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MARINE FISHERY RESOURCES  
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DEPARTMENT OF SEAFDEC

KUALA TERENGGANU, MALAYSIA



SEAFDEC MFRDMD/ST/12

**THE CATCH-EFFORT STATISTICS  
FOR THE SOUTH CHINA SEA AREA**

**1999**

**Marine Fishery Resources Development and Management Department**

**Southeast Asian Fisheries Development Center**

**2005**

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Southeast Asian Fisheries Development Center

EDITORIAL BOARD for Catch-effort Statistics:

Jamaludin Ibrahim

and

Norharm Abd Rahim

SEAFDEC/MFRDMD  
Kuala Terengganu,  
Malaysia

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REPORT OF STATISTICAL BULLETIN  
ISSN 1511-1709

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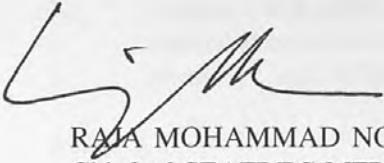
PERCETAKAN YAYASAN ISLAM TERENGGANU SDN. BHD.  
Gong Badak, 21300 Kuala Terengganu, Terengganu.  
Tel: 09-6664611, 6664652, 6663601 Fax: 09-6662611, 6661063

## FOREWORD

The Catch-effort Statistics is an annual publication of the Marine Fishery Resources Development and Management Department (MFRDMD) of SEAFDEC. This compilation of the catch-effort statistics is the ninth in the series, and is still based on the original returns of the questionnaire by each country in the region.

On behalf of SEAFDEC-MFRDMD, we would like to express our sincere appreciation and thanks to the Departments of Fisheries of Brunei Darussalam, Malaysia, the Philippines and Thailand for their cooperation given towards producing this publication. We also hope that countries to whom we have sent questionnaires, but have failed to return them, will complete them so as to enable us to improve and publish the Catch-effort Statistics.

Thank you.



RAJA MOHAMMAD NOORDIN BIN RAJA OMAR  
Chief of SEAFDEC-MFRDMD  
Kuala Terengganu  
MALAYSIA.



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## EXPLANATORY NOTES

### 1. General Notes

#### 1-1 Data Collection

The data compiled in this Bulletin are, in principle, based upon the returns from the authority concerned in each country to a questionnaire prepared by the Marine Fishery Resources Development and management Department, Southeast Asian Fisheries Development Center SEAFDEC/MFRDMD).

#### 1-2 Time Reference

Data in this Bulletin refer to the year 1999.

#### 1-3 Unit of Catch

Catch quantity is shown in tonnes.

### 2. Notes on Statistics

#### 2-1 Category of Statistics

- 1) Annual Catch-effort Statistics --- Annual catch and effort data broken down into fishing gear and boat size category are described (whole country and sub-areas).
- 2) Monthly Catch-effort Statistics --- Monthly catch and effort data broken down into fishing gear and size category are described (whole country and sub-area).
- 3) Specific Data on Catch-effort --- Data which cannot be applied for above two categories are described.



2-2 **Classification and Coverage of Fishing Gear**

Catch-effort data of twelve type of fishing gear as shown in the following table are compiled in this issue.

Major Group	Particular Name
1. Surrounding Net	One boat purse seine ----- (1) Anchovy purse seine (2) Thai purse seine (3) Fish purse seine
2. Seine Net	-
3. Trawl	(4) Otter trawl (5) Pair trawl (6) Beam trawl
4. Gill Net	(7) Drift gill net (8) Spanish mackerel drift gill net (9) Mackerel encircling gill net
5. Lift Net	-
6. Trap	(10) Bamboo stake trap
7. Hook-and-line	(11) Longline
8. Push Net	(12) Engine boat push net
9. Shellfish and Seaweed Collecting Gear	
10. Others	-

### **2-3 Classification of Fishing Boats**

In Malaysia, fishing boats are classified into classes by their tonnage (GRT class), which comprise five categories i.e., (1) less than 10 tons, (2) from 10 to 25 tons, (3) from 25 to 40 tons, (4) from 40 to 70 tons, and (5) over 70 tons.

In Thailand, fishing boats are classified into classes by their length (in meters), which comprise four categories i.e., (1) less than 14 meters, (2) from 14 to 18 meters, (3) more than 18 meters and (4) all size.

### **2-4 Coverage of Fishing Effort**

The units of fishing effort are classified for each class boat size.

- 1) Number of fishing units
- 2) Number of trips
- 3) Number of days
- 4) Number of hauls
- 5) Number of hours (Operating hours are from the start of shooting until hauling in of the net, and excluding searching hours for fish schools in purse seining)
- 6) Number of hooks (Longline only)

### **2-5 Others**

Countries and sub-areas for the statistics, classification and code numbers of species, and list of marine species with codes of SEAFDEC and ISSCAAP (FAO) are shown in ANNEX 1.

## DATA AVAILABILITY

### 1. Annual Catch-effort Statistics 1999

#### Catch and Fishing Effort by Type of Fishing Gear

Anchovy Purse Seine:	<i>Malaysia and Thailand</i>
Thai Purse Seine:	<i>Thailand</i>
Fish Purse Seine:	<i>Malaysia</i>
Otter Trawl:	<i>Brunei</i>
Trawl Net:	<i>Malaysia</i>
Pair Trawl :	<i>Thailand</i>
Beam Trawl:	<i>Thailand</i>
Drift/Gill Net:	<i>Malaysia</i>
Spanish Mackerel Drift Gill Net:	<i>Thailand</i>
Bamboo Stake Trap :	<i>Thailand</i>
Lift Net :	<i>Malaysia</i>
Mechanised Push Net :	<i>Thailand</i>
Other Seine :	<i>Malaysia</i>

#### Catch and Fishing Effort by Type of Fishing Gear and Size of Management

Fish Purse Seine:	<i>Malaysia</i>
Otter Trawl:	<i>Malaysia and Thailand</i>
Pair Trawl:	<i>Thailand</i>

### 2. Annual Production Statistics from Commercial and Municipal, 1999 by Region, by Species : Philippines

### 3. Monthly Catch-effort Statistics, 1999

#### Catch and Fishing Effort by Type of Fishing Gear and by Month

Anchovy Purse Seine:	<i>Thailand</i>
Thai Purse Seine:	<i>Thailand</i>
Otter Trawl:	<i>Brunei</i>
Beam Trawl:	<i>Thailand</i>
Spanish Mackerel Drift Gill Net:	<i>Thailand</i>
Mackerel Encircling Gill Net:	<i>Thailand</i>
Bamboo Stake Trap:	<i>Thailand</i>
Mechanised Push Net :	<i>Thailand</i>

## ANNEX 1

### 1 Countries and Sub-areas for the Statistics

Countries and sub-areas regions to be used in catch-effort statistics are follows:

- 1) Brunei
- 2) Taiwan
- 3) Hong Kong
- 4) Indonesia
  - 4)-1 West Coast of Sumatra
  - 4)-2 South Coast of Java
  - 4)-3 Malacca Straits
  - 4)-4 East Coast of Sumatra
  - 4)-5 North Coast of Java
  - 4)-6 Bali and Nusa Tenggara
  - 4)-7 Kalimantan
  - 4)-8 Sulawesi
  - 4)-9 Maluku and Irian Jaya
- 5) Cambodia
- 6) Malaysia
  - 6)-1 West Coast of Peninsular Malaysia
  - 6)-2 East Coast of Peninsular Malaysia
  - 6)-3 Sabah
  - 6)-4 Sarawak
  - 6)-5 Labuan
- 7) Philippines \*  
15 Fishing Regions – I, II, III, NCR, IV, V, VI, VII, VIII, IX, X, XI, XII, ARMM and CARAGA
- 8) Singapore
- 9) Thailand
  - 9)-1 Gulf of Thailand
  - 9)-2 Indian Ocean
- 10) Vietnam
- 11) Myanmar

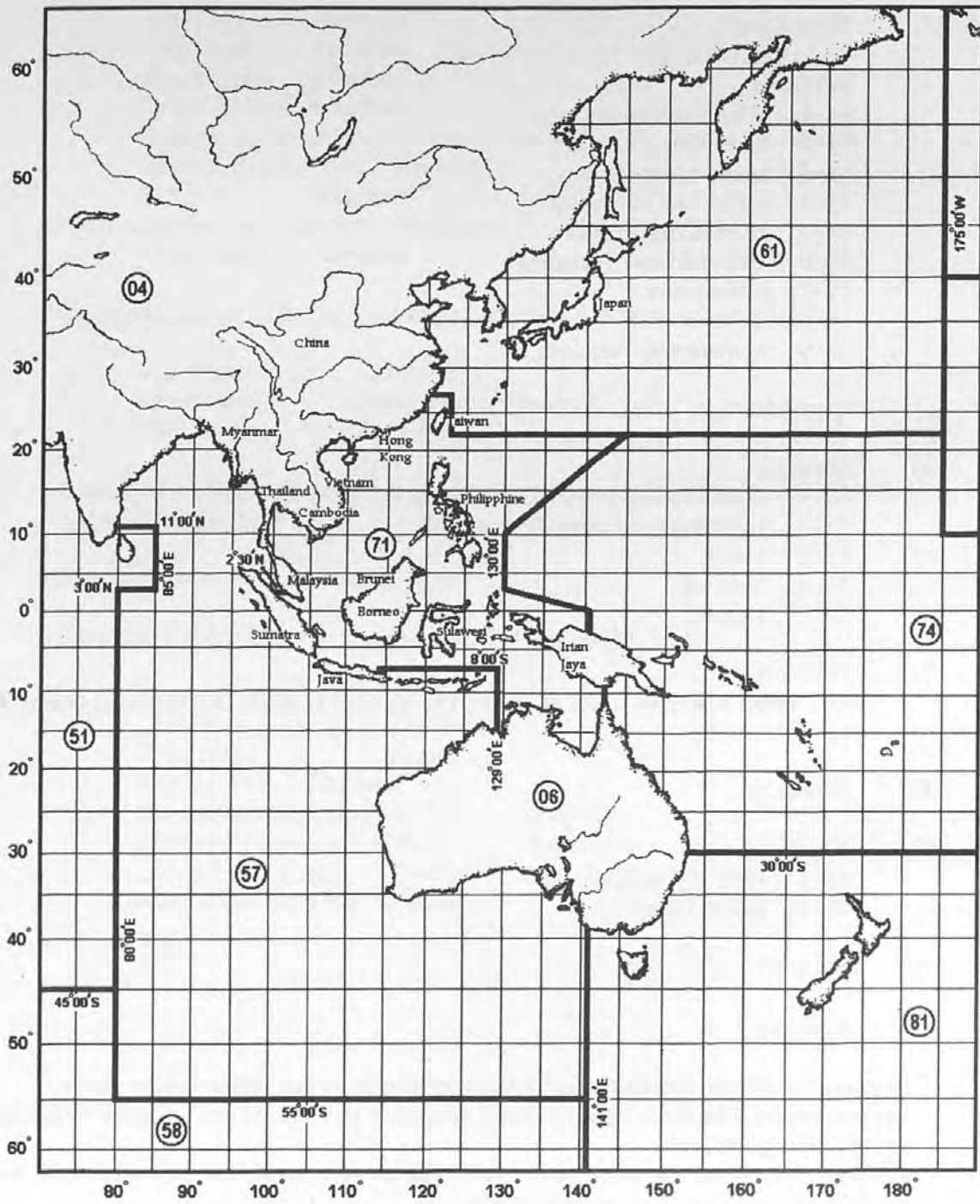
**\* Marine Fish Production in Philippines is contributed by two major fishing sector :**

**a) Commercial Fishing – covers fishing operation that makes use of boats weighing more than 3 gross tons**

**b) Marine Municipal Fishing – covers fishing operation carried out without or with the use of a boat weighing 3 gross tons or less.**



## 2. Major Fishing Areas for Statistical Purposes



### **3. Classification and Code Number of Species**

#### **1. Catch by Species**

The catch should be broken down by species (group). The standard statistical classification of marine species was amended based on the proposal made during the Seventh Regional Workshop on Fishery Statistics (1989).

#### **2. Species Code Number**

The species code number previously assigned by the Seafdec Statistical Bulletin was changed from a "three-digit number" to "four-digit number". The four-digit number will be added to the first list to allow for further sub-division of the species group when required.

#### **3. Definition of Species Code Number**

The first two digits show the group number taken from ISSCAAP (FAO Yearbook). This group number should not be changed, even if the ISSCAAP grouping has changed. The last two digits show the particular species within a group, starting from 01. If there are 'xx' added to the back of first two digit code as example 24xx, 33xx, 34xx. This shows that the species name is still unknown.

#### **4. Name of Family**

In all cases the family names of fish species have been taken from a single reference (Greenwood, P. H., D. E. Rosen Weitzman and G. S. Myers. 1966. Phyletic studies of teleostean fishes, with provisional classification of living forms. *Bull. Amer. Mus. Nat. Hist.*, 131 (4): 339-456) to allow clear selection, without taxonomical confusion, of teleostean fishes.

#### **5. English and Scientific Names**

As the English names for species vary quite considerably, the species codes have been based on the scientific names of the species.

#### 4. List of Marine Species with Species Codes of SEAFDEC and ISSCAAP (FAO)

ISSCAAP			SEAFDEC		
Div.	Group	Code	Name	Code No.	Family / Scientific name
2.	24. Shad, milkfish, etc.	CHG	1. Shads	2401	Clupeidae - <i>Anodontostoma chacunda</i>
		PEO			<i>Pellona ditchela</i>
		MIL	2. Milkfish	2402	Chanidae - <i>Chanos chanos</i>
	25. Miscellaneous	GIP	1. Barramundi	2501	Centropomidae - <i>Lates calcalifer</i>
3.	31. Flounders, halibut, soles	LEF	1. Flounders	3101	Bothidae
		HPX	2. Indian halibuts	3102	Psettodidae
		TOX	3. Tongue soles	3103	Cynoglossidae
		SOX	4. Soles	3104	Soleidae
	33. Red fishes, bass, congers, etc.	CAX	1. Marine catfishes	3301	Ariidae
		CAE	2. Catfish eels	3302	Plotosidae - <i>Plotosus</i> spp.
		LSS	3. Lizard fishes	3303	Synodontidae - <i>Saurida</i> spp.
		PCX	4. Sharp-toothed pike eels and conger eels	3304	Muraenesocidae - <i>Muraenesox</i> spp. (including Congridae, Muraenidae and Synbranchidae)
		GPX	5. Groupers	3305	Serranidae - <i>Epinephelus</i> spp.
		WHS	6. Sillago whittings	3306	Sillaginide
		SNA	7. Red snappers	3307	Lutjanidae - <i>Lutjanus</i> spp. ( <i>L. argentimaculatus</i> , <i>L. Sabae</i> , <i>L. malabaricus</i> , <i>L. sanguineus</i> , <i>L. altifrontalis</i> )
		SNX	8. Other snappers	3308	Lutjanidae - <i>Lutjanus</i> spp. ( <i>L. johni</i> , <i>L. vitta</i> , <i>L. russelli</i> , <i>L. lineolatus</i> , <i>L. lutjanus</i> , <i>L. fulviflamma</i> , <i>L. monostigma</i> ) <i>Pristipomoides</i> spp.
		FUS	9. Fusiliers	3309	Lutjanidae - <i>Caesio</i> spp.
		THB	10. Threadfin breams	3310	Nemipteridae - <i>Nemipterus</i> spp. (including <i>Scolopsis</i> spp.)
		PON	11. Pony fishes	3311	Leiognathidae
		GRX	12. Grunters and sweetlips	3312	Pomadasyidae
		CDX	13. Drums and croakers	3313	Sciaenidae
		GOX	14. Goatfishes	3314	Mullidae - <i>Upeneus</i> spp. (including <i>Parupeneus</i> spp.)
		ELL	15. Emperor breams	3315	Lethrinidae - <i>Lethrinus</i> spp. (including <i>Gymnocranius</i> spp.)
		BIG	16. Big-eye snappers	3316	Priacanthidae - <i>Priacanthus</i> spp.
SBX	17. Breams	3317	Sparidae		
TIS	18. Horseheads	3318	Branchiostegidae		
SPI	19. Rabbitfishes	3319	Siganidae - <i>Siganus</i> spp.		
DPX	20. Other species	3320	Main groups to be identified, if possible.		

ISSCAAP			SEAFDEC			
Div.	Group	Code	Name	Code No.	Family / Scientific name	
3.	34. Jacks, mullets, sauries, etc.	HAX	1. Half beaks and needlefishes	3401	Exocoetidae - <i>Hemirhamphus</i> spp.	
		NED			Belonidae - <i>Tylosurus</i> spp.	
		BAR	2. Barracudas	3402	Sphyraenidae - <i>Sphyraena</i> spp.	
		MUL	3. Mulletts	3403	Mugilidae	
		THF	4. Threadfins	3404	Polynemidae	
		SDX	5. Round scads	3405	Carangidae - <i>Decapterus</i> spp.	
		TRE	6. Jacks, cavalla and trevallies	3406		Carangidae - <i>Caranx</i> spp.
		GLT				<i>Gnathanodon speciosus</i> (including <i>Alectis</i> spp. <i>Atropus atropus</i> , <i>Caranx chrysophrys</i> , <i>C. malabaricus</i> , <i>C. ignobilis</i> )
		BIS	7. Selar scads	3407		Carangidae - <i>Selar crumenophthalmus</i>
		TRY				<i>Selaroides leptolepis</i> (including <i>Alepes</i> spp., <i>Selar</i> spp.)
		HAS	8. Hardtail scad	3408		Carangidae - <i>Megalaspis cordyla</i>
		QUE	9. Queenfishes	3409		Carangidae - <i>Scomberoides</i> (= <i>Chorinemus</i> ) spp.
	POB	10. Black pomfret	3410		Formionidae - <i>Formio niger</i>	
	SIP	11. White pomfrets	3411		Stromateidae - <i>Pampus argenteus</i> (including <i>Pampus chinensis</i> )	
	PPX	12. Other species	3412		Main groups to be identified, if possible.	
	35. Herrings, sardines, anchovies	SIX	1. Sardines	3501	Clupeidae - <i>Sardinella</i> spp.	
		RAS	2. Round herring	3502	Clupeidae - <i>Dussumieria acute</i>	
		STO	3. Anchovies	3503	Engraulidae - <i>Stolephorus</i> spp.	
		CLU	4. Clupeoids	3504	Clupeoidei	
		DOB	5. Wolf herring	3505	Chirocentridae - <i>Chirocentrus dorab</i>	
	36. Tunas	SKJ	1. Skipjack tuna	3601	Scombridae - <i>Katsuwonus pelamis</i>	
		YFT	2. Yellowfin tuna	3602	Scombridae - <i>Thunnus albacares</i>	
		BET	3. Big-eye tuna	3603	Scombridae - <i>Thunnus obesus</i>	
		LOT	4. Longtail tuna	3604	Scombridae - <i>Thunnus tonggol</i>	
		ALB	5. Albacore	3605	Scombridae - <i>Thunnus alalunga</i>	
		KAW	6. Eastern little tuna	3606	Scombridae - <i>Euthynnus affinis</i>	
		FRZ	7. Frigate tuna and bullet tuna	3607	Scombridae - <i>Auxis thazard</i> <i>Auxis rochei</i>	
		BIL	8. Indo-Pacific swordfish, sailfishes and marlins	3608		Istiophoridae - <i>Istiophorus</i> spp. <i>Makaira</i> spp.
		XIP				Xiphiidae - <i>Xiphias</i> spp.
		COM	9. Narrow-barred king mackerel	3609		Scombridae - <i>Scomberomorus commerson</i>
	GUT	10. King mackerels	3610		Scombridae - <i>Scomberomorus guttatus</i>	
	STS				<i>Scomberomorus lineolatus</i>	
	37. Mackerels	RAG	1. Indian mackerels	3701	Scombridae - <i>Rastrelliger kanagurta</i> (including <i>Rastrelliger faughni</i> )	
		RAB	2. Indo-Pacific mackerel	3702	Scombridae - <i>Rastrelliger brachysoma</i>	
		CUT	3. Hairtails	3703	Trichiuridae	



ISSCAAP			SEAFDEC			
Div.	Group	Code	Name	Code No.	Family / Scientific name	
3.	38. Sharks and rays	SKH	1. Sharks	3801	Carcharhinidae, Sphyrnidae, Orectolobidae, etc.	
		BAI	2. Rays	3802	Trygonidae, Sphyrnidae, Myliobatidae, etc.	
	39. Miscellaneous	MZZ	1. Miscellaneous	3901	Mixed species	
		MZZ	2. Trash fishes	3902	Mixed species	
4.	42. Crabs	CRS	1. Swimming crabs	4201	Portunidae - <i>Portunus</i> spp.	
		MUD	2. Mangrove crab	4202	Portunidae - <i>Scylla serrata</i>	
	43. Lobsters	SLV	1. Spiny lobsters	4301	Palinuridae - <i>Panulirus</i> spp.	
		SST	2. Slipper lobster	4302	Scyllaridae - <i>Themus orientalis</i>	
	45. Shrimps, prawns, etc.	GIT	1. Tiger prawn	4501	Penaenidae - <i>Penaeus monodon</i>	
		PEN MET	2. Penaeid prawns	4502	Penaenidae - <i>Penaeus</i> spp. <i>Metapenaeus</i> spp.	
		-	3. Other prawns	4503	Penaenidae - <i>Parapenaeopsis</i> spp. Other family (genus) names will be added.	
	47. Miscellaneous marine crustaceans	CRU	1. Miscellaneous	4701	Mixed species	
	5.	55. Scallops, pectens, etc.	SCX	1. Scallops	5501	Pectinidae
		56. Cockles, clams	BLS BLC	1. Blood cockle	5601	Arcidae - <i>Anadara</i> spp. <i>Anadara granosa</i>
MAT			2. Clams and cone shell	5602	Mactridae Other family names will be added.	
57. Cuttlefish, squid and octopus		CTL	1. Cuttlefishes	5701	Sepiidae, Sepiolidae	
		SQC	2. Squids	5702	Loliginidae - <i>Loligo</i> spp.	
		OCZ	3. Octopuses	5703	Octopodidae - <i>Octopus</i> spp.	
58. Miscellaneous marine molluscs		MOL	1. Miscellaneous	5801	Other molluscs	
7.	76. Miscellaneous aquatic animals	JEL	1. Jellyfishes	7601	<i>Rhopilema</i> spp.	

**STATISTICAL TABLES FOR 1999**

## 1. ANNUAL CATCH-EFFORT STATISTICS 1999

1-1	Catch and Fishing Effort by Type of Fishing Gear	3
1-1-1	Anchovy Purse Seine	
	(1) Malaysia	5
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1-1-2	Thai Purse Seine	
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1-1-10	Bamboo Stake Trap	
	(1) Thailand	16
1-1-11	Lift Net	
	(1) Malaysia	17
1-1-12	Other Seine	
	(1) Malaysia	18
1-1-13	Mechanised Push Net	
	(1) Thailand	19

# 1. ANNUAL CATCH-EFFORT STATISTICS 1999

## 1-1 Catch and Fishing Effort by Type of Fishing Gear

### 1-1-1 Anchovy Purse Seine

#### (1) Malaysia

Sub-area		Total	West Coast Peninsular	East Coast Peninsular	Sabah	Sarawak	Labuan
Units of fishing effort							
Cumulative no. of fishing units							
Cumulative no. of trips							
Cumulative no. of days							
Cumulative no. of hauls							
Total catch (Tonnes)		17,925	10,809	7,116	0	0	0
Species (group)	Code No.	Total	West Coast Peninsular	East Coast Peninsular	Sabah	Sarawak	Labuan
Shads	2401	0	0	0	0	0	0
Kelee Shad	24xx	0	0	0	0	0	0
Ilisha	24xx	7	0	7	0	0	0
Barramundi	2501	0	0	0	0	0	0
Flounders	3101	0	0	0	0	0	0
Tongue soles	3103	0	0	0	0	0	0
Marine catfishes	3301	35	0	35	0	0	0
Catfish eels	3302	0	0	0	0	0	0
Lizard fishes	3303	0	0	0	0	0	0
Sharp-toothed pike eels and conger eels	3304	0	0	0	0	0	0
Groupers	3305	0	0	0	0	0	0
Sillago whiting	3306	0	0	0	0	0	0
Red snappers	3307	0	0	0	0	0	0
Other snappers	3308	0	0	0	0	0	0
Fusiliers	3309	0	0	0	0	0	0
Threadfin breems	3310	0	0	0	0	0	0
Pony fishes	3311	7	0	7	0	0	0
Grunters and sweetlips	3312	0	0	0	0	0	0
Goatfishes	3314	0	0	0	0	0	0
Wrasse	33xx	0	0	0	0	0	0
Sweetlips	33xx	0	0	0	0	0	0
Snappers	33xx	0	0	0	0	0	0
Bream	33xx	0	0	0	0	0	0
Croaker	33xx	139	0	139	0	0	0
Rabbitfishes	3319	1	0	1	0	0	0
Barracudas	3402	0	0	0	0	0	0
Mullets	3403	1	0	1	0	0	0
Threadfins	3404	0	0	0	0	0	0
Round scads	3405	0	0	0	0	0	0
Jacks, cavallas, trevallies	3406	0	0	0	0	0	0
Selar scads	3407	0	0	0	0	0	0
Hardtail scad	3408	1	0	1	0	0	0
Queenfishes	3409	2	0	2	0	0	0
Black pomfret	3410	1	0	1	0	0	0
Promfret	34xx	1	0	1	0	0	0
Cobia	34xx	0	0	0	0	0	0
Scad	34xx	3	0	3	0	0	0
Fusilier	34xx	0	0	0	0	0	0
Sardines	3501	1,097	0	1,097	0	0	0
Anchovies	3503	15,940	10,804	5,136	0	0	0
Wolf herring	3505	0	0	0	0	0	0
Indo-pacific Tarpon	35xx	0	0	0	0	0	0
Eastern little tuna	3606	268	0	268	0	0	0
King mackerels	3610	0	0	0	0	0	0
Black marlin	36xx	0	0	0	0	0	0
Indian mackerels	3701	0	0	0	0	0	0
Hairtails	3703	71	0	71	0	0	0
Sharks	3801	0	0	0	0	0	0
Rays	3802	0	0	0	0	0	0
Trash fishes	3902	260	5	255	0	0	0
Mix Fish	39xx	91	0	91	0	0	0
Mangrove crab	4202	0	0	0	0	0	0
Spiny lobsters	4301	0	0	0	0	0	0
Tiger prawn	4501	0	0	0	0	0	0
Other prawns	4503	0	0	0	0	0	0
Banana Prawn	45xx	0	0	0	0	0	0
Spear Shrimp	45xx	0	0	0	0	0	0
Pink Shrimp	45xx	0	0	0	0	0	0
Rinbow Shrimp	45xx	0	0	0	0	0	0
Clams and cone shells	5602	0	0	0	0	0	0
Cuttlefishes	5701	0	0	0	0	0	0
Squids	5702	0	0	0	0	0	0
Octopuses	5703	0	0	0	0	0	0
Jollyfish	57xx	0	0	0	0	0	0
TOTAL (Tonnes)		17,925	10,809	7,116	0	0	0



1. ANNUAL CATCH-EFFORT STATISTICS 1999

1-1 Catch and Fishing Effort by Type of Fishing Gear

1-1-1 Anchovy Purse Seine

(2) Thailand

Sub-area		Total	Gulf of Thailand	Indian Ocean
Units of fishing effort				
No. of units		276	156	120
No. of trips		67,634	39,333	28,301
No. of days		82,261	53,406	28,855
No. of hauls		225,822	148,566	77,256
No. of hours		454,936	329,674	125,262
Total catch (Tonnes)		126,808	98,098	28,710
Species (group)	Code No.	Total	Gulf of Thailand	Indian Ocean
Indian halibuts	3102			
Tongue soles	3103			
Marine catfishes	3301			
Lizard fishes	3303			
Sharp-toothed pike eels and conger eels	3304			
Groupers	3305			
Sillago whiting	3306			
Red snappers	3307			
Threadfin breems	3310			
Drums and croakers	3313			
Big-eye snappers	3316			
Barracudas	3402			
Mullets	3403			
Threadfins	3404			
Round scads	3405	33	33	
Jacks, cavallas and trevallies	3406	116	116	
Selar scads	3407	248	248	
Hardtail scad	3408	41	41	
Black pomfret	3410	16	16	
White pomfret	3411			
Sardines	3501	1,895	1,895	
Anchovies	3503	122,384	93,674	28,710
Wolf herring	3505			
Longtail tuna	3604	58	58	
Eastern little tuna	3606			
Narrow-barred king mackerel	3609	30	30	
Indian mackerel	3701	40	40	
Indo-Pacific mackerel	3702	527	527	
Hairtails	3703			
Sharks	3801			
Rays	3802			
Miscellaneous fishes	3901	884	884	
Trash fishes	3902	417	417	
Swimming crabs	4201	60	60	
Mangrove crab	4202			
Slipper lobsters	4302			
Tiger prawn	4501			
Penaeid prawns	4502			
Other prawns	4503			
Miscellaneous	4701			
Scallops	5501			
Cuttlefishes	5701	26	26	
Squids	5702	33	33	
Octopuses	5703			
TOTAL (Tonnes)		126,808	98,098	28,710

# 1. ANNUAL CATCH-EFFORT STATISTICS 1999

## 1-1 Catch and Fishing Effort by Type of Fishing Gear

### 1-1-2 Thai Purse Seine

#### (1) Thailand

Sub-area		Total	Gulf of Thailand	Indian Ocean
Units of fishing effort				
No. of units				
No. of trips		112,804	62,234	50,570
No. of days		274,637	205,482	69,155
No. of hauls		604,171	465,451	138,720
No. of hours		1,512,348	1,136,009	376,339
Total catch (Tonnes)		626,353	442,103	184,250
Species (group)	Code No.			
Indian halibuts	3102			
Tongue soles	3103			
Marine catfishes	3301			
Lizard fishes	3303			
Sharp-toothed pike eels and conger eels	3304			
Groupers	3305			
Sillago whiting	3306			
Red snappers	3307	791		791
Threadfin breams	3310			
Drums and croakers	3313	17		17
Big-eye snappers	3316			
Barracudas	3402	793	11	782
Mullet	3403			
Threadfins	3404			
Round scads	3405	84,541	56,428	28,113
Jacks, cavallas and trevallies	3406	30,212	25,327	4,885
Selar scads	3407	25,216	22,140	3,076
Hardtail scad	3408	20,558	5,947	14,611
Black pomfret	3410	2,391	2,228	163
White pomfret	3411			
Sardines	3501	174,821	121,978	52,843
Anchovies	3503	3,275	742	2,533
Wolf herring	3505	1,314	716	598
Longtail tuna	3604	46,561	41,429	5,132
Eastern little tuna	3606	54,530	51,548	2,982
Narrow-barred king mackerel	3609	1,526	697	829
Indian mackerel	3701	34,935	15,886	19,049
Indo-Pacific mackerel	3702	91,767	61,088	30,679
Hairtails	3703	706	114	592
Sharks	3801	5		5
Rays	3802	61	9	52
Miscellaneous fishes	3901	27,862	22,038	5,824
Trash fishes	3902	22,574	13,269	9,305
Swimming crabs	4201			
Mangrove crab	4202			
Slipper lobsters	4302			
Tiger prawn	4501			
Penaeid prawns	4502			
Other prawns	4503			
Miscellaneous	4701			
Scallops	5501			
Cuttlefishes	5701	31	28	3
Squids	5702	1,864	480	1,384
Octopuses	5703	2		2
TOTAL (Tonnes)		626,353	442,103	184,250

# 1. ANNUAL CATCH-EFFORT STATISTICS 1999

## 1-1 Catch and Fishing Effort by Type of Fishing Gear

### 1-1-3 Fish Purse Seine

(1) Malaysia

Sub-area		Total	West Coast Peninsular	East Coast Peninsular	Sabah	Sarawak	Labuan
<b>Units of fishing effort</b>							
Cumulative no. of fishing units							
Cumulative no. of trips							
Cumulative no. of days							
Cumulative no. of hauls							
Total catch (Tonnes)		253,551	67,136	134,128	41,241	3,039	8,015
Species (group)	Code No.	Total	West Coast Peninsular	East Coast Peninsular	Sabah	Sarawak	Labuan
Shads	2401	155	155	0	0	0	0
Kelee Shad	24xx	0	0	0	0	0	0
Ilisha	24xx	24	24	0	0	0	0
Barramundi	2501	0	0	0	0	0	0
Flounders	3101	0	0	0	0	0	0
Tongue soles	3103	11	0	0	0	11	0
Marine catfishes	3301	34	4	30	0	0	0
Catfish eels	3302	0	0	0	0	0	0
Lizard fishes	3303	0	0	0	0	0	0
Sharp-toothed pike eels and conger eels	3304	0	0	0	0	0	0
Groupers	3305	0	0	0	0	0	0
Sillago whiting	3306	1	0	0	1	0	0
Red snappers	3307	0	0	0	0	0	0
Other snappers	3308	4	0	0	0	4	0
Fusiliers	3309	32	0	32	0	0	0
Threadfin breams	3310	1	1	0	0	0	0
Pony fishes	3311	42	35	6	0	1	0
Grunters and sweetlips	3312	2	2	0	0	0	0
Goatfishes	3314	0	0	0	0	0	0
Wrasse	33xx	0	0	0	0	0	0
Sweetlips	33xx	0	0	0	0	0	0
Snappers	33xx	27	0	27	0	0	0
Bream	33xx	0	0	0	0	0	0
Croaker	33xx	46	8	38	0	0	0
Rabbitfishes	3319	0	0	0	0	0	0
Barracudas	3402	0	0	0	0	0	0
Mullets	3403	0	0	0	0	0	0
Threadfins	3404	311	6	151	129	0	25
Round scads	3405	4	4	0	0	0	0
Jacks, cavallas, trevallies	3406	1	1	0	0	0	0
Selar scads	3407	61,039	7,088	42,532	11,216	109	94
Hardtail scad	3408	518	0	307	211	0	0
Queenfishes	3409	26,945	2,418	23,931	37	546	13
Promfret	34xx	1,595	534	924	1	87	49
Cobia	34xx	86	0	86	0	0	0
Scad	34xx	12,776	2,445	9,030	1,130	109	62
Fusilier	34xx	644	26	618	0	0	0
Sardines	3501	38,423	3,362	21,274	13,086	562	139
Anchovies	3503	83	0	0	83	0	0
Wolf herring	3505	33	0	33	0	0	0
Indo-pacific Tarpon	35xx	4	0	0	4	0	0
Eastern little tuna	3606	44,725	7,679	21,537	8,028	434	7,047
King mackerels	3610	921	186	629	72	13	21
Black marlin	36xx	1,812	0	1,812	0	0	0
Indian mackerels	3701	48,001	35,988	8,005	3,304	329	375
Hairtails	3703	2,927	10	175	2,742	0	0
Sharks	3801	10	0	1	0	9	0
Rays	3802	7	7	1	0	0	0
Trash fishes	3902	7,667	6,271	264	1,030	0	102
Mix Fish	39xx	3,633	832	1,883	30	820	68
Mangrove crab	4202	0	0	0	0	0	0
Spiny lobsters	4301	0	0	0	0	0	0
Tiger prawn	4501	0	0	0	0	0	0
Other prawns	4503	45	44	1	0	0	0
Banana Prawn	45xx	0	0	0	0	0	0
Spear Shrimp	45xx	0	0	0	0	0	0
Pink Shrimp	45xx	0	0	0	0	0	0
Rinbow Shrimp	45xx	0	0	0	0	0	0
Clams and cone shells	5602	0	0	0	0	0	0
Cuttlefishes	5701	12	6	5	1	0	0
Squids	5702	957	0	796	136	5	20
Octopuses	5703	0	0	0	0	0	0
Jolyfish	57xx	0	0	0	0	0	0
<b>TOTAL (Tonnes)</b>		<b>253,551</b>	<b>67,136</b>	<b>134,128</b>	<b>41,241</b>	<b>3,039</b>	<b>8,015</b>

1. ANNUAL CATCH-EFFORT STATISTICS 1999

1-1 Catch and Fishing Effort by Type of Fishing Gear

1-1-4 Otter Trawl (Demersal Trawl)

(1) Brunei

Units of fishing effort		Total
No. of fishing units		23
No. of trips		
No. of days		4,775
No. of hauls		
No. of hours		
Total catch (Tonnes)		902.83
Species (group)	Code No.	Total
Shads	2401	0.39
Flounders	3101	1.63
Indian halibuts	3102	
Marine catfishes	3301	0.05
Sharp-toothed pike eels and conger eels	3304	0.06
Groupers	3305	1.85
Sillago whiting	3306	0.08
Red snappers	3307	3.04
Other snappers	3308	4.03
Fusiliers	3309	
Threadfin beams	3310	
Pony fishes	3311	7.57
Grunters and sweetlips	3312	2.24
Drums and croakers	3313	19.90
Goatfishes	3314	
Big-eye snappers	3316	
Breams	3317	13.29
Other species	3319	203.44
Barracudas	3320	1.04
Mullet	3402	
Threadfins	3403	0.03
Round scads	3404	0.40
Jacks, cavallas and trevallies	3405	2.27
Selar scads	3406	0.11
Hardtail scad	3407	2.19
Queenfishes	3408	2.65
Black pomfret	3409	0.56
White pomfret	3410	0.92
Other species	3411	313.72
Sardines	3412	
Anchovies	3501	
Clupeoids	3504	0.08
Wolf herring	3505	
Skipjack tuna	3601	0.44
Longtail tuna	3604	
Eastern little tuna	3606	1.04
Narrow-barred king mackerel	3609	16.54
Indian mackerels	3701	9.73
Indo-Pacific mackerel	3702	0.40
Hairtails	3703	
Sharks	3801	26.63
Rays	3802	45.79
Miscellaneous fishes	3901	23.75
Trash fishes	3902	4.01
Swimming crabs	4201	1.13
Mangrove crab	4202	
Slipper lobster	4302	0.08
Tiger prawn	4501	0.52
Penaeid prawns	4502	167.36
Other prawns	4503	
Cuttlefishes	5701	0.35
Squids	5702	23.52
Octopus	5703	
OTHERS		
TOTAL (Tonnes)		902.83



1. ANNUAL CATCH-EFFORT STATISTICS 1999

1-1 Catch and Fishing Effort by Type of Fishing Gear

1-1-4 Otter Trawl

(2) Thailand

Sub-area		Total	Gulf of Thailand	Indian Ocean
Units of fishing effort				
No. of units				
No. of trips		302,095	267,116	34,979
No. of days		1,435,446	1,153,796	281,650
No. of hauls		4,394,728	3,468,752	925,976
No. of hours		19,725,420	15,720,418	4,005,002
Total catch (Tonnes)		1,336,980	894,347	442,633
Species (group)	Code No.	Total	Gulf of Thailand	Indian Ocean
Indian halibuts	3102	1,784	1,320	464
Tongue soles	3103	13,353	5,735	7,618
Marine catfishes	3301	11,208	7,876	3,332
Lizard fishes	3303	69,859	57,368	12,491
Sharp-toothed pike eels and conger eels	3304	2,098	957	1,141
Groupers	3305	6,238	5,105	1,133
Sillago whiting	3306	2,225	707	1,518
Red snappers	3307	11,398	8,281	3,117
Threadfin breams	3310	84,017	64,017	20,000
Drums and croakers	3313	31,073	13,208	17,865
Big-eye snappers	3316	74,851	65,258	9,593
Barracudas	3402	13,427	4,668	8,759
Mulletts	3403			
Threadfins	3404			
Round scads	3405			
Jacks, cavalla and trevallies	3406	10,090	7,265	2,825
Selar scads	3407	3,055	2,904	151
Hardtail scad	3408	1	1	
Black pomfret	3410	1,962	1,518	444
White pomfret	3411	294	43	251
Sardines	3501	271	271	0
Anchovies	3503	2,016	1,964	52
Wolf herring	3505	11,472	5,085	6,387
Longtail tuna	3604	0	0	0
Eastern little tuna	3606	0	0	0
Narrow-barred king mackerel	3609	5,703	3,608	2,095
Indian mackerel	3701	8,615	6,859	1,756
Indo-pacific mackerel	3702	36,428	34,351	2,077
Hairtails	3703	13,170	5,679	7,491
Sharks	3801	9,068	6,060	3,008
Rays	3802	10,513	7,140	3,373
Miscellaneous fishes	3901	148,746	115,136	33,610
Trash fishes	3902	577,189	348,541	228,648
Swimming crabs	4201	6,901	5,236	1,665
Mangrove crab	4202	0	0	0
Slipper lobsters	4302	1,673	1,636	37
Tiger prawn	4501	1,548	790	758
Penaeid prawns	4502	6,478	1,156	5,322
Other prawns	4503	34,090	24,686	9,404
Miscellaneous	4701	9,355	5,861	3,494
Scallops	5501	551	550	1
Cuttlefishes	5701	49,105	32,618	16,487
Squids	5702	46,103	30,486	15,617
Octopuses	5703	21,052	10,403	10,649
TOTAL (Tonnes)		1,336,980	894,347	442,633

# 1. ANNUAL CATCH-EFFORT STATISTICS 1999

## 1-1 Catch and Fishing Effort by Type of Fishing Gear

### 1-1-5 Trawl Net

#### (1) Malaysia

Sub-area		Total	West Coast Peninsular	East Coast Peninsular	Sabah	Sarawak	Labuan
Units of fishing effort							
Cumulative no. of fishing units							
Cumulative no. of trips							
Cumulative no. of days							
Cumulative no. of hauls							
Total catch (Tonnes)		662,883	301,816	194,703	89,202	71,880	5,282
Species (group)	Code No.	Total	West Coast Peninsular	East Coast Peninsular	Sabah	Sarawak	Labuan
Shads	2401	1,113	542	1	502	54	14
Kelee Shad	24xx	42	37	0	0	5	0
Ilisha	24xx	5,435	2,013	8	2,720	679	15
Barramundi	2501	52	41	3	0	8	0
Flounders	3101	2,677	359	487	1,416	347	68
Tongue soles	3103	2,509	1,815	288	178	215	13
Marine catfishes	3301	7,173	2,002	1,719	1,756	1,651	45
Catfish eels	3302	195	168	26	1	0	0
Lizard fishes	3303	15,029	7,484	3,953	3,584	0	8
Sharp-toothed pike eels and conger eels	3304	1,353	657	557	138	0	1
Groupers	3305	2,979	1,267	854	420	368	70
Sillago whiting	3306	1,353	657	557	138	0	1
Red snappers	3307	1,151	325	36	535	230	25
Other snappers	3308	2,466	160	898	247	1,029	132
Fusiliers	3309	44	0	23	1	0	20
Threadfin breams	3310	32,325	10,077	14,786	5,782	1,436	244
Pony fishes	3311	2,441	49	1,006	1,065	281	40
Grunters and sweetlips	3312	1,767	461	165	393	731	17
Goatfishes	3314	8,238	2,050	3,420	650	2,055	63
Wrasse	33xx	191	1	37	153	0	0
Sweetlips	33xx	821	6	554	75	139	47
Snappers	33xx	1,711	111	1,450	78	0	72
Bream	33xx	668	94	525	40	0	9
Croaker	33xx	15,216	7,244	2,353	2,122	3,406	91
Rabbitfishes	3319	366	12	146	194	0	14
Barracudas	3402	4,884	794	1,128	2,670	248	44
Mullets	3403	643	629	5	1	8	0
Threadfins	3404	434	394	12	1	14	13
Round scads	3405	6,036	1,335	1,205	3,156	224	116
Jacks, cavallas, trevallies	3406	3,357	487	212	2,133	474	51
Selar scads	3407	10,283	2,349	6,299	663	861	111
Hardtail scad	3408	6,627	2,820	1,198	698	1,872	39
Queenfishes	3409	1,228	310	101	509	307	1
Promfret	34xx	6,138	4,618	513	286	672	49
Cobia	34xx	284	90	194	0	0	0
Scad	34xx	5,481	1,860	1,764	1,046	676	135
Fusilier	34xx	8	1	6	0	0	1
Sardines	3501	1,651	1,242	15	10	384	0
Anchovies	3503	766	635	53	75	3	0
Wolf herring	3505	3,021	1,313	922	425	352	9
Indo-pacific Tarpon	35xx	149	27	1	121	0	0
Eastern little tuna	3606	129	71	45	0	2	11
King mackerels	3610	5,315	2,268	978	854	1,153	62
Black marlin	36xx	1	0	1	0	0	0
Indian mackerels	3701	24,660	16,915	1,432	4,311	1,884	118
Hairtails	3703	13,245	6,069	1,081	3,852	2,238	5
Sharks	3801	4,821	593	1,318	1,444	1,370	96
Rays	3802	12,714	3,420	5,231	1,809	2,148	106
Trash fishes	3902	293,838	153,219	97,734	20,467	20,888	1,730
Mix Fish	39xx	38,098	8,076	12,036	4,710	12,559	717
Mangrove crab	4202	6,838	3,519	1,302	1,862	121	34
Spiny lobsters	4301	1,018	15	519	402	17	65
Tiger prawn	4501	852	327	162	281	2	80
Other prawns	4503	26011	13905	3212	2802	6007	285
Banana Prawn	45xx	5494	1292	454	2497	1133	118
Spear Shrimp	45xx	6197	5216	336	625	20	0
Pink Shrimp	45xx	2396	949	9	664	774	0
Rinbow Shrimp	45xx	2895	1528	386	469	512	0
Clams and cone shells	5602	602	0	32	570	0	0
Cuttlefishes	5701	20142	8535	8534	2525	415	133
Squids	5702	37315	18109	12038	4952	2072	144
Octopuses	5703	1372	692	383	285	12	0
Jolyfish	57xx	625	562	0	39	24	0
<b>TOTAL (Tonnes)</b>		<b>662,883</b>	<b>301,816</b>	<b>194,703</b>	<b>89,202</b>	<b>71,880</b>	<b>5,282</b>



1. ANNUAL CATCH-EFFORT STATISTICS 1999

1-1 Catch and Fishing Effort by Type of Fishing Gear

1-1-6 Thai Pair Trawl

(1) Thailand

Sub-area		Total	Gulf of Thailand	Indian Ocean
Units of fishing effort				
No. of units				
No. of trips		12,203	9,262	2,941
No. of days		142,376	104,991	37,385
No. of hauls		413,668	300,080	113,588
No. of hours		1,665,290	1,184,128	481,162
Total catch (Tonnes)		255,481	178,527	76,954
Species (group)	Code No.			
Indian halibuts	3102	562	508	54
Tongue soles	3103	1,936	562	1,374
Marine catfishes	3301	996	301	695
Lizard fishes	3303	3,449	3,166	283
Sharp-toothed pike eels and conger eels	3304	247	210	37
Groupers	3305	610	315	295
Sillago whiting	3306	585	358	227
Red snappers	3307	424	189	235
Threadfin breams	3310	8,937	5,849	3,088
Drums and croakers	3313	4,604	1,787	2,817
Big-eye snappers	3316	7,822	5,807	2,015
Barracudas	3402	2,101	548	1,553
Mullet	3403			
Threadfins	3404			
Round scads	3405			
Jacks, cavallas and trevallies	3406	2,889	2,300	589
Selar scads	3407	889	674	215
Hardtail scad	3408	13	13	
Black pomfret	3410	1,144	806	338
White pomfret	3411	48	28	20
Sardines	3501			
Anchovies	3503	203	203	
Wolf herring	3505	2,050	588	1,462
Longtail tuna	3604			
Eastern little tuna	3606			
Narrow-barred king mackerel	3609	1,112	669	443
Indian mackerel	3701	2,866	2,715	151
Indo-Pacific mackerel	3702	7,299	5,072	2,227
Hairtails	3703	2,081	655	1,426
Sharks	3801	947	174	773
Rays	3802	1,146	370	776
Miscellaneous fishes	3901	19,455	15,017	4,438
Trash fishes	3902	149,514	109,956	39,558
Swimming crabs	4201	1,025	834	191
Mangrove crab	4202			
Slipper lobsters	4302	109	109	
Tiger prawn	4501	101	21	80
Penaeid prawns	4502	673	337	336
Other prawns	4503	4,703	2,590	2,113
Miscellaneous	4701	1,074	161	913
Scallops	5501			
Cuttlefishes	5701	8,809	5,829	2,980
Squids	5702	11,936	8,724	3,212
Octopuses	5703	3,122	1,082	2,040
<b>TOTAL (Tonnes)</b>		<b>255,481</b>	<b>178,527</b>	<b>76,954</b>

1. ANNUAL CATCH-EFFORT STATISTICS 1999

1-1 Catch and Fishing Effort by Type of Fishing Gear

1-1-7 Beam Trawl

(1) Thailand

Sub-area		Total	Gulf of Thailand	Indian Ocean
<b>Units of fishing effort</b>				
No. of units				
No. of trips		16,594	16,594	
No. of days		16,594	16,594	
No. of hauls		96,839	96,839	
No. of hours		102,364	102,364	
Total catch (Tonnes)		1,824	1,824	
Species (group)	Code No.	Total	Gulf of Thailand	Indian Ocean
Indian halibuts	3102			
Tongue soles	3103			
Marine catfishes	3301	9	9	
Lizard fishes	3303			
Sharp-toothed pike eels and conger eels	3304			
Groupers	3305			
Sillago whiting	3306			
Red snappers	3307			
Threadfin breams	3310			
Drums and croakers	3313	52	52	
Big-eye snappers	3316			
Barracudas	3402			
Mullet	3403			
Threadfins	3404			
Round scads	3405			
Jacks, cavallas and trevallies	3406			
Selar scads	3407			
Hardtail scad	3408			
Black pomfret	3410			
White pomfret	3411			
Sardines	3501			
Anchovies	3503			
Wolf herring	3505			
Longtail tuna	3604			
Eastern little tuna	3606			
Narrow-barred king mackerel	3609			
Indian mackerel	3701			
Indo-Pacific mackerel	3702			
Hairtails	3703			
Sharks	3801			
Rays	3802			
Miscellaneous fishes	3901	192	192	
Trash fishes	3902	15	15	
Swimming crabs	4201	42	42	
Mangrove crab	4202			
Slipper lobsters	4302			
Tiger prawn	4501			
Penaeid prawns	4502	332	332	
Other prawns	4503	1,147	1,147	
Miscellaneous	4701			
Scallops	5501			
Cuttlefishes	5701	18	18	
Squids	5702	1	1	
Octopuses	5703	16	16	
<b>TOTAL (Tonnes)</b>		<b>1,824</b>	<b>1,824</b>	

1. ANNUAL CATCH-EFFORT STATISTICS 1999

1-1 Catch and Fishing Effort by Type of Fishing Gear

1-1-8 Drift / Gill Net

(1) Malaysia

Sub-area		Total	West Coast Peninsular	East Coast Peninsular	Sabah	Sarawak	Labuan
Units of fishing effort							
Cumulative no. of fishing units							
Cumulative no. of trips							
Cumulative no. of days							
Cumulative no. of hauls							
Total catch (Tonnes)		130,803	67,015	13,525	22,172	27,537	554
Species (group)	Code No.	Total	West Coast Peninsular	East Coast Peninsular	Sabah	Sarawak	Labuan
Shads	2401	2,417	1,923	1	132	361	0
Kelee Shad	24xx	580	8	0	0	572	0
Ilisha	24xx	3,708	2,573	143	1	976	15
Barramundi	2501	731	101	3	570	57	0
Flounders	3101	269	19	10	20	201	19
Tongue soles	3103	694	575	11	0	108	0
Marine catfishes	3301	5,077	2,156	442	1,506	945	28
Catfish eels	3302	785	306	0	479	0	0
Lizard fishes	3303	8	6	2	0	0	0
Sharp-toothed pike eels and conger eels	3304	600	247	323	30	0	0
Groupers	3305	803	10	14	619	148	12
Sillago whiting	3306	600	247	323	30	0	0
Red snappers	3307	1,343	6	0	1,184	153	0
Other snappers	3308	1,279	6	10	1,114	148	1
Fusiliers	3309	37	0	0	13	0	24
Threadfin breams	3310	1,381	107	1,115	29	130	0
Pony fishes	3311	325	0	121	109	79	16
Grunters and sweetlips	3312	156	52	5	87	3	9
Goatfishes	3314	140	13	22	0	105	0
Wrasse	33xx	61	0	0	61	0	0
Sweetlips	33xx	24	0	10	10	0	4
Snappers	33xx	106	1	44	49	0	12
Bream	33xx	24	0	17	0	0	7
Croaker	33xx	5,282	3,793	571	267	651	0
Rabbitfishes	3319	121	0	8	74	0	39
Barracudas	3402	278	75	103	64	20	16
Mullet	3403	3,613	1,693	63	1,844	4	9
Threadfins	3404	2,987	716	49	1,744	478	0
Round scads	3405	41	0	41	0	0	0
Jacks, cavallas, trevallies	3406	783	8	14	521	233	7
Selar scads	3407	338	104	131	12	91	0
Hardtail scad	3408	1,922	167	708	84	905	58
Queenfishes	3409	1,602	140	10	1,154	281	17
Promfret	34xx	2,537	965	31	1,153	388	0
Cobia	34xx	14	5	9	0	0	0
Scad	34xx	2,368	55	1,650	70	586	7
Fusilier	34xx	30	0	0	30	0	0
Sardines	3501	1,865	4	419	50	1,391	1
Anchovies	3503	0	0	0	0	0	0
Wolf herring	3505	1,677	696	552	9	412	8
Indo-pacific Tarpon	35xx	33	2	21	10	0	0
Eastern little tuna	3606	5,404	604	438	1,866	2,448	48
King mackerels	3610	7,485	2,123	451	2,588	2,290	33
Black marlin	36xx	186	0	0	176	0	10
Indian mackerels	3701	36,390	31,782	2,902	65	1,559	102
Hairtails	3703	758	89	340	68	258	3
Sharks	3801	1,903	122	263	854	653	11
Rays	3802	1,899	531	939	283	145	1
Trash fishes	3902	1,780	1,775	0	0	5	0
Mix Fish	39xx	9,541	2,499	801	564	5,641	36
Mangrove crab	4202	2,615	1,781	76	499	258	1
Spiny lobsters	4301	59	0	47	12	0	0
Tiger prawn	4501	128	44	8	76	0	0
Other prawns	4503	9041	4739	116	197	3989	0
Banana Prawn	45xx	5598	2852	137	1745	864	0
Spear Shrimp	45xx	42	13	0	29	0	0
Pink Shrimp	45xx	21	0	0	21	0	0
Rinbow Shrimp	45xx	241	240	0	0	1	0
Clams and cone shells	5602	0	0	0	0	0	0
Cuttlefishes	5701	682	681	1	0	0	0
Squids	5702	72	62	10	0	0	0
Octopuses	5703	18	18	0	0	0	0
Jolyfish	57xx	301	301	0	0	0	0
TOTAL (Tonnes)		130,803	67,015	13,525	22,172	27,537	554

1. ANNUAL CATCH-EFFORT STATISTICS 1999

1-1 Catch and Fishing Effort by Type of Fishing Gear

1-1-9 Spanish Mackerel Drift Gill Net

(1) Thailand

Sub-area		Total	Gulf of Thailand	Indian Ocean
Units of fishing effort				
No. of units				
No. of trips		16,695	6,304	10,391
No. of days		42,445	31,494	10,951
No. of hauls		48,895	34,699	14,196
No. of hours		325,251	256,716	68,535
Total catch (Tonnes)		14,548	12,645	1,903
Species (group)	Code No.	Total	Gulf of Thailand	Indian Ocean
Indian halibuts	3102			
Tongue soles	3103			
Marine catfishes	3301			
Lizard fishes	3303			
Sharp-toothed pike eels and conger eels	3304			
Groupers	3305			
Sillago whiting	3306			
Red snappers	3307			
Threadfin breems	3310			
Drums and croakers	3313			
Big-eye snappers	3316			
Barracudas	3402			
Mulletts	3403			
Threadfins	3404			
Round scads	3405			
Jacks, cavallas and trevallies	3406			
Selar scads	3407			
Hardtail scad	3408	12		12
Black pomfret	3410	148	92	56
White pomfret	3411			
Sardines	3501			
Anchovies	3503			
Wolf herring	3505	110	110	
Longtail tuna	3604	4,916	4,249	667
Eastern little tuna	3606	5,136	5,133	3
Narrow-barred king mackerel	3609	3,858	2,916	942
Indian mackerel	3701			
Indo-Pacific mackerel	3702	6	6	
Hairtails	3703			
Sharks	3801	68	68	
Rays	3802			
Miscellaneous fishes	3901	293	70	223
Trash fishes	3902	1	1	
Swimming crabs	4201			
Mangrove crab	4202			
Slipper lobsters	4302			
Tiger prawn	4501			
Penaeid prawns	4502			
Other prawns	4503			
Miscellaneous	4701			
Scallops	5501			
Cuttlefishes	5701			
Squids	5702			
Octopuses	5703			
TOTAL (Tonnes)		14,548	12,645	1,903

1. ANNUAL CATCH-EFFORT STATISTICS 1999

1-1 Catch and Fishing Effort by Type of Fishing Gear

1-1-10 Bamboo Stake Trap

(1) Thailand

Sub-area		Total	Gulf of Thailand	Indian Ocean
Units of fishing effort				
No. of units				
No. of trips		12,395	12,395	
No. of days		12,162	12,162	
No. of hauls		1,675	1,675	
No. of hours				
Total catch (Tonnes)		2,186	2,186	
Species (group)	Code No.	Total	Gulf of Thailand	Indian Ocean
Indian halibuts	3102			
Tongue soles	3103			
Marine catfishes	3301			
Lizard fishes	3303			
Sharp-toothed pike eels and conger eels	3304			
Grouper	3305			
Sillago whiting	3306			
Red snappers	3307			
Threadfin breams	3310			
Drums and croakers	3313	12	12	
Big-eye snappers	3316			
Barracudas	3402			
Mullet	3403			
Threadfins	3404			
Round scads	3405			
Jacks, cavallas and trevallies	3406	79	79	
Selar scads	3407			
Hardtail scad	3408	243	243	
Black pomfret	3410			
White pomfret	3411			
Sardines	3501	171	171	
Anchovies	3503	303	303	
Wolf herring	3505			
Longtail tuna	3604			
Eastern little tuna	3606			
Narrow-barred king mackerel	3609	2	2	
Indian mackerel	3701	11	11	
Indo-Pacific mackerel	3702	136	136	
Hairtails	3703	13	13	
Sharks	3801			
Rays	3802			
Miscellaneous fishes	3901	70	70	
Trash fishes	3902	1,067	1,067	
Swimming crabs	4201			
Mangrove crab	4202			
Slipper lobsters	4302			
Tiger prawn	4501			
Penaeid prawns	4502			
Other prawns	4503			
Miscellaneous	4701			
Scallops	5501			
Cuttlefishes	5701	30	30	
Squids	5702	49	49	
Octopuses	5703			
TOTAL (Tonnes)		2,186	2,186	



# 1. ANNUAL CATCH-EFFORT STATISTICS 1999

## 1-1 Catch and Fishing Effort by Type of Fishing Gear

### 1-1-11 Lift Net

#### (1) Malaysia

Sub-area		Total	West Coast Peninsular	East Coast Peninsular	Sabah	Sarawak	Labuan
Units of fishing effort							
Cumulative no. of fishing units							
Cumulative no. of trips							
Cumulative no. of days							
Cumulative no. of hauls							
Total catch (Tonnes)		17,630	0	7,701	9,791	0	138
Species (group)	Code No.	Total	West Coast Peninsular	East Coast Peninsular	Sabah	Sarawak	Labuan
Shads	2401	0	0	0	0	0	0
Kelee Shad	24xx	0	0	0	0	0	0
Ilisha	24xx	3	0	3	0	0	0
Barramundi	2501	0	0	0	0	0	0
Flounders	3101	1	0	0	0	0	0
Tongue soles	3103	0	0	0	0	0	0
Marine catfishes	3301	1	0	1	0	0	0
Catfish eels	3302	0	0	0	0	0	0
Lizard fishes	3303	0	0	0	0	0	0
Sharp-toothed pike eels and conger eels	3304	0	0	0	0	0	0
Groupers	3305	0	0	0	0	0	0
Sillago whiting	3306	0	0	0	0	0	0
Red snappers	3307	0	0	0	0	0	0
Other snappers	3308	4	0	1	3	0	0
Fusiliers	3309	0	0	0	0	0	0
Threadfin breams	3310	0	0	1	0	0	0
Pony fishes	3311	105	0	0	105	0	0
Grunters and sweetlips	3312	1	0	1	0	0	0
Goatfishes	3314	0	0	0	0	0	0
Wrasse	33xx	0	0	0	0	0	0
Sweetlips	33xx	0	0	0	0	0	0
Snappers	33xx	0	0	0	0	0	0
Bream	33xx	0	0	0	0	0	0
Croaker	33xx	4	0	4	0	0	0
Rabbitfishes	3319	7	0	1	6	0	0
Barracudas	3402	622	0	1	616	0	5
Mulletts	3403	6	0	0	6	0	0
Threadfins	3404	0	0	0	0	0	0
Round scads	3405	1,880	0	94	1,768	0	18
Jacks, cavallas, trevallies	3406	177	0	1	176	0	0
Selar scads	3407	2,919	0	2,896	11	0	12
Hardtail scad	3408	289	0	0	289	0	0
Queenfishes	3409	579	0	0	579	0	0
Promfret	34xx	104	0	18	45	0	41
Cobia	34xx	0	0	0	0	0	0
Scad	34xx	717	0	84	621	0	12
Fusilier	34xx	6	0	6	0	0	0
Sardines	3501	1,971	0	515	1,431	0	25
Anchovies	3503	6,180	0	3,641	2,539	0	0
Wolf herring	3505	0	0	0	0	0	0
Indo-pacific Tarpon	35xx	0	0	0	0	0	0
Eastern little tuna	3606	8	0	8	0	0	0
King mackerels	3610	5	0	2	3	0	0
Black marlin	36xx	0	0	0	0	0	0
Indian mackerels	3701	466	0	27	415	0	24
Hairtails	3703	161	0	3	158	0	0
Sharks	3801	0	0	0	0	0	0
Rays	3802	0	0	0	0	0	0
Trash fishes	3902	2	0	2	0	0	0
Mix Fish	39xx	342	0	57	284	0	1
Mangrove crab	4202	0	0	0	0	0	0
Spiny lobsters	4301	0	0	0	0	0	0
Tiger prawn	4501	0	0	0	0	0	0
Other prawns	4503	0	0	0	0	0	0
Banana Prawn	45xx	0	0	0	0	0	0
Spear Shrimp	45xx	0	0	0	0	0	0
Pink Shrimp	45xx	0	0	0	0	0	0
Rinbow Shrimp	45xx	0	0	0	0	0	0
Clams and cone shells	5602	0	0	0	0	0	0
Cuttlefishes	5701	310	0	0	310	0	0
Squids	5702	684	0	334	350	0	0
Octopuses	5703	76	0	0	76	0	0
Jolyfish	57xx	0	0	0	0	0	0
<b>TOTAL (Tonnes)</b>		<b>17,630</b>	<b>0</b>	<b>7,701</b>	<b>9,791</b>	<b>0</b>	<b>138</b>



# 1. ANNUAL CATCH-EFFORT STATISTICS 1999

## 1-2 Catch and Fishing Effort by Type of Fishing Gear

### 1-1-12 Other Seine

#### (1) Malaysia

Sub-area		Total	West Coast Peninsular	East Coast Peninsular	Sabah	Sarawak	Labuan
Units of fishing effort							
Cumulative no. of fishing units							
Cumulative no. of trips							
Cumulative no. of days							
Cumulative no. of hauls							
Total catch (Tonnes)		18,589	16,564	0	2,017	0	16
Species (group)	Code No.	Total	West Coast Peninsular	East Coast Peninsular	Sabah	Sarawak	Labuan
Shads	2401	600	600	0	0	0	0
Kelee Shad	24xx	0	0	0	0	0	0
Ilisha	24xx	0	0	0	0	0	0
Barramundi	2501	0	0	0	0	0	0
Flounders	3101	0	0	0	0	0	0
Tongue soles	3103	0	0	0	0	0	0
Marine catfishes	3301	145	145	0	0	0	0
Catfish eels	3302	5	5	0	0	0	0
Lizard fishes	3303	0	0	0	0	0	0
Sharp-toothed pike eels and conger eels	3304	7	7	0	0	0	0
Groupers	3305	0	0	0	0	0	0
Sillago whiting	3306	7	7	0	0	0	0
Red snappers	3307	0	0	0	0	0	0
Other snappers	3308	0	0	0	0	0	0
Fusiliers	3309	9	0	0	9	0	0
Threadfin breams	3310	0	0	0	0	0	0
Pony fishes	3311	0	0	0	0	0	0
Grunters and sweetlips	3312	0	0	0	0	0	0
Goatfishes	3314	0	0	0	0	0	0
Wrasse	33xx	192	0	0	192	0	0
Sweetlips	33xx	0	0	0	0	0	0
Snappers	33xx	0	0	0	0	0	0
Bream	33xx	0	0	0	0	0	0
Croaker	33xx	217	217	0	0	0	0
Rabbitfishes	3319	70	0	0	70	0	0
Barracudas	3402	1	1	0	0	0	0
Mullets	3403	295	295	0	0	0	0
Threadfins	3404	0	0	0	0	0	0
Round scads	3405	4	0	0	4	0	0
Jacks, cavallas, trevallies	3406	0	0	0	0	0	0
Selar scads	3407	53	0	0	53	0	0
Hardtail scad	3408	0	0	0	0	0	8
Queenfishes	3409	0	0	0	0	0	0
Promfret	34xx	16	16	0	0	0	0
Cobia	34xx	0	0	0	0	0	0
Scad	34xx	4	0	0	4	0	0
Fusilier	34xx	0	0	0	0	0	0
Sardines	3501	339	0	0	339	0	0
Anchovies	3503	9	1	0	0	0	8
Wolf herring	3505	0	0	0	0	0	0
Indo-pacific Tarpon	35xx	0	0	0	0	0	0
Eastern little tuna	3606	895	0	0	895	0	0
King mackerels	3610	2	0	0	2	0	0
Black marlin	36xx	0	0	0	0	0	0
Indian mackerels	3701	233	0	0	233	0	0
Hairtails	3703	1	1	0	0	0	0
Sharks	3801	0	0	0	0	0	0
Rays	3802	13	13	0	0	0	0
Trash fishes	3902	8,180	8,178	0	2	0	0
Mix Fish	39xx	224	94	0	130	0	0
Mangrove crab	4202	3	3	0	0	0	0
Spiny lobsters	4301	0	0	0	0	0	0
Tiger prawn	4501	3	3	0	0	0	0
Other prawns	4503	4063	4063	0	0	0	0
Banana Prawn	45xx	135	89	0	46	0	0
Spear Shrimp	45xx	2079	2079	0	0	0	0
Pink Shrimp	45xx	0	0	0	0	0	0
Rinbow Shrimp	45xx	707	707	0	0	0	0
Clams and cone shells	5602	0	0	0	0	0	0
Cuttlefishes	5701	20	20	0	0	0	0
Squids	5702	58	20	0	38	0	0
Octopuses	5703	0	0	0	0	0	0
Jolyfish	57xx	0	0	0	0	0	0
<b>TOTAL (Tonnes)</b>		<b>18,589</b>	<b>16,564</b>	<b>0</b>	<b>2,017</b>	<b>0</b>	<b>16</b>

# 1. ANNUAL CATCH-EFFORT STATISTICS 1999

## 1-1 Catch and Fishing Effort by Type of Fishing Gear

### 1-1-13 Mechanised Push Net

(1) Thailand

Sub-area		Total	Gulf of Thailand	Indian Ocean
Units of fishing effort				
No. of units				
No. of trips		91,496	74,196	17,300
No. of days		104,003	86,703	17,300
No. of hauls		647,944	550,740	97,204
No. of hours		984,028	841,781	142,247
Total catch (Tonnes)		28,921	23,892	5,029
Species (group)	Code No.	Total	Gulf of Thailand	Indian Ocean
Indian halibuts	3102			
Tongue soles	3103			
Marine catfishes	3301	207	24	183
Lizard fishes	3303			
Sharp-toothed pike eels and conger eels	3304			
Groupers	3305			
Sillago whiting	3306	78		78
Red snappers	3307			
Treadfin breams	3310			
Drums and croackers	3313	537	369	168
Big-eye snappers	3316			
Barracudas	3402	24	1	23
Mullets	3403			
Threadfins	3404			
Round scads	3405			
Jacks, cavallas and trevallies	3406			
Selar scads	3407			
Hardtail scad	3408			
Black pomfret	3410			
White pomfret	3411			
Sardines	3501			
Anchovies	3503	1,092	1,092	
Wolf herring	3505	21	20	1
Longtail tuna	3604			
Eastern little tuna	3606			
Narrow-barred king mackerel	3609			
Indian mackerel	3701			
Indo-Pacific mackerel	3702			
Hairtails	3703			
Sharks	3801			
Rays	3802			
Miscellaneous fishes	3901	1,830	1,275	555
Trash fishes	3902	11,033	9,004	2,029
Swimming crabs	4201	942	833	109
Mangrove crab	4202	11	11	
Slipper lobsters	4302	1	1	
Tiger prawn	4501	109	18	91
Panaeid prawns	4502	1,574	1,303	271
Other prawns	4503	9,222	8,116	1,106
Miscellaneous	4701	96	5	91
Scallops	5501			
Cuttlefishes	5701	981	887	94
Squids	5702	536	473	63
Octopuses	5703	627	460	167
TOTAL (Tonnes)		28,921	23,892	5,029

# 1. ANNUAL CATCH-EFFORT STATISTICS 1999

## 1-2 Catch and Fishing Effort by Type of Fishing Gear and by Size of Management 21

1-2-1	Fish Purse Seine		
(1)	Malaysia	Less than 10 tons	23
		10 - 25 tons	24
		25 - 40 tons	25
		40 - 70 tons	26
		More than 70 tons	27
1-2-2	Otter Trawl		
(1)	Malaysia	Less than 10 tons	28
		10 - 25 tons	29
		25 - 40 tons	30
		40 - 70 tons	31
		More than 70 tons	32
(2)	Thailand	Less than 14 meters	33
		14 - 18 meters	34
		18 - 25 meters	35
		More than 25 meters	36
1-2-3	Pair Trawl		
(1)	Thailand	Less than 14 meters	37
		14 - 18 meters	38
		18 - 25 meters	39

# 1. ANNUAL CATCH-EFFORT STATISTICS 1999

## 1-2 Catch and Fishing Effort by Type of Fishing Gear and by Size of Management

### 1-2-1 Fish Purse Seine

Size of boat : Less than 10 tons

#### (1) Malaysia

Sub-area		Total	West Coast Peninsular	East Coast Peninsular
Units of fishing effort				
Cumulative no. of fishing units		91	5	86
Cumulative no. of trips		854	74	780
Cumulative no. of days		1,324	94	1,230
Cumulative no. of hauls		3,161	396	2,765
Total catch (Tonnes)		629	190	439
Species (group)	Code No.	Total	West Coast Peninsular	East Coast Peninsular
Shads	2401	0	0	0
Kelee Shad	24xx	0	0	0
Ilisha	24xx	0	0	0
Barramundi	2501	0	0	0
Flounders	3101	0	0	0
Tongue soles	3103	0	0	0
Marine catfishes	3301	0	0	0
Catfish eels	3302	0	0	0
Lizard fishes	3303	0	0	0
Sharp-toothed pike eels and conger eels	3304	0	0	0
Groupers	3305	0	0	0
Sillago whiting	3306	0	0	0
Red snappers	3307	0	0	0
Other snappers	3308	0	0	0
Fusiliers	3309	0	0	0
Threadfin breems	3310	0	0	0
Pony fishes	3311	0	0	0
Grunters and sweetlips	3312	0	0	0
Goatfishes	3314	0	0	0
Wrasse	33xx	0	0	0
Sweetlips	33xx	0	0	0
Snappers	33xx	0	0	0
Bream	33xx	0	0	0
Croaker	33xx	0	0	0
Rabbitfishes	3319	0	0	0
Barracudas	3402	0	0	0
Mulletts	3403	0	0	0
Threadfins	3404	0	0	0
Round scads	3405	0	0	0
Jacks, cavallas, trevallies	3406	43	0	43
Selar scads	3407	0	0	0
Hardtail scad	3408	9	0	9
Queenfishes	3409	4	4	0
Promfret	34xx	11	0	11
Cobia	34xx	0	0	0
Scad	34xx	28	0	28
Fusilier	34xx	0	0	0
Sardines	3501	13	13	0
Anchovies	3503	0	0	0
Wolf herring	3505	0	0	0
Indo-pacific Tarpon	35xx	0	0	0
Eastern little tuna	3606	327	0	327
King mackerels	3610	0	0	0
Black marlin	36xx	0	0	0
Indian mackerels	3701	19	2	17
Hairtails	3703	0	0	0
Sharks	3801	0	0	0
Rays	3802	0	0	0
Trash fishes	3902	170	170	0
Mix fish	39xx	1	1	0
Mangrove crab	4202	0	0	0
Spiny lobsters	4301	0	0	0
Tiger prawn	4501	0	0	0
Other prawns	4503	0	0	0
Banana prawn	45xx	0	0	0
Spear shrimp	45xx	0	0	0
Pink shrimp	45xx	0	0	0
Rinbow shrimp	45xx	0	0	0
Clams and cone shells	5602	0	0	0
Cuttlefishes	5701	0	0	0
Squids	5702	4	0	4
Octopuses	5703	0	0	0
Jolyfish	57xx	0	0	0
TOTAL (Tonnes)		629	190	439

1. ANNUAL CATCH-EFFORT STATISTICS 1999

1-2 Catch and Fishing Effort by Type of Fishing Gear and by Size of Management

1-2-1 Fish Purse Seine

Size of boat : 10 - 25 tons

(1) Malaysia

Sub-area		Total	West Coast Peninsular	East Coast Peninsular
Units of fishing effort				
Cumulative no. of fishing units		1,073	9	1,064
Cumulative no. of trips		13,646	134	13,512
Cumulative no. of days		15,561	134	15,427
Cumulative no. of hauls		45,352	1,079	44,273
Total catch (Tonnes)		24,068	2,150	21,918
Species (group)	Code No.	Total	West Coast Peninsular	East Coast Peninsular
Shads	2401	0	0	0
Kelee Shad	24xx	0	0	0
Ilisha	24xx	0	0	0
Barramundi	2501	0	0	0
Flounders	3101	0	0	0
Tongue soles	3103	0	0	0
Marine catfishes	3301	4	0	4
Catfish eels	3302	0	0	0
Lizard fishes	3303	0	0	0
Sharp-toothed pike eels and conger eels	3304	0	0	0
Groupers	3305	0	0	0
Sillago whiting	3306	0	0	0
Red snappers	3307	0	0	0
Other snappers	3308	0	0	0
Fusiliers	3309	18	0	18
Threadfin breams	3310	0	0	0
Pony fishes	3311	0	0	0
Grunters and sweetlips	3312	0	0	0
Goatfishes	3314	0	0	0
Wrasse	33xx	0	0	0
Sweetlips	33xx	0	0	0
Snappers	33xx	15	0	15
Bream	33xx	0	0	0
Croaker	33xx	40	2	38
Rabbitfishes	3319	0	0	0
Barracudas	3402	114	0	114
Mullets	3403	0	0	0
Threadfins	3404	0	0	0
Round scads	3405	4,680	23	4,657
Jacks, cavallas, trevallies	3406	121	0	121
Selar scads	3407	4,690	33	4,657
Hardtail scad	3408	1,254	10	1,244
Queenfishes	3409	47	1	46
Promfret	34xx	221	73	148
Cobia	34xx	61	0	61
Scad	34xx	3,357	173	3,184
Fusilier	34xx	1	1	0
Sardines	3501	5,112	287	4,825
Anchovies	3503	0	0	0
Wolf herring	3505	19	0	19
Indo-pacific Tarpon	35xx	0	0	0
Eastern little tuna	3606	1,145	896	249
King mackerels	3610	134	3	131
Black marlin	36xx	0	0	0
Indian mackerels	3701	2,082	385	1,697
Hairtails	3703	64	0	64
Sharks	3801	0	0	0
Rays	3802	1	1	0
Trash fishes	3902	212	212	0
Mix fish	39xx	274	50	224
Mangrove crab	4202	0	0	0
Spiny lobsters	4301	0	0	0
Tiger prawn	4501	0	0	0
Other prawns	4503	0	0	0
Banana prawn	45xx	0	0	0
Spear shrimp	45xx	0	0	0
Pink shrimp	45xx	0	0	0
Rinbow shrimp	45xx	0	0	0
Clams and cone shells	5602	0	0	0
Cuttlefishes	5701	1	0	1
Squids	5702	401	0	401
Octopuses	5703	0	0	0
Jolyfish	57xx	0	0	0
TOTAL (Tonnes)		402	2,150	21,918



# 1. ANNUAL CATCH-EFFORT STATISTICS 1999

## 1-2 Catch and Fishing Effort by Type of Fishing Gear and by Size of Management

### 1-2-1 Fish Purse Seine

Size of boat : 25 - 40 tons

#### (1) Malaysia

Sub-area		Total	West Coast Peninsular	East Coast Peninsular
<b>Units of fishing effort</b>				
Cumulative no. of fishing units		1,103	442	661
Cumulative no. of trips		10,407	2,869	7,538
Cumulative no. of days		17,271	6,140	11,131
Cumulative no. of hauls		69,584	14,170	55,414
Total catch (Tonnes)		44,669	17,040	27,629
Species (group)	Code No.	Total	West Coast Peninsular	East Coast Peninsular
Shads	2401	0	0	0
Kelee Shad	24xx	0	0	0
Ilisha	24xx	0	0	0
Barramundi	2501	0	0	0
Flounders	3101	0	0	0
Tongue soles	3103	0	0	0
Marine catfishes	3301	0	0	0
Catfish eels	3302	0	0	0
Lizard fishes	3303	0	0	0
Sharp-toothed pike eels and conger eels	3304	0	0	0
Groupers	3305	0	0	0
Sillago whiting	3306	0	0	0
Red snappers	3307	0	0	0
Other snappers	3308	0	0	0
Fusiliers	3309	0	0	0
Threadfin breems	3310	0	0	0
Pony fishes	3311	0	0	0
Grunters and sweetlips	3312	0	0	0
Goatfishes	3314	0	0	0
Wrasse	33xx	0	0	0
Sweetlips	33xx	0	0	0
Snappers	33xx	0	0	0
Bream	33xx	0	0	0
Croaker	33xx	0	0	0
Rabbitfishes	3319	0	0	0
Barracudas	3402	18	1	17
Mullets	3403	4	4	0
Threadfins	3404	0	0	0
Round scads	3405	4,654	13	4,641
Jacks, cavallas, trevallies	3406	37	0	37
Selar scads	3407	4,649	8	4,641
Hardtail scad	3408	1,118	11	1,107
Queenfishes	3409	15	0	15
Promfret	34xx	256	3	253
Cobia	34xx	24	0	24
Scad	34xx	2,498	6	2,492
Fusilier	34xx	0	0	0
Sardines	3501	4,441	409	4,032
Anchovies	3503	0	0	0
Wolf herring	3505	10	0	10
Indo-pacific Tarpon	35xx	0	0	0
Eastern little tuna	3606	5,491	11	5,480
King mackerels	3610	311	0	311
Black marlin	36xx	1,812	0	1,812
Indian mackerels	3701	17,029	14,694	2,335
Hairtails	3703	70	0	70
Sharks	3801	0	0	0
Rays	3802	4	4	0
Trash fishes	3902	1,570	1,570	0
Mix fish	39xx	424	266	158
Mangrove crab	4202	0	0	0
Spiny lobsters	4301	0	0	0
Tiger prawn	4501	0	0	0
Other prawns	4503	41	40	1
Banana prawn	45xx	0	0	0
Spear shrimp	45xx	0	0	0
Pink shrimp	45xx	0	0	0
Rinbow shrimp	45xx	0	0	0
Clams and cone shells	5602	0	0	0
Cuttlefishes	5701	0	0	0
Squids	5702	193	0	193
Octopuses	5703	0	0	0
Jolyfish	57xx	0	0	0
<b>TOTAL (Tonnes)</b>		<b>234</b>	<b>17,040</b>	<b>27,629</b>



# 1. ANNUAL CATCH-EFFORT STATISTICS 1999

## 1-2 Catch and Fishing Effort by Type of Fishing Gear and by Size of Management

### 1-2-1 Fish Purse Seine

Size of boat : 40- 70 tons

#### (1) Malaysia

Sub-area		Total	West Coast Peninsular	East Coast Peninsular
Units of fishing effort				
Cumulative no. of fishing units		2,236	1,288	948
Cumulative no. of trips		26,763	16,748	10,015
Cumulative no. of days		34,857	20,600	14,257
Cumulative no. of hauls		97,235	35,218	62,017
Total catch (Tonnes)		77,973	37,121	40,852
Species (group)	Code No.	Total	West Coast Peninsular	East Coast Peninsular
Shads	2401	155	155	0
Kelee Shad	24xx	0	0	0
Ilisha	24xx	23	23	0
Barramundi	2501	0	0	0
Flounders	3101	0	0	0
Tongue soles	3103	0	0	0
Marine catfishes	3301	30	4	26
Catfish eels	3302	0	0	0
Lizard fishes	3303	0	0	0
Sharp-toothed pike eels and conger eels	3304	0	0	0
Groupers	3305	0	0	0
Sillago whiting	3306	0	0	0
Red snappers	3307	0	0	0
Other snappers	3308	0	0	0
Fusiliers	3309	14	0	14
Threadfin breams	3310	1	1	0
Pony fishes	3311	44	0	44
Grunters and sweetlips	3312	2	2	0
Goatfishes	3314	0	0	0
Wrasse		0	0	0
Sweetlips	33xx	0	0	0
Snappers	33xx	12	0	12
Bream	33xx	0	0	0
Croaker	33xx	6	6	0
Rabbitfishes	3319	0	0	0
Barracudas	3402	23	5	18
Mulletts	3403	0	0	0
Threadfins	3404	1	1	0
Round scads	3405	14,624	3,981	10,643
Jacks, cavallas, trevallies	3406	44	0	44
Selar scads	3407	12,304	1,661	10,643
Hardtail scad	3408	4,693	2,572	2,121
Queenfishes	3409	56	0	56
Promfret	34xx	641	445	196
Cobia	34xx	1	0	1
Scad	34xx	4,074	1,886	2,188
Fusilier	34xx	13	7	6
Sardines	3501	12,592	1,476	11,116
Anchovies	3503	0	0	0
Wolf herring	3505	3	0	3
Indo-pacific Tarpon	35xx	0	0	0
Eastern little tuna	3606	3,694	3,694	0
King mackerels	3610	222	71	151
Black marlin	36xx	0	0	0
Indian mackerels	3701	20,808	18,135	2,673
Hairtails	3703	30	0	30
Sharks	3801	1	0	1
Rays	3802	3	2	1
Trash fishes	3902	2,776	2,648	128
Mix fish	39xx	872	316	556
Mangrove crab	4202	0	0	0
Spiny lobsters	4301	0	0	0
Tiger prawn	4501	0	0	0
Other prawns	4503	4	4	0
Banana prawn	45xx	0	0	0
Spear shrimp	45xx	0	0	0
Pink shrimp	45xx	0	0	0
Rinbow shrimp	45xx	0	0	0
Clams and cone shells	5602	0	0	0
Cuttlefishes	5701	6	6	0
Squids	5702	201	20	181
Octopuses	5703	0	0	0
Jolyfish	57xx	0	0	0
TOTAL (Tonnes)		211	37,121	40,852

# 1. ANNUAL CATCH-EFFORT STATISTICS 1999

## 1-2 Catch and Fishing Effort by Type of Fishing Gear and by Size of Management

### 1-2-1 Fish Purse Seine

Size of boat : More than 70 tons

#### (1) Malaysia

Sub-area		Total	West Coast Peninsular	East Coast Peninsular
Units of fishing effort				
Cumulative no. of fishing units		1,260	390	870
Cumulative no. of trips		4,405	1,873	2,532
Cumulative no. of days		22,315	7,688	14,627
Cumulative no. of hauls		94,921	7,031	87,890
Total catch (Tonnes)		39,366	13,774	25,592
Species (group)	Code No.	Total	West Coast Peninsular	East Coast Peninsular
Shads	2401	0	0	0
Kelee Shad	24xx	0	0	0
Ilisha	24xx	1	1	0
Barramundi	2501	0	0	0
Flounders	3101	0	0	0
Tongue soles	3103	0	0	0
Marine catfishes	3301	0	0	0
Catfish eels	3302	0	0	0
Lizard fishes	3303	0	0	0
Sharp-toothed pike eels and conger eels	3304	0	0	0
Groupers	3305	0	0	0
Sillago whiting	3306	0	0	0
Red snappers	3307	0	0	0
Other snappers	3308	0	0	0
Fusiliers	3309	0	0	0
Threadfin brems	3310	0	0	0
Pony fishes	3311	35	35	0
Grunters and sweetlips	3312	0	0	0
Goatfishes	3314	0	0	0
Wrasse		0	0	0
Sweetlips	33xx	0	0	0
Snappers	33xx	0	0	0
Bream	33xx	0	0	0
Croaker	33xx	0	0	0
Rabbitfishes	3319	0	0	0
Barracudas	3402	0	0	0
Mullets	3403	0	0	0
Threadfins	3404	0	0	0
Round scads	3405	7,061	3,071	3,990
Jacks, cavallas, trevallies	3406	62	0	62
Selar scads	3407	4,706	716	3,990
Hardtail scad	3408	1,519	480	1,039
Queenfishes	3409	12	8	4
Promfret	34xx	329	13	316
Cobia	34xx	0	0	0
Scad	34xx	1,518	380	1,138
Fusilier	34xx	630	18	612
Sardines	3501	2,478	1,190	1,288
Anchovies	3503	0	0	0
Wolf herring	3505	1	0	1
Indo-pacific Tarpon	35xx	0	0	0
Eastern little tuna	3606	13,802	3,078	10,724
King mackerels	3610	148	112	36
Black marlin	36xx	0	0	0
Indian mackerels	3701	4,055	2,772	1,283
Hairtails	3703	21	10	11
Sharks	3801	0	0	0
Rays	3802	0	0	0
Trash fishes	3902	1,807	1,671	136
Mix fish	39xx	1,144	199	945
Mangrove crab	4202	0	0	0
Spiny lobsters	4301	0	0	0
Tiger prawn	4501	0	0	0
Other prawns	4503	0	0	0
Banana prawn	45xx	0	0	0
Spear shrimp	45xx	0	0	0
Pink shrimp	45xx	0	0	0
Rinbow shrimp	45xx	0	0	0
Clams and cone shells	5602	0	0	0
Cuttlefishes	5701	0	0	0
Squids	5702	37	20	17
Octopuses	5703	0	0	0
Jolyfish	57xx	0	0	0
<b>TOTAL (Tonnes)</b>		<b>37</b>	<b>13,774</b>	<b>25,592</b>

# 1. ANNUAL CATCH-EFFORT STATISTICS 1999

## 1-2 Catch and Fishing Effort by Type of Fishing Gear and by Size of Management

### 1-2-2 Otter Trawl

Size of boat : Less than 10 tons

#### (1) Malaysia

Sub-area		Total	West Coast Peninsular	East Coast Peninsular
Units of fishing effort				
Cumulative no. of fishing units		10,827	7,360	3,467
Cumulative no. of trips		157,719	118,312	39,407
Cumulative no. of days		170,620	119,183	51,437
Cumulative no. of hauls		425,291	264,138	161,153
Total catch (Tonnes)		21,792	11,896	9,896
Species (group)	Code No.	Total	West Coast Peninsular	East Coast Peninsular
Shads	2401	3	3	0
Kelee Shad	24xx	0	0	0
Ilisha	24xx	5	5	0
Barramundi	2501	0	0	0
Flounders	3101	30	1	29
Tongue soles	3103	88	25	63
Marine catfishes	3301	173	3	170
Catfish eels	3302	4	2	2
Lizard fishes	3303	56	1	55
Sharp-toothed pike eels and conger eels	3304	34	9	25
Groupers	3305	37	3	34
Sillago whiting	3306	79	1	78
Red snappers	3307	0	0	0
Other snappers	3308	9	2	7
Fusiliers	3309	1	0	1
Threadfin breams	3310	139	5	134
Pony fishes	3311	33	0	33
Grunters and sweetlips	3312	5	1	4
Goatfishes	3314	57	0	57
Wrasse	33xx	1	0	1
Sweetlips	33xx	1	0	1
Snappers	33xx	25	2	23
Bream	33xx	15	0	15
Croaker	33xx	380	139	241
Rabbitfishes	3319	2	0	2
Barracudas	3402	34	0	34
Mulletts	3403	18	18	0
Threadfins	3404	5	3	2
Round scads	3405	1	0	1
Jacks, cavallas, trevallies	3406	0	0	0
Selar scads	3407	34	0	34
Hardtail scad	3408	14	9	5
Queenfishes	3409	5	0	5
Promfret	34xx	149	72	77
Cobia	34xx	6	0	6
Scad	34xx	271	0	271
Fusilier	34xx	0	0	0
Sardines	3501	13	9	4
Anchovies	3503	4	4	0
Wolf herring	3505	79	2	77
Indo-pacific Tarpon	35xx	0	0	0
Eastern little tuna	3606	0	0	0
King mackerels	3610	64	27	37
Black marlin	36xx	0	0	0
Indian mackerels	3701	348	302	46
Hairtails	3703	130	3	127
Sharks	3801	92	12	80
Rays	3802	781	366	415
Trash fishes	3902	10,565	5,409	5,156
Mix fish	39xx	786	593	193
Mangrove crab	4202	624	404	220
Spiny lobsters	4301	25	2	23
Tiger prawn	4501	59	23	36
Other prawns	4503	3,104	2,162	942
Banana prawn	45xx	266	107	159
Spear shrimp	45xx	499	368	131
Pink shrimp	45xx	314	314	0
Rinbow shrimp	45xx	389	291	98
Clams and cone shells	5602	0	0	0
Cuttlefishes	5701	1,103	567	536
Squids	5702	721	531	190
Octopuses	5703	96	80	16
Jolyfish	57xx	16	16	0
TOTAL (Tonnes)		1,936	11,896	9,896

# 1. ANNUAL CATCH-EFFORT STATISTICS 1999

## 1-2 Catch and Fishing Effort by Type of Fishing Gear and by Size of Management

### 1-2-2 Otter Trawl

Size of boat : 10 - 25 tons

#### (1) Malaysia

Sub-area		Total	West Coast Peninsular	East Coast Peninsular
<b>Units of fishing effort</b>				
Cumulative no. of fishing units		26,793	22,268	4,525
Cumulative no. of trips		412,275	360,465	51,810
Cumulative no. of days		448,580	383,196	65,384
Cumulative no. of hauls		1,328,581	1,008,365	320,216
Total catch (Tonnes)		114,761	82,419	32,342
Species (group)	Code No.	Total	West Coast Peninsular	East Coast Peninsular
Shads	2401	129	129	0
Kelee Shad	24xx	3	3	0
Ilisha	24xx	641	637	4
Barramundi	2501	33	32	1
Flounders	3101	222	51	171
Tongue soles	3103	981	845	136
Marine catfishes	3301	851	465	386
Catfish eels	3302	104	101	3
Lizard fishes	3303	463	107	356
Sharp-toothed pike eels and conger eels	3304	364	340	24
Groupers	3305	258	103	155
Sillago whiting	3306	213	69	144
Red snappers	3307	48	47	1
Other snappers	3308	129	11	118
Fusiliers	3309	1	0	1
Threadfin breams	3310	5,711	720	4,991
Pony fishes	3311	493	3	490
Grunters and sweetlips	3312	137	58	79
Goatfishes	3314	1,099	39	1,060
Wrasse	33xx	5	1	4
Sweetlips	33xx	28	1	27
Snappers	33xx	265	1	264
Bream	33xx	190	60	130
Croaker	33xx	3,723	2,874	849
Rabbitfishes	3319	12	0	12
Barracudas	3402	286	145	141
Mullets	3403	228	223	5
Threadfins	3404	172	166	6
Round scads	3405	20	15	5
Jacks, cavallas, trevallies	3406	56	48	8
Selar scads	3407	921	353	568
Hardtail scad	3408	425	379	46
Queenfishes	3409	104	69	35
Promfret	34xx	1,367	1,267	100
Cobia	34xx	20	12	8
Scad	34xx	307	221	86
Fusilier	34xx	1	0	1
Sardines	3501	151	149	2
Anchovies	3503	466	465	1
Wolf herring	3505	603	369	234
Indo-pacific Tarpon	35xx	14	14	0
Eastern little tuna	3606	11	9	2
King mackerels	3610	499	384	115
Black marlin	36xx	0	0	0
Indian mackerels	3701	2,585	2,544	41
Hairtails	3703	1,100	731	369
Sharks	3801	370	151	219
Rays	3802	2,092	741	1,351
Trash fishes	3902	53,338	41,319	12,019
Mix fish	39xx	3,348	2,033	1,315
Mangrove crab	4202	1,626	1,196	430
Spiny lobsters	4301	59	4	55
Tiger prawn	4501	149	94	55
Other prawns	4503	9,535	8,457	1,078
Banana prawn	45xx	1,078	885	193
Spear shrimp	45xx	4,759	4,596	163
Pink shrimp	45xx	613	606	7
Rinbow shrimp	45xx	1,460	1,208	252
Clams and cone shells	5602	6	0	6
Cuttlefishes	5701	4,732	2,907	1,825
Squids	5702	5,420	3,326	2,094
Octopuses	5703	261	160	101
Jolyfish	57xx	476	476	0
<b>TOTAL (Tonnes)</b>		<b>114,761</b>	<b>82,419</b>	<b>32,342</b>



# 1. ANNUAL CATCH-EFFORT STATISTICS 1999

## 1-2 Catch and Fishing Effort by Type of Fishing Gear and by Size of Management

### 1-2-2 Otter Trawl

Size of boat : 25 - 40 tons

#### (1) Malaysia

Sub-area		Total	West Coast Peninsular	East Coast Peninsular
Units of fishing effort				
Cumulative no. of fishing units		10,749	7,981	2,768
Cumulative no. of trips		101,094	88,153	12,941
Cumulative no. of days		192,871	143,039	49,832
Cumulative no. of hauls		730,445	413,153	317,292
Total catch (Tonnes)		147,228	87,057	60,171
Species (group)	Code No.	Total	West Coast Peninsular	East Coast Peninsular
Shads	2401	317	316	1
Kelee Shad	24xx	34	34	0
Ilisha	24xx	654	653	1
Barramundi	2501	7	7	0
Flounders	3101	253	107	146
Tongue soles	3103	530	471	59
Marine catfishes	3301	1,512	1,016	496
Catfish eels	3302	44	31	13
Lizard fishes	3303	1,144	406	738
Sharp-toothed pike eels and conger eels	3304	258	219	39
Groupers	3305	659	465	194
Sillago whiting	3306	260	61	199
Red snappers	3307	84	82	2
Other snappers	3308	214	57	157
Fusiliers	3309	5	0	5
Threadfin breams	3310	7,083	2,012	5,071
Pony fishes	3311	316	17	299
Grunters and sweetlips	3312	259	207	52
Goatfishes	3314	1,077	178	899
Wrasse	33xx	9	0	9
Sweetlips	33xx	86	0	86
Snappers	33xx	401	17	384
Bream	33xx	174	19	155
Croaker	33xx	3,072	2,312	760
Rabbitfishes	3319	58	1	57
Barracudas	3402	591	256	335
Mulletts	3403	341	341	0
Threadfins	3404	153	149	4
Round scads	3405	513	312	201
Jacks, cavallas, trevallies	3406	197	143	54
Selar scads	3407	2,429	415	2,014
Hardtail scad	3408	1,357	955	402
Queenfishes	3409	210	158	52
Promfret	34xx	2,257	2,101	156
Cobia	34xx	71	18	53
Scad	34xx	946	583	363
Fusilier	34xx	4	1	3
Sardines	3501	406	403	3
Anchovies	3503	182	164	18
Wolf herring	3505	855	547	308
Indo-pacific Tarpon	35xx	8	8	0
Eastern little tuna	3606	37	20	17
King mackerels	3610	1,240	933	307
Black marlin	36xx	1	0	1
Indian mackerels	3701	6,733	6,375	358
Hairtails	3703	1,914	1,640	274
Sharks	3801	619	182	437
Rays	3802	2,240	390	1,850
Trash fishes	3902	80,543	49,223	31,320
Mix fish	39xx	4,314	1,366	2,948
Mangrove crab	4202	1,348	986	362
Spiny lobsters	4301	198	1	197
Tiger prawn	4501	142	95	47
Other prawns	4503	2,818	2,042	776
Banana prawn	45xx	314	235	79
Spear shrimp	45xx	268	230	38
Pink shrimp	45xx	31	29	2
Rinbow shrimp	45xx	51	17	34
Clams and cone shells	5602	0	0	0
Cuttlefishes	5701	4,912	1,912	3,000
Squids	5702	10,011	5,831	4,180
Octopuses	5703	394	238	156
Jolyfish	57xx	70	70	0
TOTAL (Tonnes)		147,228	87,057	60,171



# 1. ANNUAL CATCH-EFFORT STATISTICS 1999

## 1-2 Catch and Fishing Effort by Type of Fishing Gear and by Size of Management

### 1-2-2 Otter Trawl

Size of boat : 40 - 70 tons

#### (1) Malaysia

Sub-area		Total	West Coast Peninsular	East Coast Peninsular
Units of fishing effort				
Cumulative no. of fishing units		8,182	5,656	2,526
Cumulative no. of trips		29,955	23,360	6,595
Cumulative no. of days		166,951	118,810	48,141
Cumulative no. of hauls		705,979	444,879	261,100
Total catch (Tonnes)		159,253	96,480	62,773
Species (group)	Code No.	Total	West Coast Peninsular	East Coast Peninsular
Shads	2401	81	81	0
Kelee Shad	24xx	0	0	0
Ilisha	24xx	625	622	3
Barramundi	2501	3	1	2
Flounders	3101	278	178	100
Tongue soles	3103	196	174	22
Marine catfishes	3301	843	427	416
Catfish eels	3302	36	30	6
Lizard fishes	3303	6,889	4,970	1,919
Sharp-toothed pike eels and conger eels	3304	257	202	55
Groupers	3305	839	544	295
Sillago whiting	3306	533	422	111
Red snappers	3307	184	161	23
Other snappers	3308	383	58	325
Fusiliers	3309	6	0	6
Threadfin breams	3310	8,787	5,715	3,072
Pony fishes	3311	143	27	116
Grunters and sweetlips	3312	179	161	18
Goatfishes	3314	2,193	1,349	844
Wrasse	33xx	9	0	9
Sweetlips	33xx	245	4	241
Snappers	33xx	593	84	509
Bream	33xx	189	15	174
Croaker	33xx	1,690	1,288	402
Rabbitfishes	3319	50	1	49
Barracudas	3402	793	349	444
Mulletts	3403	47	47	0
Threadfins	3404	70	70	0
Round scads	3405	1,333	759	574
Jacks, cavallas, trevallies	3406	300	206	94
Selar scads	3407	3,718	1,347	2,371
Hardtail scad	3408	1,732	1,207	525
Queenfishes	3409	61	55	6
Promfret	34xx	1,203	1,070	133
Cobia	34xx	133	49	84
Scad	34xx	1,573	889	684
Fusilier	34xx	1	0	1
Sardines	3501	664	661	3
Anchovies	3503	28	2	26
Wolf herring	3505	548	318	230
Indo-pacific Tarpon	35xx	6	5	1
Eastern little tuna	3606	50	33	17
King mackerels	3610	1,109	758	351
Black marlin	36xx	0	0	0
Indian mackerels	3701	7,283	6,625	658
Hairtails	3703	2,822	2,589	233
Sharks	3801	610	185	425
Rays	3802	2,491	1,271	1,220
Trash fishes	3902	81,036	46,530	34,506
Mix fish	39xx	7,222	2,749	4,473
Mangrove crab	4202	1,013	794	219
Spiny lobsters	4301	179	6	173
Tiger prawn	4501	123	99	24
Other prawns	4503	1,523	1,145	378
Banana prawn	45xx	69	49	20
Spear shrimp	45xx	26	22	4
Pink shrimp	45xx	0	0	0
Rinbow shrimp	45xx	8	6	2
Clams and cone shells	5602	26	0	26
Cuttlefishes	5701	4,800	2,543	2,257
Squids	5702	11,124	7,330	3,794
Octopuses	5703	298	198	100
Jolyfish	57xx	0	0	0
TOTAL (Tonnes)		159,253	96,480	62,773

# 1. ANNUAL CATCH-EFFORT STATISTICS 1999

## 1-2 Catch and Fishing Effort by Type of Fishing Gear and by Size of Management

### 1-2-2 Otter Trawl

Size of boat : More than 70 tons

#### (1) Malaysia

Sub-area		Total	West Coast Peninsular	East Coast Peninsular
Units of fishing effort				
Cumulative no. of fishing units		2,192	973	1,219
Cumulative no. of trips		5,419	2,992	2,427
Cumulative no. of days		44,222	20,596	23,626
Cumulative no. of hauls		155,162	60,719	94,443
Total catch (Tonnes)		53,199	24,066	29,133
Species (group)	Code No.	Total	West Coast Peninsular	East Coast Peninsular
Shads	2401	13	13	0
Kelee Shad	24xx	0	0	0
Ilisha	24xx	96	96	0
Barramundi	2501	1	1	0
Flounders	3101	63	22	41
Tongue soles	3103	351	343	8
Marine catfishes	3301	342	91	251
Catfish eels	3302	6	4	2
Lizard fishes	3303	2,885	2,000	885
Sharp-toothed pike eels and conger eels	3304	161	135	26
Groupers	3305	328	152	176
Sillago whiting	3306	129	104	25
Red snappers	3307	45	35	10
Other snappers	3308	323	32	291
Fusiliers	3309	10	0	10
Threadfin breams	3310	3,143	1,625	1,518
Pony fishes	3311	70	2	68
Grunters and sweetlips	3312	46	34	12
Goatfishes	3314	1,044	484	560
Wrasse	33xx	14	0	14
Sweetlips	33xx	200	1	199
Snappers	33xx	277	7	270
Bream	33xx	51	0	51
Croaker	33xx	732	631	101
Rabbitfishes	3319	27	1	26
Barracudas	3402	218	44	174
Mulletts	3403	0	0	0
Threadfins	3404	6	6	0
Round scads	3405	673	249	424
Jacks, cavallas, trevallies	3406	146	90	56
Selar scads	3407	1,546	234	1,312
Hardtail scad	3408	490	270	220
Queenfishes	3409	31	28	3
Promfret	34xx	155	108	47
Cobia	34xx	54	11	43
Scad	34xx	527	167	360
Fusilier	34xx	1	0	1
Sardines	3501	23	20	3
Anchovies	3503	8	0	8
Wolf herring	3505	150	77	73
Indo-pacific Tarpon	35xx	0	0	0
Eastern little tuna	3606	18	9	9
King mackerels	3610	334	166	168
Black marlin	36xx	0	0	0
Indian mackerels	3701	1,398	1,069	329
Hairtails	3703	1,184	1,106	78
Sharks	3801	220	63	157
Rays	3802	867	472	395
Trash fishes	3902	25,471	10,738	14,733
Mix fish	39xx	4,442	1,335	3,107
Mangrove crab	4202	210	139	71
Spiny lobsters	4301	73	2	71
Tiger prawn	4501	16	16	0
Other prawns	4503	137	99	38
Banana prawn	45xx	19	16	3
Spear shrimp	45xx	0	0	0
Pink shrimp	45xx	0	0	0
Rinbow shrimp	45xx	6	6	0
Clams and cone shells	5602	0	0	0
Cuttlefishes	5701	1,522	606	916
Squids	5702	2,871	1,091	1,780
Octopuses	5703	26	16	10
Jolyfish	57xx	0	0	0
TOTAL (Tonnes)		53,199	24,066	29,133

1. ANNUAL CATCH-EFFORT STATISTICS 1999

1-2 Catch and Fishing Effort by Type of Fishing Gear and by Size of Management

1-2-2 Otter Trawl

Size of boat: Less than 14 meters

(2) Thailand

Sub-area		Total	Gulf of Thailand	Indian Ocean
<b>Units of fishing effort</b>				
No. of fishing units				
No. of trips		233,143	216,826	16,317
No. of days		425,997	378,453	47,544
No. of hauls		1,234,274	1,061,239	173,035
No. of hours		5,236,540	4,509,499	727,041
Total catch (Tonnes)		159,706	108,372	51,334
Species (group)	Code No.	Total	Gulf of Thailand	Indian Ocean
Indian halibuts	3102	52	49	3
Tongue soles	3103	2,507	674	1,833
Marine catfishes	3301	330	326	4
Lizard fishes	3303	2,292	2,224	68
Sharp-toothed pike eels and conger eels	3304	53	28	25
Groupers	3305	368	312	56
Sillago whiting	3306	270	190	80
Red snappers	3307	363	331	32
Threadfin breams	3310	3,742	3,678	64
Drums and croakers	3313	3,566	298	3,268
Big-eye snappers	3316	3,260	3,247	13
Barracudas	3402	1,555	99	1,456
Mulletts	3403			
Threadfins	3404			
Round scads	3405			
Jacks, cavallas and trevallies	3406	528	486	42
Selar scads	3407	287	286	1
Hardtail scad	3408			
Black pomfret	3410	130	120	10
White pomfret	3411	5		5
Sardines	3501			
Anchovies	3503	691	691	
Wolf herring	3505	77	67	10
Longtail tuna	3604			
Eastern little tuna	3606			
Narrow-barred king mackerel	3609	949	240	709
Indian mackerel	3701	220	214	6
Indo-Pacific mackerel	3702	379	378	1
Hairtails	3703	2,070	345	1,725
Sharks	3801	817	806	11
Rays	3802	1,052	1,030	22
Miscellaneous fishes	3901	19,043	11,629	7,414
Trash fishes	3902	74,962	50,129	24,833
Swimming crabs	4201	1,531	1,433	98
Mangrove crab	4202			
Slipper lobsters	4302	34	34	
Tiger prawn	4501	150	119	31
Penaeid prawns	4502	1,730	317	1,413
Other prawns	4503	17,296	16,868	428
Miscellaneous	4701	2,710	2,595	115
Scallops	5501	26	26	
Cuttlefishes	5701	6,253	3,637	2,616
Squids	5702	5,631	3,145	2,486
Octopuses	5703	4,777	2,321	2,456
<b>TOTAL (Tonnes)</b>		<b>159,706</b>	<b>108,372</b>	<b>51,334</b>

1. ANNUAL CATCH-EFFORT STATISTICS 1999

1-2 Catch and Fishing Effort by Type of Fishing Gear and by Size of Management

1-2-2 Otter Trawl

Size of boat: 14 - 18 meters

(2) Thailand

Sub-area		Total	Gulf of Thailand	Indian Ocean
Units of fishing effort				
No. of fishing units				
No. of trips		41,705	28,131	13,574
No. of days		444,368	339,130	105,238
No. of hauls		1,347,721	987,096	360,625
No. of hours		6,252,888	4,759,424	1,493,464
Total catch (Tonnes)		364,209	181,871	182,338
Species (group)	Code No.	Total	Gulf of Thailand	Indian Ocean
Indian halibuts	3102	357	145	212
Tongue soles	3103	6,358	3,136	3,222
Marine catfishes	3301	1,992	460	1,532
Lizard fishes	3303	4,088	3,625	463
Sharp-toothed pike eels and conger eels	3304	706	296	410
Groupers	3305	1,298	1,144	154
Sillago whiting	3306	861	101	760
Red snappers	3307	1,646	1,220	426
Threadfin breams	3310	14,542	6,354	8,188
Drums and croakers	3313	7,995	557	7,438
Big-eye snappers	3316	17,234	12,615	4,619
Barracudas	3402	4,074	255	3,819
Mullets	3403			
Threadfins	3404			
Round scads	3405			
Jacks, cavallas and trevallies	3406	3,593	2,572	1,021
Selar scads	3407	534	498	36
Hardtail scad	3408	1	1	
Black pomfret	3410	271	158	113
White pomfret	3411	128	4	124
Sardines	3501			
Anchovies	3503	426	405	21
Wolf herring	3505	4,670	1,104	3,566
Longtail tuna	3604			
Eastern little tuna	3606			
Narrow-barred king mackerel	3609	1,271	548	723
Indian mackerel	3701	3,931	2,935	996
Indo-Pacific mackerel	3702	1,552	977	575
Hairtails	3703	3,735	334	3,401
Sharks	3801	2,141	539	1,602
Rays	3802	2,547	905	1,642
Miscellaneous fishes	3901	26,904	16,376	10,528
Trash fishes	3902	200,360	103,967	96,393
Swimming crabs	4201	3,029	2,352	677
Mangrove crab	4202			
Slipper lobsters	4302	235	209	26
Tiger prawn	4501	567	43	524
Penaeid prawns	4502	2,506	303	2,203
Other prawns	4503	7,474	2,790	4,684
Miscellaneous	4701	3,643	1,483	2,160
Scallops	5501	376	375	1
Cuttlefishes	5701	13,331	5,398	7,933
Squids	5702	12,720	5,815	6,905
Octopuses	5703	7,113	1,872	5,241
TOTAL (Tonnes)		364,209	181,871	182,338



1. ANNUAL CATCH-EFFORT STATISTICS 1999

1-2 Catch and Fishing Effort by Type of Fishing Gear and by Size of Management

1-2-2 Otter Trawl

Size of boat: 18 - 25 meters

(2) Thailand

Sub-area		Total	Gulf of Thailand	Indian Ocean
<b>Units of fishing effort</b>				
No. of fishing units				
No. of trips		25,179	20,408	4,771
No. of days		503,188	387,781	115,407
No. of hauls		1,615,559	1,274,059	341,500
No. of hours		7,447,799	5,866,073	1,581,726
Total catch (Tonnes)		607,455	431,796	175,659
Species (group)	Code No.	Total	Gulf of Thailand	Indian Ocean
Indian halibuts	3102	455	244	211
Tongue soles	3103	4,147	1,759	2,388
Marine catfishes	3301	3,348	1,800	1,548
Lizard fishes	3303	31,979	28,769	3,210
Sharp-toothed pike eels and conger eels	3304	1,252	633	619
Groupers	3305	3,526	2,811	715
Sillago whiting	3306	968	326	642
Red snappers	3307	8,289	5,989	2,300
Threadfin breams	3310	41,853	35,481	6,372
Drums and croakers	3313	6,537	1,148	5,389
Big-eye snappers	3316	52,105	47,496	4,609
Barracudas	3402	5,887	2,948	2,939
Mulletts	3403			
Threadfins	3404			
Round scads	3405			
Jacks, cavallas and trevallies	3406	4,151	2,743	1,408
Selar scads	3407	1,518	1,479	39
Hardtail scad	3408			
Black pomfret	3410	638	496	142
White pomfret	3411	145	39	106
Sardines	3501	271	271	
Anchovies	3503	751	720	31
Wolf herring	3505	5,832	3,266	2,566
Longtail tuna	3604			
Eastern little tuna	3606			
Narrow-barred king mackerel	3609	2,815	2,289	526
Indian mackerel	3701	3,097	2,395	702
Indo-Pacific mackerel	3702	6,453	5,639	814
Hairtails	3703	3,976	1,724	2,252
Sharks	3801	4,280	2,989	1,291
Rays	3802	4,782	3,214	1,568
Miscellaneous fishes	3901	63,722	50,918	12,804
Trash fishes	3902	271,381	171,913	99,468
Swimming crabs	4201	2,188	1,379	809
Mangrove crab	4202			
Slipper lobsters	4302	1,380	1,369	11
Tiger prawn	4501	810	628	182
Penaeid prawns	4502	2,181	536	1,645
Other prawns	4503	8,972	4,806	4,166
Miscellaneous	4701	2,712	1,648	1,064
Scallops	5501	149	149	
Cuttlefishes	5701	22,306	17,454	4,852
Squids	5702	23,978	18,573	5,405
Octopuses	5703	8,621	5,755	2,866
<b>TOTAL (Tonnes)</b>		<b>607,455</b>	<b>431,796</b>	<b>175,659</b>



1. ANNUAL CATCH-EFFORT STATISTICS 1999

1-2 Catch and Fishing Effort by Type of Fishing Gear and by Size of Management

1-2-2 Otter Trawl

Size of boat: More than 25 meter

(2) Thailand

Sub-area		Total	Gulf of Thailand	Indian Ocean
Units of fishing effort				
No. of fishing units				
No. of trips		2,068	1,751	317
No. of days		61,893	48,432	13,461
No. of hauls		197,174	146,358	50,816
No. of hours		788,193	585,422	202,771
Total catch (Tonnes)		205,610	172,308	33,302
Species (group)	Code No.	Total	Gulf of Thailand	Indian Ocean
Indian halibuts	3102	920	882	38
Tongue soles	3103	341	166	175
Marine catfishes	3301	5,538	5,290	248
Lizard fishes	3303	31,500	22,750	8,750
Sharp-toothed pike eels and conger eels	3304	87		87
Groupers	3305	1,046	838	208
Sillago whiting	3306	126	90	36
Red snappers	3307	1,100	741	359
Threadfin breams	3310	23,880	18,504	5,376
Drums and croakers	3313	12,975	11,205	1,770
Big-eye snappers	3316	2,252	1,900	352
Barracudas	3402	1,911	1,366	545
Mullets	3403			
Threadfins	3404			
Round scads	3405			
Jacks, cavallas and trevallies	3406	1,818	1,464	354
Selar scads	3407	716	641	75
Hardtail scad	3408			
Black pomfret	3410	923	744	179
White pomfret	3411	16		16
Sardines	3501			
Anchovies	3503	148	148	
Wolf herring	3505	893	648	245
Longtail tuna	3604			
Eastern little tuna	3606			
Narrow-barred king mackerel	3609	668	531	137
Indian mackerel	3701	1,367	1,315	52
Indo-Pacific mackerel	3702	28,044	27,357	687
Hairtails	3703	3,389	3,276	113
Sharks	3801	1,830	1,726	104
Rays	3802	2,132	1,991	141
Miscellaneous fishes	3901	39,077	36,213	2,864
Trash fishes	3902	30,486	22,532	7,954
Swimming crabs	4201	153	72	81
Mangrove crab	4202			
Slipper lobsters	4302	24	24	
Tiger prawn	4501	21		21
Penaeid prawns	4502	61		61
Other prawns	4503	348	222	126
Miscellaneous	4701	290	135	155
Scallops	5501			
Cuttlefishes	5701	7,215	6,129	1,086
Squids	5702	3,774	2,953	821
Octopuses	5703	541	455	86
TOTAL (Tonnes)		205,610	172,308	33,302

1. ANNUAL CATCH-EFFORT STATISTICS 1999

1-2 Catch and Fishing Effort by Type of Fishing Gear and by Size of Management

1-2-3 Pair Trawl

Size of boat: Less than 14 meters

(1) Thailand

Sub-area		Total	Gulf of Thailand	Indian Ocean
<b>Units of fishing effort</b>				
No. of fishing units				
No. of trips		176	70	106
No. of days		1,210	812	398
No. of hauls		4,300	2,832	1,468
No. of hours		16,904	11,328	5,576
Total catch (Tonnes)		2,239	542	1,697
Species (group)	Code No.	Total	Gulf of Thailand	Indian Ocean
Indian halibuts	3102	5		5
Tongue soles	3103	62		62
Marine catfishes	3301			
Lizard fishes	3303			
Sharp-toothed pike eels and conger eels	3304			
Groupers	3305			
Sillago whiting	3306			
Red snappers	3307			
Threadfin breams	3310	3	3	
Drums and croakers	3313	242	16	226
Big-eye snappers	3316	18	18	
Barracudas	3402	39		39
Mullets	3403			
Threadfins	3404			
Round scads	3405			
Jacks, cavallas and trevallies	3406			
Selar scads	3407			
Hardtail scad	3408			
Black pomfret	3410			
White pomfret	3411			
Sardines	3501			
Anchovies	3503			
Wolf herring	3505	58	8	50
Longtail tuna	3604			
Eastern little tuna	3606			
Narrow-barred king mackerel	3609	21		21
Indian mackerel	3701			
Indo-Pacific mackerel	3702	17	17	
Hairtails	3703	48		48
Sharks	3801			
Rays	3802			
Miscellaneous fishes	3901	248	30	218
Trash fishes	3902	776	347	429
Swimming crabs	4201	17	17	
Mangrove crab	4202			
Slipper lobsters	4302			
Tiger prawn	4501			
Penaeid prawns	4502			
Other prawns	4503			
Miscellaneous	4701	57		57
Scallops	5501			
Cuttlefishes	5701	207	24	183
Squids	5702	211	33	178
Octopuses	5703	210	29	181
<b>TOTAL (Tonnes)</b>		<b>2,239</b>	<b>542</b>	<b>1,697</b>

1. ANNUAL CATCH-EFFORT STATISTICS 1999

1-2 Catch and Fishing Effort by Type of Fishing Gear and by Size of Management

1-2-3 Pair Trawl

Size of boat: 14 -18 meters

(1) Thailand

Sub-area		Total	Gulf of Thailand	Indian Ocean
Units of fishing effort				
No. of fishing units				
No. of trips		7,716	5,713	2,003
No. of days		98,454	69,755	28,699
No. of hauls		285,186	195,393	89,793
No. of hours		1,177,352	785,272	392,080
Total catch (Tonnes)		164,422	124,042	40,380
Species (group)	Code No.	Total	Gulf of Thailand	Indian Ocean
Indian halibuts	3102	318	270	48
Tongue soles	3103	472	274	198
Marine catfishes	3301	380	249	131
Lizard fishes	3303	2,524	2,360	164
Sharp-toothed pike eels and conger eels	3304	118	81	37
Groupers	3305	492	249	243
Sillago whiting	3306	344	207	137
Red snappers	3307	325	136	189
Threadfin breams	3310	5,491	4,560	931
Drums and croakers	3313	873	523	350
Big-eye snappers	3316	5,150	4,461	689
Barracudas	3402	810	430	380
Mullets	3403			
Threadfins	3404			
Round scads	3405			
Jacks, cavallas and trevallies	3406	2,217	1,674	543
Selar scads	3407	755	540	215
Hardtail scad	3408	13	13	
Black pomfret	3410	1,021	683	338
White pomfret	3411	42	22	20
Sardines	3501			
Anchovies	3503	133	133	
Wolf herring	3505	966	466	500
Longtail tuna	3604			
Eastern little tuna	3606			
Narrow-barred king mackerel	3609	576	398	178
Indian mackerel	3701	2,359	2,208	151
Indo-Pacific mackerel	3702	6,391	4,164	2,227
Hairtails	3703	920	592	328
Sharks	3801	183	116	67
Rays	3802	326	180	146
Miscellaneous fishes	3901	13,194	11,167	2,027
Trash fishes	3902	101,312	75,610	25,702
Swimming crabs	4201	533	386	147
Mangrove crab	4202			
Slipper lobsters	4302	35	35	
Tiger prawn	4501	80		80
Penaeid prawns	4502	500	164	336
Other prawns	4503	3,054	977	2,077
Miscellaneous	4701	133	117	16
Scallops	5501			
Cuttlefishes	5701	4,808	4,284	524
Squids	5702	6,629	5,612	1,017
Octopuses	5703	945	701	244
TOTAL (Tonnes)		164,422	124,042	40,380

# 1. ANNUAL CATCH-EFFORT STATISTICS 1999

## 1-2 Catch and Fishing Effort by Type of Fishing Gear and by Size of Management

### 1-2-3 Pair Trawl

Size of boat: 18 - 25 meters

#### (1) Thailand

Sub-area		Total	Gulf of Thailand	Indian Ocean
<b>Units of fishing effort</b>				
No. of fishing units				
No. of trips		4,311	3,479	832
No. of days		42,712	34,424	8,288
No. of hauls		124,182	101,855	22,327
No. of hours		471,034	387,528	83,506
Total catch (Tonnes)		88,820	53,943	34,877
Species (group)	Code No.	Total	Gulf of Thailand	Indian Ocean
Indian halibuts	3102	239	238	1
Tongue soles	3103	1,402	288	1,114
Marine catfishes	3301	616	52	564
Lizard fishes	3303	925	806	119
Sharp-toothed pike eels and conger eels	3304	129	129	
Groupers	3305	118	66	52
Sillago whiting	3306	241	151	90
Red snappers	3307	99	53	46
Threadfin breams	3310	3,443	1,286	2,157
Drums and croakers	3313	3,489	1,248	2,241
Big-eye snappers	3316	2,654	1,328	1,326
Barracudas	3402	1,252	118	1,134
Mulletts	3403			
Threadfins	3404			
Round scads	3405			
Jacks, cavallas and trevallies	3406	672	626	46
Selar scads	3407	134	134	
Hardtail scad	3408			
Black pomfret	3410	123	123	
White pomfret	3411	6	6	
Sardines	3501			
Anchovies	3503	70	70	
Wolf herring	3505	1,026	114	912
Longtail tuna	3604			
Eastern little tuna	3606			
Narrow-barred king mackerel	3609	515	271	244
Indian mackerel	3701	507	507	
Indo-Pacific mackerel	3702	891	891	
Hairtails	3703	1,113	63	1,050
Sharks	3801	764	58	706
Rays	3802	820	190	630
Miscellaneous fishes	3901	6,013	3,820	2,193
Trash fishes	3902	47,426	33,999	13,427
Swimming crabs	4201	475	431	44
Mangrove crab	4202			
Slipper lobsters	4302	74	74	
Tiger prawn	4501	21	21	
Penaeid prawns	4502	173	173	
Other prawns	4503	1,649	1,613	36
Miscellaneous	4701	884	44	840
Scallops	5501			
Cuttlefishes	5701	3,794	1,521	2,273
Squids	5702	5,096	3,079	2,017
Octopuses	5703	1,967	352	1,615
<b>TOTAL (Tonnes)</b>		<b>88,820</b>	<b>53,943</b>	<b>34,877</b>

## 2. MONTHLY CATCH-EFFORT STATISTICS 1999

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## 2. MONTHLY CATCH-EFFORT STATISTICS 1999

### 2-1 Catch and Fishing Effort by Type of Fishing Gear and by Month

#### 2-1-1 Anchovy Purse Seine

(1) Thailand

Area: Gulf of Thailand and Indian Ocean

		Month					
		January	February	March	April	May	June
<b>Units of fishing effort</b>							
No. of fishing units							
No. of trips		6,822	5,969	5,444	5,154	6,050	5,873
No. of days		7,964	6,196	5,725	6,259	7,272	8,058
No. of hauls		27,457	19,085	13,766	15,858	19,873	20,883
No. of hours		38,809	32,954	26,461	28,525	43,735	41,058
Total catch (Tonnes)		11,523	8,497	7,396	7,528	15,109	15,750
Species (group)	Code No.	January	February	March	April	May	June
Indian halibuts	3102						
Tongue soles	3103						
Marine catfishes	3301						
Lizard fishes	3303						
Sharp-toothed pike eels and conger eels	3304						
Groupers	3305						
Sillago whiting	3306						
Red snappers	3307						
Threadfin breams	3310						
Drums and croakers	3313						
Big-eye snappers	3316						
Barracudas	3402						
Mulletts	3403						
Threadfins	3404						
Round scads	3405		33				
Jacks, cavallas and trevallies	3406	6	21				
Selar scads	3407	144	12				
Hardtail scad	3408		27	1	1	2	2
Black pomfret	3410	13	2				
White pomfret	3411						
Sardines	3501	24				73	43
Anchovies	3503	10,811	7,904	7,251	7,410	14,777	15,596
Wolf herring	3505						
Longtail tuna	3604	22	14	10	7		1
Eastern little tuna	3606						
Narrow-barred king mackerel	3609	13	8	5	2	2	
Indian mackerel	3701		12				1
Indo-Pacific mackerel	3702	120	83	4		8	19
Hairtails	3703						
Sharks	3801						
Rays	3802						
Miscellaneous fishes	3901	170	166	47	69	243	88
Trash fishes	3902	172	142	72	31		
Swimming crabs	4201		60				
Mangrove crab	4202						
Slipper lobsters	4302						
Tiger prawn	4501						
Penaeid prawns	4502						
Other prawns	4503						
Miscellaneous	4701						
Scallops	5501						
Cuttlefishes	5701	13	5	2	6		
Squids	5702	15	8	4	2	4	
Octopuses	5703						
<b>TOTAL (Tonnes)</b>		<b>11,523</b>	<b>8,497</b>	<b>7,396</b>	<b>7,528</b>	<b>15,109</b>	<b>15,750</b>

2. MONTHLY CATCH-EFFORT STATISTICS 1999

2-1 Catch and Fishing Effort by Type of Fishing Gear and by Month

2-1-1 Anchovy Purse Seine

(1) Thailand

Area: Gulf of Thailand and Indian Ocean

		Month					
		July	August	September	October	November	December
Units of fishing effort							
No. of fishing units							
No. of trips		5,804	5,180	5,623	5,026	5,893	4,793
No. of days		7,887	7,254	7,108	5,787	7,189	5,562
No. of hauls		18,516	15,113	19,939	19,892	21,511	13,929
No. of hours		68,966	38,579	38,689	32,502	39,303	25,357
Total catch (Tonnes)		14,345	12,146	11,833	7,688	8,586	6,407
Species (group)	Code No.	July	August	September	October	November	December
Indian halibuts	3102						
Tongue soles	3103						
Marine catfishes	3301						
Lizard fishes	3303						
Sharp-toothed pike eels and conger eels	3304						
Groupers	3305						
Sillago whiting	3306						
Red snappers	3307						
Threadfin breems	3310						
Drums and croakers	3313						
Big-eye snappers	3316						
Barracudas	3402						
Mullets	3403						
Threadfins	3404						
Round scads	3405						
Jacks, cavallas and trevallies	3406	27	21	9	5	11	16
Selar scads	3407	21	14	11	14	14	18
Hardtail scad	3408			9			
Black pomfret	3410	60	1,695				
White pomfret	3411	14,159	10,345	11,712			
Sardines	3501						
Anchovies	3503				7,632	8,506	6,281
Wolf herring	3505						
Longtail tuna	3604					4	
Eastern little tuna	3606						
Narrow-barred king mackerel	3609						
Indian mackerel	3701	4	3	11	4	5	
Indo-Pacific mackerel	3702	54	58	42	25	43	71
Hairtails	3703						
Sharks	3801						
Rays	3802						
Miscellaneous fishes	3901	20	10	39	8	3	21
Trash fishes	3902						
Swimming crabs	4201						
Mangrove crab	4202						
Slipper lobsters	4302						
Tiger prawn	4501						
Penaeid prawns	4502						
Other prawns	4503						
Miscellaneous	4701						
Scallops	5501						
Cuttlefishes	5701						
Squids	5702						
Octopuses	5703						
TOTAL (Tonnes)		14,345	12,146	11,833	7,688	8,586	6,407

## 2. MONTHLY CATCH-EFFORT STATISTICS 1999

### 2-1 Catch and Fishing Effort by Type of Fishing Gear and by Month

#### 2-1-1 Anchovy Purse Seine

(1) Thailand

Sub-area: Gulf of Thailand

Units of fishing effort		Month					
		January	February	March	April	May	June
No. of fishing units							
No. of trips		4,239	3,853	5,444	2,803	3,807	3,326
No. of days		4,775	4,315	5,725	4,233	5,264	4,911
No. of hauls		18,877	14,147	13,766	10,649	14,284	12,183
No. of hours		26,156	24,146	26,461	18,919	34,022	28,867
Total catch (Tonnes)		8,138	6,038	7,396	5,038	12,491	12,734
Species (group)	Code No.	January	February	March	April	May	June
Indian halibuts	3102						
Tongue soles	3103						
Marine catfishes	3301						
Lizard fishes	3303						
Sharp-toothed pike eels and conger eels	3304						
Groupers	3305						
Sillago whiting	3306						
Red snappers	3307						
Threadfin breems	3310						
Drums and croakers	3313						
Big-eye snappers	3316						
Barracudas	3402						
Mulletts	3403						
Threadfins	3404						
Round scads	3405		33				
Jacks, cavallas and trevallies	3406	6	21				
Selar scads	3407	144	12				
Hardtail scad	3408		27	1		2	2
Black pomfret	3410	13	2		1		
White pomfret	3411						
Sardines	3501	24				73	43
Anchovies	3503	7,426	5,445	4,621	4,920	12,159	12,580
Wolf herring	3505						
Longtail tuna	3604	22	14	10	7		1
Eastern little tuna	3606						
Narrow-barred king mackerel	3609	13	8	5	2	2	
Indian mackerel	3701		12				1
Indo-Pacific mackerel	3702	120	83	4		8	19
Hairtails	3703						
Sharks	3801						
Rays	3802						
Miscellaneous fishes	3901	170	166	47	69	243	88
Trash fishes	3902	172	142	72	31		
Swimming crabs	4201		60				
Mangrove crab	4202						
Slipper lobsters	4302						
Tiger prawn	4501						
Penaeid prawns	4502						
Other prawns	4503						
Miscellaneous	4701						
Scallops	5501						
Cuttlefishes	5701	13	5	2	6		
Squids	5702	15	8	4	2	4	
Octopuses	5703						
TOTAL (Tonnes)		8,138	6,038	4,766	5,038	12,491	12,734

2. MONTHLY CATCH-EFFORT STATISTICS 1999

2-1 Catch and Fishing Effort by Type of Fishing Gear and by Month

2-1-1 Anchovy Purse Seine

(1) Thailand

Sub-area: Gulf of Thailand

		Month					
		July	August	September	October	November	December
Units of fishing effort							
No. of fishing units							
No. of trips		3,091	2,829	3,525	3,109	3,506	2,170
No. of days		4,848	4,649	5,408	4,141	4,386	2,867
No. of hauls		10,323	8,204	15,616	15,859	13,734	6,495
No. of hours		56,558	27,474	30,224	24,725	27,981	14,125
Total catch (Tonnes)		11,913	10,044	10,201	6,277	6,223	4,235
Species (group)	Code No.	July	August	September	October	November	December
Indian halibuts	3102						
Tongue soles	3103						
Marine catfishes	3301						
Lizard fishes	3303						
Sharp-toothed pike eels and conger eels	3304						
Groupers	3305						
Sillago whiting	3306						
Red snappers	3307						
Threadfin breems	3310						
Drums and croakers	3313						
Big-eye snappers	3316						
Barracudas	3402						
Mulletts	3403						
Threadfins	3404						
Round scads	3405						
Jacks, cavallas and trevallies	3406	27	21	9	5	11	16
Selar scads	3407	21	14	11	14	14	18
Hardtail scad	3408			9			
Black pomfret	3410						
White pomfret	3411						
Sardines	3501	60	1,695				
Anchovies	3503	11,727	8,243	10,080	6,221	6,143	4,109
Wolf herring	3505						
Longtail tuna	3604					4	
Eastern little tuna	3606						
Narrow-barred king mackerel	3609						
Indian mackerel	3701	4	3	11	4	5	
Indo-Pacific mackerel	3702	54	58	42	25	43	71
Hairtails	3703						
Sharks	3801						
Rays	3802						
Miscellaneous fishes	3901	20	10	39	8	3	21
Trash fishes	3902						
Swimming crabs	4201						
Mangrove crab	4202						
Slipper lobsters	4302						
Tiger prawn	4501						
Penaeid prawns	4502						
Other prawns	4503						
Miscellaneous	4701						
Scallops	5501						
Cuttlefishes	5701						
Squids	5702						
Octopuses	5703						
TOTAL (Tonnes)		11,913	10,044	10,201	6,277	6,223	4,235



## 2. MONTHLY CATCH-EFFORT STATISTICS 1999

### 2-1 Catch and Fishing Effort by Type of Fishing Gear and by Month

#### 2-1-1 Anchovy Purse Seine

(1) Thailand

Sub-area: Indian Ocean

Units of fishing effort		Month					
		January	February	March	April	May	June
No. of fishing units							
No. of trips		2,583	2,116	2,369	2,351	2,243	2,550
No. of days		3,189	1,881	2,116	22,026	2,008	3,147
No. of hauls		6,580	4,938	5,571	5,209	5,589	8,700
No. of hours		12,653	8,808	9,984	9,604	9,713	12,191
Total catch (Tonnes)		3,385	2,459	2,630	2,490	2,618	3,016
Species (group)	Code No.	January	February	March	April	May	June
Indian halibuts	3102						
Tongue soles	3103						
Marine catfishes	3301						
Lizard fishes	3303						
Sharp-toothed pike eels and conger eels	3304						
Groupers	3305						
Sillago whiting	3306						
Red snappers	3307						
Threadfin breams	3310						
Drums and croakers	3313						
Big-eye snappers	3316						
Barracudas	3402						
Mulletts	3403						
Threadfins	3404						
Round scads	3405						
Jacks, cavallas and trevallies	3406						
Selar scads	3407						
Hardtail scad	3408						
Black pomfret	3410						
White pomfret	3411						
Sardines	3501						
Anchovies	3503	3,385	2,459	2,630	2,490	2,618	3,016
Wolf herring	3505						
Longtail tuna	3604						
Eastern little tuna	3606						
Narrow-barred king mackerel	3609						
Indian mackerel	3701						
Indo-Pacific mackerel	3702						
Hairtails	3703						
Sharks	3801						
Rays	3802						
Miscellaneous fishes	3901						
Trash fishes	3902						
Swimming crabs	4201						
Mangrove crab	4202						
Slipper lobsters	4302						
Tiger prawn	4501						
Penaeid prawns	4502						
Other prawns	4503						
Miscellaneous	4701						
Scallops	5501						
Cuttlefishes	5701						
Squids	5702						
Octopuses	5703						
TOTAL (Tonnes)		3,385	2,459	2,630	2,490	2,618	3,016



## 2. MONTHLY CATCH-EFFORT STATISTICS 1999

### 2-1 Catch and Fishing Effort by Type of Fishing Gear and by Month

#### 2-1-1 Anchovy Purse Seine

(1) Thailand

Sub-area: Indian Ocean

		Month					
		July	August	September	October	November	December
Units of fishing effort							
No. of fishing units							2,623
No. of trips		2,713	2,351	2,098	1,917	2,387	2,623
No. of days		3,039	2,605	1,700	1,646	2,803	2,695
No. of hauls		8,193	6,909	4,323	4,033	7,777	7,434
No. of hours		12,408	11,105	8,465	7,777	11,322	11,232
Total catch (Tonnes)		2,432	2,102	1,632	1,411	2,363	2,172
Species (group)	Code No.	July	August	September	October	November	December
Indian halibuts	3102						
Tongue soles	3103						
Marine catfishes	3301						
Lizard fishes	3303						
Sharp-toothed pike eels and conger eels	3304						
Groupers	3305						
Sillago whiting	3306						
Red snappers	3307						
Threadfin breams	3310						
Drums and croakers	3313						
Big-eye snappers	3316						
Barracudas	3402						
Mulletts	3403						
Threadfins	3404						
Round scads	3405						
Jacks, cavallas and trevallies	3406						
Selar scads	3407						
Hardtail scad	3408						
Black pomfret	3410						
White pomfret	3411						
Sardines	3501						
Anchovies	3503	2,432	2,102	1,632	1,411	2,363	2,172
Wolf herring	3505						
Longtail tuna	3604						
Eastern little tuna	3606						
Narrow-barred king mackerel	3609						
Indian mackerel	3701						
Indo-Pacific mackerel	3702						
Hairtails	3703						
Sharks	3801						
Rays	3802						
Miscellaneous fishes	3901						
Trash fishes	3902						
Swimming crabs	4201						
Mangrove crab	4202						
Slipper lobsters	4302						
Tiger prawn	4501						
Penaeid prawns	4502						
Other prawns	4503						
Miscellaneous	4701						
Scallops	5501						
Cuttlefishes	5701						
Squids	5702						
Octopuses	5703						
TOTAL (Tonnes)		2,432	2,102	1,632	1,411	2,363	2,172

## 2. MONTHLY CATCH-EFFORT STATISTICS 1999

### 2-1 Catch and Fishing Effort by Type of Fishing Gear and by Month

#### 2-1-2 Thai Purse Seine

(1) Thailand

Area: Gulf of Thailand and Indian Ocean

		Month					
		January	February	March	April	May	June
Units of fishing effort							
No. of fishing units							
No. of trips		9,559	7,791	9,156	8,451	9,723	10,454
No. of days		17,580	20,777	22,750	18,368	25,007	28,409
No. of hauls		49,797	54,874	51,322	40,687	52,272	55,988
No. of hours		114,434	105,589	106,035	97,268	148,085	153,236
Total catch (Tonnes)		47,940	45,860	57,155	46,348	58,647	59,622
Species (group)	Code No.	January	February	March	April	May	June
Indian halibuts	3102						
Tongue soles	3103						
Marine catfishes	3301						
Lizard fishes	3303						
Sharp-toothed pike eels and conger eels	3304						
Groupers	3305						
Sillago whiting	3306						
Red snappers	3307	198					
Threadfin breams	3310						
Drums and croakers	3313	17					
Big-eye snappers	3316						
Barracudas	3402	15	17	28	152	198	144
Mullets	3403						
Threadfins	3404						
Round scads	3405	6,986	7,079	6,038	6,199	6,089	5,887
Jacks, cavallas and trevallies	3406	2,162	2,284	3,703	2,879	3,094	2,540
Selar scads	3407	2,413	1,258	2,136	2,410	2,053	2,682
Hardtail scad	3408	2,912	1,716	1,684	1,426	1,402	1,712
Black pomfret	3410	50	130	304	150	66	1,419
White pomfret	3411						
Sardines	3501	9,026	10,874	10,562	10,566	19,656	23,340
Anchovies	3503			79			
Wolf herring	3505		3	28	103	67	75
Longtail tuna	3604	5,090	5,035	5,939	4,975	4,098	2,314
Eastern little tuna	3606	2,851	4,325	10,159	2,962	5,179	3,686
Narrow-barred king mackerel	3609	133	144	85	71	163	202
Indian mackerel	3701	2,782	2,210	2,730	2,651	3,064	3,021
Indo-Pacific mackerel	3702	9,888	6,895	8,632	6,947	8,533	8,103
Hairtails	3703	9	14	28	143	136	79
Sharks	3801					1	1
Rays	3802	2	3	2	4	3	2
Miscellaneous fishes	3901	2,177	1,878	2,116	2,179	2,355	2,638
Trash fishes	3902	1,146	1,937	2,746	2,250	2,106	1,523
Swimming crabs	4201						
Mangrove crab	4202						
Slipper lobsters	4302						
Tiger prawn	4501						
Penaeid prawns	4502						
Other prawns	4503						
Miscellaneous	4701						
Scallops	5501						
Cuttlefishes	5701	6	1	4	6		
Squids	5702	75	57	152	275	384	254
Octopuses	5703	2					
<b>TOTAL (Tonnes)</b>		<b>47,940</b>	<b>45,860</b>	<b>57,155</b>	<b>46,348</b>	<b>58,647</b>	<b>59,622</b>

## 2. MONTHLY CATCH-EFFORT STATISTICS 1999

### 2-1 Catch and Fishing Effort by Type of Fishing Gear and by Month

#### 2-1-2 Thai Purse Seine

(1) Thailand

Area: Gulf of Thailand and Indian Ocean

		Month					
		July	August	September	October	November	December
Units of fishing effort							
No. of fishing units							
No. of trips		10,225	10,745	10,339	9,891	8,629	7,841
No. of days		26,398	24,876	26,509	25,025	22,186	16,752
No. of hauls		53,637	61,857	53,120	51,493	50,174	28,950
No. of hours		161,101	148,355	141,067	128,113	139,216	69,849
Total catch (Tonnes)		55,713	62,824	63,332	56,575	38,634	33,703
Species (group)	Code No.	July	August	September	October	November	December
Indian halibuts	3102						
Tongue soles	3103						
Marine catfishes	3301						
Lizard fishes	3303						
Sharp-toothed pike eels and conger eels	3304						
Groupers	3305						
Sillago whiting	3306						
Red snappers	3307	593					
Threadfin breams	3310						
Drums and croakers	3313						
Big-eye snappers	3316						
Barracudas	3402	56	68	11		18	86
Mulletts	3403						
Threadfins	3404						
Round scads	3405	6,018	10,704	12,048	10,020	5,094	2,379
Jacks, cavallas and trevallies	3406	2,692	2,946	2,189	2,457	2,229	1,037
Selar scads	3407	2,129	1,966	2,540	2,019	2,094	1,516
Hardtail scad	3408	1,390	1,875	1,625	1,611	1,460	1,745
Black pomfret	3410	56	55	24	8	79	50
White pomfret	3411						
Sardines	3501	19,113	20,155	20,798	16,119	7,101	7,511
Anchovies	3503			7		1,237	1,952
Wolf herring	3505	111	784	40	2	43	58
Longtail tuna	3604	3,304	3,587	5,070	3,520	2,357	1,272
Eastern little tuna	3606	5,236	5,290	5,375	4,382	3,064	2,021
Narrow-barred king mackerel	3609	152	159	100	90	106	121
Indian mackerel	3701	2,940	3,303	3,350	2,921	2,892	3,071
Indo-Pacific mackerel	3702	7,618	7,428	6,220	9,137	6,404	5,962
Hairtails	3703	60	89	19	6	39	84
Sharks	3801	3					
Rays	3802	3	4	11	4	2	21
Miscellaneous fishes	3901	2,431	2,494	2,502	2,252	2,283	2,557
Trash fishes	3902	1,693	1,836	1,309	1,911	2,036	2,081
Swimming crabs	4201						
Mangrove crab	4202						
Slipper lobsters	4302						
Tiger prawn	4501						
Penaeid prawns	4502						
Other prawns	4503						
Miscellaneous	4701						
Scallops	5501						
Cuttlefishes	5701	1	4				9
Squids	5702	114	77	94	116	96	170
Octopuses	5703						
<b>TOTAL (Tonnes)</b>		<b>55,713</b>	<b>62,824</b>	<b>63,332</b>	<b>56,575</b>	<b>38,634</b>	<b>33,703</b>

## 2. MONTHLY CATCH-EFFORT STATISTICS 1999

### 2-1 Catch and Fishing Effort by Type of Fishing Gear and by Month

#### 2-1-2 Thai Purse Seine

(1) Thailand

Sub-area: Gulf of Thailand

Month		January	February	March	April	May	June
		January	February	March	April	May	June
Units of fishing effort							
No. of fishing units							
No. of trips		5,536	3,787	4,400	3,751	5,136	6,149
No. of days		12,297	15,607	16,075	11,655	18,181	22,110
No. of hauls		39,756	44,946	38,424	26,980	38,415	42,941
No. of hours		84,125	75,337	71,646	62,409	110,613	118,491
Total catch (Tonnes)		33,538	32,357	40,055	28,304	40,205	41,908
Species (group)	Code No.	January	February	March	April	May	June
Indian halibuts	3102						
Tongue soles	3103						
Marine catfishes	3301						
Lizard fishes	3303						
Sharp-toothed pike eels and conger eels	3304						
Groupers	3305						
Sillago whiting	3306						
Red snappers	3307						
Threadfin breems	3310						
Drums and croakers	3313						
Big-eye snappers	3316						
Barracudas	3402					1	
Mulletts	3403						
Threadfins	3404						
Round scads	3405	4,213	5,162	3,482	2,805	3,305	2,996
Jacks, cavallas and trevallies	3406	2,023	1,996	3,375	2,411	2,530	1,941
Selar scads	3407	2,130	1,228	1,924	2,058	1,747	2,102
Hardtail scad	3408	1,383	563	1,257	658	217	77
Black pomfret	3410	50	118	299	149	64	1,389
White pomfret	3411						
Sardines	3501	5,310	6,603	4,741	5,032	13,382	18,556
Anchovies	3503			79			
Wolf herring	3505						
Longtail tuna	3604	5,035	4,763	5,064	4,474	3,399	1,717
Eastern little tuna	3606	2,620	4,147	9,921	2,624	4,983	3,590
Narrow-barred king mackerel	3609	97	124	57	38	50	49
Indian mackerel	3701	1,231	903	1,255	1,124	1,178	1,111
Indo-Pacific mackerel	3702	6,825	4,332	5,448	4,203	6,117	5,369
Hairtails	3703	9	13	11	9	21	12
Sharks	3801						
Rays	3802						
Miscellaneous fishes	3901	1,787	1,599	1,740	1,729	1,840	1,879
Trash fishes	3902	807	800	1,393	977	1,269	983
Swimming crabs	4201						
Mangrove crab	4202						
Slipper lobsters	4302						
Tiger prawn	4501						
Penaeid prawns	4502						
Other prawns	4503						
Miscellaneous	4701						
Scallops	5501						
Cuttlefishes	5701	6	1	3	6		
Squids	5702	12	5	6	7	102	137
Octopuses	5703						
TOTAL (Tonnes)		33,538	32,357	40,055	28,304	40,205	41,908



## 2. MONTHLY CATCH-EFFORT STATISTICS 1999

### 2-1 Catch and Fishing Effort by Type of Fishing Gear and by Month

#### 2-1-2 Thai Purse Seine

(1) Thailand

Sub-area: Gulf of Thailand

		Month					
		July	August	September	October	November	December
Units of fishing effort							
No. of fishing units							
No. of trips		5,808	6,252	6,053	6,563	5,094	3,705
No. of days		20,024	18,257	20,606	21,283	17,918	11,469
No. of hauls		41,022	48,752	43,080	43,503	40,847	16,785
No. of hours		119,473	112,011	108,972	108,992	118,251	45,689
Total catch (Tonnes)		38,889	44,673	47,933	46,870	27,703	19,668
Species (group)	Code No.	July	August	September	October	November	December
Indian halibuts	3102						
Tongue soles	3103						
Marine catfishes	3301						
Lizard fishes	3303						
Sharp-toothed pike eels and conger eels	3304						
Groupers	3305						
Sillago whiting	3306						
Red snappers	3307						
Threadfin breams	3310						
Drums and croakers	3313						
Big-eye snappers	3316						
Barracudas	3402						
Mullets	3403						
Threadfins	3404						
Round scads	3405						
Jacks, cavallas and trevallies	3406						
Selar scads	3407						
Hardtail scad	3408						
Black pomfret	3410						
White pomfret	3411						
Sardines	3501						
Anchovies	3503						
Wolf herring	3505						
Longtail tuna	3604						
Eastern little tuna	3606						
Narrow-barred king mackerel	3609						
Indian mackerel	3701						
Indo-Pacific mackerel	3702						
Hairtails	3703						
Sharks	3801						
Rays	3802						
Miscellaneous fishes	3901						
Trash fishes	3902						
Swimming crabs	4201						
Mangrove crab	4202						
Slipper lobsters	4302						
Tiger prawn	4501						
Penaeid prawns	4502						
Other prawns	4503						
Miscellaneous	4701						
Scallops	5501						
Cuttlefishes	5701						
Squids	5702						
Octopuses	5703						
TOTAL (Tonnes)							



## 2. MONTHLY CATCH-EFFORT STATISTICS 1999

### 2-1 Catch and Fishing Effort by Type of Fishing Gear and by Month

#### 2-1-2 Thai Purse Seine

(1) Thailand

Sub-area: Indian Ocean

Units of fishing effort		Month	January	February	March	April	May	June
		January	February	March	April	May	June	
No. of fishing units			4,023	4,004	4,756	4,700	4,587	4,305
No. of trips			5,283	5,170	6,675	6,713	6,826	6,299
No. of days			10,041	9,928	12,898	13,707	13,857	13,047
No. of hauls			30,309	30,252	34,389	34,859	37,472	34,745
No. of hours			14,402	13,503	17,100	18,044	18,442	17,714
Total catch (Tonnes)								
Species (group)	Code No.	January	February	March	April	May	June	
Indian halibuts	3102							
Tongue soles	3103							
Marine catfishes	3301							
Lizard fishes	3303							
Sharp-toothed pike eels and conger eels	3304							
Groupers	3305							
Sillago whiting	3306							
Red snappers	3307	198						
Threadfin breams	3310							
Drums and croakers	3313	17						
Big-eye snappers	3316							
Barracudas	3402	15	17	28	152	197	144	
Mulletts	3403							
Threadfins	3404							
Round scads	3405	2,773	1,917	2,556	3,394	2,784	2,891	
Jacks, cavallas and trevallies	3406	139	288	328	468	564	599	
Selar scads	3407	283	30	212	352	306	580	
Hardtail scad	3408	1,529	1,153	427	768	1,185	1,635	
Black pomfret	3410		12	5	1	2	30	
White pomfret	3411							
Sardines	3501	3,716	4,271	5,821	5,534	6,274	4,784	
Anchovies	3503							
Wolf herring	3505		3	28	103	67	75	
Longtail tuna	3604	55	272	875	501	699	597	
Eastern little tuna	3606	231	178	238	338	196	96	
Narrow-barred king mackerel	3609	36	20	28	33	113	153	
Indian mackerel	3701	1,551	1,307	1,475	1,527	1,886	1,910	
Indo-Pacific mackerel	3702	3,063	2,563	3,184	2,744	2,416	2,734	
Hairtails	3703		1	17	134	115	67	
Sharks	3801					1	1	
Rays	3802	2	3	2	4	3	2	
Miscellaneous fishes	3901	390	279	376	450	515	759	
Trash fishes	3902	339	1,137	1,353	1,273	837	540	
Swimming crabs	4201							
Mangrove crab	4202							
Slipper lobsters	4302							
Tiger prawn	4501							
Penaeid prawns	4502							
Other prawns	4503							
Miscellaneous	4701							
Scallops	5501							
Cuttlefishes	5701			1				
Squids	5702	63	52	146	268	282	117	
Octopuses	5703	2						
TOTAL (Tonnes)		14,402	13,503	17,100	18,044	18,442	17,714	

2. MONTHLY CATCH-EFFORT STATISTICS 1999

2-1 Catch and Fishing Effort by Type of Fishing Gear and by Month

2-1-2 Thai Purse Seine

(1) Thailand

Sub-area: Indian Ocean

		Month					
		July	August	September	October	November	December
Units of fishing effort							
No. of fishing units							
No. of trips		4,417	4,493	4,286	3,328	3,535	4,136
No. of days		6,374	6,619	5,903	3,742	4,268	5,283
No. of hauls		12,615	13,105	10,040	7,990	9,327	12,165
No. of hours		41,628	36,344	32,095	19,121	20,965	24,160
Total catch (Tonnes)		16,824	18,151	15,399	9,705	10,931	14,035
Species (group)	Code No.	July	August	September	October	November	December
Indian halibuts	3102						
Tongue soles	3103						
Marine catfishes	3301						
Lizard fishes	3303						
Sharp-toothed pike eels and conger eels	3304						
Groupers	3305						
Sillago whiting	3306						
Red snappers	3307	593					
Threadfin breams	3310						
Drums and croakers	3313						
Big-eye snappers	3316						
Barracudas	3402	50	64	11		18	86
Mulletts	3403						
Threadfins	3404						
Round scads	3405	2,483	2,254	2,700	1,009	1,506	1,846
Jacks, cavallas and trevallies	3406	497	554	546	422	287	193
Selar scads	3407	497	217	421		56	122
Hardtail scad	3408	1,294	1,659	1,245	1,118	1,039	1,559
Black pomfret	3410	27	31	21	2	10	22
White pomfret	3411						
Sardines	3501	4,533	6,235	4,741	2,720	1,793	2,421
Anchovies	3503			7		574	1,952
Wolf herring	3505	111	68	40	2	43	58
Longtail tuna	3604	566	522	310	19	331	385
Eastern little tuna	3606	104	355	353	267	595	31
Narrow-barred king mackerel	3609	113	111	60	1	61	100
Indian mackerel	3701	1,796	1,979	1,908	1,112	1,300	1,298
Indo-Pacific mackerel	3702	2,969	2,490	2,099	2,071	2,130	2,216
Hairtails	3703	56	86	12		22	82
Sharks	3801	3					
Rays	3802	3	4	2	4	2	21
Miscellaneous fishes	3901	599	614	510	344	427	561
Trash fishes	3902	437	856	361	577	674	921
Swimming crabs	4201						
Mangrove crab	4202						
Slipper lobsters	4302						
Tiger prawn	4501						
Penaeid prawns	4502						
Other prawns	4503						
Miscellaneous	4701						
Scallops	5501						
Cuttlefishes	5701	1	1				
Squids	5702	92	51	52	37	63	161
Octopuses	5703						
TOTAL (Tonnes)		16,824	18,151	15,399	9,705	10,931	14,035

2. MONTHLY CATCH-EFFORT STATISTICS 1999

2-1 Catch and Fishing Effort by Type of Fishing Gear and by Month

2-1-3 Otter Trawl (Demersal Trawl)

(1) Brunei

Sub-area : Zones 2-3

		Month					
		January	February	March	April	May	June
Units of fishing effort							
No. of fishing units		20	20	18	19	20	20
No. of trips							
No. of days		373	414	397	446	433	401
No. of hauls							
No. of hours							
Total catch (Tonnes)		72.79	83.92	96.96	110.07	94.78	72.35
Species (group)	Code No.	January	February	March	April	May	June
Shads	2401						
Flounders	3101			0.45	0.29	0.42	0.22
Indian halibuts	3102						
Marine catfishes	3301		0.05				
Sharp-toothed pike eels and conger eels	3304				0.06		
Groupers	3305	0.06	0.12	0.30	0.19	0.28	0.20
Sillago whiting	3306						
Red snappers	3307		0.04	0.41	0.30	0.65	0.21
Other snappers	3308	0.12	0.10	0.49	0.37	0.58	0.59
Fusiliers	3309						
Threadfin beams	3310						
Pony fishes	3311		0.17		0.04		0.34
Grunters and sweetlips	3312		0.12	0.56	0.44	0.50	0.26
Drums and croakers	3313	0.22	0.59	1.92	4.22	3.03	2.16
Goatfishes	3314						
Big-eye snappers	3316						
Breams	3317	1.70	1.32	1.33	0.92	1.63	1.64
Other species	3320	7.48	13.35	18.68	30.66	23.60	18.52
Barracudas	3402					0.04	0.06
Mulletts	3403						
Threadfins	3404						
Round scads	3405						
Jacks, cavallas and trevallies	3406	0.06	0.02	0.46	0.46	0.44	0.33
Selar scads	3407			0.10			
Hardtail scad	3408		0.03	0.58	0.32		0.57
Queenfishes	3409	0.01	0.01	0.03	0.11	0.18	0.11
Black pomfret	3410			0.24	0.12	0.01	0.11
White pomfret	3411	0.10	0.04	0.09	0.21	0.13	0.11
Other species	3412	23.68	25.68	30.66	34.80	31.50	25.22
Sardines	3501						
Anchovies	3503						
Clupeoids	3504						
Wolf herring	3505						
Skipjack tuna	3601					0.06	0.04
Longtail tuna	3604						
Eastern little tuna	3606				0.14	0.44	0.32
Narrow-barred king mackerel	3609	0.69	2.25	1.69	3.79	2.03	1.16
Indian mackerels	3701	3.51	1.63	0.54		0.39	0.27
Indo-Pacific mackerel	3702					0.03	0.17
Hairtails	3703						
Sharks	3801	1.75	2.29	3.09	3.25	3.07	2.82
Rays	3802	3.01	3.60	4.23	3.98	4.30	3.73
Miscellaneous fishes	3901	2.10	0.07	0.56	0.59	1.23	0.34
Trash fishes	3902				0.03	3.96	
Swimming crabs	4201	0.25	0.08	0.13	0.12	0.02	
Mangrove crab	4202						
Slipper lobster	4302			0.06		0.02	
Tiger prawn	4501	0.02	0.02	0.11	0.08	0.01	0.08
Penaeid prawns	4502	27.13	30.55	25.33	19.76	14.11	12.01
Other prawns	4503						
Cuttlefishes	5701			0.02		0.08	
Squids	5702	0.90	1.79	4.90	4.82	2.04	0.76
Octopus	5703						
Miscellaneous m. molluscs	5801						
OTHERS							
TOTAL (Tonnes)		72.79	83.92	96.96	110.07	94.78	72.35

2. MONTHLY CATCH-EFFORT STATISTICS 1999

2-1 Catch and Fishing Effort by Type of Fishing Gear and by Month

2-1-3 Otter Trawl (Demersal Trawl)

(1) Brunei

Sub-area : Zones 2-3

		Month					
		July	August	September	October	November	December
Units of fishing effort							
No. of fishing units		18	18	19	19	20	21
No. of trips							
No. of days		379	362	335	387	402	446
No. of hauls							
No. of hours							
Total catch (Tonnes)		53.81	56.24	53.28	64.12	76.05	68.46
Species (group)	Code No.	July	August	September	October	November	December
Shads	2401			0.01	0.06		0.32
Flounders	3101	0.25					
Indian halibuts	3102						
Marine catfishes	3301						
Sharp-toothed pike eels and conger eels	3304						
Groupers	3305	0.18	0.05	0.09	0.11	0.13	0.14
Sillago whitting	3306						0.08
Red snappers	3307	0.82	0.10	0.14	0.32		0.05
Other snappers	3308	0.38	0.35	0.38	0.26	0.27	0.14
Fusiliers	3309						
Threadfin breams	3310						
Pony fishes	3311	0.39	0.95	1.81	0.89	1.31	1.67
Grunters and sweetlips	3312	0.29			0.01		0.06
Drums and croakers	3313	1.43	3.16	0.94	1.45	0.40	0.38
Goatfishes	3314						
Big-eye snappers	3316						
Breams	3317	0.99	0.48	0.73	0.89	1.08	0.58
Other species	3320	13.55	15.92	13.77	13.54	18.10	16.27
Barracudas	3402	0.02	0.30		0.37	0.25	
Mulletts	3403						
Threadfins	3304						0.03
Round scads	3405			0.20	0.20		
Jacks, cavallas and trevallies	3406	0.30	0.06	0.08	0.06		
Selar scads	3407	0.01					
Hardtail scad	3408	0.08	0.01	0.07	0.05	0.42	0.06
Queenfishes	3409	0.21	0.27	0.12	0.17	0.75	0.68
Black pomfret	3410	0.07		0.01			
White pomfret	3411	0.16	0.01	0.01	0.01	0.01	0.04
Other species	3412	17.14	22.00	21.92	30.32	27.69	23.11
Sardines	3501						
Anchovies	3503						
Clupeoids	3504	0.08					
Wolf herring	3505						
Skipjack tuna	3601	0.34					
Longtail tuna	3604						
Eastern little tuna	3606	0.14					
Narrow-barred king mackerel	3609	0.80	0.35	1.18	1.04	0.83	0.73
Indian mackerels	3701	0.23	0.40	0.45	0.79	0.69	0.83
Indo-Pacific mackerel	3702	0.02	0.03	0.04	0.05	0.01	0.05
Hairtails	3703						
Sharks	3801	2.36	1.14	2.18	1.84	1.52	1.32
Rays	3802	3.98	2.60	3.23	3.64	3.56	5.93
Miscellaneous fishes	3901	0.47	0.18	0.97	0.57	12.19	4.48
Trash fishes	3902	0.02					
Swimming crabs	4201	0.07	0.03			0.24	0.19
Mangrove crab	4202						
Slipper lobster	4302						
Tiger prawn	4501	0.01	0.04	0.06	0.03		0.06
Penaeid prawns	4502	7.72	6.76	3.97	5.84	3.42	10.76
Other prawns	4503						
Cuttlefishes	5701	0.01			0.03	0.19	0.02
Squids	5702	1.29	1.05	0.92	1.58	2.99	0.48
Octopus	5703						
OTHERS							
TOTAL (Tonnes)		53.81	56.24	53.28	64.12	76.05	68.46



## 2. MONTHLY CATCH-EFFORT STATISTICS 1999

### 2-1 Catch and Fishing Effort by Type of Fishing Gear and by Month

#### 2-1-3 Otter Trawl

(2) Thailand

Area: Gulf of Thailand and Indian Ocean

		Month					
		January	February	March	April	May	June
Units of fishing effort							
No. of fishing units							
No. of trips		27,015	23,319	27,446	26,079	25,829	25,201
No. of days		128,266	114,950	127,946	127,027	123,143	120,935
No. of hauls		389,073	347,047	379,667	379,687	372,949	369,705
No. of hours		1,760,477	1,564,992	1,684,197	1,677,061	1,769,273	1,747,188
Total catch (Tonnes)		113,973	97,908	112,802	106,543	108,271	100,940
Species (group)	Code No.	January	February	March	April	May	June
Indian halibuts	3102	108	74	112	74	99	92
Tongue soles	3103	1,078	1,082	1,164	1,040	1,041	1,089
Marine catfishes	3301	609	468	551	507	606	462
Lizard fishes	3303	4,368	5,807	5,652	4,695	4,059	3,250
Sharp-toothed pike eels and conger eels	3304	155	193	168	161	147	143
Groupers	3305	543	503	556	526	550	446
Sillago whiting	3306	241	224	166	167	193	253
Red snappers	3307	984	868	994	944	1,015	938
Threadfin breams	3310	7,325	4,480	9,332	6,712	6,554	5,340
Drums and croakers	3313	1,797	1,477	1,906	2,219	2,192	2,115
Big-eye snappers	3316	6,794	5,865	7,210	6,259	6,403	5,871
Barracudas	3402	1,172	739	1,027	1,030	1,111	990
Mulletts	3403						
Threadfins	3404						
Round scads	3405						
Jacks, cavallas and trevallies	3406	1,206	635	892	733	849	720
Selar scads	3407	642	238	137	171	270	129
Hardtail scad	3408	1					
Black pomfret	3410	224	124	143	163	162	102
White pomfret	3411	31	31	12	15	15	22
Sardines	3501	35	23	31	30	13	30
Anchovies	3503	336	122	339	136	116	85
Wolf herring	3505	1,037	815	931	923	938	838
Longtail tuna	3604						
Eastern little tuna	3606						
Narrow-barred king mackerel	3609	468	341	455	461	442	445
Indian mackerel	3701	657	537	725	697	457	686
Indo-Pacific mackerel	3702	906	512	1,033	1,358	832	1,070
Hairtails	3703	923	732	783	605	885	829
Sharks	3801	571	509	603	528	583	608
Rays	3802	675	613	794	719	722	696
Miscellaneous fishes	3901	10,735	8,732	9,758	10,296	10,109	10,365
Trash fishes	3902	54,203	47,809	51,430	50,994	52,465	49,180
Swimming crabs	4201	672	596	744	691	628	511
Mangrove crab	4202						
Slipper lobsters	4302	124	145	146	131	137	114
Tiger prawn	4501	152	105	95	115	113	133
Penaeid prawns	4502	520	458	674	440	504	503
Other prawns	4503	3,215	2,925	2,985	2,823	2,885	2,931
Miscellaneous	4701	793	770	733	831	769	761
Scallops	5501	47	36	24	20	55	61
Cuttlefishes	5701	4,585	3,849	4,442	3,969	3,983	3,709
Squids	5702	4,111	3,791	4,077	3,716	4,372	4,007
Octopuses	5703	1,930	1,680	1,978	1,644	1,997	1,416
TOTAL (Tonnes)		113,973	97,908	112,802	106,543	108,271	100,940



## 2. MONTHLY CATCH-EFFORT STATISTICS 1999

### 2-1 Catch and Fishing Effort by Type of Fishing Gear and by Month

#### 2-1-3 Otter Trawl

(2) Thailand

Area: Gulf of Thailand and Indian Ocean

		Month					
		July	August	September	October	November	December
Units of fishing effort							
No. of fishing units							
No. of trips		24,360	25,067	25,953	25,323	25,375	21,128
No. of days		121,805	122,779	126,288	112,498	111,549	98,260
No. of hauls		361,300	376,913	393,004	356,158	358,114	311,111
No. of hours		1,586,229	1,668,985	1,760,420	1,571,517	1,551,691	1,383,390
Total catch (Tonnes)		113,601	100,416	128,066	98,505	132,074	123,881
Species (group)	Code No.	July	August	September	October	November	December
Indian halibuts	3102	201	68	223	81	330	322
Tongue soles	3103	965	936	1,300	1,245	1,149	1,264
Marine catfishes	3301	1,078	470	1,404	520	2,280	2,253
Lizard fishes	3303	3,982	3,886	3,736	3,642	12,131	14,651
Sharp-toothed pike eels and conger eels	3304	179	314	205	115	176	142
Groupers	3305	528	462	557	487	579	501
Sillago whiting	3306	171	202	195	130	150	133
Red snappers	3307	959	902	968	1,010	948	868
Threadfin breams	3310	7,276	5,886	7,850	5,810	9,115	8,337
Drums and croakers	3313	2,910	2,413	4,168	2,250	4,125	3,501
Big-eye snappers	3316	6,472	5,973	6,323	6,436	5,993	5,252
Barracudas	3402	1,167	1,114	1,275	1,171	1,270	1,361
Mulletts	3403						
Threadfins	3404						
Round scads	3405						
Jacks, cavallas and trevallies	3406	791	726	873	646	812	1,207
Selar scads	3407	209	127	169	245	330	388
Hardtail scad	3408						
Black pomfret	3410	160	146	228	123	204	183
White pomfret	3411	60	15	25	21	29	18
Sardines	3501	31	7	23	28		20
Anchovies	3503	106	93	197	190	148	148
Wolf herring	3505	906	963	1,140	887	1,020	1,074
Longtail tuna	3604						
Eastern little tuna	3606						
Narrow-barred king mackerel	3609	428	477	568	548	553	517
Indian mackerel	3701	990	663	990	577	788	848
Indo-Pacific mackerel	3702	5,291	1,055	8,498	584	7,529	7,760
Hairtails	3703	1,012	926	1,357	1,049	1,959	2,110
Sharks	3801	905	639	1,162	789	1,138	1,033
Rays	3802	884	724	1,349	902	1,331	1,104
Miscellaneous fishes	3901	16,041	9,431	19,164	9,900	17,471	16,744
Trash fishes	3902	44,859	47,416	49,112	45,304	45,641	38,776
Swimming crabs	4201	569	528	565	519	447	431
Mangrove crab	4202						
Slipper lobsters	4302	128	114	192	150	157	135
Tiger prawn	4501	132	151	138	152	117	145
Penaeid prawns	4502	469	491	571	631	612	605
Other prawns	4503	3,184	3,038	2,720	2,364	2,630	2,390
Miscellaneous	4701	890	857	746	718	732	755
Scallops	5501	100	44	58	67	7	32
Cuttlefishes	5701	4,248	3,577	4,162	3,701	4,839	4,041
Squids	5702	3,666	3,877	4,018	3,743	3,573	3,152
Octopuses	5703	1,654	1,705	1,837	1,770	1,761	1,680
TOTAL (Tonnes)		113,601	100,416	128,066	98,505	132,074	123,881

## 2. MONTHLY CATCH-EFFORT STATISTICS 1999

### 2-1 Catch and Fishing Effort by Type of Fishing Gear and by Month

#### 2-1-3 Otter Trawl

(2) Thailand

Sub - Area : Gulf of Thailand

		Month					
		January	February	March	April	May	June
Units of fishing effort							
No. of fishing units							
No. of trips		23,864	20,275	24,500	23,630	23,416	22,620
No. of days		102,478	90,504	104,850	102,238	99,299	98,361
No. of hauls		305,583	268,128	304,345	297,874	294,968	297,277
No. of hours		1,399,961	1,224,421	1,353,821	1,322,003	1,428,779	1,429,646
Total catch (Tonnes)		73,851	61,543	77,180	69,444	69,454	67,148
Species (group)	Code No.	January	February	March	April	May	June
Indian halibuts	3102	69	33	81	43	63	59
Tongue soles	3103	476	577	638	557	407	460
Marine catfishes	3301	295	196	294	244	293	228
Lizard fishes	3303	3,249	4,366	4,611	3,315	2,660	2,890
Sharp-toothed pike eels and conger eels	3304	81	87	91	87	72	78
Groupers	3305	437	402	466	418	437	350
Sillago whiting	3306	106	94	65	59	92	109
Red snappers	3307	709	579	729	645	724	700
Threadfin breams	3310	5,595	3,061	7,820	5,169	4,777	3,943
Drums and croakers	3313	252	149	433	819	592	780
Big-eye snappers	3316	5,886	5,112	6,348	5,533	5,491	5,074
Barracudas	3402	396	149	423	414	309	339
Mulletts	3403						
Threadfins	3404						
Round scads	3405						
Jacks, cavallas and trevallies	3406	990	433	695	509	630	426
Selar scads	3407	591	219	129	164	258	128
Hardtail scad	3408	1					
Black pomfret	3410	179	84	128	132	132	63
White pomfret	3411	7	4	4		2	
Sardines	3501	35	23	31	30	13	30
Anchovies	3503	331	116	331	129	112	81
Wolf herring	3505	529	374	482	462	411	351
Longtail tuna	3604						
Eastern little tuna	3606						
Narrow-barred king mackerel	3609	305	215	315	332	286	299
Indian mackerel	3701	482	479	653	557	382	482
Indo-Pacific mackerel	3702	747	442	961	1,181	686	840
Hairtails	3703	304	249	323	239	268	255
Sharks	3801	374	319	372	354	360	387
Rays	3802	439	360	518	438	474	485
Miscellaneous fishes	3901	7,808	6,165	6,899	7,350	6,975	7,657
Trash fishes	3902	32,627	27,797	32,485	30,708	32,691	31,210
Swimming crabs	4201	496	443	590	522	491	383
Mangrove crab	4202						
Slipper lobsters	4302	122	139	139	124	133	110
Tiger prawn	4501	61	69	62	61	74	69
Penaeid prawns	4502	127	93	195	84	109	109
Other prawns	4503	2,304	2,113	2,277	1,974	2,080	2,122
Miscellaneous	4701	446	533	511	530	487	466
Scallops	5501	47	36	24	20	55	61
Cuttlefishes	5701	3,116	2,560	3,138	2,740	2,492	2,414
Squids	5702	2,844	2,528	2,853	2,622	2,929	2,909
Octopuses	5703	988	945	1,066	879	1,007	801
TOTAL (Tonnes)		73,851	61,543	77,180	69,444	69,454	67,148

## 2. MONTHLY CATCH-EFFORT STATISTICS 1999

### 2-1 Catch and Fishing Effort by Type of Fishing Gear and by Month

#### 2-1-3 Otter Trawl

(2) Thailand

Sub-area: Gulf of Thailand

		Month					
		July	August	September	October	November	December
Units of fishing effort							
No. of fishing units							
No. of trips		21,457	22,084	22,994	22,327	21,903	18,046
No. of days		98,046	99,111	102,549	90,754	89,365	76,241
No. of hauls		284,191	296,561	314,450	283,883	284,041	237,451
No. of hours		1,261,552	1,322,000	1,421,105	1,259,393	1,231,085	1,066,652
Total catch (Tonnes)		77,668	61,414	90,721	62,960	96,470	86,494
Species (group)	Code No.	July	August	September	October	November	December
Indian halibuts	3102	161	29	153	49	283	297
Tongue soles	3103	438	388	509	482	416	387
Marine catfishes	3301	842	264	1,090	243	1,959	1,928
Lizard fishes	3303	2,909	2,798	2,852	2,793	11,241	13,684
Sharp-toothed pike eels and conger eels	3304	90	79	105	46	74	67
Groupers	3305	432	368	477	406	487	425
Sillago whiting	3306	13	18	38	15	53	45
Red snappers	3307	705	653	736	773	709	619
Threadfin breams	3310	5,452	4,013	5,962	4,161	7,297	6,767
Drums and croakers	3313	1,560	761	2,571	623	2,660	2,008
Big-eye snappers	3316	5,690	5,191	5,669	5,688	5,276	4,300
Barracudas	3402	453	347	482	360	467	529
Mullet	3403						
Threadfins	3404						
Round scads	3405						
Jacks, cavallas and trevallies	3406	510	416	595	461	620	980
Selar scads	3407	199	122	161	233	319	381
Hardtail scad	3408						
Black pomfret	3410	110	109	177	83	152	169
White pomfret	3411	17	1	1	6		1
Sardines	3501	31	7	23	28		20
Anchovies	3503	102	90	194	187	145	146
Wolf herring	3505	398	365	515	260	473	465
Longtail tuna	3604						
Eastern little tuna	3606						
Narrow-barred king mackerel	3609	291	277	336	350	315	287
Indian mackerel	3701	721	393	808	498	686	718
Indo-Pacific mackerel	3702	5,043	763	8,266	432	7,351	7,639
Hairtails	3703	433	191	657	223	1,247	1,290
Sharks	3801	686	366	895	435	846	666
Rays	3802	646	449	1,032	514	1,020	765
Miscellaneous fishes	3901	13,194	6,577	16,532	7,147	14,799	14,033
Trash fishes	3902	26,638	27,689	30,454	27,991	28,085	20,166
Swimming crabs	4201	406	394	432	409	340	330
Mangrove crab	4202						
Slipper lobsters	4302	127	114	190	148	156	134
Tiger prawn	4501	51	60	63	103	58	59
Penaeid prawns	4502	120	68	52	85	76	38
Other prawns	4503	2,337	2,137	1,956	1,761	1,965	1,660
Miscellaneous	4701	558	526	400	448	469	487
Scallops	5501	100	44	58	67	7	31
Cuttlefishes	5701	3,015	2,145	2,762	2,300	3,381	2,555
Squids	5702	2,378	2,393	2,643	2,340	2,300	1,747
Octopuses	5703	812	809	875	812	738	671
TOTAL (Tonnes)		77,668	61,414	90,721	62,960	96,470	86,494



## 2. MONTHLY CATCH-EFFORT STATISTICS 1999

### 2-1 Catch and Fishing Effort by Type of Fishing Gear and by Month

#### 2-1-3 Otter Trawl

(2) Thailand

Sub-area: Indian Ocean

Month		January	February	March	April	May	June
		January	February	March	April	May	June
Units of fishing effort							
No. of fishing units							
No. of trips		3,151	3,044	2,946	2,449	2,413	2,581
No. of days		25,788	24,446	23,096	24,789	23,844	22,574
No. of hauls		83,490	78,919	75,322	81,813	77,981	72,428
No. of hours		360,516	340,571	330,376	355,058	340,494	317,542
Total catch (Tonnes)		40,122	36,365	35,622	37,099	38,817	33,792
Species (group)	Code No.	January	February	March	April	May	June
Indian halibuts	3102	464	39	41	31	31	36
Tongue soles	3103	7,618	602	505	526	483	634
Marine catfishes	3301	3,332	314	272	257	263	313
Lizard fishes	3303	12,491	1,119	1,441	1,041	1,380	1,399
Sharp-toothed pike eels and conger eels	3304	1,141	74	106	77	74	75
Groupers	3305	1,133	106	101	90	108	113
Sillago whiting	3306	1,518	135	130	101	108	101
Red snappers	3307	3,117	275	289	265	299	291
Threadfin breams	3310	20,000	1,730	1,419	1,512	1,543	1,777
Drums and croakers	3313	17,865	1,545	1,328	1,473	1,400	1,600
Big-eye snappers	3316	9,593	908	753	862	726	912
Barracudas	3402	8,759	776	590	604	616	802
Mullets	3403						
Threadfins	3404						
Round scads	3405						
Jacks, cavallas and trevallies	3406	2,825	216	202	197	224	219
Selar scads	3407	151	51	19	8	7	12
Hardtail scad	3408						
Black pomfret	3410	444	45	40	15	31	30
White pomfret	3411	251	24	27	8	15	13
Sardines	3501						
Anchovies	3503	52	5	6	8	7	4
Wolf herring	3505	6,387	508	441	449	461	527
Longtail tuna	3604						
Eastern little tuna	3606						
Narrow-barred king mackerel	3609	2,095	163	126	140	129	156
Indian mackerel	3701	1,756	175	58	72	140	75
Indo-Pacific mackerel	3702	2,077	159	70	72	177	146
Hairtails	3703	7,491	619	483	460	366	617
Sharks	3801	3,008	197	190	231	174	223
Rays	3802	3,373	236	253	276	281	248
Miscellaneous fishes	3901	33,610	2,927	2,567	2,859	2,946	3,134
Trash fishes	3902	228,648	21,576	20,012	18,945	20,286	19,774
Swimming crabs	4201	1,665	176	153	154	169	137
Mangrove crab	4202						
Slipper lobsters	4302	37	2	6	7	7	4
Tiger prawn	4501	758	91	36	33	54	39
Penaeid prawns	4502	5,322	393	365	479	356	395
Other prawns	4503	9,404	911	812	708	849	805
Miscellaneous	4701	3,494	347	237	222	301	282
Scallops	5501	1					
Cuttlefishes	5701	16,487	1,469	1,289	1,304	1,229	1,491
Squids	5702	15,617	1,267	1,263	1,224	1,094	1,443
Octopuses	5703	10,649	942	735	912	765	990
TOTAL (Tonnes)		442,633	40,122	36,365	35,622	37,099	38,817

2. MONTHLY CATCH-EFFORT STATISTICS 1999

2-1 Catch and Fishing Effort by Type of Fishing Gear and by Month

2-1-3 Otter Trawl

(2) Thailand

Sub-area: Indian Ocean

		Month					
		July	August	September	October	November	December
Units of fishing effort							
No. of fishing units							
No. of trips		21,457	2,983	2,959	2,996	3,472	3,082
No. of days		98,046	23,668	23,739	21,744	22,184	22,019
No. of hauls		284,191	80,352	78,554	72,275	74,073	73,660
No. of hours		1,261,552	346,985	339,315	312,124	320,606	316,738
Total catch (Tonnes)		77,668	39,002	37,345	35,545	35,604	37,387
Species (group)	Code No.	July	August	September	October	November	December
Indian halibuts	3102	40	39	70	32	47	25
Tongue soles	3103	527	548	791	763	733	877
Marine catfishes	3301	236	206	314	277	321	325
Lizard fishes	3303	1,073	1,088	884	849	890	967
Sharp-toothed pike eels and conger eels	3304	89	235	100	69	102	75
Groupers	3305	96	94	80	81	92	76
Sillago whiting	3306	158	184	157	115	97	88
Red snappers	3307	254	249	232	237	239	249
Threadfin breams	3310	1,824	1,873	1,888	1,649	1,818	1,570
Drums and croakers	3313	1,350	1,652	1,597	1,627	1,465	1,493
Big-eye snappers	3316	782	782	654	748	717	952
Barracudas	3402	714	767	793	811	803	832
Mullets	3403						
Threadfins	3404						
Round scads	3405						
Jacks, cavallas and trevallies	3406	281	310	278	185	192	227
Selar scads	3407	10	5	8	12	11	7
Hardtail scad	3408						
Black pomfret	3410	50	37	51	40	52	14
White pomfret	3411	43	14	24	15	29	17
Sardines	3501						
Anchovies	3503	4	3	3	3	3	2
Wolf herring	3505	508	598	625	627	547	609
Longtail tuna	3604						
Eastern little tuna	3606						
Narrow-barred king mackerel	3609	137	200	232	198	238	230
Indian mackerel	3701	269	270	182	79	102	130
Indo-Pacific mackerel	3702	248	292	232	152	178	121
Hairtails	3703	579	735	700	826	712	820
Sharks	3801	219	273	267	354	292	367
Rays	3802	238	275	317	388	311	339
Miscellaneous fishes	3901	2,847	2,854	2,632	2,753	2,672	2,711
Trash fishes	3902	18,221	19,727	18,658	17,313	17,556	18,610
Swimming crabs	4201	163	134	133	110	107	101
Mangrove crab	4202						
Slipper lobsters	4302	1		2	2	1	1
Tiger prawn	4501	81	91	75	49	59	86
Penaeid prawns	4502	349	423	519	546	536	567
Other prawns	4503	847	901	764	603	665	730
Miscellaneous	4701	332	331	346	270	263	268
Scallops	5501						1
Cuttlefishes	5701	1,233	1,432	1,400	1,401	1,458	1,486
Squids	5702	1,288	1,484	1,375	1,403	1,273	1,405
Octopuses	5703	842	896	962	958	1,023	1,009
TOTAL (Tonnes)		35,933	39,002	37,345	35,545	35,604	37,387



2. MONTHLY CATCH-EFFORT STATISTICS 1999

2-1 Catch and Fishing Effort by Type of Fishing Gear and by Month

2-1-4 Beam Trawl

(1) Thailand

Sub-area: Gulf of Thailand

		Month					
		January	February	March	April	May	June
Units of fishing effort							
No. of fishing units							
No. of trips		1,412	1,208	1,499	1,721	1,741	1,806
No. of days		1,412	1,208	1,499	1,721	1,741	1,806
No. of hauls		7,736	6,973	9,478	12,583	10,894	8,285
No. of hours		8,339	7,415	10,015	13,254	11,551	8,862
Total catch (Tonnes)		251	209	137	191	206	201
Species (group)	Code No.	January	February	March	April	May	June
Indian halibuts	3102						
Tongue soles	3103						
Marine catfishes	3301	5	4				
Lizard fishes	3303						
Sharp-toothed pike eels and conger eels	3304						
Grouper	3305						
Sillago whiting	3306						
Red snappers	3307						
Threadfin breams	3310						
Drums and croakers	3313	5	3	5	9	7	6
Big-eye snappers	3316						
Barracudas	3402						
Mullets	3403						
Threadfins	3404						
Round scads	3405						
Jacks, cavallas and trevallies	3406						
Selar scads	3407						
Hardtail scad	3408						
Black pomfret	3410						
White pomfret	3411						
Sardines	3501						
Anchovies	3503						
Wolf herring	3505						
Longtail tuna	3604						
Eastern little tuna	3606						
Narrow-barred king mackerel	3609						
Indian mackerel	3701						
Indo-Pacific mackerel	3702						
Hairtails	3703						
Sharks	3801						
Rays	3802						
Miscellaneous fishes	3901	36	25	12	17	22	23
Trash fishes	3902		9	3	3		
Swimming crabs	4201	4	3	3	5	5	5
Mangrove crab	4202						
Slipper lobsters	4302						
Tiger prawn	4501						
Penaeid prawns	4502	44	14	29	41	42	41
Other prawns	4503	154	149	82	112	125	122
Miscellaneous	4701						
Scallops	5501						
Cuttlefishes	5701	2	1	1	2	3	2
Squids	5702	1					
Octopuses	5703		1	2	2	2	2
TOTAL (Tonnes)		251	209	137	191	206	201

2. MONTHLY CATCH-EFFORT STATISTICS 1999

2-1 Catch and Fishing Effort by Type of Fishing Gear and by Month

2-1-4 Beam Trawl

(1) Thailand

Sub-area: Gulf of Thailand

		Month					
		July	August	September	October	November	December
Units of fishing effort							
No. of fishing units							
No. of trips		1,531	1,341	1,382	1,369	820	764
No. of days		1,531	1,341	1,382	1,369	820	764
No. of hauls		9,455	8,452	7,484	6,465	4,098	4,936
No. of hours		10,058	8,922	8,020	6,894	4,098	4,936
Total catch (Tonnes)		168	147	157	110	24	23
Species (group)	Code No.	July	August	September	October	November	December
Indian halibuts	3102						
Tongue soles	3103						
Marine catfishes	3301						
Lizard fishes	3303						
Sharp-toothed pike eels and conger eels	3304						
Groupers	3305						
Sillago whiting	3306						
Red snappers	3307						
Threadfin breams	3310						
Drums and croakers	3313	5	4	5	3		
Big-eye snappers	3316						
Barracudas	3402						
Mulletts	3403						
Threadfins	3404						
Round scads	3405						
Jacks, cavallas and trevallies	3406						
Selar scads	3407						
Hardtail scad	3408						
Black pomfret	3410						
White pomfret	3411						
Sardines	3501						
Anchovies	3503						
Wolf herring	3505						
Longtail tuna	3604						
Eastern little tuna	3606						
Narrow-barred king mackerel	3609						
Indian mackerel	3701						
Indo-Pacific mackerel	3702						
Hairtails	3703						
Sharks	3801						
Rays	3802						
Miscellaneous fishes	3901	12	11	12	11	6	5
Trash fishes	3902						
Swimming crabs	4201	4	5	5	3		
Mangrove crab	4202						
Slipper lobsters	4302						
Tiger prawn	4501						
Penaeid prawns	4502	36	30	35	20		
Other prawns	4503	107	93	96	71	18	18
Miscellaneous	4701						
Scallops	5501						
Cuttlefishes	5701	2	2	2	1		
Squids	5702						
Octopuses	5703	2	2	2	1		
TOTAL (Tonnes)		168	147	157	110	24	23

## 2. MONTHLY CATCH-EFFORT STATISTICS 1999

### 2-1 Catch and Fishing Effort by Type of Fishing Gear and by Month

#### 2-1-5 Spanish Mackerel Drift Gill Net

(1) Thailand

Area: Gulf of Thailand and Indian Ocean

Units of fishing effort		Month					
		January	February	March	April	May	June
No. of fishing units							
No. of trips		1,511	1,394	1,337	1,326	1,476	1,381
No. of days		3,692	3,704	3,582	3,417	3,909	3,835
No. of hauls		4,560	4,286	4,223	3,936	4,534	4,437
No. of hours		28,798	29,288	27,697	26,148	30,791	28,904
Total catch (Tonnes)		1,362	1,401	1,299	1,397	1,204	1,232
Species (group)	Code No.	January	February	March	April	May	June
Indian halibuts	3102						
Tongue soles	3103						
Marine catfishes	3301						
Lizard fishes	3303						
Sharp-toothed pike eels and conger eels	3304						
Groupers	3305						
Sillago whiting	3306						
Red snappers	3307						
Threadfin breems	3310						
Drums and croakers	3313						
Big-eye snappers	3316						
Barracudas	3402						
Mullets	3403						
Threadfins	3404						
Round scads	3405						
Jacks, cavallas and trevallies	3406						
Selar scads	3407						
Hardtail scad	3408	1	1	1	1	1	1
Black pomfret	3410	11	12	13	14	14	15
White pomfret	3411						
Sardines	3501						
Anchovies	3503						
Wolf herring	3505	6	5	17	12	10	8
Longtail tuna	3604	497	554	473	449	367	459
Eastern little tuna	3606	418	483	459	575	483	347
Narrow-barred king mackerel	3609	381	312	304	318	297	370
Indian mackerel	3701						
Indo-Pacific mackerel	3702		1	1	1	1	
Hairtails	3703						
Sharks	3801	7	5	7	7	5	6
Rays	3802						
Miscellaneous fishes	3901	41	28	23	20	26	26
Trash fishes	3902			1			
Swimming crabs	4201						
Mangrove crab	4202						
Slipper lobsters	4302						
Tiger prawn	4501						
Penaeid prawns	4502						
Other prawns	4503						
Miscellaneous	4701						
Scallops	5501						
Cuttlefishes	5701						
Squids	5702						
Octopuses	5703						
TOTAL (Tonnes)		1,362	1,401	1,299	1,397	1,204	1,232

## 2. MONTHLY CATCH-EFFORT STATISTICS 1999

### 2-1 Catch and Fishing Effort by Type of Fishing Gear and by Month

#### 2-1-5 Spanish Mackerel Drift Gill Net

(1) Thailand

Area: Gulf of Thailand and Indian Ocean

Units of fishing effort		Month					
		July	August	September	October	November	December
No. of fishing units							
No. of trips		1,530	1,428	1,404	1,259	1,309	1,340
No. of days		4,029	3,699	3,537	2,959	3,231	2,851
No. of hauls		4,767	4,368	3,735	3,178	3,527	3,344
No. of hours		31,310	27,060	26,454	22,775	23,086	22,940
Total catch (Tonnes)		1,181	1,319	1,367	1,253	1,018	515
Species (group)	Code No.	July	August	September	October	November	December
Indian halibuts	3102						
Tongue soles	3103						
Marine catfishes	3301						
Lizard fishes	3303						
Sharp-toothed pike eels and conger eels	3304						
Groupers	3305						
Sillago whiting	3306						
Red snappers	3307						
Threadfin breams	3310						
Drums and croakers	3313						
Big-eye snappers	3316						
Barracudas	3402						
Mullets	3403						
Threadfins	3404						
Round scads	3405						
Jacks, cavallas and trevallies	3406						
Selar scads	3407						
Hardtail scad	3408	1	1	1	1	1	1
Black pomfret	3410	14	12	14	12	10	7
White pomfret	3411						
Sardines	3501						
Anchovies	3503						
Wolf herring	3505	10	11	20	6	5	
Longtail tuna	3604	334	352	543	445	301	142
Eastern little tuna	3606	415	510	386	475	409	176
Narrow-barred king mackerel	3609	375	406	375	285	268	167
Indian mackerel	3701						
Indo-Pacific mackerel	3702			1		1	
Hairtails	3703						
Sharks	3801	5	7	7	7	5	
Rays	3802						
Miscellaneous fishes	3901	27	20	20	22	18	22
Trash fishes	3902						
Swimming crabs	4201						
Mangrove crab	4202						
Slipper lobsters	4302						
Tiger prawn	4501						
Penaeid prawns	4502						
Other prawns	4503						
Miscellaneous	4701						
Scallops	5501						
Cuttlefishes	5701						
Squids	5702						
Octopuses	5703						
TOTAL (Tonnes)		1,181	1,319	1,367	1,253	1,018	515



2. MONTHLY CATCH-EFFORT STATISTICS 1999

2-1 Catch and Fishing Effort by Type of Fishing Gear and by Month

2-1-5 Spanish Mackerel Drift Gill Net

(1) Thailand

Sub-area: Gulf of Thailand

		Month					
		January	February	March	April	May	June
Units of fishing effort							
No. of fishing units							
No. of trips		522	528	509	501	567	527
No. of days		2,638	2,769	2,685	2,488	2,929	2,868
No. of hauls		2,964	3,025	2,880	2,704	3,271	3,176
No. of hours		21,844	23,377	21,987	20,408	24,638	22,786
Total catch (Tonnes)		1,127	1,241	1,152	1,257	1,051	1,077
Species (group)	Code No.	January	February	March	April	May	June
Indian halibuts	3102						
Tongue soles	3103						
Marine catfishes	3301						
Lizard fishes	3303						
Sharp-toothed pike eels and conger eels	3304						
Groupers	3305						
Sillago whiting	3306						
Red snappers	3307						
Threadfin breams	3310						
Drums and croakers	3313						
Big-eye snappers	3316						
Barracudas	3402						
Mulletts	3403						
Threadfins	3404						
Round scads	3405						
Jacks, cavallas and trevallies	3406						
Selar scads	3407						
Hardtail scad	3408						
Black pomfret	3410	7	7	9	10	9	10
White pomfret	3411						
Sardines	3501						
Anchovies	3503						
Wolf herring	3505	6	5	17	12	10	8
Longtail tuna	3604	445	498	420	396	310	403
Eastern little tuna	3606	418	482	458	575	483	346
Narrow-barred king mackerel	3609	238	237	234	250	226	298
Indian mackerel	3701						
Indo-Pacific mackerel	3702		1	1	1	1	
Hairtails	3703						
Sharks	3801	7	5	7	7	5	6
Rays	3802						
Miscellaneous fishes	3901	6	6	5	6	7	6
Trash fishes	3902			1			
Swimming crabs	4201						
Mangrove crab	4202						
Slipper lobsters	4302						
Tiger prawn	4501						
Penaeid prawns	4502						
Other prawns	4503						
Miscellaneous	4701						
Scallops	5501						
Cuttlefishes	5701						
Squids	5702						
Octopuses	5703						
TOTAL (Tonnes)		1,127	1,241	1,152	1,257	1,051	1,077



## 2. MONTHLY CATCH-EFFORT STATISTICS 1999

### 2-1 Catch and Fishing Effort by Type of Fishing Gear and by Month

#### 2-1-5 Spanish Mackerel Drift Gill Net

(1) Thailand

Sub-area: Gulf of Thailand

		Month					
		July	August	September	October	November	December
Units of fishing effort							
No. of fishing units							
No. of trips		582	568	539	450	506	505
No. of days		3,012	2,839	2,672	2,150	2,428	2,016
No. of hauls		3,122	3,426	2,794	2,274	2,648	2,415
No. of hours		24,928	21,902	21,257	17,917	18,304	17,368
Total catch (Tonnes)		1,012	1,169	1,212	1,109	876	362
Species (group)	Code No.	July	August	September	October	November	December
Indian halibuts	3102						
Tongue soles	3103						
Marine catfishes	3301						
Lizard fishes	3303						
Sharp-toothed pike eels and conger eels	3304						
Groupers	3305						
Sillago whiting	3306						
Red snappers	3307						
Threadfin breams	3310						
Drums and croakers	3313						
Big-eye snappers	3316						
Barracudas	3402						
Mulletts	3403						
Threadfins	3404						
Round scads	3405						
Jacks, cavallas and trevallies	3406						
Selar scads	3407						
Hardtail scad	3408	1					
Black pomfret	3410	5	7	9	7	6	2
White pomfret	3411						
Sardines	3501						
Anchovies	3503						
Wolf herring	3505		11	20	6	5	
Longtail tuna	3604	61	293	484	393	247	87
Eastern little tuna	3606		510	386	475	409	176
Narrow-barred king mackerel	3609	82	335	299	214	198	94
Indian mackerel	3701						
Indo-Pacific mackerel	3702			1		1	
Hairtails	3703						
Sharks	3801		7	7	7	5	
Rays	3802						
Miscellaneous fishes	3901	20	6	6	7	5	3
Trash fishes	3902						
Swimming crabs	4201						
Mangrove crab	4202						
Slipper lobsters	4302						
Tiger prawn	4501						
Penaeid prawns	4502						
Other prawns	4503						
Miscellaneous	4701						
Scallops	5501						
Cuttlefishes	5701						
Squids	5702						
Octopuses	5703						
TOTAL (Tonnes)		169	1,169	1,212	1,109	876	362

## 2. MONTHLY CATCH-EFFORT STATISTICS 1999

### 2-1 Catch and Fishing Effort by Type of Fishing Gear and by Month

#### 2-1-5 Spanish Mackerel Drift Gill Net

(1) Thailand

Sub-area: Indian Ocean

		Month					
		January	February	March	April	May	June
Units of fishing effort							
No. of fishing units							
No. of trips		989	866	828	825	909	854
No. of days		1,054	935	897	929	980	967
No. of hauls		1,596	1,261	1,343	1,232	1,263	1,261
No. of hours		6,954	5,911	5,710	5,740	6,153	6,118
Total catch (Tonnes)		235	160	147	140	153	155
Species (group)	Code No.	January	February	March	April	May	June
Indian halibuts	3102						
Tongue soles	3103						
Marine catfishes	3301						
Lizard fishes	3303						
Sharp-toothed pike eels and conger eels	3304						
Groupers	3305						
Sillago whiting	3306						
Red snappers	3307						
Threadfin breams	3310						
Drums and croakers	3313						
Big-eye snappers	3316						
Barracudas	3402						
Mullets	3403						
Threadfins	3404						
Round scads	3405						
Jacks, cavallas and trevallies	3406						
Selar scads	3407						
Hardtail scad	3408	1	1	1	1	1	1
Black pomfret	3410	4	5	4	4	5	5
White pomfret	3411						
Sardines	3501						
Anchovies	3503						
Wolf herring	3505						
Longtail tuna	3604	52	56	53	53	57	56
Eastern little tuna	3606		1	1			1
Narrow-barred king mackerel	3609	143	75	70	68	71	72
Indian mackerel	3701						
Indo-Pacific mackerel	3702						
Hairtails	3703						
Sharks	3801						
Rays	3802						
Miscellaneous fishes	3901	35	22	18	14	19	20
Trash fishes	3902						
Swimming crabs	4201						
Mangrove crab	4202						
Slipper lobsters	4302						
Tiger prawn	4501						
Penaeid prawns	4502						
Other prawns	4503						
Miscellaneous	4701						
Scallops	5501						
Cuttlefishes	5701						
Squids	5702						
Octopuses	5703						
TOTAL (Tonnes)		235	160	147	140	153	155

## 2 MONTHLY CATCH-EFFORT STATISTICS 1999

### 2-1 Catch and Fishing Effort by Type of Fishing Gear and by Month

#### 2-1-5 Spanish Mackerel Drift Gill Net

(1) Thailand

Sub-area: Indian Ocean

		Month					
		July	August	September	October	November	December
Units of fishing effort							
No. of fishing units							
No. of trips		948	860	865	809	803	835
No. of days		1,017	860	865	809	803	835
No. of hauls		1,645	942	941	904	879	929
No. of hours		6,382	5,158	5,197	4,858	4,782	5,572
Total catch (Tonnes)		169	150	155	144	142	153
Species (group)	Code No.	July	August	September	October	November	December
Indian halibuts	3102						
Tongue soles	3103						
Marine catfishes	3301						
Lizard fishes	3303						
Sharp-toothed pike eels and conger eels	3304						
Groupers	3305						
Sillago whiting	3306						
Red snappers	3307						
Threadfin breams	3310						
Drums and croakers	3313						
Big-eye snappers	3316						
Barracudas	3402						
Mulletts	3403						
Threadfins	3404						
Round scads	3405						
Jacks, cavallas and trevallies	3406						
Selar scads	3407						
Hardtail scad	3408	1	1	1	1	1	1
Black pomfret	3410	5	5	5	5	4	5
White pomfret	3411						
Sardines	3501						
Anchovies	3503						
Wolf herring	3505						
Longtail tuna	3604	61	59	59	52	54	55
Eastern little tuna	3606						
Narrow-barred king mackerel	3609	82	71	76	71	70	73
Indian mackerel	3701						
Indo-Pacific mackerel	3702						
Hairtails	3703						
Sharks	3801						
Rays	3802						
Miscellaneous fishes	3901	20	14	14	15	13	19
Trash fishes	3902						
Swimming crabs	4201						
Mangrove crab	4202						
Slipper lobsters	4302						
Tiger prawn	4501						
Penaeid prawns	4502						
Other prawns	4503						
Miscellaneous	4701						
Scallops	5501						
Cuttlefishes	5701						
Squids	5702						
Octopuses	5703						
TOTAL (Tonnes)		169	150	155	144	142	153

## 2. MONTHLY CATCH-EFFORT STATISTICS 1999

### 2-1 Catch and Fishing Effort by Type of Fishing Gear and by Month

#### 2-1-6 Mackerel Encircling Gill Net

(1) Thailand

Area: Gulf of Thailand and Indian Ocean

		Month					
		January	February	March	April	May	June
Units of fishing effort							
No. of fishing units							
No. of trips		1,815	1,358	1,269	1,299	634	2,096
No. of days		1,815	1,491	1,388	1,402	782	2,096
No. of hauls		3,820	2,927	2,750	2,474	1,186	4,335
No. of hours		7,446	5,752	5,451	6,579	4,181	11,191
Total catch (Tonnes)		1,089	669	357	473	365	1,391
Species (group)	Code No.	January	February	March	April	May	June
Indian halibuts	3102						
Tongue soles	3103						
Marine catfishes	3301						
Lizard fishes	3303						
Sharp-toothed pike eels and conger eels	3304						
Groupers	3305						
Sillago whiting	3306						
Red snappers	3307						
Threadfin breams	3310						
Drums and croakers	3313						
Big-eye snappers	3316						
Barracudas	3402						
Mulletts	3403						
Threadfins	3404						
Round scads	3405						
Jacks, cavallas and trevallies	3406						
Selar scads	3407						
Hardtail scad	3408						
Black pomfret	3410						
White pomfret	3411						
Sardines	3501	16	29	23	173	185	229
Anchovies	3503						
Wolf herring	3505						
Longtail tuna	3604						
Eastern little tuna	3606						
Narrow-barred king mackerel	3609						
Indian mackerel	3701	45	34	43	38		48
Indo-Pacific mackerel	3702	1,028	606	291	262	180	1,114
Hairtails	3703						
Sharks	3801						
Rays	3802						
Miscellaneous fishes	3901						
Trash fishes	3902						
Swimming crabs	4201						
Mangrove crab	4202						
Slipper lobsters	4302						
Tiger prawn	4501						
Penaeid prawns	4502						
Other prawns	4503						
Miscellaneous	4701						
Scallops	5501						
Cuttlefishes	5701						
Squids	5702						
Octopuses	5703						
TOTAL (Tonnes)		1,089	669	357	473	365	1,391



2. MONTHLY CATCH-EFFORT STATISTICS 1999

2-1 Catch and Fishing Effort by Type of Fishing Gear and by Month

2-1-6 Mackerel Encircling Gill Net

(1) Thailand

Area: Gulf of Thailand and Indian Ocean

		Month					
		July	August	September	October	November	December
Units of fishing effort							
No. of fishing units							
No. of trips		2,081	1,963	2,008	1,506	1,919	1,934
No. of days		2,081	1,963	2,008	1,506	1,919	1,934
No. of hauls		4,085	3,942	4,174	3,179	3,772	3,993
No. of hours		10,770	10,594	10,224	7,353	9,802	11,439
Total catch (Tonnes)		1,394	1,309	1,373	942	1,121	1,258
Species (group)	Code No.	July	August	September	October	November	December
Indian halibuts	3102						
Tongue soles	3103						
Marine catfishes	3301						
Lizard fishes	3303						
Sharp-toothed pike eels and conger eels	3304						
Groupers	3305						
Sillago whiting	3306						
Red snappers	3307						
Threadfin breams	3310						
Drums and croakers	3313						
Big-eye snappers	3316						
Barracudas	3402						
Mullets	3403						
Threadfins	3404						
Round scads	3405						
Jacks, cavallas and trevallies	3406					130	
Selar scads	3407						
Hardtail scad	3408						
Black pomfret	3410						
White pomfret	3411						
Sardines	3501	253	258	311		40	208
Anchovies	3503						
Wolf herring	3505						
Longtail tuna	3604						
Eastern little tuna	3606						
Narrow-barred king mackerel	3609						
Indian mackerel	3701	45	43	45	45	43	44
Indo-Pacific mackerel	3702	1,096	1,008	1,017	897	908	1,006
Hairtails	3703						
Sharks	3801						
Rays	3802						
Miscellaneous fishes	3901						
Trash fishes	3902						
Swimming crabs	4201						
Mangrove crab	4202						
Slipper lobsters	4302						
Tiger prawn	4501						
Penaeid prawns	4502						
Other prawns	4503						
Miscellaneous	4701						
Scallops	5501						
Cuttlefishes	5701						
Squids	5702						
Octopuses	5703						
TOTAL (Tonnes)		1,394	1,309	1,373	942	1,121	1,258



## 2. MONTHLY CATCH-EFFORT STATISTICS 1999

### 2-1 Catch and Fishing Effort by Type of Fishing Gear and by Month

#### 2-1-6 Mackerel Encircling Gill Net

(1) Thailand

Sub-area: Gulf of Thailand

		Month					
		January	February	March	April	May	June
Units of fishing effort							
No. of fishing units							
No. of trips		1,653	1,196	1,092	1,137	457	1,934
No. of days		1,653	1,329	1,211	1,240	605	1,934
No. of hauls		3,554	2,691	2,455	2,208	905	4,069
No. of hours		7,446	5,752	5,451	6,579	4,181	11,191
Total catch (Tonnes)		1,075	656	344	457	347	1,376
Species (group)	Code No.	January	February	March	April	May	June
Indian halibuts	3102						
Tongue soles	3103						
Marine catfishes	3301						
Lizard fishes	3303						
Sharp-toothed pike eels and conger eels	3304						
Groupers	3305						
Sillago whiting	3306						
Red snappers	3307						
Threadfin breams	3310						
Drums and croakers	3313						
Big-eye snappers	3316						
Barracudas	3402						
Mullets	3403						
Threadfins	3404						
Round scads	3405						
Jacks, cavallas and trevallies	3406						
Selar scads	3407						
Hardtail scad	3408						
Black pomfret	3410						
White pomfret	3411						
Sardines	3501	16	29	23	173	185	229
Anchovies	3503						
Wolf herring	3505						
Longtail tuna	3604						
Eastern little tuna	3606						
Narrow-barred king mackerel	3609						
Indian mackerel	3701	45	34	43	38		48
Indo-Pacific mackerel	3702	1,014	593	278	246	162	1,099
Hairtails	3703						
Sharks	3801						
Rays	3802						
Miscellaneous fishes	3901						
Trash fishes	3902						
Swimming crabs	4201						
Mangrove crab	4202						
Slipper lobsters	4302						
Tiger prawn	4501						
Penaeid prawns	4502						
Other prawns	4503						
Miscellaneous	4701						
Scallops	5501						
Cuttlefishes	5701						
Squids	5702						
Octopuses	5703						
TOTAL (Tonnes)		1,075	656	344	457	347	1,376

2. MONTHLY CATCH-EFFORT STATISTICS 1999

2-1 Catch and Fishing Effort by Type of Fishing Gear and by Month

2-1-6 Mackerel Encircling Gill Net

(1) Thailand

Sub-area: Gulf of Thailand

		Month					
		July	August	September	October	November	December
Units of fishing effort							
No. of fishing units							
No. of trips		1,904	1,771	1,846	1,329	1,742	1,757
No. of days		1,904	1,771	1,846	1,329	1,742	1,757
No. of hauls		3,819	3,647	3,923	2,913	3,491	3,698
No. of hours		10,239	9,442	9,250	6,290	9,802	9,667
Total catch (Tonnes)		1,366	1,287	1,353	919	1,099	1,235
Species (group)	Code No.	July	August	September	October	November	December
Indian halibuts	3102						
Tongue soles	3103						
Marine catfishes	3301						
Lizard fishes	3303						
Sharp-toothed pike eels and conger eels	3304						
Groupers	3305						
Sillago whiting	3306						
Red snappers	3307						
Threadfin breams	3310						
Drums and croakers	3313						
Big-eye snappers	3316						
Barracudas	3402						
Mulletts	3403						
Threadfins	3404						
Round scads	3405						
Jacks, cavallas and trevallies	3406					130	
Selar scads	3407						
Hardtail scad	3408						
Black pomfret	3410						
White pomfret	3411						
Sardines	3501	253	258	311		40	208
Anchovies	3503						
Wolf herring	3505						
Longtail tuna	3604						
Eastern little tuna	3606						
Narrow-barred king mackerel	3609						
Indian mackerel	3701	45	43	45	45	43	44
Indo-Pacific mackerel	3702	1,068	986	997	874	886	983
Hairtails	3703						
Sharks	3801						
Rays	3802						
Miscellaneous fishes	3901						
Trash fishes	3902						
Swimming crabs	4201						
Mangrove crab	4202						
Slipper lobsters	4302						
Tiger prawn	4501						
Penaeid prawns	4502						
Other prawns	4503						
Miscellaneous	4701						
Scallops	5501						
Cuttlefishes	5701						
Squids	5702						
Octopuses	5703						
TOTAL (Tonnes)		1,366	1,287	1,353	919	1,099	1,235

2. MONTHLY CATCH-EFFORT STATISTICS 1999

2-1 Catch and Fishing Effort by Type of Fishing Gear and by Month

2-1-6 Mackerel Encircling Gill Net

(1) Thailand

Sub-area: Indian Ocean

		Month					
		January	February	March	April	May	June
Units of fishing effort							
No. of fishing units							
No. of trips		162	162	177	162	177	162
No. of days		162	162	177	162	177	162
No. of hauls		266	236	295	268	281	266
No. of hours							
Total catch (Tonnes)		14	13	13	16	18	15
Species (group)	Code No.	January	February	March	April	May	June
Indian halibuts	3102						
Tongue soles	3103						
Marine catfishes	3301						
Lizard fishes	3303						
Sharp-toothed pike eels and conger eels	3304						
Groupers	3305						
Sillago whiting	3306						
Red snappers	3307						
Threadfin breems	3310						
Drums and croakers	3313						
Big-eye snappers	3316						
Barracudas	3402						
Mulletts	3403						
Threadfins	3404						
Round scads	3405						
Jacks, cavallas and trevallies	3406						
Selar scads	3407						
Hardtail scad	3408						
Black pomfret	3410						
White pomfret	3411						
Sardines	3501						
Anchovies	3503						
Wolf herring	3505						
Longtail tuna	3604						
Eastern little tuna	3606						
Narrow-barred king mackerel	3609						
Indian mackerel	3701						
Indo-Pacific mackerel	3702	14	13	13	16	18	15
Hairtails	3703						
Sharks	3801						
Rays	3802						
Miscellaneous fishes	3901						
Trash fishes	3902						
Swimming crabs	4201						
Mangrove crab	4202						
Slipper lobsters	4302						
Tiger prawn	4501						
Penaeid prawns	4502						
Other prawns	4503						
Miscellaneous	4701						
Scallops	5501						
Cuttlefishes	5701						
Squids	5702						
Octopuses	5703						
TOTAL (Tonnes)		14	13	13	16	18	15

## 2. MONTHLY CATCH-EFFORT STATISTICS 1999

### 2-1 Catch and Fishing Effort by Type of Fishing Gear and by Month

#### 2-1-6 Mackerel Encircling Gill Net

(1) Thailand

Sub-area: Indian Ocean

		Month					
		July	August	September	October	November	December
Units of fishing effort							
No. of fishing units							
No. of trips		177	192	162	177	177	177
No. of days		177	192	162	177	177	177
No. of hauls		266	295	251	266	281	295
No. of hours		531	1,152	974	1,063		1,772
Total catch (Tonnes)		28	22	20	23	22	23
Species (group)	Code No.	July	August	September	October	November	December
Indian halibuts	3102						
Tongue soles	3103						
Marine catfishes	3301						
Lizard fishes	3303						
Sharp-toothed pike eels and conger eels	3304						
Groupers	3305						
Sillago whiting	3306						
Red snappers	3307						
Threadfin breams	3310						
Drums and croakers	3313						
Big-eye snappers	3316						
Barracudas	3402						
Mullets	3403						
Threadfins	3404						
Round scads	3405						
Jacks, cavallas and trevallies	3406						
Selar scads	3407						
Hardtail scad	3408						
Black pomfret	3410						
White pomfret	3411						
Sardines	3501						
Anchovies	3503						
Wolf herring	3505						
Longtail tuna	3604						
Eastern little tuna	3606						
Narrow-barred king mackerel	3609						
Indian mackerel	3701						
Indo-Pacific mackerel	3702	28	22	20	23	22	23
Hairtails	3703						
Sharks	3801						
Rays	3802						
Miscellaneous fishes	3901						
Trash fishes	3902						
Swimming crabs	4201						
Mangrove crab	4202						
Slipper lobsters	4302						
Tiger prawn	4501						
Penaeid prawns	4502						
Other prawns	4503						
Miscellaneous	4701						
Scallops	5501						
Cuttlefishes	5701						
Squids	5702						
Octopuses	5703						
TOTAL (Tonnes)		28	22	20	23	22	23



## 2. MONTHLY CATCH-EFFORT STATISTICS 1999

### 2-1 Catch and Fishing Effort by Type of Fishing Gear and by Month

#### 2-1-7 Bamboo Stake Trap

(1) Thailand

Sub-area: Gulf of Thailand

		Month	January	February	March	April	May	June
		January	February	March	April	May	June	
Units of fishing effort								
No. of fishing units								
No. of trips			1,299	1,301	522	910	994	1,029
No. of days			1,201	1,272	529	867	1,003	1,029
No. of hauls						243	272	257
No. of hours								
Total catch (Tonnes)			268	304	81	94	160	127
Species (group)	Code No.	January	February	March	April	May	June	
Indian halibuts	3102							
Tongue soles	3103							
Marine catfishes	3301							
Lizard fishes	3303							
Sharp-toothed pike eels and conger eels	3304							
Groupers	3305							
Sillago whiting	3306							
Red snappers	3307							
Threadfin breams	3310							
Drums and croakers	3313	3	3		1			
Big-eye snappers	3316							
Barracudas	3402							
Mullets	3403							
Threadfins	3404							
Round scads	3405							
Jacks, cavallas and trevallies	3406		33	13	7		3	
Selar scads	3407							
Hardtail scad	3408	45	50			5		
Black pomfret	3410							
White pomfret	3411							
Sardines	3501	14	18	1	11	5	6	
Anchovies	3503				3	72	50	
Wolf herring	3505							
Longtail tuna	3604							
Eastern little tuna	3606							
Narrow-barred king mackerel	3609				1	1		
Indian mackerel	3701	1	1	1				
Indo-Pacific mackerel	3702	18	19	2	5	7	6	
Hairtails	3703				1	2	3	
Sharks	3801							
Rays	3802							
Miscellaneous fishes	3901	3	4	2	5	11	4	
Trash fishes	3902	176	167	57	55	50	51	
Swimming crabs	4201							
Mangrove crab	4202							
Slipper lobsters	4302							
Tiger prawn	4501							
Penaeid prawns	4502							
Other prawns	4503							
Miscellaneous	4701							
Scallops	5501							
Cuttlefishes	5701	3	4	2	2	3	1	
Squids	5702	5	5	3	3	4	3	
Octopuses	5703							
TOTAL (Tonnes)		268	304	81	94	160	127	



## 2. MONTHLY CATCH-EFFORT STATISTICS 1999

### 2-1 Catch and Fishing Effort by Type of Fishing Gear and by Month

#### 2-1-7 Bamboo Stake Trap

(1) Thailand

Sub-area: Gulf of Thailand

Units of fishing effort		Month					
		July	August	September	October	November	December
No. of fishing units							
No. of trips		1,050	1,162	727	1,317	1,108	976
No. of days		1,050	1,083	727	1,317	1,108	976
No. of hauls		174	243	176	122	156	32
No. of hours							
Total catch (Tonnes)		182	78	64	280	294	254
Species (group)	Code No.	July	August	September	October	November	December
Indian halibuts	3102						
Tongue soles	3103						
Marine catfishes	3301						
Lizard fishes	3303						
Sharp-toothed pike eels and conger eels	3304						
Groupers	3305						
Sillago whiting	3306						
Red snappers	3307						
Threadfin breams	3310						
Drums and croakers	3313		1		1	1	2
Big-eye snappers	3316						
Barracudas	3402						
Mullets	3403						
Threadfins	3404						
Round scads	3405						
Jacks, cavallas and trevallies	3406	1	3	3		12	4
Selar scads	3407						
Hardtail scad	3408				46	51	46
Black pomfret	3410						
White pomfret	3411						
Sardines	3501	18	17	11	15	18	37
Anchovies	3503	88	2	3	43	42	
Wolf herring	3505						
Longtail tuna	3604						
Eastern little tuna	3606						
Narrow-barred king mackerel	3609						
Indian mackerel	3701	2	1		3	1	1
Indo-Pacific mackerel	3702	7	8	8	18	18	20
Hairtails	3703	3	2	1		1	
Sharks	3801						
Rays	3802						
Miscellaneous fishes	3901	4	6	6	12	8	5
Trash fishes	3902	53	32	28	136	133	129
Swimming crabs	4201						
Mangrove crab	4202						
Slipper lobsters	4302						
Tiger prawn	4501						
Penaeid prawns	4502						
Other prawns	4503						
Miscellaneous	4701						
Scallops	5501						
Cuttlefishes	5701	2	2	1	3	3	4
Squids	5702	4	4	3	3	6	6
Octopuses	5703						
TOTAL (Tonnes)		182	78	64	280	294	254

## 2. MONTHLY CATCH-EFFORT STATISTICS 1999

### 2-1 Catch and Fishing Effort by Type of Fishing Gear and by Month

#### 2-1-8 Mechanised Push Net

(1) Thailand

Area: Gulf of Thailand and Indian Ocean

Month		January	February	March	April	May	June
		January	February	March	April	May	June
Units of fishing effort							
No. of fishing units							
No. of trips		8,067	7,335	8,180	7,337	8,410	7,767
No. of days		9,268	8,465	9,481	8,638	9,968	9,162
No. of hauls		59,116	53,382	60,488	55,629	62,733	52,278
No. of hours		91,450	79,261	95,149	86,862	98,726	84,920
Total catch (Tonnes)		2,812	2,516	2,564	2,526	2,925	2,511
Species (group)	Code No.	January	February	March	April	May	June
Indian halibuts	3102						
Tongue soles	3103						
Marine catfishes	3301	36	22	21	25	15	20
Lizard fishes	3303						
Sharp-toothed pike eels and conger eels	3304						
Grouper	3305						
Sillago whiting	3306	9	8	8	8	9	6
Red snappers	3307						
Threadfin breems	3310						
Drums and croakers	3313	45	45	35	39	47	46
Big-eye snappers	3316						
Barracudas	3402					2	2
Mullet	3403						
Threadfins	3404						
Round scads	3405						
Jacks, cavallas and trevallies	3406						
Selar scads	3407						
Hardtail scad	3408						
Black pomfret	3410						
White pomfret	3411						
Sardines	3501						
Anchovies	3503	103	99		12	20	179
Wolf herring	3505	2	1	2	3	3	2
Longtail tuna	3604						
Eastern little tuna	3606						
Narrow-barred king mackerel	3609						
Indian mackerel	3701						
Indo-Pacific mackerel	3702						
Hairtails	3703						
Sharks	3801						
Rays	3802						
Miscellaneous fishes	3901	182	183	166	201	203	152
Trash fishes	3902	1,211	1,130	1,069	957	1,117	950
Swimming crabs	4201	72	75	84	88	107	92
Mangrove crab	4202	5	1			5	
Slipper lobsters	4302						
Tiger prawn	4501	8	8	5	8	16	8
Penaeid prawns	4502	148	125	104	122	159	130
Other prawns	4503	829	668	888	865	985	688
Miscellaneous	4701	10	8	8	10	12	14
Scallops	5501						
Cuttlefishes	5701	71	71	76	73	113	113
Squids	5702	34	29	56	63	54	47
Octopuses	5703	47	43	42	52	58	62
TOTAL (Tonnes)		2,812	2,516	2,564	2,526	2,925	2,511

## 2. MONTHLY CATCH-EFFORT STATISTICS 1999

### 2-1 Catch and Fishing Effort by Type of Fishing Gear and by Month

#### 2-1-8 Mechanised Push Net

(1) Thailand

Area: Gulf of Thailand and Indian Ocean

		Month					
		July	August	September	October	November	December
Units of fishing effort							
No. of fishing units							
No. of trips		7,823	7,071	7,653	7,664	7,436	6,753
No. of days		8,952	8,476	8,611	8,307	7,922	6,753
No. of hauls		53,611	51,880	53,598	50,909	49,206	45,114
No. of hours		80,777	78,508	77,950	76,873	72,070	61,482
Total catch (Tonnes)		2,734	2,493	2,655	1,862	1,944	1,379
Species (group)	Code No.	July	August	September	October	November	December
Indian halibuts	3102						
Tongue soles	3103						
Marine catfishes	3301	17	12	8	11	11	9
Lizard fishes	3303						
Sharp-toothed pike eels and conger eels	3304						
Groupers	3305						
Sillago whiting	3306	11	6	3	2	6	2
Red snappers	3307						
Threadfin breams	3310	54	44	44	44	44	50
Drums and croakers	3313						
Big-eye snappers	3316	7	4	2	3	3	1
Barracudas	3402						
Mulletts	3403						
Threadfins	3404						
Round scads	3405						
Jacks, cavallas and trevallies	3406						
Selar scads	3407						
Hardtail scad	3408						
Black pomfret	3410						
White pomfret	3411						
Sardines	3501	203	263	208		3	2
Anchovies	3503	2	3	1	1	1	
Wolf herring	3505						
Longtail tuna	3604						
Eastern little tuna	3606						
Narrow-barred king mackerel	3609						
Indian mackerel	3701						
Indo-Pacific mackerel	3702						
Hairtails	3703						
Sharks	3801						
Rays	3802	148	123	116	173	120	63
Miscellaneous fishes	3901	876	760	772	715	819	657
Trash fishes	3902	79	79	74	64	77	51
Swimming crabs	4201						
Mangrove crab	4202						1
Slipper lobsters	4302	11	8	10	11	11	5
Tiger prawn	4501	276	120	122	98	104	66
Penaeid prawns	4502	855	887	1,090	561	550	356
Other prawns	4503	7	7	7	5	5	3
Miscellaneous	4701						
Scallops	5501	97	79	89	70	77	52
Cuttlefishes	5701	42	46	46	45	51	23
Squids	5702	49	52	63	59	62	38
Octopuses	5703						
TOTAL (Tonnes)		2,734	2,493	2,655	1,862	1,944	1,379

## 2. MONTHLY CATCH-EFFORT STATISTICS 1999

### 2-1 Catch and Fishing Effort by Type of Fishing Gear and by Month

#### 2-1-8 Mechanised Push Net

(1) Thailand

Sub-area: Gulf of Thailand

		Month					
		January	February	March	April	May	June
Units of fishing effort							
No. of fishing units							
No. of trips		6,479	5,963	6,635	5,707	7,094	6,326
No. of days		7,680	7,093	7,936	7,008	8,652	7,721
No. of hauls		50,107	45,517	51,093	46,005	54,783	46,486
No. of hours		77,807	67,610	82,254	73,160	87,572	75,488
Total catch (Tonnes)		2,246	2,054	2,093	1,923	2,386	2,129
Species (group)	Code No.	January	February	March	April	May	June
Indian halibuts	3102						
Tongue soles	3103						
Marine catfishes	3301	1	1	2	2	3	4
Lizard fishes	3303						
Sharp-toothed pike eels and conger eels	3304						
Groupers	3305						
Sillago whiting	3306						
Red snappers	3307						
Threadfin breams	3310						
Drums and croakers	3313	28	24	23	25	32	29
Big-eye snappers	3316						
Barracudas	3402					1	
Mulletts	3403						
Threadfins	3404						
Round scads	3405						
Jacks, cavallas and trevallies	3406						
Selar scads	3407						
Hardtail scad	3408						
Black pomfret	3410						
White pomfret	3411						
Sardines	3501						
Anchovies	3503	103	99		12	20	179
Wolf herring	3505	2	1	2	2	3	2
Longtail tuna	3604						
Eastern little tuna	3606						
Narrow-barred king mackerel	3609						
Indian mackerel	3701						
Indo-Pacific mackerel	3702						
Hairtails	3703						
Sharks	3801						
Rays	3802						
Miscellaneous fishes	3901	99	121	112	142	155	111
Trash fishes	3902	977	916	875	735	922	833
Swimming crabs	4201	60	65	75	76	98	82
Mangrove crab	4202	5	1			5	
Slipper lobsters	4302						
Tiger prawn	4501	1			1	1	2
Penaeid prawns	4502	130	102	84	95	123	114
Other prawns	4503	717	606	775	677	830	586
Miscellaneous	4701		1	1		3	
Scallops	5501						
Cuttlefishes	5701	58	64	66	67	104	104
Squids	5702	29	24	50	56	47	39
Octopuses	5703	36	29	28	33	39	44
TOTAL (Tonnes)		2,246	2,054	2,093	1,923	2,386	2,129



## 2. MONTHLY CATCH-EFFORT STATISTICS 1999

### 2-1 Catch and Fishing Effort by Type of Fishing Gear and by Month

#### 2-1-8 Mechanised Push Net

(1) Thailand

Sub-area: Gulf of Thailand

		Month					
		July	August	September	October	November	December
Units of fishing effort							
No. of fishing units							
No. of trips		7,823	5,739	6,222	6,349	6,020	5,369
No. of days		8,952	7,144	7,180	6,992	6,506	5,369
No. of hauls		53,611	44,276	45,433	43,087	40,726	36,880
No. of hours		80,777	67,236	66,152	65,865	60,118	50,165
Total catch (Tonnes)		2,734	2,131	2,312	1,567	1,619	1,118
Species (group)	Code No.	July	August	September	October	November	December
Indian halibuts	3102						
Tongue soles	3103						
Marine catfishes	3301	3	1	1	2	2	2
Lizard fishes	3303						
Sharp-toothed pike eels and conger eels	3304						
Grouper	3305						
Sillago whiting	3306						
Red snappers	3307						
Threadfin breams	3310						
Drums and croakers	3313	34	31	33	35	34	41
Big-eye snappers	3316						
Barracudas	3402						
Mullet	3403						
Threadfins	3404						
Round scads	3405						
Jacks, cavallas and trevallies	3406						
Selar scads	3407						
Hardtail scad	3408						
Black pomfret	3410						
White pomfret	3411						
Sardines	3501						
Anchovies	3503	203	263	208		3	2
Wolf herring	3505	2	3	1	1	1	
Longtail tuna	3604						
Eastern little tuna	3606						
Narrow-barred king mackerel	3609						
Indian mackerel	3701						
Indo-Pacific mackerel	3702						
Hairtails	3703						
Sharks	3801						
Rays	3802						
Miscellaneous fishes	3901	100	83	84	145	84	39
Trash fishes	3902	712	608	631	591	672	532
Swimming crabs	4201	69	71	67	56	69	45
Mangrove crab	4202						
Slipper lobsters	4302						1
Tiger prawn	4501				5	5	3
Penaeid prawns	4502	250	99	96	78	83	49
Other prawns	4503	779	817	1,018	504	499	308
Miscellaneous	4701						
Scallops	5501						
Cuttlefishes	5701	92	72	79	64	70	47
Squids	5702	36	43	42	41	47	19
Octopuses	5703	34	40	52	45	50	30
TOTAL (Tonnes)		2,314	2,131	2,312	1,567	1,619	1,118

## 2. MONTHLY CATCH-EFFORT STATISTICS 1999

### 2-1 Catch and Fishing Effort by Type of Fishing Gear and by Month

#### 2-1-8 Mechanised Push Net

(1) Thailand

Sub-area: Indian Ocean

Units of fishing effort		Month	January	February	March	April	May	June
		January	February	March	April	May	June	
No. of fishing units								
No. of trips			1,588	1,372	1,545	1,630	1,316	1,441
No. of days			1,588	1,372	1,545	1,630	1,316	1,441
No. of hauls			9,009	7,865	9,395	9,624	7,950	5,792
No. of hours			13,643	11,651	12,895	13,702	11,154	9,432
Total catch (Tonnes)			566	462	471	603	539	382
Species (group)	Code No.	January	February	March	April	May	June	
Indian halibuts	3102							
Tongue soles	3103							
Marine catfishes	3301	35	21	19	23	12	16	
Lizard fishes	3303							
Sharp-toothed pike eels and conger eels	3304							
Groupers	3305							
Sillago whiting	3306	9	8	8	8	9	6	
Red snappers	3307							
Threadfin breams	3310	17	21	12	14	15	17	
Drums and croakers	3313							
Big-eye snappers	3316					1	2	
Barracudas	3402							
Mulletts	3403							
Threadfins	3404							
Round scads	3405							
Jacks, cavallas and trevallies	3406							
Selar scads	3407							
Hardtail scad	3408							
Black pomfret	3410							
White pomfret	3411							
Sardines	3501							
Anchovies	3503				1			
Wolf herring	3505							
Longtail tuna	3604							
Eastern little tuna	3606							
Narrow-barred king mackerel	3609							
Indian mackerel	3701							
Indo-Pacific mackerel	3702							
Hairtails	3703							
Sharks	3801							
Rays	3802	83	62	54	59	48	41	
Miscellaneous fishes	3901	234	214	194	222	195	117	
Trash fishes	3902	12	10	9	12	9	10	
Swimming crabs	4201							
Mangrove crab	4202							
Slipper lobsters	4302	7	8	5	7	15	6	
Tiger prawn	4501	18	23	20	27	36	16	
Penaeid prawns	4502	112	62	113	188	155	102	
Other prawns	4503	10	7	7	10	9	14	
Miscellaneous	4701							
Scallops	5501	13	7	10	6	9	9	
Cuttlefishes	5701	5	5	6	7	7	8	
Squids	5702	11	14	14	19	19	18	
Octopuses	5703							
TOTAL (Tonnes)		566	462	471	603	539	382	

2. MONTHLY CATCH-EFFORT STATISTICS 1999

2-1 Catch and Fishing Effort by Type of Fishing Gear and by Month

2-1-8 Mechanised Push Net

(1) Thailand

Sub-area: Indian Ocean

Units of fishing effort		Month					
		July	August	September	October	November	December
No. of fishing units							
No. of trips		1,530	1,332	1,431	1,315	1,416	1,384
No. of days		1,530	1,332	1,431	1,315	1,416	1,384
No. of hauls		7,264	7,604	8,165	7,822	8,480	8,234
No. of hours		12,423	11,272	11,798	11,008	11,952	11,317
Total catch (Tonnes)		420	362	343	295	325	261
Species (group)	Code No.	July	August	September	October	November	December
Indian halibuts	3102						
Tongue soles	3103						
Marine catfishes	3301	14	11	7	9	9	7
Lizard fishes	3303						
Sharp-toothed pike eels and conger eels	3304						
Groupers	3305						
Sillago whiting	3306	11	6	3	2	6	2
Red snappers	3307						
Threadfin breams	3310	20	13	11	9	10	9
Drums and croakers	3313						
Big-eye snappers	3316	7	4	2	3	3	1
Barracudas	3402						
Mulletts	3403						
Threadfins	3404						
Round scads	3405						
Jacks, cavallas and trevallies	3406						
Selar scads	3407						
Hardtail scad	3408						
Black pomfret	3410						
White pomfret	3411						
Sardines	3501						
Anchovies	3503						
Wolf herring	3505						
Longtail tuna	3604						
Eastern little tuna	3606						
Narrow-barred king mackerel	3609						
Indian mackerel	3701						
Indo-Pacific mackerel	3702						
Hairtails	3703						
Sharks	3801						
Rays	3802	48	40	32	28	36	24
Miscellaneous fishes	3901	164	152	141	124	147	125
Trash fishes	3902	10	8	7	8	8	6
Swimming crabs	4201						
Mangrove crab	4202						
Slipper lobsters	4302	11	8	10	6	6	2
Tiger prawn	4501	26	21	26	20	21	17
Penaeid prawns	4502	76	70	72	57	51	48
Other prawns	4503	7	7	7	5	5	3
Miscellaneous	4701						
Scallops	5501	5	7	10	6	7	5
Cuttlefishes	5701	6	3	4	4	4	4
Squids	5702	15	12	11	14	12	8
Octopuses	5703						
TOTAL (Tonnes)		420	362	343	295	325	261

**3. Annual Production Statistics from Commercial and Municipal, 1999  
by Region, by Species : Philippines**

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**ANNUAL COMMERCIAL AND MUNICIPAL MARINE  
FISH PRODUCTION BY REGION, BY SPECIES IN  
PHILIPPINES, 1999**

**Annual Commercial and Municipal Marine Fish Production  
by Region in Philippines, 1999**

(1) Philippines

Region	Commercial	Municipal	Total
Quantity (MT)			
CAR		1071	1071
I	1863	23006	24869
II	12660	15058	27718
III	10950	10220	21170
NCR	160098	4156	164254
IV	145143	259580	404723
V	22364	72393	94757
VI	123299	132625	255924
VII	62547	45323	107870
VIII	30688	37639	68327
IX	147425	109557	256982
X	27760	20504	48264
XI	11174	26537	37711
XII	133633	36209	169842
ARMM	54438	68169	122607
CARAGA	4712	64294	69006
Total	948754	926341	1875095

**Marine Fisheries Production by Species, Philippines, 1999**

## (1) Philippines

Species	Code No.	Catch Unit
SHADS, MILKFISH		
Shads	2401	1115
Milkfish	2402	232
MISCELLANEOUS		
Barramundi	2501	
FLOUNDERS, HALIBUT, SOLES		
Flounders	3101	
Indian Halibuts	3102	
Tongue soles (Flatfishes)	3103	722
Soles	3104	
RED FISHES, BASS, CONGERS, ETC		
Marine catfishes	3301	4527
Catfish eels	3302	
Lizard fishes	3303	7649
Sharp-toothed pike eels and conger eels (Eels, Moray)	3304	2459
Groupers	3305	13675
Sillago whittings	3306	9529
Red snappers	3307	19192
Other snappers	3308	
Fusiliers	3309	14952
Threadfin bream	3310	29301
Pony fishes (Slipmouth)	3311	68371
Grunters and sweetlips	3312	
Drums and croakers	3313	4031
Goatfishes	3314	14527
Emperor breams (Porgy)	3315	7755
Big-eye snappers (Red bulls eye)	3316	3080
Breams	3317	
Horseheads	3318	
Rabbitfishes (Siganid)	3319	19977
Other species	3320	57321
<i>Seabass</i>		784
<i>Perchlet, Glassfish</i>		1733
<i>Surgeon fish</i>		5797
<i>Wrass, Parrot fish<sup>9</sup></i>		12318
<i>Mojarra</i>		5008
<i>Goby</i>		8021
<i>Moonfish</i>		12372
<i>Sickle fish</i>		133
<i>Spade fish</i>		2501
<i>Flathead</i>		211
<i>Rudder fish</i>		2357
<i>Therapon, grunt</i>		5274
<i>Lactarids</i>		235
<i>Butterfly fish</i>		490
<i>Diana (Opah)</i>		12
<i>Red sea harder</i>		75
JACKS, MULLETS, SAURIES, ETC		
Halfbeaks	3401	2281
Barracudas	3402	8976
Mullets	3403	14807
Threadfins	3404	2524
Roundscad	3405	248462
Jacks, cavalla and trevallies	3406	35204
<i>Crevalle</i>		19328
<i>Cavalla</i>		15876
Selar scads (Big-eye scad)	3407	65776
Hardtail scads	3408	16033
Queenfishes	3409	
Black pomfret	3410	1547
White pomfret	3411	
Other species	3412	72871
<i>Rainbow runner</i>		4500
<i>Leather jacket</i>		4404
<i>Dolphin fish</i>		223
<i>Silverside</i>		618

<i>Garfish</i>		10323
<i>Sergeant fish</i>		1187
<i>Leaf fish</i>		302
<i>Flying fish</i>		43461
<i>Smooth scad</i>		5716
<i>Big-eye</i>		2137
<b>HERRINGS, SARDINES, ANCHOVIES</b>		
Sardines	3501	279864
<i>Fimbriated sardines</i>		94631
<i>Fimbriated sardines fry</i>		3771
<i>Indian sardines</i>		179251
<i>Deep-bodied sardines</i>		2140
<i>Big-eyed sardines</i>		71
Round herrings	3502	24080
Anchovies	3503	78087
Clupeoids	3504	
Wolf herring	3505	377
Other species		2667
<i>Tarpon</i>		1207
<i>Ten pounder</i>		621
<i>Sprat</i>		13
<i>Big-eyed herring</i>		826
<b>TUNAS</b>		
Skipjack tuna	3601	108778
Yellowfin tuna (Yellowfin & Big-eye)	3602	90353
Big-eye tuna	3603	
Longtail tuna	3604	
Albacore	3605	
Eastern little tuna	3606	25406
Frigate and bullet tuna	3607	111301
Indo-pacific swordfish, sailfishes and marlins	3608	11192
<i>Sailfishes</i>		5082
<i>Swordfish</i>		3902
<i>Marlin</i>		2208
Narrow-barred king mackerel	3609	
King mackerels	3610	9137
<b>MACKERELS</b>		
Indian mackerel	3701	51720
Indo-pacific mackerel	3702	25713
Hairtails	3703	10363
Other species		3371
<i>Japanese mackerel</i>		1485
<i>Mackerel fry</i>		1886
<b>SHARKS AND RAYS</b>		
Sharks	3801	2174
Rays	3802	2299
<b>MISCELLANEOUS</b>		
Miscellaneous	3901	10657
<i>Assorted fish</i>		9471
<i>Puffer fish</i>		60
<i>Trigger fish</i>		1115
<i>Seahorse</i>		11
<b>CRABS</b>		
Swimming crabs (Blue crab)	4201	34076
Mangrove crabs (Mud crab)	4202	1165
<b>LOBSTER</b>		
Spiny lobsters	4301	249
Slipper lobster (Shovel-nosed lobster)	4302	89
<b>SHRIMPS, PRAWNS, ETC</b>		
Tiger prawn	4501	711
Penaeid prawns	4502	
Other prawns	4503	
Other species		36225
<i>White shrimp</i>		10544
<i>Endeavor prawn</i>		6419
<i>Acetes</i>		16729
<i>Quaket</i>		2533
<b>MISCELLANEOUS MARINE CRUSTACEANS</b>		
Miscellaneous	4701	
<i>Sea mantis</i>		2068
<b>OYSTERS</b>		
Flat oysters (Rocky oyster)	5301	95
Cupped oyster	5302	
<b>MUSSELS</b>		



Sea mussels (Green mussel)	5401	20
<b>SCALLOPS</b>		
Scallops	5501	62
<b>COCKLES, CLAMS</b>		
Blood cockle	5601	4
Clams and cone shell	5602	32
<i>Giant clam</i>		14
<i>Clam</i>		16
<i>Cone shell</i>		2
Other species		2584
<i>Cockle</i>		1
<i>Capiz shell</i>		162
<i>Pen shell</i>		2
<i>Assorted shell</i>		1770
<i>Chambered nautilus</i>		8
<i>Cowry</i>		1
<i>Sun and moon shells</i>		47
<i>M.O.P.</i>		5
<i>Other shells</i>		588
<b>CUTTLEFISH, SQUID AND OCTOPUS</b>		
Cuttlefishes	5701	2093
Squids	5702	47115
Other species		5813
<i>Octopus</i>		5813
<b>MISCELLANEOUS MARINE MOLLUSC</b>		
Miscellaneous	5801	282
<i>Abalone</i>		
<b>TURTLES AND OTHER REPTILES</b>		
Sea turtles	7201	
Other species		
<i>Green turtle</i>		2
<b>SEA URCHINS, SEA CUCUMBERS AND OTHER ECHINODERMS</b>		
Sea urchins	7501	143
Sea cucumbers	7502	849
<b>MISCELLANEOUS AQUATIC INVERTIBRATES</b>		
Jellyfishes	7601	12
<b>MISCELLANEOUS AQUATIC ANIMALS</b>		
Miscellaneous	7701	
<b>PEARLS, MOTHER-OF-PEARLS, SHELLS, ETC.</b>		
Mother of pearls	8101	
Other shells	8102	
<b>CORALS</b>		
Corals	8201	9
<b>SPONGES</b>		
Sponges	8301	8
<b>BROWN SEAWEEDS</b>		
Brown seaweeds	9101	
<b>RED SEAWEEDS</b>		
Red seaweeds	9201	
<b>GREEN SEAWEEDS AND OTHER ALGAE</b>		
Green seaweeds	9301	
<b>MISCELLANEOUS AQUATIC PLANTS</b>		
Miscellaneous aquatic plants	9401	
Other species		433
<i>Gozo</i>		258
<i>Gulamang dagat</i>		11
<i>Lato</i>		56
<i>Caulerpa</i>		108
<b>TOTAL</b>		<b>2246808</b>

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