd)

MT				
Scientific Name	FAO English Name	Fishing Area	Brunei	Cambodia
<i>Anabus testudineus</i>	Climbing perch	04	...	...
<i>Osphronemus goramy</i>	Giant gourami	04	...	...
<i>Trichogaster pectoralis</i>	Snakeskin gourami	04	...	...
<i>Trichogaster trichopterus</i>	Three spot gourami	04	...	...
<i>Helostoma temminckii</i>	Kissing gourami	04	...	...
<i>Channa striata</i>	Striped snakehead	04	...	...
<i>Channa micropeltes</i>	Indonesian snakehead	04	...	...
<i>Scleropages formosus</i>	Asian bonytongue	04	...	...
<i>Chromobotia macracanthus</i>	Clown loach	04	...	...
<i>Mastacembelus erythrotaenia</i>	Fire eel	04	...	...
<i>Botia macracanthus</i>	Clown loach	04	...	...
<i>Toxotes microlepis</i>	Smallscale archerfish	04	...	...
<i>Pristolepis fasciata</i>	Malayan leaffish	04	...	...
Osteichthyes	Freshwater crustacean nei	04	...	364,600
<i>Chanos chanos</i>	Milkfish	04	...	...
<i>Scatophagus spp.</i>	Scats	04	...	...
Ariidae	Sea ccatfishes nei	04	...	...
Mugiidae	Mulletts nei	04	...	...
Gobiidae	Freshwater gobies nei	04	...	...
<i>Macrobrachium rosenbergii</i>	Giant river prawn	04	...	...
<i>Portunus pelagicus</i>	Blue swimming crab	04	...	...
<i>Scylla serrata</i>	Indo-pacific swamp crab	04	...	...
Palaemonidae	Freshwater prawns nei	04	...	...
Crustacea	Freshwater crustaceans nei	04	...	66,000
Natantia	Natantian decapods nei	04	...	...
Mollusca	Marine molluscs nei	04	...	...
Eleotridae	Gudgeons, sleepers nei	04	...	...
<i>Rana spp.</i>	Frogs	04	...	...
Testudinata	River lake turtles nei	04	...	...
Invertebrata	Aquatic invertebrates nei	04	...	...

							MT
Indonesia	Lao PDR	Malaysia	Myanmar	Philippines	Singapore	Thailand	Vietnam
11,372	2,330	...	12,300	...
1,339
17,588	6,108	...	5,100	...
12,350
12,703
29,842	10,000	...	20,300	...
7,506
3
2,793
18
21
4
320
297,192	81,387	3,945	814,740	8,704	...	59,700	133,400
...	3,714	...	...	...
...	239	...	...	...
...	2,482	...	...	...
...	865	...	...	...
...	6,111	...	...	...
6,860	1,440	...	...	...
...	286	...	...	...
...	767	...	...	...
2,256	...	408	...	...	...	...	...
138
6,098	6,268	...	...	11,400
310	62,781	...	...	...
1,690
1,520
81
831

4.1 Inland Fishery Production by Species and Fishing Area, 2008

4.1.2 In Value

US\$ 1,000

Scientific Name	FAO English Name	Fishing Area	Brunei	Cambodia
<i>Cyprinus carpio</i>	Common carp	04	...	...
<i>Ctenopharyngodon idellus</i>	Grass carp	04	...	...
<i>Osteochilus haseltii</i>	Nilem carp	04	...	...
<i>Leptobarbus hoeveni</i>	Hoven's carp	04	...	...
<i>Puntius bionotatus</i>	Spotted barb	04	...	...
<i>Cyclochelichthys apogon</i>	Beardless barb	04	...	...
<i>Hampala macrolepidota</i>	Hampala barb	04	...	...
<i>Labiobarbus festivus</i>	Singal carp	04	...	...
<i>Rasbora argyrotaenio</i>	Silver rasbora	04	...	...
<i>Thynnichthys vailanti</i>	-	04	...	...
Cyprinidae	Cyprinids nei	04	...	...
<i>Tor douronensis</i>	River carp	04	...	...
<i>Tor soro</i>	-	04	...	...
<i>Barbichthys laevis</i>	-	04	...	...
<i>Barbodes balleroides</i>	-	04	...	...
<i>Barbonymus schwanenfeldii</i>	Tinfoil barb	04	...	...
<i>Barbonymus gonionotus</i>	Silver barb	04	...	...
<i>Mystacoleus marginatus</i>	-	04	...	...
<i>Mystacoleus padangensis</i>	-	04	...	...
<i>Macrochirichthys macrochirus</i>	-	04	...	...
<i>Puntioplites waandersi</i>	-	04	...	...
<i>Oreochromis (=Tilapia) spp.</i>	Tilapia nei	04	...	...
<i>Oreochromis mossambicus</i>	Mozambique tilapia	04	...	...
<i>Oreochromis niloticus</i>	Nile tilapia	04	...	...
<i>Chitala lopis</i>	Giant featherback	04	...	...
<i>Kryptopterus spp.</i>	Glass catfish	04	...	...
<i>Ompok bimacularus</i>	Butter catfish	04	...	...
<i>Mystus nemurus</i>	Asian redbtail catfish	04	...	...
<i>Mystus nigriceps</i>	Mystus wyckii	04	...	...
<i>Clarias spp.</i>	Torpedo-shaped catfishes nei	04	...	...
<i>Pangasius djambal</i>	Catfishes	04	...	...
<i>Pangasius spp.</i>	Pangas catfish nei	04	...	...
<i>Anguilla spp.</i>	River eels nei	04	...	...
<i>Monopterus albus</i>	Lai	04	...	...

4.1 Inland Capture Fishery Production by Species and Fishing Area, 2008
4.1.1 In Value (Cont'd)

US\$ 1,000

Scientific Name	FAO English Name	Fishing Area	Brunei	Cambodia
<i>Anabus testudineus</i>	Climbing perch	04	...	...
<i>Osphronemus goramy</i>	Giant gourami	04	...	...
<i>Trichogaster pectoralis</i>	Snakeskin gourami	04	...	...
<i>Trichogaster trichopterus</i>	Three spot gourami	04	...	...
<i>Helostoma temminckii</i>	Kissing gourami	04	...	...
<i>Channa striata</i>	Striped snakehead	04	...	...
<i>Channa micropeltes</i>	Indonesian snakehead	04	...	...
<i>Scleropages formosus</i>	Asian bonytongue	04	...	...
<i>Chromobotia macracanthus</i>	Clown loach	04	...	...
<i>Mastacembelus erythrotaenia</i>	Fire eel	04	...	...
<i>Botia macracanthus</i>	Clown loach	04	39	...
<i>Toxotes microlepis</i>	Smallscale archerfish	04	...	...
<i>Pristolepis fasciata</i>	Malayan leaf-fish	04	...	...
Osteichthyes	Freshwater crustacean nei	04	...	...
<i>Chanos chanos</i>	Milkfish	04	...	...
<i>Scatophagus spp.</i>	Scats	04	...	...
Ariidae	Sea catfishes nei	04	...	...
Mugiidae	Mulletts nei	04	...	...
Gobiidae	Freshwater gobies nei	04	...	...
<i>Macrobrachium rosenbergii</i>	Giant river prawn	04	...	...
<i>Portunus pelagicus</i>	Blue swimming crab	04	...	...
<i>Scylla serrata</i>	Indo-pacific swamp crab	04	...	...
Palaemonidae	Freshwater prawns nei	04	...	...
Crustacea	Freshwater crustaceans nei	04	...	...
Natantia	Natantian decapods nei	04	...	...
Mollusca	Freshwater molluscs nei	04	...	...
Mollusca	Marine molluscs nei	04	...	...
Eleotridae	Gudgeons, sleepers nei	04	...	...
<i>Rana spp.</i>	Frogs	04	...	...
Testudinata	River lake turtles nei	04	...	...
Invertebrata	Aquatic invertebrates nei	04	...	...

US\$ 1,000							
Indonesia	Lao PDR	Malaysia	Myanmar	Philippines	Singapore	Thailand	Vietnam
22,380	2,556	...	15,011	...
2,219
19,454	4,325	...	6,288	...
6,849
15,113
50,472	16,765	...	41,180	...
12,799
...
2,972
13
...
1
96
69,834	240,334	7,206	788,325	10,997	...	38,930	...
...	5,725	...
...	669	...	...	...
...	1,841	...	...	...
...	1,399	...	...	...
...	7,616	...	...	...
32,397	4,881	...	...	...
...	591	...	...	...
...	2,630	...	...	...
3,575	...	3,084	...	...	...	...	...
146
13,552	10,116	...	...	...
215	4,829	...	...	...
265
8,019
2,481
91
18

4.2 Inland Fishery Production by Water bodies

4.2.1 In Quantity

MT

Water Bodies	Brunei	Cambodia	Indonesia	Lao PDR
Total	494,395	...
Lakes	226,097	...
Rivers	203,828	...
Flood plain/ rice fields	50,379	...
Reservoirs	13,917	...
Others	174	...

4.2.2 In Value

US\$ 1,000

Water Bodies	Brunei	Cambodia	Indonesia	Lao PDR
Total	533,312	...
Lakes	145,462	...
Rivers	313,955	...
Flood plain/ rice fields	60,545	...
Reservoirs	13,162	...
Others	189	...

MT

Malaysia	Myanmar	Philippines	Singapore	Thailand	Vietnam
4,352	814,740	181,678	...	...	...
274		...	...	...	...
2,304	625,132	...	...	...	...
598		...	...	...	...
595		...	...	...	...
581	189,608	...	...	...	...

US\$ 1,000

Malaysia	Myanmar	Philippines	Singapore	Thailand	Vietnam
10,291	788,325	159,652	...	...	...
466		...	...	...	...
6,817	604,773	...	...	...	...
890		...	...	...	...
1,118		...	...	...	...
1,000	183,552	...	...	...	...

5. AQUACULTURE STATISTICS

5.1 Aquaculture Production by Species and Fishing Area, 2008

5.1.1 In Quantity

MT				
Scientific Name	FAO English Name	Fishing Area	Brunei	Cambodia
<i>Cyprinus carpio</i>	Common carp	04	...	...
<i>Labeo rohita</i>	Roho labeo	04	...	...
<i>Cirrhinus mrigala</i>	Mrigal carp	04	...	...
<i>Ctenopharyngodon idellus</i>	Grass carp	04	...	...
<i>Hypophthalmichthys molitrix</i>	Silver carp	04	...	...
<i>Hypophthalmichthys nobilis</i>	Bighead carp	04	...	...
<i>Leptobarbus hoeveni</i>	Hoven's carp	04	...	...
<i>Barbonymus gonionotus</i>	Silver barb	04	...	...
<i>Catla catla</i>	Catla	04	...	...
Cyprinidae	Cyprinids nei	04	...	...
<i>Oreochromis (=Tilapia) spp.</i>	Tilapia nei	04	...	...
<i>Oreochromis mossambicus</i>	Mozambique tilapia	04	...	...
<i>Oreochromis niloticus</i>	Nile tilapia	04	...	...
<i>Notopterus spp.</i>	Knifefishes	04	...	...
<i>Mystus nemurus</i>	Asian redtail catfish	04	...	...
<i>Clarias spp.</i>	Torpedo-shaped catfishes nei	04	...	...
<i>Pangasius pangasius</i>	Pangas catfish	04	...	...
<i>Pangasius hypophthalmus</i>	Striped catfish	04	...	...
<i>Pangasius spp.</i>	Pangas catfish nei	04	...	...
<i>Monopterus albus</i>	Lai	04	...	...
<i>Anabus testudineus</i>	Climbing perch	04	...	...
<i>Osphronemus gouramy</i>	Giant gourami	04	...	...
<i>Trichogaster spp.</i>	Gouramis	04	...	...
<i>Trichogaster pectoralis</i>	Snakeskin gourami	04	...	...
<i>Channa striata</i>	Striped snakehead	04	...	...
<i>Chana micropeltes</i>	Indonesian snakehead	04	...	...
<i>Oxyeleotris mamoratus</i>	Marble goby	04	...	...
-	Pirapatinga	04	...	...
Osteichthyes	Freshwater fishes nei	04	0.06	38,350
<i>Lates calcarifer</i>	Giant seaperch (=Barramundi)	57	...	...
<i>Lates calcarifer</i>	Giant seaperch (=Barramundi)	71	...	...
<i>Cromileptis altivelis</i>	Humpback grouper	57	...	...
<i>Cromileptis altivelis</i>	Humpback grouper	71	...	...

							MT
Indonesia	Lao PDR	Malaysia	Myanmar	Philippines	Singapore	Thailand	Vietnam
242,322	...	773	18,563	...	...	4,100	75,000
...	433,130	...	...	2,375	...
...	24,750	...	...	1,154	...
...	...	350	12,375	...	...	...	...
25,993	6,188	...	...	...	...
...	...	2,385	8,663	...	...	...	...
3,287	...	1,824	...	...	...	...	...
...	...	657	...	...	...	54,300	...
...	37,126	...	...	...	...
...	340,000
291,038	...	26,529	30,938	...	...	...	50,000
37,793	...	8,294	...	...	...	...	...
...	217,200	...
...
...	...	843	...	...	...	...	...
114,371	...	41,487	...	...	...	...	10,000
...	...	7,844	...	...	...	...	1,250,000
...	21,500	...
102,021	12,375	...	...	136,500	...
...
...
36,637	1,246	...
3,955	150	...
1,786	28,500	...
...	8,300	...
14,540	...	896	...	...	...	220	...
489	...	96	...	...	...	80	...
...	64,300	...	...	...	...	...	66,000
47,427	...	3,699	18,563	311,059	283	9,475	127,300
...	...	6,287	...	...	...	1,800	...
4,371	...	5,418	...	...	...	10,200	...
...	2,453	...
...	652	...

5.1 Aquaculture Production by Species and Fishing Area, 2008
5.1.1 In Quantity (Cont'd)

					MT
Scientific Name	FAO English Name	Fishing Area	Brunei	Cambodia	
<i>Epinephelus tauvina</i>	Greasy grouper	57	...	...
<i>Epinephelus tauvina</i>	Greasy grouper	71	...	...
<i>Liza vaigiensis</i>	Squaretail mullet	71	...	...
<i>Lutjanus argentimaculatus</i>	Mangroves red snapper	57	...	...
<i>Lutjanus argentimaculatus</i>	Mangroves red snapper	71	...	...
Osteichthyes	Marine fishes nei	57	...	...
Osteichthyes	Marine fishes nei	71	...	...
<i>Macrobrachium rosenbergii</i>	Giant river prawn	04	...	...
<i>Scylla serrata</i>	Indo-pacific swamp crab	57	...	...
<i>Scylla serrata</i>	Indo-pacific swamp crab	71	...	...
<i>Penaeus merguensis</i>	Banana prawn	57	...	...
<i>Penaeus merguensis</i>	Banana prawn	71	...	...
<i>Penaeus vannamei</i>	Whiteleg shrimp	57	...	...
<i>Penaeus vannamei</i>	Whiteleg shrimp	71	...	...
<i>Penaeus monodon</i>	Giant tiger prawn	57	...	...
<i>Penaeus monodon</i>	Giant tiger prawn	71	390	...	
<i>Penaeus indicus</i>	Indian white prawn	71	...	...
<i>Penaeus spp.</i>	Penaeus shrimps nei	71	100,000*	75	
<i>Crassostrea spp.</i>	Cupped oysters nei	57	...	...
<i>Crassostrea spp.</i>	Cupped oysters nei	71	...	...
<i>Perna viridis</i>	Green mussel	57	...	...
<i>Perna viridis</i>	Green mussel	71	...	800	
<i>Anadara granosa</i>	Blood cockle	57	...	...
<i>Anadara granosa</i>	Blood cockle	71	...	495	
-	Marine molluscs nei	71	...	...
-	Freshwater crustacean	71	...	...
<i>Rana spp.</i>	Frogs	04	...	...
<i>Trionyx simensis</i>	Soft-shell turtle	04	...	...
-	Seaweeds	71	...	...

5.1 Aquaculture Production by Species and Fishing Area, 2008

5.1.1 In Value

US\$ 1,000

Scientific Name	FAO English Name	Fishing Area	Brunei	Cambodia
<i>Cyprinus carpio</i>	Common carp	04	...	...
<i>Labeo rohita</i>	Roho labeo	04	...	...
<i>Cirrhinus mrigala</i>	Mrigal carp	04	...	...
<i>Ctenopharyngodon idellus</i>	Grass carp	04	...	...
<i>Hypophthalmichthys molitrix</i>	Silver carp	04	...	...
<i>Hypophthalmichthys nobilis</i>	Bighead carp	04	...	...
<i>Leptobarbus hoeveni</i>	Hoven's carp	04	...	...
<i>Barbonymus gonionotus</i>	Silver barb	04	...	...
<i>Catla catla</i>	Catla	04	...	...
Cyprinidae	Cyprinid nei	04	...	...
<i>Oreochromis (=Tilapia) spp.</i>	Tilapia nei	04	...	...
<i>Oreochromis mossambicus</i>	Mozambique tilapia	04	...	...
<i>Oreochromis niloticus</i>	Nile tilapia	04	...	...
<i>Notopterus spp.</i>	Knifefishes	04	...	...
<i>Mystus nemurus</i>	Asian redbtail catfish	04	...	...
<i>Clarias spp.</i>	Torpedo-shaped catfishes nei	04	...	...
<i>Pangasius pangasius</i>	Pangus catfish	04	...	...
<i>Pangasius hypophthalmus</i>	Striped catfish	04	...	...
<i>Pangasius spp.</i>	Pangas catfish nei	04	...	...
<i>Monopterus albus</i>	Lai	04	...	...
<i>Anabus testudineus</i>	Climbing perch	04	...	...
<i>Osphronemus goramy</i>	Giant gourami	04	...	...
<i>Trichogaster spp.</i>	Gouramis	04	...	...
<i>Trichogaster pectoralis</i>	Snakeskin gourami	04	...	...
<i>Channa striata</i>	Striped snakehead	04	...	...
<i>Channa micropeltes</i>	Indonesian snakehead	04	...	...
<i>Oxyeleotris mamoratus</i>	Marble goby	04	...	...
-	Pirapatinga	04	...	...
Osteichthyes	Freshwater nei	04	97.90	57,525
<i>Lates calcarifer (Barramundi)</i>	Giant seaperch	57	...	...
<i>Lates calcarifer (Barramundi)</i>	Giant seaperch	71	...	...
<i>Epinephalus tauvina</i>	Greasy grouper	57	...	...
<i>Epinephalus tauvina</i>	Greasy grouper	71	...	...

US\$ 1,000							
Indonesia	Lao PDR	Malaysia	Myanmar	Philippines	Singapore	Thailand	Vietnam
...	...	1,125	14,850	...	...	3,360	112,500
...	389,817	...	...	2,051	...
...	47,026	...	...	930	...
...	...	741	9,900	...	...	...	...
...	4,950	...	...	256	...
...	...	3,767	6,930	...	...	...	...
...	...	8,994	...	...	...	...	...
...	...	1,057	...	...	...	49,250	...
...	48,263	...	...	...	...
...	510,000
...	...	42,532	24,750	...	...	...	75,000
...	...	12,764	...	...	...	111	...
...	181,185	...
...	2	...
...	...	2,619	...	...	...	...	...
...	...	41,487	...	...	...	...	15,000
...	...	13,812	...	...	...	...	1,875,000
...	14,659	...
...	9,900	...	...	...	...
...	75	...
...	1,973	...
...	1,973	...
...	78	...
...	43,161	...
...	16,343	...
...	...	1,751	...	...	...	...	...
...	...	1	...	...	...	668	...
...	9,000
1,398,411	91,141	7,792	18,563	387,286	1,180	128,720	250,950
...	...	22,521	...	...	...	6,082	...
...	...	21,891	...	...	...	41,238	...
...	...	10,571	...	...	...	15,817	...
...	...	24,145	...	...	...	4,110	...

5.1 Aquaculture Production by Species and Fishing Area, 2008
5.1.1 In Value (Cont'd)

US\$ 1,000

Scientific Name	FAO English Name	Fishing Area	Brunei	Cambodia
<i>Lutjanus argentimaculatus</i>	Mangroves red snapper	57	...	...
<i>Lutjanus argentimaculatus</i>	Mangroves red snapper	71	...	...
Osteichthyes	Marine fishes nei	57	...	...
Osteichthyes	Marine fishes nei	71	294	4,265
<i>Chiloscyllium griseum</i>	Grey bambooshark	71	...	...
<i>Macrobrachium rosenbergii</i>	Giant river prawn	04	...	...
<i>Scylla serrata</i>	Indo-pacific swamp crab	57	...	...
<i>Scylla serrata</i>	Indo-pacific swamp crab	71	...	...
<i>Penaeus merguensis</i>	Banana prawn	57	...	...
<i>Penaeus merguensis</i>	Banana prawn	71	...	...
<i>Penaeus monodon</i>	Giant tiger prawn	57	...	...
<i>Penaeus monodon</i>	Giant tiger prawn	71	...	...
<i>Penaeus vannamei</i>	Whiteleg shrimp	57	...	...
<i>Penaeus vannamei</i>	Whiteleg shrimp	71	...	...
<i>Penaeus indicus</i>	Indian white prawn	71	...	...
<i>Crassostrea spp.</i>	Cupped oysters nei	57	...	...
<i>Crassostrea spp.</i>	Cupped oysters nei	71	...	...
<i>Perna viridis</i>	Green mussel	57	...	...
<i>Perna viridis</i>	Green mussel	71	...	...
<i>Anadara granosa</i>	Blood cockle	57	...	...
<i>Anadara granosa</i>	Blood cockle	71	...	...
-	Freshwater crustacea	04	...	...
-	Gracilaria seaweeds	71	...	...
-	Marine molluscs nei	71	...	...
<i>Rana spp.</i>	Frogs	04	...	...
<i>Trionyx simensis</i>	Soft-shell turtle	04	...	...

US\$ 1,000							
Indonesia	Lao PDR	Malaysia	Myanmar	Philippines	Singapore	Thailand	Vietnam
...	...	10,706	...	...	...	...	...
...	...	5,592	...	...	...	...	...
2,824,087	...	1,531	...	...	...	...	...
...	...	4,515	...	1,331,348	8,062	...	7,500
...	193,213	...	...	...	...
...	...	2,846	14,404	...	...	110,751	...
...	...	266	...	...	...	...	...
...	...	10	...	...	...	52	...
...	...	66,517	...	...	...	...	...
...	...	60,117	...	...	...	1,727	32,400
...	...	28,416	...	...	...	3,022	...
...	...	55,689	...	...	...	3,022	1,298,400
...	35,550	...
...	1,328,469	154,400
...	40,000
...	...	3	...	...	...	...	...
...	...	733	...	...	...	...	...
...	...	40	...	...	...	446	...
...	...	5,503	...	...	...	20,721	...
...	...	2,778	...	...	...	383	...
...	...	48	...	...	...	35,790	...
...	49,700
...	17,850
...	170,000
...	2,337	...
...	10,989	...

5.2 Aquaculture Production by Species of Ornamental Fishes, 2008

5.2.1 In Quantity

pcs.

Scientific Name	FAO English Name	Brunei	Cambodia	Indonesia
<i>Cyprinus carpio</i>	Common carp	...	...	...
Cyprinidae	Carps, barbels and cyprinids	...	...	...
<i>Carassius auratus</i>	Gold fish	...	...	...
<i>Pterophyllum scalar</i>	Angle fish	...	...	...
<i>Symphysodon aequifasciatus</i>	Blue discus	...	...	...
<i>Ancistrus spp.</i>	Sucker	...	...	...
<i>Cichlasoma spp.</i>	Flower horn	...	...	...
<i>Astronotus ocellatus</i>	Oscar	...	...	...
Anabantids	-	...	...	...
Poecilids	-	...	...	...
Characins	-	...	...	...
Cichlid	-	...	...	...
Osteoglossids	-	...	...	...
Callichthyids	-	...	...	...
Cobitids	-	...	...	...
Osteichthyes	-	...	...	...

5.2.2 In Value

US\$ 1,000

Scientific Name	FAO English Name	Brunei	Cambodia	Indonesia
<i>Cyprinus carpio</i>	Common carp	...	...	...
Cyprinidae	Carps, barbels and cyprinids	...	...	...
<i>Carassius auratus</i>	Gold fish	...	...	...
<i>Pterophyllum scalar</i>	Angle fish	...	...	...
<i>Symphysodon aequifasciatus</i>	Discus	...	...	...
<i>Ancistrus spp.</i>	Sucker	...	...	...
<i>Cichlasoma spp.</i>	Flower horn	...	...	...
<i>Astronotus ocellatus</i>	Oscar	...	...	...
Anabantids	-	...	...	...
Poecilids	-	...	...	...
Characins	-	...	...	...
Cichlid	-	...	...	...
Osteoglossids	-	...	...	...
Callichthyids	-	...	...	...
Cobitids	-	...	...	...
Osteichthyes	-	...	...	...

							pcs.
Lao PDR	Malaysia	Myanmar	Philippines	Singapore	Thailand	Vietnam	
...	331,103,555	1,200,000	...	...	...	...	...
...	...	200,000	...	...	...	...	...
...	...	1,200,000	...	...	...	...	...
...	...	200,000	...	...	...	...	...
...	...	20,000	...	...	...	...	...
...	...	50,000	...	...	...	...	...
...	...	100,000	...	...	...	...	...
...	...	20,000	...	...	...	...	...
...	34,552,747	...	...	...	...	...	...
...	169,985,213	...	...	...	...	...	...
...	36,871,447	...	...	...	...	...	...
...	8,834,083	...	...	...	...	...	...
...	234,694	...	...	...	...	...	...
...	203,934	...	...	...	...	...	...
...	152,148	...	...	...	...	...	...
...	8,200,232	...	...	133,869,972	...	...	...
							US\$ 1,000
Lao PDR	Malaysia	Myanmar	Philippines	Singapore	Thailand	Vietnam	
...	...	120	...	...	...	...	...
...	105,126,001	20	...	...	...	...	...
...	...	120	...	...	...	...	...
...	...	20	...	...	...	...	...
...	...	6	...	...	...	...	...
...	...	5	...	...	...	...	...
...	...	10	...	...	...	...	...
...	...	2	...	...	...	...	...
...	14,940,126	2	...	...	...	...	...
...	28,354,035	...	...	...	...	...	...
...	6,598,048	...	...	...	...	...	...
...	10,392,530	...	...	...	...	...	...
...	25,184,421	...	...	...	...	...	...
...	275,734	...	...	...	...	...	...
...	16,016	...	...	...	...	...	...
...	2,266,827	...	...	33,167.55	...	...	...

5.3 Seed Production from Aquaculture, 2008

5.3.1 Cambodia

Scientific Name	FAO English Name	Total (million pcs.)	Wild Stock (million pcs.)	Aquaculture Practices (million pcs.)	No. of operational units or facilitates
<i>Barbonymus schwanenfeldii</i>	Tinfoil barb				
<i>Barbonymus gonionotus</i>	Silver barb				
<i>Trichogaster pectoralis</i>	Snakeskin gourami				
<i>Anabas testudineus</i>	Climbing perch				
<i>Channa striata</i>	Snakehead murred				
<i>Pangasianodon hypophthalmus</i>	Sutchi catfish	38,000,000	2,000,000	36,000,000	
<i>Clarias macrocephalus</i>	Broadhead catfish				
<i>Clarias gariieppinus</i>	-				
<i>Macrobrachium rosenbergii</i>	Giant freshwater prawn				
<i>Oreochromis niloticus</i>	Nile tilapia				
<i>Cyprinus carpio</i>	Common carp				

5.3 Seed Production from Aquaculture, 2008
5.3.2 Malaysia

Scientific Name	FAO English Name	Total (million pcs.)	Wild Stock (million pcs.)	Aquaculture Practices (million pcs.)	No. of operational units or facilitates
<i>Puntius gonionotus</i>	Javanese carp	11.82	0.62	11.20	316
<i>Cyprinus carpio</i>	Common carp	13.07	...	13.07	
<i>Trichogaster pectoralis</i>	Snakeskin gouramy	0.09	...	0.09	
<i>Oreochromis niloticus</i>	Tilapia nilotica	1.33	...	1.33	
<i>Oreochromis spp.</i>	Red tilapia	61	0.14	60.86	
<i>Ctenopharyngodon idellas</i>	Grass carp	0.18	...	0.18	
<i>Leptobarbus ocellatus</i>	Hoeveni's slender carp	0.96	...	0.96	
<i>Clarias macrocephalus</i>	Walking catfish	646.14	...	646.14	
<i>Mystus spp.</i>	River catfish	0.18	0.06	0.12	
<i>Pangasius sutchi</i>	Striped catfish	98.18	...	98.18	
<i>Epinephelus spp.</i>	Grouper	125.65	...	125.65	
<i>Lates calcarifer</i>	Barramundi	424.32	...	424.32	
<i>Lutjanus johni</i>	John's snapper	4.07	...	4.07	
<i>Perna viridis</i>	Green mussel	25.78	...	25.78	
<i>Crassostrea spp.</i>	Oysters	0.05	...	0.05	
<i>Penaeus monodon</i>	Tiger prawn	2,024.52	...	2,024.52	
<i>Penaeus merguensis</i>	Banana prawn	4,914.82	...	4,914.82	
<i>Macrobrachium rosenbergii</i>	Giant freshwater prawn	31.6	0.52	31.08	
<i>Penaeus vannamei</i>	White shrimp	3,128.16	...	3,128.16	
Osteichthyes	Freshwater fish nei	69.77	6.47	63.30	

5.3 Seed Production from Aquaculture, 2008

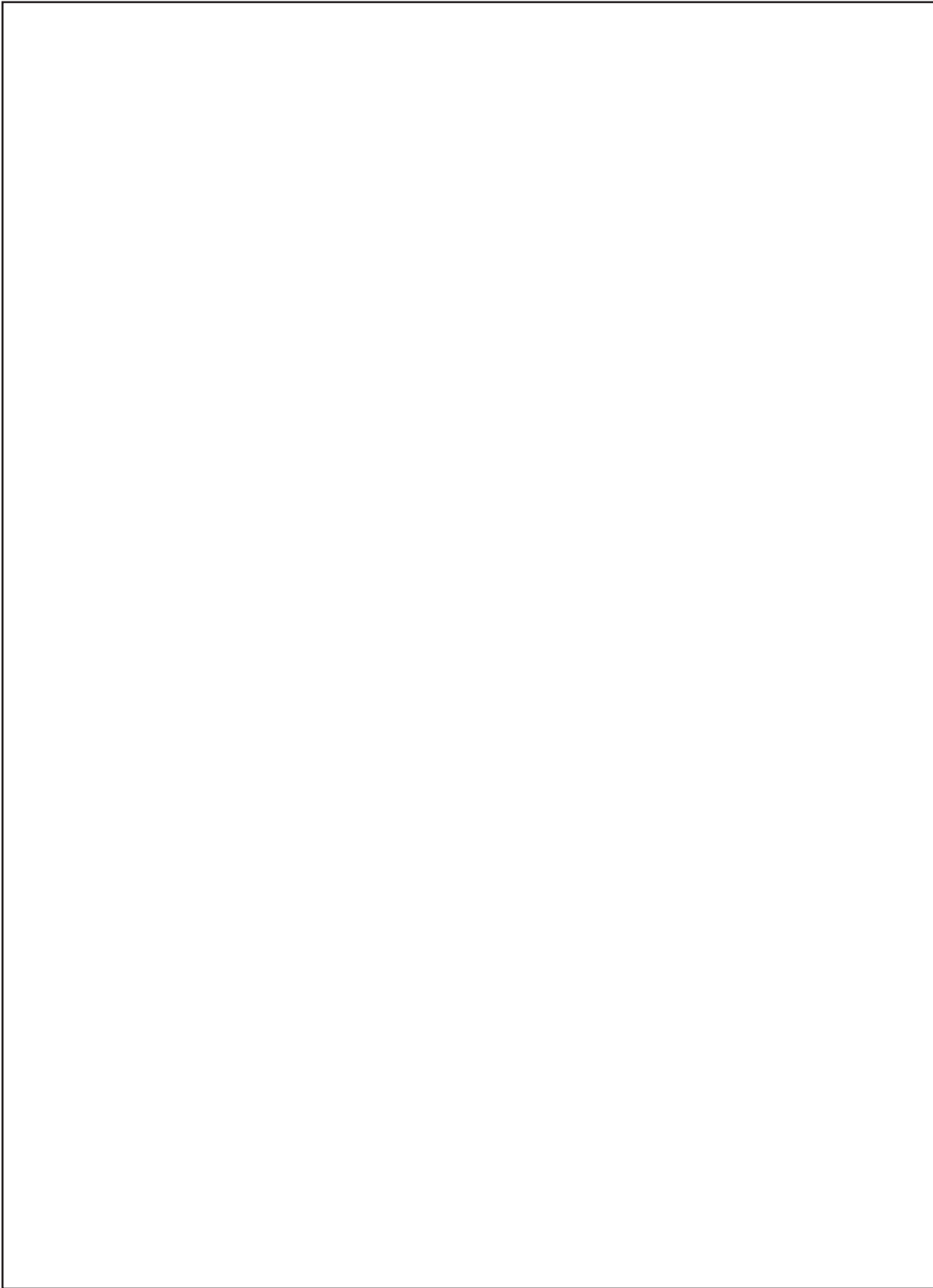
5.3.3 Myanmar

Scientific Name	FAO English Name	Total (million pcs.)	Wild Stock (million pcs.)	Aquaculture Practices (million pcs.)	No. of operational units or facilitates
<i>Labeo rohita</i>	Roho labeo	542	135	407	26
<i>Cyprinus carpio</i>	Common carp	71	19	52	26
<i>Catla catla</i>	Catla	6	0.3	6	26
<i>Cirrhinus mrigala</i>	Mrigal	3	0.2	3	26
<i>Ctenopharyngodon idellus</i>	Grass carp	6	2	4	26
<i>Hypophthalmichthys molitrix</i>	Silver carp	3	0.2	3	26
<i>Tilapia spp.</i>	Tilapia	13	4	9	26
<i>Pangasianodon hypophthalmus</i>	Pangas catfish	12	0.2	12	26
<i>Barbodes gonionotus</i>	Silver barb	75	32	43	26
<i>Macrobrachium rosenbergii</i>	Giant river prawn	52	1	51	14
<i>Penaeus monodon</i>	Giant tiger shrimp	76	0.01	76	17

5.3 Seed Production from Aquaculture, 2008

5.3.4 Singapore

Scientific Name	FAO English Name	Total (million pcs.)	Wild Stock (million pcs.)	Aquaculture Practices (million pcs.)	No. of operational units or facilitates
<i>Lutjanus erythroterus</i>	Crimson snapper	2.36	...	2.36	1
<i>Lates calcarifer</i>	Asian seabass	4.78	...	4.78	3
<i>Gnathanodon speciosus</i>	Golden trevally	0.88	...	0.88	1
<i>Lutjanus stellatus</i>	White-spotted snapper	0.01	...	0.01	1



6. PRICE OF FRESH FISH

6.1 Producer Price for Capture Production by Species, 2008

US\$/kg.				
Scientific Name	FAO English Name	Brunei	Cambodia	Indonesia
<i>Cyprinus carpio</i>	Common carp	4.2	1.5	1.5
<i>Labeo rohita</i>	Roho labeo	...	1	...
<i>Ctenopharyngodon idellus</i>	Grass carp	4.2	1.5	1.4
<i>Hypophthalmichthys nobilis</i>	Bighead carp	...	1.5	...
<i>Osteochilus haseltii</i>	Nilem carp	...	...	1.0
<i>Leptobarbus hoeveni</i>	Hoven's carp	...	1.5	1.5
<i>Barnomyus gonionotus</i>	Silver barb	...	1.5	1.1
<i>Puntius binotatus</i>	Spotted barb	...	...	0.6
<i>Catla catla</i>	Catla	...	1.5	...
<i>Cyclocheilichthys apogon</i>	Breadless barb	...	...	0.7
<i>Hampala macrolepidota</i>	Hampala barb	...	...	1.4
<i>Labiobarbus festivus</i>	Singal carp	...	...	1.6
<i>Rasbora argyrotaenia</i>	Silver rasbora	...	...	1.4
<i>Thynnichthys vaillanti</i>	-	...	...	1.0
<i>Tor soro</i>	-	...	...	1.4
<i>Tor douronensis</i>	River carp	...	...	1.4
<i>Barbichthys laevis</i>	Sucker barb	...	...	1.2
<i>Barbodes balleroides</i>	-	...	...	0.7
<i>Barbonymus schwanenfeldii</i>	Tinfoil barb	...	...	1.4
<i>Macrochirichthys macrochirus</i>	Long pectoral-fin minnow	...	...	0.8
<i>Mystacoleucus marginatus</i>	-	...	...	0.5
<i>Mystacoleucus padangensis</i>	-	...	...	0.5
<i>Puntioplites waandersi</i>	-	...	...	1.0
<i>Oreochromis mossambicus</i>	Mozambique tilapia	...	1.5	1.0
<i>Oreochromis niloticus</i>	Nile tilapia	...	1.5	1.0
<i>Chitala lopis</i>	Giant featherback	...	...	2.8
<i>Kryptopterus spp.</i>	Glass catfishes	...	...	1.9
<i>Ompok bimaculatus</i>	Butter catfishes	...	...	3.7
<i>Mystus nemurus</i>	Asian redbtail catfish	...	...	1.9
<i>Mystus nigriceps</i>	-	...	...	1.2
<i>Mystus spp.</i>	-	...	2	...
<i>Clarias batrachus</i>	Philippine catfish	...	1.5	...

6.1 Producer Price for Capture Production by Species, 2008 (Cond't)

US\$/kg.				
Scientific Name	FAO English Name	Brunei	Cambodia	Indonesia
<i>Clarias macrocephalus</i>	Bighead catfish	...	1.5	...
<i>Clarias nieuhofii</i>	Freshwater catfish	...	1.5	...
<i>Clarias spp.</i>	Torpedo-shaped catfishes nei	...	1.5	1.3
<i>Pangasius pangasius</i>	Pangas catfish	...	1	...
<i>Pangasius hypophthalmus</i>	Striped catfish	...	1	...
<i>Pangasius larnaudii</i>	Spot pangasius	...	2	...
<i>Pangasius micronemus</i>	Shortbarbel pangasius	...	1.5	...
<i>Pangasius djambal</i>	-	...	1	2.1
<i>Pangasius sutchi</i>	Pangas catfishes	...	...	...
<i>Pangasius spp.</i>	Pangas catfishes nei	...	2	...
<i>Anguilla bicolor</i>	River eel	...	1.2	...
<i>Anguilla japonica</i>	Japanese eel	...	1.2	...
<i>Anguilla anebulosa</i>	River eel	...	1.2	...
<i>Anguilla spp.</i>	River eel nei	...	1.2	1.6
<i>Anabus testudineus</i>	Climbing perch	...	...	2.0
<i>Osphronemus gourami</i>	Giant gourami	...	...	1.7
<i>Trichogaster pectoralis</i>	Snakeskin gourami	...	...	1.1
<i>Trichogaster trichopterus</i>	Three spot gourami	...	...	0.8
<i>Helostoma temminckii</i>	Kissing gourami	...	...	1.2
<i>Chana striata</i>	Striped snakehead	...	2.5	1.7
<i>Chana micropeltes</i>	Indonesian snakehead	...	2.5	1.7
<i>Chana lucirus</i>	Snakehead	...	2.5	...
<i>Chana spp.</i>	Snakeheads nei	...	2.5	...
<i>Oxyeleotris mamoratus</i>	Marble goby	...	4	...
<i>Mastacembelus erythrotaenia</i>	Fire eel	...	...	0.7
<i>Pristolepis fasciata</i>	Malayan leaf-fish	...	...	1.2
<i>Chromobotia macrocanthus</i>	Clown loach	...	...	1.1
<i>Botia spp.</i>	Loach	...	...	1.9
<i>Toxotes microlepis</i>	Smallscale archerfish	...	...	0.3
<i>Anodontostoma chacunda</i>	Chacunda gizzard shad	2.1	1.0	0.45
<i>Hilsa kelee</i>	Kelee shad	...	1	...
<i>Tennulosa ilisha</i>	Hilasa shad	...	1	...
<i>Tennulosa toli</i>	Toli shad	...	1	0.9
<i>Chanos chanos</i>	Milkfish	...	...	...

							US\$/kg.
Lao PDR	Malaysia	Myanmar	Philippines	Singapore	Thailand	Vietnam	
...	
...	
...	1.1	...	1.5	...	...	...
...	1.6	1.5	...	...	...	...
...	
...	
...	
...	
...	2.2	...	...
...	...	1.0	...	...	...	...
...	
...	
...	
...	2.1	...	...	...
...	
...	
...	
...	
...	...	3	1.7	...	...	...
...	3.5	...	...
...	
...	
...	10.5	...	...	20.9	...	...
...	
...	
...	
...	
...	0.7	...	...	...	...	...
...	5.2	...	...	...	...	...
...	...	5	...	...	...	...
...	
...	1.5	1.5	...	...

6.1 Producer Price for Capture Production by Species, 2008 (Cond't)

US\$/kg.				
Scientific Name	FAO English Name	Brunei	Cambodia	Indonesia
<i>Lates calcarifer</i>	Giant seaperch	8.39	3	1.6
Pleuronectiformes	Flatfishes nei	...	...	1.2
<i>Psettodes erumei</i>	Indian halibut	...	...	0.7
<i>Harpodon nehereus</i>	Bombay-duck	...	...	0.9
<i>Saurida tumbil</i>	Greater lizardfish	...	0.5	0.6
<i>Saurida spp.</i>	Lizard fishes	...	0.5	...
<i>Trachinocephalus myops</i>	Snakefish	...	0.5	...
<i>Arius spp.</i>	Sea catfishes	...	1	...
<i>Plotosus spp.</i>	Eeltail catfishes	4.2	...	...
Ariidae	Sea catfishes nei	...	...	0.8
Mugilidae	Mulletts nei	...	...	0.8
<i>Mugil cephalus</i>	Flathead grey mullet	2.8	...	...
<i>Caesio spp.</i>	Fusillers caesio nei	...	...	...
<i>Anyperodon leucogrammicus</i>	Slender grouper	...	5	...
<i>Epinephelus merra</i>	Honeycomb grouper	...	5	1.8
<i>Epinephelus tauvina</i>	Greasy grouper	...	5	1.8
<i>Epinephelus guttatus</i>	Red hind	...	5	...
<i>Epinephelus malabaricus</i>	Malabar grouper	...	5	...
<i>Epinephelus coioides</i>	Orange-spotted grouper	...	10	...
<i>Epinephelus fuscoguttatus</i>	Brown-marbled grouper	...	...	...
<i>Epinephelus spp.</i>	Groupers nei	5.59	10	...
<i>Cephalopholis boenak</i>	Chocolate hind	...	5	2
<i>Cephalopholis spp.</i>	Grouper	...	5	...
<i>Cromileptes altivelis</i>	Humpback grouper	...	35	36
<i>Plectropomus maculatus</i>	Spotted coral grouper	...	15	...
<i>Plectropomus leopardus</i>	Leopard coral grouper	...	5	2.7
<i>Plectropomus spp.</i>	Groupers	...	5	...
<i>Priacanthus macracanthus</i>	Red bigeye	...	...	0.6
<i>Priacanthus spp.</i>	Bigeye nei	...	...	0.6
<i>Sillago sihama</i>	Silver sillago	...	...	0.5
<i>Johnius spp.</i>	Croakers	2.1	...	...
<i>Pennahia spp.</i>	Croakers	1.4	...	...
Sciaenidae	Croakers, drums nei	...	...	0.7
<i>Lutjanus argentimaculatus</i>	Mangrove red snapper	...	...	...

US\$/kg.						
Lao PDR	Malaysia	Myanmar	Philippines	Singapore	Thailand	Vietnam
...	3.7	4	...	7.0	2.7	...
...	1.2	...
...	1.1	...
...	0.6	1.3	...	...	...	...
...
...
...
...	1.2	...	...	...	1.2	...
...
...
...
...
...	4.0	2.7	...
...	1.4	...	1.4	...
...
...
...
...
...
...
...
...
...
...	13.7	...	...
...	14.6	...	...
...	5.3	...	...	...	5.0	...
...
...	2.1	...	...	...
...	36.8	...	...
...	24	...	...
...
...
...
...	0.7	...
...	0.6	...
...	1.5	...
...	1.0	...
...
...
...
...	6.0	...	...

6.1 Producer Price for Capture Production by Species, 2008 (Cond't)

US\$/kg.				
Scientific Name	FAO English Name	Brunei	Cambodia	Indonesia
<i>Lutjanus johnii</i>	John's snapper	...	...	...
<i>Lutjanus erythropterus</i>	Crimson snapper	...	...	...
<i>Lutjanus goldiei</i>	Papuan black snapper	...	...	...
<i>Lutjanus spp.</i>	Snappers nei	6.99	...	1.5
<i>Pristipomoides typus</i>	Goldenbanded jobfish	...	...	0.6
<i>Nemipterus hexodon</i>	Ornate threadfin bream	...	1.5	...
<i>Nemipterus spp.</i>	Threadfin breams nei	1.0	1.5	0.9
<i>Leiognathus spp.</i>	Ponyfishes	0.8	0.5	0.5
<i>Plectorhinchus spp.</i>	Sweetlips	1.4	...	...
<i>Pristis spp.</i>	Sweetlips	...	...	0.5
Haemulidae (=Pomadasyidae)	Grunts, sweetlips nei	...	...	1.2
Lethrinidae	Emperors (=Scavengers) nei	...	...	0.8
<i>Parupeneus indicus</i>	Indian goatfish	...	...	0.9
<i>Parupeneus spp.</i>	Goatfishes	0.7	...	...
<i>Upeneus sulphureus</i>	Sulphur goatfish	...	...	0.2
<i>Upeneus vittatus</i>	Yellowstriped goatfish	...	...	0.6
<i>Cheilinus undulatus</i>	Humphead wrasse	...	...	1.5
<i>Eleutheronema tetradactylum</i>	Four finger threadfin	...	...	0.9
<i>Polynemus spp</i>	Threadfins	...	...	1.3
<i>Siganus virgatus</i>	Barhead spinefoot	...	...	0.7
<i>Siganus spp.</i>	Spinefeet nei	4.2	...	1.2
<i>Siganus jarus</i>	Rabbit fish	...	...	...
<i>Trichiurus spp.</i>	Hairtails nei	0.35	...	0.7
<i>Amblygaster sirm</i>	Spotted sardinella	...	1.0	0.1
<i>Sardinella brachysoma</i>	Deepbody sardinella	...	1.0	...
<i>Sardinella gibbosa</i>	Goldstripe sardinella	...	1.0	0.6
<i>Sardinella longiceps</i>	Indian oil sardine	...	1.0	...
<i>Sardinella fimbriata</i>	Fringescale sardine	...	1.0	...
<i>Sardinella lemuru</i>	Bali sardinella	...	1.0	0.4
<i>Sardinella spp.</i>	Sardinellas nei	...	1.0	...
<i>Dussumieria acuta</i>	Rainbow sardinella	...	1.0	0.5
<i>Dussumieria spp.</i>	Rainbow sardinella	...	1.0	...
<i>Stolephorus spp.</i>	Stolephorus anchovies	...	0.5	1.0
<i>Chirocentrus spp.</i>	Wolf-herrings nei	...	...	1.0

US\$/kg.						
Lao PDR	Malaysia	Myanmar	Philippines	Singapore	Thailand	Vietnam
...	7.9	...	...
...	6.8	...	...
...	7.9	...	...
...	4.2	...
...
...
...	1.5	...	1.6	...	1.2	...
...	0.7	...	0.9	...	1.0	...
...	2.9	...
...
...
...
...
...
...
...
...
...
...
...
...	2.7	...
...
...
...
...
...
...
...
...
...
...
...
...
...
...	0.6	...	...	...	...	...
...
...	0.8	...	...	...	...	...
...	1.2	...	0.9	...	...	...
...	1.2	...

6.1 Producer Price for Capture Production by Species, 2008 (Cond't)

US\$/kg.				
Scientific Name	FAO English Name	Brunei	Cambodia	Indonesia
<i>Auxis thazard</i>	Frigate tuna	...	...	0.8
<i>Auxis rochei</i>	Bullet tuna	...	...	0.9
<i>Euthynnus affinis</i>	Kawakawa	...	...	1.0
<i>Katsuwonus pelamis</i>	Skipjack tuna	...	...	0.9
<i>Thunnus tonggol</i>	Longtail tuna	...	...	1.3
<i>Thunnus alalunga</i>	Albacore tuna	...	...	1.7
<i>Thunnus maccoyii</i>	Southern bluefin tuna	...	...	1.1
<i>Thunnus obesus</i>	Bigeye tuna	...	...	1.1
<i>Thunnus albacares</i>	Yellowfin tuna	...	...	1.4
<i>Istiophorus platypterus</i>	Indo-Pacific sailfish	...	...	0.9
<i>Makaira indica</i>	Black marlin	...	...	1.2
<i>Makaira nigricans</i>	Atlantic blue marlin	...	...	1.9
<i>Tetrapturus audax</i>	Striped marlin	...	...	1.7
<i>Xiphias gladius</i>	Swordfish	...	...	1.3
<i>Scomberomorus commerson</i>	Narrow-barred Spanish mackerel	...	...	1.6
<i>Scomberomorus guttatus</i>	Indo-Pacific king mackerel	...	...	2.0
<i>Scomberomorus cavalla</i>	King mackerel	...	...	...
<i>Sarda orientalis</i>	Striped bonito	...	...	0.8
<i>Tylosurus spp.</i>	Needlefishes nei	...	...	0.5
<i>Hemiramphus spp.</i>	Halfbeaks nei	...	...	0.5
Exocoetidae	Flyingfishes nei	...	...	1.0
<i>Lactarius lactarius</i>	Flase trevally	1.4	...	0.5
<i>Rachycentroon canadum</i>	Cobia	...	...	...
<i>Decapterus kurroides</i>	Red tail scad	...	1.0	...
<i>Decapterus macrosoma</i>	Shortfin scad	...	1.0	...
<i>Decapterus russelli</i>	Indian scad	...	1.0	...
<i>Decapterus macarellus</i>	Mackerel scad	...	1.0	...
<i>Decapterus spp.</i>	Scads nei.	...	1.0	0.6
<i>Caranx melampygus</i>	Bluefin travally	...	1.0	...
<i>Caranx sexfasciatus</i>	Bigeye travally	...	1.0	...
<i>Caranx tille</i>	Tille travally	...	1.0	...
<i>Caranx spp.</i>	Jacks, crevalles nei	3.5	...	1.1
<i>Trachinotus blochii</i>	Snubnose pompano	...	1.5	...
<i>Alectis indicus</i>	Indian threadfish	...	1.0	...

							US\$/kg.
Lao PDR	Malaysia	Myanmar	Philippines	Singapore	Thailand	Vietnam	
...	0.7	...	
...	
...	
...	1.5	...	
...	
...	
...	
...	
...	
...	
...	
...	
...	
...	
...	
...	
...	1.7	...	
...	3.6	...	
...	
...	
...	
...	
...	
...	3.9	...	
...	6.4	2.6	...	
...	1.7	...	...	...
...	
...	
...	1.0	...	1.1	...	...	...
...	
...	2.3	...	...	4.9	...	...
...	
...	3.8	...	...	...	...	...
...	5.4	...	...
...	2.2	...	...	...	...	...

6.1 Producer Price for Capture Production by Species, 2008 (Cond't)

US\$/kg.				
Scientific Name	FAO English Name	Brunei	Cambodia	Indonesia
<i>Carangoides spp.</i>	Horse mackerel	...	1.0	...
<i>Gnathanodon speciosus</i>	Golden trvally	...	1.5	...
<i>Alepes djeddaba</i>	Shrimp scad	...	1.0	...
<i>Atule mate</i>	Yellowtail scad	...	1.0	...
<i>Alepes spp.</i>	Scads	...	1.0	...
<i>Selar crumenophthalmus</i>	Bigeye scad	...	1.0	0.7
<i>Selar boops</i>	Oxeye scad	...	1.0	...
<i>Selaroides leptolepis</i>	Yellowstripe scad	...	1.0	0.8
<i>Seriolina nigrofasciata</i>	Blackbanded trevally	...	0.5	...
<i>Parastromatus niger</i>	Black pomfret	2.8	...	1.4
<i>Elagatis bipinnulata</i>	Rainbow runner	...	...	0.8
<i>Megalaspis cordyla</i>	Hardtail scad	1.4	...	0.9
<i>Scomberoides spp.</i>	Queenfishes	2.1	...	0.9
<i>Coryphaena hippurus</i>	Common dolphinfish	...	...	0.6
<i>Scomber australasicus</i>	Blue mackerel	...	...	0.4
<i>Rastrelliger branchysoma</i>	Short mackerel	...	...	1.0
<i>Rastrelliger kanagurta</i>	Indian mackerel	1.7	1.5	0.9
<i>Pampus argenteus</i>	Silver pomfret	...	...	2.0
<i>Pampus spp.</i>	Silver pomfrets nei	8.7	...	...
<i>Sphyaena jello</i>	Pickhandle barracuda	...	...	1.2
<i>Sphyaena barracuda</i>	Great barracuda	...	...	0.8
<i>Sphyaena spp.</i>	Barracudas nei	0.7	...	...
<i>Cynoglossus spp.</i>	Tongue soles nei	4.2	...	...
<i>Caesio cuning</i>	Redbelly yellowtail fusilier	...	...	0.7
<i>Caesio caerulaurea</i>	Blue and gold fusillier	...	...	0.4
<i>Terapon spp.</i>	Terapon perches nei	...	...	0.3
<i>Pisodonophis boro</i>	Paddy snake eel	...	...	...
Congridae	Conger eels	...	...	...
<i>Alopias spp.</i>	Thresher sharks nei	...	...	1.1
Carcharhinidae	Requiem sharks nei	...	...	0.7
Sphyrnidae	Hammerhead shark	...	...	0.8
Squalidae	Dogfish shark nei	...	...	0.7
Laminidae	Shark	0.35	...	0.3
Pristidae	Sawfishes	...	...	1.5

US\$/kg.						
Lao PDR	Malaysia	Myanmar	Philippines	Singapore	Thailand	Vietnam
...	2.6	...	...	...	...	...
...	1.9	...	...	5.7	0.7	...
...
...	1.6	...	...	...	...	...
...	1.6	...	...	...	...	...
...	...	...	1.3	...	0.7	...
...	1.0	...	...	...	...	...
...	1.1	...	...	...	...	...
...	2.0	...	...	...	4.6	...
...	...	...	...	...	2.2	...
...
...	...	...	...	...	0.4	...
...
...
...	...	...	...	...	2.3	...
...
...	1.9	...	1.2	...	1.1	...
...	...	...	...	...	8.6	...
...
...
...	...	...	...	...	1.3	...
...
...	...	...	...	...	1.4	...
...
...
...	...	...	...	6.6	...	...
...	...	...	...	...	0.9	...
...
...
...
...	...	...	...	...	0.7	...
...

6.1 Producer Price for Capture Production by Species, 2008 (Cond't)

US\$/kg.				
Scientific Name	FAO English Name	Brunei	Cambodia	Indonesia
<i>Rhynchobatus australiae</i>	Whitespotted wedgefish	...	...	0.9
Myliobatidae	Eagle rays nei	...	...	0.5
Mobulidae	Mantas, devil rays nei	...	...	0.3
Dasyatidae	Rays, stingrays	0.4	...	0.8
Osteichthyes	Marine fishes nei	...	...	0.5
<i>Penaeus merguensis</i>	Banana prawn	...	5	2.9
<i>Penaeus stylirostris</i>	Blue shrimp	...	5	...
<i>Penaeus vannamei</i>	Whiteleg shrimp	...	5	...
<i>Penaeus monodon</i>	Giant tiger prawn	...	5	...
<i>Penaeus semisulcatus</i>	Green tiger prawn	...	5	...
<i>Penaeus indicus</i>	Indian white prawn	...	5	...
<i>Penaeus latisulcatus</i>	Western king prawn	...	5	...
<i>Penaeus spp.</i>	Penaeus shrimps nei	6.9	5	...
<i>Macrobrachium rosenbergii</i>	Giant river prawn	9.7	10	4.7
<i>Portunus pelagicus</i>	Blue swimming crab	4.2	3	1.9
<i>Macrophtalmus depressus</i>	Mud crab	...	...	...
<i>Loligo spp.</i>	Common squids nei	3.5	2.0	1.6
Palaemonidae	Freshwater prawns	...	...	1.6
Crustacea	Freshwater crustaceans nei	...	...	1.1
<i>Panulirus spp.</i>	Tropical spiny lobsters nei	...	...	4.6
<i>Metapenaeus spp.</i>	Metapenaeus shrimps nei	...	...	3.2
Natantia	Natantia decapods nei	...	...	2.2
Crustacea	Marine crustacea nei	...	...	0.8
Mollusca	Freshwater molluscs nei	...	...	0.3
Mollusca	Marine molluscs nei	...	...	0.8
Octopodidae	Octopuses nei	...	...	1.8
<i>Trochus niloticus</i>	Commercial top	...	...	2.2
<i>Crassostrea spp.</i>	Cupped oysters nei	...	...	1.7
<i>Perna viridis</i>	Green mussel	...	...	1.7
Pectinidae	Scallops nei	...	...	2.4
<i>Anadara granosa</i>	Blood cockle	...	...	1.7
<i>Meretrix spp.</i>	Hard clams nei	...	...	0.5
Sepiidae/ Sepiolodae	Cuttlefish, squids nei	...	...	1.1
Bivalvia	Clams nei	...	...	1.2

							US\$/kg.
Lao PDR	Malaysia	Myanmar	Philippines	Singapore	Thailand	Vietnam	
...	
...	
...	
...	0.5	...	
...	
...	8.3	...	...	12.4	6.0	...
...	
...	
...	
...	4.9	...	...	...	...	...
...	3.3	...	...	...	4.6	...
...	
...	
...	2.8	...	2.0	...	4.4	...	
...	5.7	...	
...	2.3	...	1.6	...	2.6	...	
...	
...	
...	3.7	...	
...	4.2	...	
...	
...	
...	
...	
...	
...	1.3	...	
...	
...	
...	0.6	...	
...	4.0	...	
...	0.8	...	
...	1.2	...	
...	2.9	...	
...	

**6.1 Producer Price for Capture Production by Species, 2008
(Cond't)**

US\$/kg.

Scientific Name	FAO English Name	Brunei	Cambodia	Indonesia
<i>Rana spp.</i>	Frogs	...	...	1.6
Testudinata	River and lake turtles nei	...	...	1.1
Testudinata	Marine turtles nei	...	...	1.4
Holothurioidea	Sea cucumbers nei	...	...	5.1
<i>Rhopilema spp.</i>	Jelly fishes	...	...	0.4
Invertebrata	Aquatic invertebrates nei	...	...	1.4

7. FISHERS

7.1 Number of Fishermen by Working Status, 2008

	Brunei	Cambodia	Indonesia	Lao PDR
Total	5,229	...	...	...
Marine Fishery
Full time	1,190	...	...	...
Part time	4,038	...	...	...
Occasional
Status Unspecified
Inland Fishery
Full time
Part time
Occasional
Status Unspecified
Aquaculture
Full time
Part time
Occasional
Status Unspecified

Malaysia	Myanmar	Philippines	Singapore	Thailand	Vietnam
140,358	3,201,923	...	...	...	...
109,771	1,429,800	...	...	...	...
109,771	244,000	...	...	...	...
...	262,000	...	...	...	...
...	923,800	...	...	...	...
...
...	1,574,000	...	...	...	...
...	489,000	...	...	...	...
...	300,000	...	...	...	...
...
...	785,000	...	...	...	...
30,587	198,123	...	...	...	...
30,587	154,026	...	...	...	...
...
...
...	44,097	...	...	...	...