



**Environmental Research and Wildlife
Development Agency**

**Annual Fisheries Statistics Report
for
Abu Dhabi Emirate 2004**

(Project no. 23 – 0008 – 05)

**Marine Environmental Research Center
Environmental Research and Wildlife Development Agency**

Contents

	Page no.
1. Executive Summary	5
2. Introduction	6
3. Methodology and Survey Design	7
4. Tables	11
4.1 Catch and Species Composition	
Table 1 (a) Total catch and species composition for the Emirate of Abu Dhabi.	11
Table 1 (b) Total catch and species composition for Eastern Abu Dhabi.	12
Table 1 (c) Total catch and species composition for Western Abu Dhabi.	13
Table 2 (a) Total catch by landing site in the Emirate of Abu Dhabi.	14
Table 2 (b) Total catch by landing site in Eastern Abu Dhabi.	15
Table 2 (c) Total catch by landing site in Western Abu Dhabi.	16
Table 3 (a) Total catch by month for launch in the Emirate of Abu Dhabi.	17
Table 3 (b) Total catch by month for launch in Eastern Abu Dhabi.	18
Table 3 (c) Total catch by month for launch in Western Abu Dhabi.	19
Table 4 (a) Total catch by month for tarad in the Emirate of Abu Dhabi.	20
Table 4 (b) Total catch by month for tarad in Eastern Abu Dhabi.	21
Table 4 (c) Total catch by month for tarad in Western Abu Dhabi.	22
Table 5 (a) Total catch and species composition for landings at Free Port.	23
Table 5 (b) Total catch and species composition for launch landings at Free Port.	24
Table 5 (c) Total catch and species composition for tarad landings at Free Port.	25
Table 6 Total catch and species composition for landings at Bateen.	26
Table 7 (a) Total catch and species composition for landings at Ghantoot.	27
Table 7 (b) Total catch and species composition for launch landings at Ghantoot.	28
Table 7 (c) Total catch and species composition for tarad landings at Ghantoot.	29

Table 8 (a)	Total catch and species composition for landings at Al Sadar.	30
Table 8 (b)	Total catch and species composition for launch landings at Al Sadar.	31
Table 8 (c)	Total catch and species composition for tarad landings at Al Sadar.	32
Table 9 (a)	Total catch and species composition for landings at Sila.	33
Table 9 (b)	Total catch and species composition for launch landings at Sila.	34
Table 9 (c)	Total catch and species composition for tarad landings at Sila.	35
Table 10 (a)	Total catch at Delma Is. and Jebel Dhana.	36
Table 10 (b)	Total catch for launch at Delma Is. and Jebel Dhana.	37
Table 10 (c)	Total catch for tarad at Delma Is. and Jebel Dhana.	38
Table 11	Total catch and species composition for landings at Mirfa.	39
4.2	Effort	
Table 12 (a)	Total number of trips by site in the Emirate of Abu Dhabi.	40
Table 12 (b)	Total number trips by site in Eastern Abu Dhabi.	41
Table 12 (c)	Total number of trips by site in Western Abu Dhabi.	42
Table 13 (a)	Total number of launch trips by site in the Emirate of Abu Dhabi.	43
Table 13 (b)	Total number of launch trips by site in Eastern Abu Dhabi.	44
Table 13 (c)	Total number of launch landings by site in Western Abu Dhabi.	45
Table 14 (a)	Total number of tarad trips by site in the Emirate of Abu Dhabi.	46
Table 14 (b)	Total number of tarad trips by site in Eastern Abu Dhabi.	47
Table 14 (c)	Total number of tarad trips by site in Western Abu Dhabi.	48
Table 15 (a)	Mean daily landings by site in the Emirate of Abu Dhabi.	49
Table 15 (b)	Mean daily landings by site in Eastern Abu Dhabi.	50
Table 15 (c)	Mean daily landings by site in Western Abu Dhabi.	51
Table 16 (a)	Mean daily launch landings by site in the Emirate of Abu Dhabi.	52
Table 16 (b)	Mean daily launch landings by site in Eastern Abu Dhabi.	53
Table 16 (c)	Mean daily launch landings by site in Western Abu Dhabi.	54

Table 17 (a)	Mean daily tarad landings by site in the Emirate of Abu Dhabi.	55
Table 17 (b)	Mean daily tarad landings by site in Eastern Abu Dhabi.	56
Table 17 (c)	Mean daily tarad landings by site in Western Abu Dhabi.	57

4.3 Catch per Unit Effort (CPUE)

Table 18 (a)	CPUE (kg/trip) for launch in the Emirate of Abu Dhabi.	58
Table 18 (b)	CPUE (kg/trip) for launch in Eastern Abu Dhabi.	59
Table 18 (c)	CPUE (kg/trip) for launch in Western Abu Dhabi.	60
Table 19 (a)	CPUE (kg/trip) for tarads in the Emirate of Abu Dhabi.	61
Table 19 (b)	CPUE (kg/trip) for tarads in Eastern Abu Dhabi.	62
Table 19 (c)	CPUE (kg/trip) for tarads in Western Abu Dhabi.	63

4.4 Catch Value

Table 20 (a)	Total value (AED '000) of landings in the Emirate of Abu Dhabi.	64
Table 20 (b)	Total value (AED '000) of landings in Eastern Abu Dhabi.	65
Table 20 (c)	Total value (AED '000) of landings in Western Abu Dhabi.	66
Table 21 (a)	Value (AED '000) of catches by launch in Abu Dhabi Emirate.	67
Table 21 (b)	Value (AED '000) of catches by launch in Eastern Abu Dhabi.	68
Table 21 (c)	Value (AED '000) of catches by launch in Western Abu Dhabi.	69
Table 22 (a)	Value (AED '000) of catches by tarad in Abu Dhabi Emirate.	70
Table 22 (b)	Value (AED '000) of catches by tarad in Eastern Abu Dhabi.	71
Table 22 (c)	Value (AED '000) of catches by tarad in Western Abu Dhabi.	72

5. Figures

Figure 1	Landing sites and sampling strata in the Emirate of Abu Dhabi	7
5.1 Catch		
Figure 2	Total catch by month and strata in the Emirate of Abu Dhabi.	73
Figure 3	Total landings by site in the Emirate of Abu Dhabi.	73
Figure 4	Total launch landings by month and strata.	74
Figure 5	Total tarad landings by month and strata.	74
5.2 Species composition		
Figure 6	Species composition of the total catch by strata.	75
Figure 7	Species composition of launch landings by strata.	76
Figure 8	Species composition of tarad landings by strata.	77
5.3 Effort		
Figure 9	Total number of fishing trips by strata in the Emirate of Abu Dhabi.	78
Figure 10	Total number of fishing trips by site in the Emirate of Abu Dhabi.	78
Figure 11	Total number of launch trips by month and strata.	79
Figure 12	Total number of tarad trips by month and strata.	79
5.4 Catch per unit effort		
Figure 13	Catch per unit effort for launch by month and strata.	80
Figure 14	Catch per unit effort for tarads by month and strata.	80
Figure 15	Catch per unit effort of the principal species categories in the launch fishery: (a) Carangidae (b) Haemulidae (c) Lethrinidae (d) Serranidae	81
Figure 16	Catch per unit effort of the principal species categories in the tarad fishery: (a) Carangidae (b) Lethrinidae (c) <i>S. commerson</i> (d) Serranidae.	83
5.5 Catch value		
Figure 17	Value of the total landed catch by strata.	85
Figure 18	Value of the total landed catch by site.	85
Figure 19	Value of the total landed catch by boat type.	86

1. Executive Summary

This report presents the fisheries statistics for Abu Dhabi during 2004 and provides a brief description of the fisheries of the Emirate and the survey design and methodology employed in their monitoring. The data presented contribute to ERWDA's strategic goal of developing a management regime for the fisheries of Abu Dhabi and are produced through the 'Fish Landings and Population Dynamics Project' of the Marine Environmental Research Center.

An estimated total of 6,658 tonnes of fish was landed in the Emirate during 2004, 86 % of which consisted of demersal species. The total catch represented a decrease of 26.4 % from the previous year, of which catches from launches decreased by 30.4 % and catches from tarads by 15.2 % compared to 2003. The most important species categories by weight were: Emperors (30.0 %), Groupers (18.6 %), Jacks (12.7 %), Sweetlips (7.8 %) and Kingfish (6.4 %). The majority of the catch (5,435 tonnes) was landed in Eastern Abu Dhabi, where the Free Port accounted for 79.9 % of the total. Traditional wooden dhows or launch landed 4,661 tonnes, equivalent to 70 % of the total catch.

Total fishing effort during 2004 was estimated at 16,645 tarad trips and 6,444 launch trips. The decrease in total catches by 26.4 % compared to the previous year was mainly associated by a decrease in the number of landings by launch (20.6 %). The number of tarad landings remained the same as it increased slightly by 0.3 % compared with 2003.

Furthermore, the mean catch rates (kg per trip) decreased during 2004 by 12.9 % for launches and 14.7 % for tarads. The decrease in catch per unit effort was particularly pronounced for the families Lethrinidae (Sheri), Carangidae (Jacks) and Kingfish, three of the primary target species groups.

The total ex-vessel value of the landed catch was 48.9 million AED, representing a decrease of 25.5 million AED from 2003. By value the most important species categories were: Groupers (34.9 %), Emperors (19.4 %), Jacks (17.3 %) and Kingfish (11.6 %). Eastern Abu Dhabi accounted for 81 % of the value of the total landings, the most important site being the Free Port. By boat type, dhows accounted for 68 % of the value of the total landed catch.

2. Introduction

Fisheries provide a source of income, employment and recreation to inhabitants while contributing to the cultural heritage of the Emirate of Abu Dhabi. Fishing is primarily conducted from open fiberglass dories and wooden dhows, dome shaped traps are the most commonly used gear type although a variety of other methods exist. Catches are typically diverse and characteristic of multi-species tropical fisheries, target species primarily being composed of representatives of the families: Carangidae, Lethrinidae, Haemulidae, Serranidae and Scombridae. Whilst the industry is well established, there is an absence of a historic time series of empirically derived estimates of yields, fishing effort and economic data. The paucity of knowledge on the resources, their carrying capacity and the extent to which they are exploited emphasizes the need to provide information on catch and effort for fisheries management purposes.

Catch and effort data recording surveys form the foundation of fisheries management information systems. The outputs enable resource status to be monitored and evaluations of fisheries performance to be made, aspects crucial for informed management planning and decision making. In this context, the Marine Environmental Research Center of ERWDA is implementing the 'Fish Landings and Population Dynamics Project' the principal objectives of which include the collection of catch, effort and economic data and the production of fisheries statistics for the Emirate of Abu Dhabi. The survey is intended to fill the existing technical information gap and provide monitoring data on the fishing fleet and exploited resources. The project responds directly to the Environmental Research and Wildlife Development Agency's goal of developing a management regime for the fisheries of Abu Dhabi.

Since the inception of the Fish Landings and Population Dynamics Project, activities have focused on the development of a stratified catch and effort data recording system. This has included data collection from landing sites, establishing collaborative links with other key stakeholder organizations and the development of database applications. This report presents the fisheries statistics for Abu Dhabi for 2004 and provides a brief description of the fisheries of the Emirate and the survey design and methodology employed in their monitoring.

3. Methodology and Survey Design

Landing site stratification: For estimation purposes, the super strata (Emirate of Abu Dhabi) is divided into 2 strata namely: Eastern Abu Dhabi and Western Abu Dhabi. There are a total of 8 fish landing locations in the Emirate: Sila, Jebel Dhana, Delma Island, Mirfa, Al Bateen, Free Port Abu Dhabi, Al Sadar, and Ghantoot (see Figure 1). At the end of 2003, Taweela and Khor Al Sheikh ceased to exist as landing sites and fishermen were asked to shift their landings to Al Sadar. In 2004, Khor Al Aizab was renamed to Ghantoot. Landing sites are further stratified into primary and secondary sites on the basis of the number of active fishing vessels. In the tables and figures presented here, data for Delma Is. and Jebel Dhanna are grouped together.

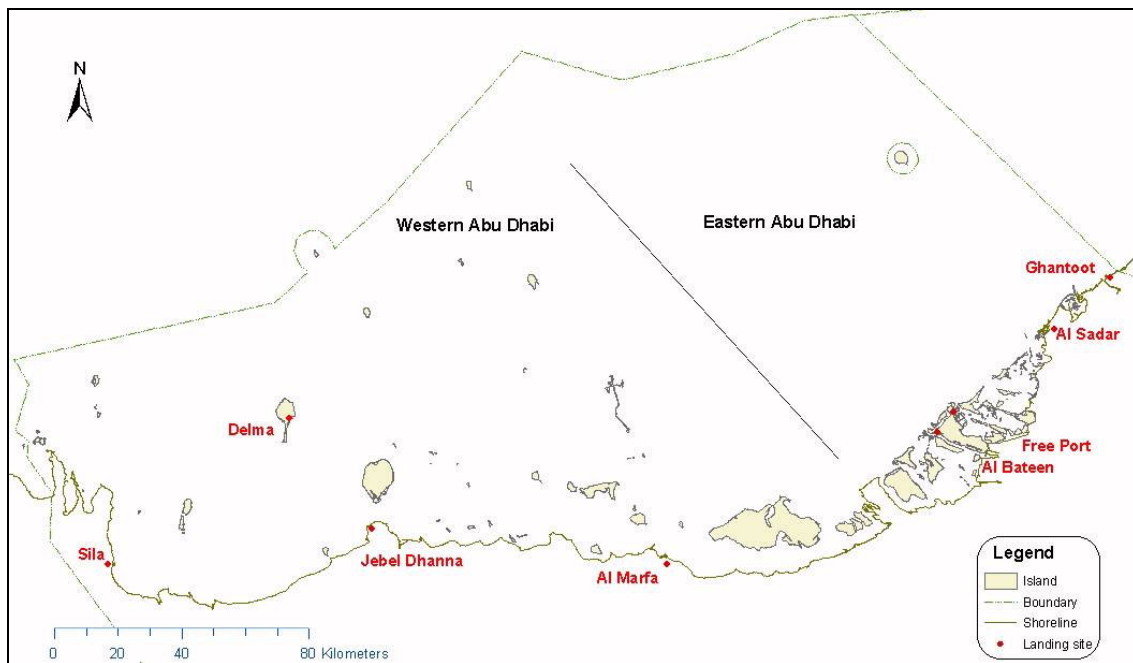


Figure 1 Landing sites and sampling strata in the Emirate of Abu Dhabi.

Fishing vessel stratification: There are two principal fishing vessel types in the Emirate of Abu Dhabi, the tarad and launch. The tarad is an open dory usually of fiberglass construction powered by an outboard motor/s, fishing trips may be conducted during the day time and at night depending on the gear type being used and target species. Due to the small size of the vessels, trip duration does not usually exceed 1 day. There are currently about 675 tarads licensed in Abu Dhabi.

The Launch is a decked vessel usually constructed of wood and powered by an in-board engine/s, the average trip length is between 3 and 5 days. There are currently about 425 Launch licensed in Abu Dhabi.

Fishing gears: Whilst there is a wide variety of fishing gear, the fish trap or gargoor is the most commonly used method. In this report, data are presented by boat type only. A brief description of fishing gears in use is given below.

Fish Traps (Gargoor) - Dome shaped wire traps, usually baited with dried sardines and/or bread and used to target demersal species.

Pelagic Gill Nets (Leikh) - Gill nets up to 200 m in length and 6m deep, set at the surface and used to target large pelagic species.

Set Gillnets - Small mono-filament gillnets set in shallow water near the shore.

Encircling Gill Nets - Small mono-filament gillnets set around schools of small pelagic species.

Barrier Nets (Sakkar) - Large nets set at high tide and used to shut off a portion of the sea bed, fish are trapped behind the net as the tide drops.

Static Inter Tidal Traps (Al Hadhra) - Fixed static traps set perpendicular to the coastline.

Handlines (Hadaq) - Mono-filament line with one or more baited hooks.

Trolling Lines - Mono-filament or braided line trolled behind a vessel with a lure attached to the end, used to target large pelagic species.

Table 1. Species category composition for the Fish Landings and Population Dynamics Project.

Category	Species / Category composition
<i>A. bifasciatus</i>	<i>Acanthopagrus bifasciatus</i>
<i>A. spinifer</i>	<i>Argyrops spinifer</i>
Sphyraenidae	All Sphyraenidae species
Carangidae	Gnathanodon, Carangoides, Caranx, Elagatis, Seriola & Seriolina species
Clupeidae	Sardinella, Nematalosa & all other Clupeidae species
Gerridae	All Gerridae species
Haemulidae	Plectorhinchus, Diagramma, Pomadasys & all other Haemulidae species
Lethrinidae	All Lethrinidae species
Lutjanidae	All Lutjanidae species
Mixed	Mixed basket (assorted species)
Mugilidae	Valamugil & all other Mugilidae species
Nemipteridae	Scolopsis, Nemipterus & all other Nemipteridae species
Other demersals	All other demersal species including: Balistidae, Ehippidae, Labridae, Mullidae, Tetraodontidae, Platycephalidae, Pomacanthidae, Psettodidae, Soleidae, Stromateidae, Synodontidae, Teraponidae & Ariidae.
Other pelagics	All other pelagic species including: Belonidae, Chanidae, Coryphaenidae, Scombridae, Xiphiidae & Rachycentridae
Others	Non fish species including: crustaceans, molluscs, cephalopods etc.
Scomberoides	All <i>Parastromateus</i> , <i>Trachinotus</i> & <i>Scomberoides</i> species
Shark & Ray	All shark & ray species including: Carcharhinidae, Sphyrnidae, Dasyatidae, Myliobatidae, Rhinobatidae & Pristidae
Scads	All <i>Alepes</i> , <i>Atule</i> , <i>Decapterus</i> , <i>Selaroides</i> , <i>Megalaspis</i> species
<i>S. commerson</i>	<i>Scomberomorus commerson</i>
Scaridae	All <i>Scaridae</i> species
Serranidae	All Serranidae species including: <i>Epinephelus</i> and <i>Cephalopholis</i>
Siganidae	All Siganidae species
Other Sparidae	Other Sparidae (ex. <i>A. bifasciatus</i> and <i>A. spinifer</i>)

Species classification: Over 100 species from more than 35 families are caught by the gears operated in the different fisheries of the Emirate of Abu Dhabi. Catch records and samples are classified by species for key stock assessment species where possible, otherwise family categories or guilds are used. The clustering of species is necessary especially where local generic names may refer to more than 1 species. A brief description of the composition of individual categories is given in Table 1. whilst Annex 1 gives a detailed list of species commonly caught and their respective categories.

Data sources: Catch data was obtained from receipts issued by the Abu Dhabi Fishermen's Cooperative Society during 2004 for the purchase of entire landed catches. A minimum sample target size for complete catch records was 30 per boat type each month from each landing site where purchases were made. Fishing effort data was derived from the vessel activity records kept by the UAE Coastguard during 2004. Target samples sizes for effort records were a minimum of 15 days per landing site per month. Fish price per category, was obtained from the Abu Dhabi Fishermen's Cooperative Society receipts for 2004.

Explanation of tables and figures: Total catch for each boat type is estimated by species category, site and sampling strata on a monthly basis for 2004. Total monthly and mean daily effort are estimated by site and sampling strata. The data analyses involve a standard raising procedure described in another technical report (Grandcourt, 2002).

Catch, effort and species composition data are presented by strata, boat type and site. Catch value and abundance indices (catch per unit effort) are presented by strata and boat type. Tables and figures are self explanatory though it should be noted that any discrepancy between totals and the sum of components is due to rounding. Any reference to Delma Island alone includes Jebel Dhana. All data on the value of landings relates to whole sale ex-vessel value as opposed to retail value.

Grandcourt, E. 2002. The catch and effort data recording system for the fisheries of Abu Dhabi: Survey design and implementation. Marine Environmental Research Center. ERWDA. Abu Dhabi (*unpub*). 26 p.

Table 1 (a) Total catch (tonnes) and species composition for the Emirate of Abu Dhabi.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Tot. (mt)	Tot. (%)
<i>A. bifasciatus</i>	9.0	16.1	4.9	0.9	1.4	3.8	13.4	32.6	25.1	21.9	2.4	12.7	144.1	2.2
<i>A. Spinifer</i>	13.7	34.3	16.3	20.9	17.7	5.5	9.2	0.6	1.3	0.0	2.4	29.8	151.7	2.3
Sphyraenidae	3.2	2.2	6.4	1.5	3.9	3.3	1.8	1.3	0.3	1.1	1.9	1.3	28.4	0.4
Carangidae	45.1	36.3	32.2	69.5	93.6	73.7	108.7	166.4	57.8	55.6	59.8	49.4	848.2	12.7
Clupeidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gerridae	13.2	22.5	10.4	3.5	4.2	5.5	2.3	6.0	27.3	30.0	9.4	10.7	144.9	2.2
Haemulidae	30.8	40.0	55.2	41.6	33.0	36.9	39.3	39.6	43.5	33.7	74.4	50.6	518.7	7.8
Lethrinidae	137.0	173.9	212.9	242.0	229.4	165.7	187.3	237.4	93.3	51.6	83.8	181.1	1995.4	30.0
Lutjanidae	0.6	1.8	0.8	12.2	15.3	7.4	11.2	9.1	4.5	0.3	0.9	0.8	65.0	1.0
Mixed	3.7	6.7	22.2	22.7	37.9	12.2	23.7	34.3	23.0	18.3	4.2	8.4	217.2	3.3
Mugilidae	15.0	5.0	3.1	0.6	0.2	3.4	7.4	2.6	1.2	22.5	1.6	4.6	67.3	1.0
Nemipteridae	1.6	3.0	3.9	0.1	0.2	2.6	3.8	1.0	4.5	0.4	0.4	2.8	24.4	0.4
Other demersals	2.8	7.9	9.2	6.6	7.5	0.7	7.8	20.5	5.7	2.8	5.3	8.5	85.1	1.3
Other pelagics	7.5	10.8	8.8	8.2	9.8	21.6	22.8	25.0	5.3	2.8	7.3	3.4	133.3	2.0
Others	0.3	0.5	0.1	0.0	0.6	0.8	0.9	0.0	0.5	3.2	28.4	13.8	48.9	0.7
Scomberoides	3.0	3.8	16.9	15.0	19.4	6.8	5.1	11.2	6.6	6.9	5.4	4.0	104.1	1.6
Shark and Ray	7.4	25.7	20.3	2.1	0.9	2.5	0.8	2.6	0.7	8.0	8.4	6.7	86.0	1.3
Scads	6.7	8.5	6.2	28.3	39.0	39.9	14.4	7.2	6.7	15.3	8.3	2.0	182.4	2.7
<i>S. commerson</i>	56.1	68.1	38.8	12.0	47.1	9.2	4.8	4.0	3.4	46.6	34.8	102.7	427.6	6.4
Scaridae	1.6	1.3	0.8	3.2	3.7	2.7	3.4	2.9	2.4	2.4	0.7	2.3	27.3	0.4
Serranidae	80.4	148.4	159.9	130.7	89.8	75.0	85.9	124.9	91.7	63.4	74.0	115.7	1239.8	18.6
Siganidae	7.2	1.7	1.9	4.0	2.6	0.6	2.5	7.8	9.7	4.6	6.0	15.0	63.5	1.0
Other Sparidae	5.1	4.5	6.9	1.2	3.4	4.5	3.0	6.9	7.2	5.8	3.4	3.2	55.1	0.8
Total (mt)	451.0	622.7	637.8	626.6	660.7	484.2	559.5	743.9	421.9	397.2	423.2	629.5	6658.3	100.0
Total (%)	6.8	9.4	9.6	9.4	9.9	7.3	8.4	11.2	6.3	6.0	6.4	9.5	100.0	

Table 1 (b) Total catch (tonnes) and species composition for Eastern Abu Dhabi.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Tot. (mt)	Tot. (%)
<i>A. bifasciatus</i>	7.9	15.2	4.4	0.5	1.3	3.7	11.3	32.0	25.1	21.9	2.4	12.7	138.6	2.6
<i>A. Spinifer</i>	13.2	33.9	16.0	20.9	17.7	5.4	9.2	0.6	1.3	0.0	2.3	29.6	150.1	2.8
Sphyraenidae	1.1	0.6	4.6	0.9	2.2	2.8	1.0	1.3	0.3	0.8	1.4	1.0	18.2	0.3
Carangidae	36.1	31.9	26.0	51.2	75.8	61.9	93.6	144.8	47.2	41.7	48.0	48.2	706.4	13.0
Clupeidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gerridae	8.9	18.8	10.4	3.5	4.1	5.5	2.3	6.0	26.1	26.7	8.9	10.7	131.9	2.4
Haemulidae	18.1	33.7	37.0	22.5	18.9	23.8	23.5	15.3	24.0	10.4	20.4	31.8	279.5	5.1
Lethrinidae	75.2	145.6	168.9	211.0	205.0	145.1	157.8	204.8	86.8	42.9	55.9	144.4	1643.4	30.2
Lutjanidae	0.4	1.8	0.8	12.2	15.3	5.9	10.6	2.1	4.1	0.2	0.9	0.8	55.2	1.0
Mixed	3.4	6.0	21.9	22.7	37.9	12.1	23.7	34.3	23.0	18.2	4.1	8.4	215.6	4.0
Mugilidae	12.9	4.8	2.7	0.6	0.2	3.4	7.2	2.6	1.2	22.5	1.5	4.6	64.3	1.2
Nemipteridae	1.6	3.0	3.9	0.1	0.2	2.6	3.8	1.0	4.5	0.4	0.4	2.8	24.4	0.4
Other demersals	2.5	7.8	9.0	6.3	7.5	0.3	7.7	19.0	5.7	2.4	5.2	8.0	81.4	1.5
Other pelagics	5.4	10.0	8.0	7.1	7.9	18.8	19.2	19.1	4.1	2.8	7.3	3.3	112.9	2.1
Others	0.3	0.5	0.1	0.0	0.6	0.8	0.9	0.0	0.5	3.2	28.4	13.8	48.9	0.9
Scomberoides	2.1	3.7	3.5	9.8	19.1	5.8	5.0	9.3	4.6	4.8	1.8	3.6	73.1	1.3
Shark and Ray	5.4	24.8	18.3	1.9	0.7	2.5	0.8	2.6	0.7	7.0	6.9	6.1	77.5	1.4
Scads	6.1	7.9	6.0	27.7	38.8	39.8	14.4	7.1	6.7	15.1	8.2	2.0	179.8	3.3
<i>S. commerson</i>	18.5	32.4	23.7	11.6	46.9	9.2	4.8	2.6	0.0	35.8	17.5	82.9	285.9	5.3
Scaridae	1.6	1.3	0.8	3.2	3.7	2.7	3.4	2.6	2.4	2.4	0.7	2.3	27.0	0.5
Serranidae	61.8	135.8	138.3	113.6	73.8	60.4	65.6	101.7	71.6	39.9	47.6	106.0	1016.1	18.7
Siganidae	5.1	1.7	1.5	4.0	2.6	0.6	0.8	5.4	9.6	4.5	5.8	15.0	56.6	1.0
Other Sparidae	4.9	4.5	6.3	1.0	0.6	4.5	2.1	6.5	6.9	5.3	3.3	3.2	49.1	0.9
Total (mt)	292.5	525.8	512.1	532.1	580.8	417.7	468.7	620.7	356.4	309.0	278.9	541.0	5435.8	100.0
Total (%)	5.4	9.7	9.4	9.8	10.7	7.7	8.6	11.4	6.6	5.7	5.1	10.0	100.0	

Table 1 (c) Total catch (tonnes) and species composition for Western Abu Dhabi.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Tot. (mt)	Tot. (%)
<i>A. bifasciatus</i>	1.1	0.8	0.4	0.4	0.1	0.0	2.1	0.5	0.0	0.0	0.0	0.0	5.5	0.5
<i>A. Spinifer</i>	0.5	0.4	0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.2	1.5	0.1
Sphyraenidae	2.2	1.6	1.8	0.6	1.8	0.5	0.8	0.0	0.0	0.3	0.5	0.3	10.2	0.8
Carangidae	8.9	4.4	6.2	18.3	17.8	11.8	15.1	21.6	10.7	13.9	11.8	1.3	141.9	11.6
Clupeidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gerridae	4.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.2	0.5	0.0	13.0	1.1
Haemulidae	12.7	6.2	18.1	19.1	14.1	13.0	15.9	24.4	19.5	23.3	54.0	18.8	239.2	19.6
Lethrinidae	61.8	28.3	44.0	30.9	24.4	20.6	29.5	32.6	6.5	8.7	27.9	36.7	352.0	28.8
Lutjanidae	0.2	0.0	0.0	0.0	0.1	1.6	0.6	7.0	0.4	0.1	0.0	0.0	9.8	0.8
Mixed	0.3	0.7	0.3	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.0	1.6	0.1
Mugilidae	2.1	0.2	0.4	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.1	0.0	3.0	0.2
Nemipteridae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other demersals	0.3	0.1	0.2	0.2	0.0	0.3	0.1	1.5	0.0	0.4	0.1	0.5	3.7	0.3
Other pelagics	2.1	0.8	0.8	1.1	1.9	2.8	3.7	5.9	1.2	0.0	0.1	0.1	20.4	1.7
Others	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scomberoides	0.9	0.1	13.4	5.2	0.3	1.0	0.1	1.9	2.0	2.1	3.6	0.4	31.0	2.5
Shark and Ray	2.0	0.9	2.0	0.3	0.2	0.0	0.0	0.0	0.0	1.0	1.5	0.6	8.5	0.7
Scads	0.6	0.6	0.2	0.6	0.2	0.1	0.0	0.1	0.0	0.2	0.0	0.0	2.6	0.2
<i>S. commerson</i>	37.6	35.7	15.2	0.5	0.2	0.0	0.0	1.4	3.4	10.8	17.3	19.8	141.7	11.6
Scaridae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.3	0.0
Serranidae	18.6	12.6	21.5	17.1	16.0	14.6	20.3	23.2	20.1	23.5	26.4	9.7	223.7	18.3
Siganidae	2.0	0.0	0.4	0.0	0.0	0.0	1.7	2.4	0.1	0.1	0.2	0.0	6.9	0.6
Other Sparidae	0.3	0.0	0.6	0.2	2.8	0.0	0.9	0.4	0.3	0.6	0.1	0.0	6.0	0.5
Total (mt)	158.5	96.9	125.7	94.5	79.9	66.5	90.8	123.3	65.5	88.2	144.2	88.5	1222.5	100.0
Total (%)	13.0	7.9	10.3	7.7	6.5	5.4	7.4	10.1	5.4	7.2	11.8	7.2	100.0	

Table 2 (a) Total catch (tonnes) by landing site in the Emirate of Abu Dhabi.

	Free Port	Bateen	Ghantoot	Sadar	Delma & JD	Sila	Mirfa	Total (mt)	Total (%)
<i>A. bifasciatus</i>	124.1	1.6	5.2	7.8	2.9	0.1	2.4	144.1	2.2
<i>A. Spinifer</i>	136.8	0.5	5.5	7.3	0.8	0.7	0.0	151.7	2.3
Sphyraenidae	7.6	4.8	1.6	4.2	0.2	1.6	8.4	28.4	0.4
Carangidae	564.2	49.9	32.6	59.7	61.7	35.3	44.9	848.2	12.7
Clupeidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gerridae	61.0	34.3	10.6	26.0	0.6	1.7	10.6	144.9	2.2
Haemulidae	249.4	2.9	10.9	16.3	193.0	36.9	9.2	518.7	7.8
Lethrinidae	1402.1	62.0	67.5	111.8	173.1	30.5	148.4	1995.4	30.0
Lutjanidae	25.8	16.9	4.3	8.2	0.1	0.2	9.5	65.0	1.0
Mixed	195.4	1.6	8.0	10.7	1.3	0.1	0.1	217.2	3.3
Mugilidae	28.0	18.7	5.1	12.5	0.0	0.0	3.0	67.3	1.0
Nemipteridae	21.5	0.4	0.9	1.6	0.0	0.0	0.0	24.4	0.4
Other demersals	66.4	4.7	3.6	6.6	1.1	0.1	2.4	85.1	1.3
Other pelagics	61.9	27.9	7.6	15.5	13.9	0.6	5.9	133.3	2.0
Others	33.4	6.1	2.3	7.1	0.0	0.0	0.0	48.9	0.7
Scomberoides	48.4	12.0	4.3	8.3	1.4	19.5	10.1	104.1	1.6
Shark and Ray	63.1	4.1	3.3	6.9	0.0	4.8	3.7	86.0	1.3
Scads	146.0	10.3	8.7	14.8	1.0	0.2	1.4	182.4	2.7
<i>S. commerson</i>	122.2	69.9	23.6	70.1	28.3	94.9	18.6	427.6	6.4
Scaridae	18.4	3.9	1.4	3.3	0.0	0.3	0.0	27.3	0.4
Serranidae	904.9	15.1	39.9	56.1	117.8	48.2	57.7	1239.8	18.6
Siganidae	34.5	7.9	2.9	11.3	0.0	0.0	6.9	63.5	1.0
Other Sparidae	30.9	9.3	2.7	6.2	0.2	3.1	2.8	55.1	0.8
Total (mt)	4346.0	364.8	252.7	472.3	597.6	278.9	346.1	6658.3	
Total (%)	65.3	5.5	3.8	7.1	9.0	4.2	5.2		

Table 2 (b) Total catch (tonnes) by landing site in Eastern Abu Dhabi.

	Free Port	Bateen	Ghantoot	Sadar	Total (mt)	Total (%)
<i>A. bifasciatus</i>	124.1	1.6	5.2	7.8	138.6	2.6
<i>A. Spinifer</i>	136.8	0.5	5.5	7.3	150.1	2.8
Sphyraenidae	7.6	4.8	1.6	4.2	18.2	0.3
Carangidae	564.2	49.9	32.6	59.7	706.4	13.0
Clupeidae	0.0	0.0	0.0	0.0	0.0	0.0
Gerridae	61.0	34.3	10.6	26.0	131.9	2.4
Haemulidae	249.4	2.9	10.9	16.3	279.5	5.1
Lethrinidae	1402.1	62.0	67.5	111.8	1643.4	30.2
Lutjanidae	25.8	16.9	4.3	8.2	55.2	1.0
Mixed	195.4	1.6	8.0	10.7	215.6	4.0
Mugilidae	28.0	18.7	5.1	12.5	64.3	1.2
Nemipteridae	21.5	0.4	0.9	1.6	24.4	0.4
Other demersals	66.4	4.7	3.6	6.6	81.4	1.5
Other pelagics	61.9	27.9	7.6	15.5	112.9	2.1
Others	33.4	6.1	2.3	7.1	48.9	0.9
Scomberoides	48.4	12.0	4.3	8.3	73.1	1.3
Shark and Ray	63.1	4.1	3.3	6.9	77.5	1.4
Scads	146.0	10.3	8.7	14.8	179.8	3.3
<i>S. commerson</i>	122.2	69.9	23.6	70.1	285.9	5.3
Scaridae	18.4	3.9	1.4	3.3	27.0	0.5
Serranidae	904.9	15.1	39.9	56.1	1016.1	18.7
Siganidae	34.5	7.9	2.9	11.3	56.6	1.0
Other Sparidae	30.9	9.3	2.7	6.2	49.1	0.9
Total (mt)	4346.0	364.8	252.7	472.3	5435.8	
Total (%)	80.0	6.7	4.6	8.7		

Table 2 (c) Total catch (tonnes) by landing site in Western Abu Dhabi.

	Delma & Jebel Dhana	Sila	Mirfa	Total (mt)	Total (%)
<i>A. bifasciatus</i>	2.9	0.1	2.4	5.5	0.5
<i>A. Spinifer</i>	0.8	0.7	0.0	1.5	0.1
Sphyraenidae	0.2	1.6	8.4	10.2	0.8
Carangidae	61.7	35.3	44.9	141.9	11.6
Clupeidae	0.0	0.0	0.0	0.0	0.0
Gerridae	0.6	1.7	10.6	13.0	1.1
Haemulidae	193.0	36.9	9.2	239.2	19.6
Lethrinidae	173.1	30.5	148.4	352.0	28.8
Lutjanidae	0.1	0.2	9.5	9.8	0.8
Mixed	1.3	0.1	0.1	1.6	0.1
Mugilidae	0.0	0.0	3.0	3.0	0.2
Nemipteridae	0.0	0.0	0.0	0.0	0.0
Other demersals	1.1	0.1	2.4	3.7	0.3
Other pelagics	13.9	0.6	5.9	20.4	1.7
Others	0.0	0.0	0.0	0.0	0.0
Scomberoides	1.4	19.5	10.1	31.0	2.5
Shark and Ray	0.0	4.8	3.7	8.5	0.7
Scads	1.0	0.2	1.4	2.6	0.2
<i>S. commerson</i>	28.3	94.9	18.6	141.7	11.6
Scaridae	0.0	0.3	0.0	0.3	0.0
Serranidae	117.8	48.2	57.7	223.7	18.3
Siganidae	0.0	0.0	6.9	6.9	0.6
Other Sparidae	0.2	3.1	2.8	6.0	0.5
Total (mt)	597.6	278.9	346.1	1222.5	
Total (%)	48.9	22.8	28.3		

Table 3 (a) Total catch (tonnes) by month for launch in the Emirate of Abu Dhabi.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Tot. (mt)	Tot. (%)
<i>A. bifasciatus</i>	7.0	16.1	4.2	0.9	1.4	3.6	11.1	31.9	25.1	21.9	2.4	10.3	135.8	2.9
<i>A. Spinifer</i>	13.7	34.3	16.3	20.9	17.7	5.4	9.1	0.6	1.3	0.0	2.4	27.7	149.3	3.2
Sphyraenidae	0.4	0.0	0.4	0.0	0.0	0.4	0.3	0.3	0.0	0.4	0.3	0.3	2.8	0.1
Carangidae	27.4	20.6	17.9	30.7	69.9	61.1	79.5	124.4	41.1	42.0	44.8	39.8	599.3	12.9
Clupeidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gerridae	0.5	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.9	0.0
Haemulidae	22.2	39.6	43.2	38.1	24.5	29.4	36.0	32.8	36.3	30.1	45.7	38.6	416.5	8.9
Lethrinidae	93.7	140.2	176.6	210.8	207.1	134.1	144.4	150.5	71.8	43.4	57.7	109.3	1539.6	33.0
Lutjanidae	0.4	1.2	0.8	3.9	1.5	0.4	1.9	1.5	0.7	0.2	0.9	0.8	14.1	0.3
Mixed	3.0	6.5	21.0	22.4	37.3	11.8	23.3	34.0	23.0	18.0	2.7	8.3	211.2	4.5
Mugilidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nemipteridae	1.6	3.0	3.9	0.1	0.2	2.6	3.8	1.0	3.5	0.4	0.4	2.2	22.7	0.5
Other demersals	1.7	5.8	8.3	4.7	7.3	0.3	7.6	12.0	5.4	2.1	3.7	5.7	64.7	1.4
Other pelagics	2.5	3.1	4.2	6.5	6.5	4.7	4.7	8.1	1.6	0.6	2.2	1.2	45.8	1.0
Others	0.0	0.2	0.0	0.0	0.5	0.1	0.0	0.0	0.4	0.8	8.5	13.2	23.5	0.5
Scomberoides	1.9	2.4	0.0	7.4	15.9	2.8	1.0	0.2	0.7	0.8	1.2	2.2	36.5	0.8
Shark and Ray	4.5	22.4	14.9	1.4	0.2	2.2	0.6	1.6	0.0	6.6	3.9	3.2	61.5	1.3
Scads	3.4	3.6	1.5	16.2	33.9	39.1	14.1	7.0	5.3	15.3	8.2	1.6	149.2	3.2
<i>S. commerson</i>	1.0	3.5	2.1	0.2	0.2	0.5	0.0	0.1	1.7	25.2	10.4	22.8	67.7	1.5
Scaridae	1.6	1.3	0.8	1.7	1.3	0.1	1.9	2.4	2.3	2.3	0.7	0.4	16.8	0.4
Serranidae	60.4	131.1	138.8	116.5	76.8	62.8	71.7	111.6	77.1	52.8	61.7	101.0	1062.3	22.8
Siganidae	0.0	0.3	0.1	4.0	2.0	0.5	0.8	4.4	6.6	4.5	1.2	0.0	24.4	0.5
Other Sparidae	3.3	3.7	4.4	1.0	0.5	0.0	0.3	0.7	0.0	0.0	0.8	2.0	16.8	0.4
Total (mt)	250.2	438.9	459.6	487.3	504.9	362.1	412.0	525.0	303.8	267.4	259.8	390.5	4661.5	100.0
Total (%)	5.4	9.4	9.9	10.5	10.8	7.8	8.8	11.3	6.5	5.7	5.6	8.4	100.0	

Table 3 (b) Total catch (tonnes) by month for launch in Eastern Abu Dhabi.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Tot. (mt)	Tot. (%)
<i>A. bifasciatus</i>	6.1	15.2	3.9	0.5	1.3	3.6	10.9	31.8	25.1	21.9	2.4	10.3	133.1	3.2
<i>A. Spinifer</i>	13.2	33.9	16.0	20.9	17.7	5.4	9.1	0.6	1.3	0.0	2.3	27.4	147.9	3.5
Sphyraenidae	0.4	0.0	0.4	0.0	0.0	0.4	0.3	0.3	0.0	0.3	0.2	0.2	2.4	0.1
Carangidae	27.0	19.1	15.3	27.9	66.1	57.1	72.1	114.7	36.5	35.4	41.1	39.2	551.6	13.1
Clupeidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gerridae	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.3	0.0
Haemulidae	17.6	33.6	32.2	22.0	18.5	23.4	22.9	14.4	22.1	10.2	20.2	30.9	268.0	6.4
Lethrinidae	64.3	131.2	151.6	203.9	202.0	131.7	139.5	145.3	67.9	40.4	48.6	103.8	1430.1	34.0
Lutjanidae	0.4	1.2	0.8	3.9	1.5	0.4	1.9	1.5	0.7	0.2	0.9	0.8	14.0	0.3
Mixed	2.6	5.9	20.8	22.4	37.3	11.8	23.3	34.0	23.0	18.0	2.7	8.3	210.1	5.0
Mugilidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nemipteridae	1.6	3.0	3.9	0.1	0.2	2.6	3.8	1.0	3.5	0.4	0.4	2.2	22.7	0.5
Other demersals	1.7	5.7	8.3	4.7	7.3	0.3	7.5	11.9	5.3	2.1	3.7	5.7	64.3	1.5
Other pelagics	2.4	2.9	4.1	5.8	4.6	3.5	1.2	5.6	0.4	0.5	2.2	1.1	34.3	0.8
Others	0.0	0.2	0.0	0.0	0.5	0.1	0.0	0.0	0.4	0.8	8.5	13.2	23.5	0.6
Scomberoides	1.0	2.4	0.0	7.2	15.6	2.8	1.0	0.2	0.7	0.7	1.2	2.1	34.8	0.8
Shark and Ray	4.5	22.4	14.9	1.1	0.0	2.2	0.6	1.6	0.0	6.6	3.9	3.2	60.9	1.4
Scads	3.4	3.6	1.5	15.6	33.9	39.0	14.1	6.9	5.2	15.1	8.2	1.6	148.2	3.5
<i>S. commerson</i>	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	25.0	0.1	18.4	44.1	1.0
Scaridae	1.6	1.3	0.8	1.7	1.3	0.1	1.9	2.4	2.3	2.3	0.7	0.4	16.8	0.4
Serranidae	54.9	127.0	129.0	108.2	72.2	59.1	64.0	98.3	67.4	38.5	44.7	97.2	960.7	22.8
Siganidae	0.0	0.3	0.1	4.0	2.0	0.5	0.8	4.4	6.6	4.5	1.2	0.0	24.4	0.6
Other Sparidae	3.3	3.7	4.3	1.0	0.5	0.0	0.3	0.7	0.0	0.0	0.8	2.0	16.7	0.4
Total (mt)	206.1	412.6	408.0	450.7	482.7	344.7	375.2	475.6	268.3	223.1	193.8	368.0	4209.0	100.0
Total (%)	4.9	9.8	9.7	10.7	11.5	8.2	8.9	11.3	6.4	5.3	4.6	8.7	100.0	

Table 3 (c) Total catch (tonnes) by month for launch in Western Abu Dhabi.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Tot. (mt)	Tot. (%)
<i>A. bifasciatus</i>	0.9	0.8	0.3	0.4	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	2.7	0.6
<i>A. Spinifer</i>	0.5	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	1.4	0.3
Sphyraenidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.3	0.1
Carangidae	0.4	1.5	2.6	2.8	3.8	4.0	7.4	9.7	4.6	6.6	3.7	0.6	47.7	10.5
Clupeidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gerridae	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.1
Haemulidae	4.6	6.0	11.0	16.1	6.0	6.1	13.1	18.4	14.2	19.9	25.5	7.7	148.5	32.8
Lethrinidae	29.4	9.0	25.1	6.9	5.0	2.4	4.9	5.2	3.9	3.1	9.1	5.5	109.5	24.2
Lutjanidae	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Mixed	0.3	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.3
Mugilidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nemipteridae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other demersals	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.4	0.1
Other pelagics	0.1	0.2	0.1	0.8	1.9	1.1	3.5	2.5	1.2	0.0	0.1	0.1	11.5	2.5
Others	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scomberoides	0.9	0.0	0.0	0.2	0.3	0.0	0.0	0.0	0.0	0.1	0.0	0.1	1.6	0.4
Shark and Ray	0.0	0.1	0.0	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.1
Scads	0.0	0.0	0.0	0.6	0.0	0.1	0.0	0.1	0.0	0.2	0.0	0.0	1.0	0.2
<i>S. commerson</i>	1.0	3.5	2.1	0.2	0.2	0.0	0.0	0.1	1.7	0.2	10.3	4.3	23.6	5.2
Scaridae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serranidae	5.5	4.1	9.8	8.4	4.6	3.7	7.7	13.2	9.7	14.2	17.0	3.8	101.6	22.4
Siganidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Sparidae	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
Total (mt)	44.1	26.3	51.6	36.6	22.2	17.4	36.7	49.4	35.4	44.3	66.0	22.5	452.5	100.0
Total (%)	9.7	5.8	11.4	8.1	4.9	3.8	8.1	10.9	7.8	9.8	14.6	5.0	100.0	

Table 4 (a) Total catch (tonnes) by month for tarad in the Emirate of Abu Dhabi.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Tot. (mt)	Tot. (%)
<i>A. bifasciatus</i>	2.0	0.0	0.6	0.0	0.0	0.1	2.4	0.7	0.0	0.0	0.0	2.4	8.3	0.4
<i>A. Spinifer</i>	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	2.2	2.3	0.1
Sphyraenidae	2.9	2.2	6.0	1.5	3.9	2.9	1.5	1.0	0.3	0.7	1.6	1.0	25.6	1.3
Carangidae	17.6	15.7	14.3	38.8	23.7	12.6	29.2	42.0	16.8	13.7	15.0	9.7	248.9	12.5
Clupeidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gerridae	12.6	22.5	10.4	3.5	3.9	5.5	2.3	6.0	27.3	29.9	9.4	10.7	143.9	7.2
Haemulidae	8.7	0.3	12.0	3.5	8.6	7.4	3.3	6.9	7.3	3.7	28.7	12.0	102.2	5.1
Lethrinidae	43.3	33.8	36.2	31.1	22.4	31.6	42.9	86.9	21.5	8.1	26.1	71.8	455.8	22.8
Lutjanidae	0.2	0.6	0.0	8.3	13.8	7.1	9.3	7.6	3.8	0.1	0.0	0.1	51.0	2.6
Mixed	0.7	0.2	1.2	0.3	0.6	0.3	0.4	0.3	0.0	0.3	1.6	0.1	6.0	0.3
Mugilidae	15.0	5.0	3.1	0.6	0.2	3.4	7.4	2.6	1.2	22.5	1.6	4.6	67.3	3.4
Nemipteridae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.6	1.6	0.1
Other demersals	1.0	2.0	0.8	1.9	0.2	0.3	0.2	8.5	0.3	0.7	1.6	2.8	20.4	1.0
Other pelagics	5.0	7.7	4.6	1.7	3.3	16.9	18.1	16.9	3.7	2.3	5.1	2.2	87.5	4.4
Others	0.3	0.3	0.1	0.0	0.1	0.7	0.9	0.0	0.1	2.4	19.9	0.6	25.4	1.3
Scomberoides	1.1	1.4	16.9	7.6	3.5	4.0	4.1	11.0	5.9	6.1	4.2	1.8	67.6	3.4
Shark and Ray	2.9	3.3	5.4	0.8	0.7	0.3	0.2	1.0	0.7	1.4	4.5	3.5	24.5	1.2
Scads	3.4	4.9	4.7	12.1	5.1	0.8	0.3	0.2	1.5	0.0	0.0	0.4	33.3	1.7
<i>S. commerson</i>	55.1	64.5	36.7	11.8	46.9	8.7	4.8	3.9	1.7	21.4	24.4	79.9	359.8	18.0
Scaridae	0.0	0.0	0.0	1.4	2.4	2.6	1.5	0.5	0.1	0.0	0.0	1.9	10.4	0.5
Serranidae	19.9	17.3	21.0	14.1	13.1	12.2	14.2	13.4	14.7	10.6	12.3	14.7	177.5	8.9
Siganidae	7.2	1.4	1.8	0.0	0.6	0.0	1.7	3.3	3.1	0.1	4.8	15.0	39.1	2.0
Other Sparidae	1.8	0.8	2.5	0.2	2.9	4.5	2.7	6.1	7.2	5.8	2.6	1.2	38.3	1.9
Total (mt)	200.8	183.8	178.2	139.3	155.8	122.1	147.5	218.9	118.1	129.8	163.4	239.1	1996.8	100.0
Total (%)	10.1	9.2	8.9	7.0	7.8	6.1	7.4	11.0	5.9	6.5	8.2	12.0	100.0	

Table 4 (b) Total catch (tonnes) by month for tarad in Eastern Abu Dhabi.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Tot. (mt)	Tot. (%)
<i>A. bifasciatus</i>	1.8	0.0	0.5	0.0	0.0	0.1	0.4	0.2	0.0	0.0	0.0	2.4	5.5	0.5
<i>A. Spinifer</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	2.2	2.2	0.2
Sphyraenidae	0.7	0.6	4.3	0.9	2.2	2.4	0.8	1.0	0.3	0.5	1.3	0.8	15.7	1.3
Carangidae	9.1	12.7	10.7	23.3	9.6	4.8	21.5	30.1	10.7	6.3	6.9	9.0	154.7	12.6
Clupeidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gerridae	8.9	18.8	10.4	3.5	3.9	5.5	2.3	6.0	26.1	26.7	8.9	10.7	131.6	10.7
Haemulidae	0.5	0.1	4.9	0.4	0.4	0.5	0.5	0.8	1.9	0.2	0.2	0.9	11.6	0.9
Lethrinidae	10.9	14.5	17.3	7.1	3.0	13.4	18.3	59.5	18.9	2.5	7.3	40.6	213.3	17.4
Lutjanidae	0.0	0.6	0.0	8.3	13.8	5.5	8.8	0.6	3.5	0.0	0.0	0.1	41.2	3.4
Mixed	0.7	0.2	1.0	0.3	0.6	0.3	0.4	0.3	0.0	0.2	1.5	0.1	5.5	0.5
Mugilidae	12.9	4.8	2.7	0.6	0.2	3.4	7.2	2.6	1.2	22.5	1.5	4.6	64.3	5.2
Nemipteridae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.6	1.6	0.1
Other demersals	0.8	2.0	0.7	1.6	0.2	0.1	0.2	7.1	0.3	0.3	1.5	2.3	17.1	1.4
Other pelagics	3.0	7.1	3.9	1.3	3.3	15.3	18.0	13.5	3.7	2.3	5.1	2.2	78.6	6.4
Others	0.3	0.3	0.1	0.0	0.1	0.7	0.9	0.0	0.1	2.4	19.9	0.6	25.4	2.1
Scomberoides	1.1	1.3	3.5	2.6	3.5	3.0	4.1	9.2	4.0	4.0	0.6	1.5	38.3	3.1
Shark and Ray	0.9	2.4	3.4	0.8	0.7	0.3	0.2	1.0	0.7	0.4	3.0	2.9	16.6	1.4
Scads	2.7	4.3	4.5	12.1	4.9	0.7	0.3	0.2	1.5	0.0	0.0	0.4	31.6	2.6
<i>S. commerson</i>	18.5	32.4	23.7	11.6	46.8	8.7	4.8	2.6	0.0	10.8	17.4	64.4	241.7	19.7
Scaridae	0.0	0.0	0.0	1.4	2.4	2.6	1.5	0.2	0.1	0.0	0.0	1.9	10.1	0.8
Serranidae	6.8	8.8	9.3	5.4	1.6	1.3	1.6	3.3	4.2	1.4	2.9	8.8	55.4	4.5
Siganidae	5.1	1.4	1.4	0.0	0.6	0.0	0.0	1.0	3.0	0.0	4.6	15.0	32.2	2.6
Other Sparidae	1.6	0.8	2.0	0.0	0.1	4.5	1.8	5.8	6.9	5.3	2.4	1.2	32.4	2.6
Total (mt)	86.3	113.2	104.2	81.4	98.1	73.0	93.5	145.1	88.1	85.9	85.1	173.1	1226.8	100.0
Total (%)	7.0	9.2	8.5	6.6	8.0	5.9	7.6	11.8	7.2	7.0	6.9	14.1	100.0	

Table 4 (c) Total catch (tonnes) by month for tarad in Western Abu Dhabi.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Tot. (mt)	Tot. (%)
<i>A. bifasciatus</i>	0.2	0.0	0.1	0.0	0.0	0.0	2.0	0.4	0.0	0.0	0.0	0.0	2.8	0.4
<i>A. Spinifer</i>	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Sphyraenidae	2.2	1.6	1.8	0.6	1.8	0.5	0.8	0.0	0.0	0.2	0.3	0.2	9.9	1.3
Carangidae	8.5	2.9	3.6	15.5	14.0	7.8	7.7	11.9	6.1	7.4	8.1	0.7	94.2	12.2
Clupeidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gerridae	3.8	3.6	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.2	0.5	0.0	12.3	1.6
Haemulidae	8.1	0.2	7.1	3.0	8.1	7.0	2.8	6.0	5.3	3.4	28.5	11.1	90.6	11.8
Lethrinidae	32.4	19.3	18.9	24.0	19.4	18.2	24.6	27.4	2.6	5.6	18.8	31.2	242.4	31.5
Lutjanidae	0.2	0.0	0.0	0.0	0.0	1.6	0.6	7.0	0.4	0.1	0.0	0.0	9.8	1.3
Mixed	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.5	0.1
Mugilidae	2.1	0.2	0.4	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.1	0.0	3.0	0.4
Nemipteridae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other demersals	0.3	0.0	0.2	0.2	0.0	0.3	0.0	1.5	0.0	0.4	0.1	0.5	3.3	0.4
Other pelagics	2.0	0.6	0.7	0.4	0.0	1.6	0.2	3.4	0.0	0.0	0.0	0.0	8.9	1.2
Others	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scomberoides	0.0	0.1	13.4	5.0	0.0	1.0	0.1	1.9	1.9	2.0	3.6	0.3	29.3	3.8
Shark and Ray	2.0	0.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.5	0.6	7.9	1.0
Scads	0.6	0.6	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.2
<i>S. commerson</i>	36.6	32.1	13.0	0.2	0.0	0.0	0.0	1.3	1.7	10.6	7.0	15.5	118.1	15.3
Scaridae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.3	0.0
Serranidae	13.1	8.5	11.7	8.7	11.4	10.9	12.6	10.0	10.4	9.2	9.4	6.0	122.1	15.9
Siganidae	2.0	0.0	0.4	0.0	0.0	0.0	1.7	2.4	0.1	0.1	0.2	0.0	6.9	0.9
Other Sparidae	0.3	0.0	0.4	0.2	2.8	0.0	0.9	0.4	0.3	0.6	0.1	0.0	5.9	0.8
Total (mt)	114.4	70.6	74.0	57.9	57.8	49.1	54.1	73.8	30.0	43.9	78.3	66.0	770.0	100.0
Total (%)	14.9	9.2	9.6	7.5	7.5	6.4	7.0	9.6	3.9	5.7	10.2	8.6	100.0	

Table 5 (a) Total catch (tonnes) and species composition for landings at Free Port.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Tot. (mt)	Tot. (%)
<i>A. bifasciatus</i>	5.9	14.4	3.9	0.5	1.2	3.4	9.0	30.7	22.6	20.2	2.1	10.1	124.1	2.9
<i>A. Spinifer</i>	11.7	32.1	15.2	19.2	16.7	5.1	7.4	0.6	1.2	0.0	2.0	25.6	136.8	3.1
Sphyraenidae	0.5	0.2	1.6	0.2	0.6	1.1	0.4	0.8	0.2	0.6	0.8	0.5	7.6	0.2
Carangidae	26.6	23.0	17.7	32.1	64.8	55.1	65.3	126.1	39.4	36.5	39.1	38.5	564.2	13.0
Clupeidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gerridae	2.6	7.2	3.1	1.0	1.3	1.7	0.7	3.2	16.1	16.5	4.4	3.4	61.0	1.4
Haemulidae	15.7	31.9	32.0	20.4	17.5	22.1	18.9	14.3	21.1	9.5	17.6	28.4	249.4	5.7
Lethrinidae	60.1	129.7	149.1	189.3	190.9	127.9	119.4	170.9	72.7	38.8	45.8	107.4	1402.1	32.3
Lutjanidae	0.4	1.4	0.8	5.9	5.1	2.1	4.1	1.7	2.7	0.2	0.8	0.7	25.8	0.6
Mixed	2.5	5.6	20.1	20.6	35.3	11.2	19.2	32.8	20.7	16.7	3.0	7.6	195.4	4.5
Mugilidae	3.8	1.8	0.8	0.2	0.1	1.1	2.1	1.4	0.8	13.8	0.8	1.5	28.0	0.6
Nemipteridae	1.4	2.8	3.7	0.1	0.2	2.5	3.1	1.0	3.8	0.4	0.3	2.2	21.5	0.5
Other demersals	1.8	6.2	8.1	4.7	6.9	0.3	6.2	15.2	5.0	2.2	4.0	5.9	66.4	1.5
Other pelagics	3.0	5.4	5.1	5.7	5.2	8.1	6.3	12.5	2.7	1.9	4.4	1.7	61.9	1.4
Others	0.1	0.3	0.0	0.0	0.5	0.3	0.3	0.0	0.4	2.2	17.2	12.2	33.4	0.8
Scomberoides	1.2	2.7	1.0	7.3	15.6	3.6	2.0	5.0	3.0	3.2	1.3	2.4	48.4	1.1
Shark and Ray	4.2	22.1	15.2	1.2	0.2	2.2	0.5	2.1	0.4	6.4	4.9	3.8	63.1	1.5
Scads	3.8	5.1	2.8	17.7	33.2	36.9	11.6	6.7	5.6	13.9	7.1	1.6	146.0	3.4
<i>S. commerson</i>	5.4	12.3	7.0	3.2	12.5	3.2	1.4	1.4	0.0	29.7	8.7	37.3	122.2	2.8
Scaridae	1.4	1.2	0.7	2.0	1.9	0.9	2.0	2.4	2.1	2.2	0.6	1.0	18.4	0.4
Serranidae	50.6	123.6	125.3	100.9	68.4	55.9	52.8	96.2	63.3	36.4	40.3	91.2	904.9	20.8
Siganidae	1.5	0.9	0.5	3.6	2.0	0.5	0.7	4.8	7.8	4.1	3.3	4.8	34.5	0.8
Other Sparidae	3.4	3.8	4.7	0.9	0.5	1.4	0.8	3.8	4.3	3.3	1.9	2.2	30.9	0.7
Total (mt)	207.8	433.8	418.2	436.7	480.3	346.7	334.2	533.4	295.8	258.8	210.5	389.9	4346.0	100.0
Total (%)	4.8	10.0	9.6	10.0	11.1	8.0	7.7	12.3	6.8	6.0	4.8	9.0	100.0	

Table 5 (b) Total catch (tonnes) and species composition for launch landings at Free Port.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Tot. (mt)	Tot. (%)
<i>A. bifasciatus</i>	5.4	14.4	3.7	0.5	1.2	3.4	8.9	30.6	22.6	20.2	2.1	9.4	122.4	3.2
<i>A. Spinifer</i>	11.7	32.1	15.2	19.2	16.7	5.1	7.4	0.6	1.2	0.0	2.0	25.0	136.1	3.5
Sphyraenidae	0.3	0.0	0.4	0.0	0.0	0.4	0.2	0.3	0.0	0.3	0.2	0.2	2.2	0.1
Carangidae	23.9	18.1	14.5	25.6	62.2	53.7	58.9	110.2	32.8	32.7	35.7	35.6	504.0	13.0
Clupeidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gerridae	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.3	0.0
Haemulidae	15.6	31.8	30.6	20.3	17.4	22.0	18.7	13.9	19.9	9.4	17.5	28.1	245.0	6.3
Lethrinidae	56.9	124.2	144.0	187.4	190.1	123.7	114.0	139.6	61.1	37.2	42.2	94.4	1314.7	34.0
Lutjanidae	0.4	1.2	0.8	3.6	1.4	0.3	1.5	1.4	0.6	0.2	0.8	0.7	12.8	0.3
Mixed	2.3	5.6	19.8	20.5	35.1	11.1	19.1	32.6	20.7	16.6	2.3	7.6	193.3	5.0
Mugilidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nemipteridae	1.4	2.8	3.7	0.1	0.2	2.5	3.1	1.0	3.2	0.4	0.3	2.0	20.7	0.5
Other demersals	1.5	5.4	7.9	4.3	6.9	0.3	6.1	11.4	4.8	2.0	3.2	5.2	59.0	1.5
Other pelagics	2.2	2.7	3.9	5.3	4.3	3.3	1.0	5.3	0.4	0.5	1.9	1.0	31.8	0.8
Others	0.0	0.2	0.0	0.0	0.4	0.1	0.0	0.0	0.4	0.7	7.4	12.0	21.1	0.5
Scomberoides	0.9	2.2	0.0	6.6	14.7	2.6	0.8	0.2	0.6	0.7	1.0	1.9	32.3	0.8
Shark and Ray	4.0	21.2	14.2	1.0	0.0	2.1	0.5	1.6	0.0	6.1	3.4	2.9	56.8	1.5
Scads	3.0	3.4	1.4	14.4	31.9	36.7	11.5	6.6	4.7	13.9	7.1	1.5	136.1	3.5
<i>S. commerson</i>	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	23.1	0.1	16.8	40.5	1.0
Scaridae	1.4	1.2	0.7	1.6	1.2	0.1	1.6	2.3	2.1	2.2	0.6	0.4	15.3	0.4
Serranidae	48.7	120.3	122.5	99.4	67.9	55.5	52.3	94.5	60.7	35.6	38.8	88.4	884.6	22.9
Siganidae	0.0	0.3	0.1	3.6	1.8	0.5	0.7	4.2	5.9	4.1	1.0	0.0	22.4	0.6
Other Sparidae	2.9	3.5	4.1	0.9	0.5	0.0	0.2	0.7	0.0	0.0	0.7	1.8	15.4	0.4
Total (mt)	182.6	390.7	387.4	414.1	454.2	323.8	306.5	456.9	241.5	206.0	168.2	334.7	3866.7	100.0
Total (%)	4.7	10.1	10.0	10.7	11.7	8.4	7.9	11.8	6.2	5.3	4.4	8.7	100.0	

Table 5 (c) Total catch (tonnes) and species composition for tarad landings at Free Port.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Tot. (mt)	Tot. (%)
<i>A. bifasciatus</i>	0.5	0.0	0.2	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.8	1.8	0.4
<i>A. Spinifer</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.1
Sphyraenidae	0.2	0.2	1.3	0.2	0.6	0.8	0.2	0.5	0.2	0.3	0.6	0.3	5.4	1.1
Carangidae	2.7	4.8	3.2	6.4	2.6	1.5	6.4	15.9	6.6	3.9	3.4	2.9	60.2	12.6
Clupeidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gerridae	2.6	7.2	3.1	1.0	1.0	1.7	0.7	3.2	16.1	16.4	4.4	3.4	60.7	12.7
Haemulidae	0.2	0.1	1.4	0.1	0.1	0.1	0.2	0.4	1.2	0.1	0.1	0.3	4.4	0.9
Lethrinidae	3.2	5.5	5.1	2.0	0.8	4.2	5.4	31.4	11.7	1.5	3.6	12.9	87.3	18.2
Lutjanidae	0.0	0.2	0.0	2.3	3.7	1.7	2.6	0.3	2.1	0.0	0.0	0.0	13.0	2.7
Mixed	0.2	0.1	0.3	0.1	0.2	0.1	0.1	0.2	0.0	0.1	0.7	0.0	2.1	0.4
Mugilidae	3.8	1.8	0.8	0.2	0.1	1.1	2.1	1.4	0.8	13.8	0.8	1.5	28.0	5.8
Nemipteridae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.2	0.8	0.2
Other demersals	0.2	0.8	0.2	0.5	0.0	0.0	0.1	3.7	0.2	0.2	0.7	0.7	7.4	1.5
Other pelagics	0.9	2.7	1.2	0.4	0.9	4.8	5.3	7.1	2.3	1.4	2.5	0.7	30.1	6.3
Others	0.1	0.1	0.0	0.0	0.0	0.2	0.3	0.0	0.1	1.5	9.9	0.2	12.4	2.6
Scomberoides	0.3	0.5	1.0	0.7	0.9	0.9	1.2	4.8	2.4	2.5	0.3	0.5	16.2	3.4
Shark and Ray	0.2	0.9	1.0	0.2	0.2	0.1	0.0	0.5	0.4	0.3	1.5	0.9	6.3	1.3
Scads	0.8	1.6	1.3	3.3	1.3	0.2	0.1	0.1	0.9	0.0	0.0	0.1	9.9	2.1
<i>S. commerson</i>	5.4	12.3	7.0	3.2	12.5	2.7	1.4	1.4	0.0	6.6	8.6	20.5	81.8	17.1
Scaridae	0.0	0.0	0.0	0.4	0.6	0.8	0.4	0.1	0.1	0.0	0.0	0.6	3.1	0.6
Serranidae	2.0	3.3	2.7	1.5	0.4	0.4	0.5	1.8	2.6	0.8	1.4	2.8	20.3	4.2
Siganidae	1.5	0.5	0.4	0.0	0.2	0.0	0.0	0.5	1.9	0.0	2.3	4.8	12.1	2.5
Other Sparidae	0.5	0.3	0.6	0.0	0.0	1.4	0.5	3.0	4.3	3.3	1.2	0.4	15.5	3.2
Total (mt)	25.3	43.0	30.8	22.5	26.2	22.8	27.7	76.5	54.3	52.8	42.2	55.2	479.3	100.0
Total (%)	5.3	9.0	6.4	4.7	5.5	4.8	5.8	16.0	11.3	11.0	8.8	11.5	100.0	

Table 6 Total catch (tonnes) and species composition for landings at Bateen.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Tot. (mt)	Tot. (%)
<i>A. bifasciatus</i>	0.6	0.0	0.1	0.0	0.0	0.1	0.2	0.1	0.0	0.0	0.0	0.5	1.6	0.4
<i>A. Spinifer</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.5	0.1
Sphyraenidae	0.2	0.2	0.8	0.3	0.9	1.0	0.4	0.3	0.1	0.1	0.3	0.2	4.8	1.3
Carangidae	3.2	3.3	1.9	8.3	4.2	2.0	10.8	8.7	2.7	1.3	1.6	1.9	49.9	13.7
Clupeidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gerridae	3.1	4.8	1.9	1.3	1.7	2.3	1.2	1.7	6.6	5.5	2.0	2.2	34.3	9.4
Haemulidae	0.2	0.0	0.9	0.2	0.2	0.2	0.3	0.2	0.5	0.1	0.1	0.2	2.9	0.8
Lethrinidae	3.9	3.7	3.1	2.5	1.3	5.6	9.2	17.3	4.8	0.5	1.6	8.4	62.0	17.0
Lutjanidae	0.0	0.2	0.0	3.0	5.9	2.3	4.4	0.2	0.9	0.0	0.0	0.0	16.9	4.6
Mixed	0.3	0.0	0.2	0.1	0.3	0.1	0.2	0.1	0.0	0.0	0.3	0.0	1.6	0.4
Mugilidae	4.6	1.2	0.5	0.2	0.1	1.4	3.6	0.8	0.3	4.7	0.3	1.0	18.7	5.1
Nemipteridae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.1	0.4	0.1
Other demersals	0.3	0.5	0.1	0.6	0.1	0.0	0.1	2.1	0.1	0.1	0.3	0.5	4.7	1.3
Other pelagics	1.0	1.8	0.7	0.5	1.4	6.4	9.0	3.9	0.9	0.5	1.2	0.4	27.9	7.6
Others	0.1	0.1	0.0	0.0	0.1	0.3	0.4	0.0	0.0	0.5	4.5	0.1	6.1	1.7
Scomberoides	0.4	0.3	0.6	0.9	1.5	1.3	2.0	2.7	1.0	0.8	0.1	0.3	12.0	3.3
Shark and Ray	0.3	0.6	0.6	0.3	0.3	0.1	0.1	0.3	0.2	0.1	0.7	0.6	4.1	1.1
Scads	1.0	1.1	0.8	4.3	2.1	0.3	0.1	0.1	0.4	0.0	0.0	0.1	10.3	2.8
<i>S. commerson</i>	6.5	8.3	4.3	4.1	20.2	3.7	2.4	0.8	0.0	2.2	3.9	13.4	69.9	19.2
Scaridae	0.0	0.0	0.0	0.5	1.0	1.1	0.7	0.1	0.0	0.0	0.0	0.4	3.9	1.1
Serranidae	2.4	2.2	1.7	1.9	0.7	0.5	0.8	1.0	1.1	0.3	0.7	1.8	15.1	4.1
Siganidae	1.8	0.4	0.3	0.0	0.3	0.0	0.0	0.3	0.8	0.0	1.0	3.1	7.9	2.2
Other Sparidae	0.5	0.2	0.4	0.0	0.0	1.9	0.9	1.7	1.7	1.1	0.6	0.3	9.3	2.5
Total (mt)	30.5	29.0	19.0	29.0	42.2	30.6	47.0	42.2	22.1	17.9	19.2	36.0	364.8	100.0
Total (%)	8.4	8.0	5.2	8.0	11.6	8.4	12.9	11.6	6.1	4.9	5.3	9.9	100.0	

Table 7 (a) Total catch (tonnes) and species composition for landings at Ghantoot.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Tot. (mt)	Tot. (%)
<i>A. bifasciatus</i>	0.3	0.4	0.2	0.0	0.0	0.1	0.4	0.9	1.2	0.8	0.1	0.7	5.2	2.0
<i>A. Spinifer</i>	0.3	0.8	0.5	1.1	0.4	0.2	0.3	0.0	0.1	0.0	0.1	1.7	5.5	2.2
Sphyraenidae	0.1	0.1	0.6	0.1	0.2	0.2	0.1	0.1	0.0	0.0	0.1	0.0	1.6	0.6
Carangidae	1.4	2.4	1.9	3.9	2.7	2.5	4.2	5.4	2.2	1.8	1.5	2.7	32.6	12.9
Clupeidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gerridae	0.8	2.9	1.4	0.4	0.4	0.4	0.2	0.4	1.1	1.7	0.3	0.4	10.6	4.2
Haemulidae	0.4	0.8	1.7	1.2	0.5	0.9	0.9	0.5	1.1	0.4	0.6	1.9	10.9	4.3
Lethrinidae	2.3	5.4	7.0	11.8	5.1	5.9	6.4	8.4	4.0	1.7	1.7	7.9	67.5	26.7
Lutjanidae	0.0	0.1	0.0	1.1	1.6	0.4	0.8	0.1	0.2	0.0	0.0	0.0	4.3	1.7
Mixed	0.1	0.2	0.8	1.2	1.0	0.5	0.8	1.0	1.1	0.7	0.1	0.5	8.0	3.1
Mugilidae	1.2	0.7	0.4	0.1	0.0	0.2	0.6	0.2	0.1	1.4	0.1	0.2	5.1	2.0
Nemipteridae	0.0	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.2	0.0	0.0	0.2	0.9	0.4
Other demersals	0.1	0.5	0.3	0.4	0.2	0.0	0.3	0.8	0.3	0.1	0.2	0.4	3.6	1.4
Other pelagics	0.3	1.2	0.7	0.4	0.5	1.2	1.5	1.1	0.2	0.2	0.3	0.2	7.6	3.0
Others	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.2	1.0	0.8	2.3	0.9
Scomberoides	0.1	0.3	0.5	0.7	0.8	0.3	0.4	0.7	0.2	0.3	0.1	0.2	4.3	1.7
Shark and Ray	0.2	0.9	0.9	0.1	0.1	0.1	0.0	0.1	0.0	0.3	0.2	0.3	3.3	1.3
Scads	0.3	0.8	0.7	2.1	1.4	1.5	0.5	0.2	0.3	0.6	0.2	0.1	8.7	3.4
<i>S. commerson</i>	1.8	5.0	3.2	1.2	5.3	0.6	0.4	0.2	0.0	1.7	0.7	3.7	23.6	9.4
Scaridae	0.0	0.0	0.0	0.2	0.3	0.2	0.2	0.1	0.1	0.1	0.0	0.1	1.4	0.6
Serranidae	1.7	4.4	5.2	6.4	1.9	2.3	2.4	3.0	3.3	1.6	1.5	6.2	39.9	15.8
Siganidae	0.5	0.2	0.2	0.2	0.1	0.0	0.0	0.2	0.4	0.2	0.2	0.6	2.9	1.1
Other Sparidae	0.2	0.2	0.4	0.1	0.0	0.3	0.2	0.4	0.3	0.3	0.1	0.2	2.7	1.1
Total (mt)	12.3	27.4	26.7	32.8	22.5	18.1	20.6	23.8	16.3	14.1	9.1	29.0	252.7	100.0
Total (%)	4.9	10.8	10.6	13.0	8.9	7.2	8.2	9.4	6.4	5.6	3.6	11.5	100.0	

Table 7 (b) Total catch (tonnes) and species composition for launch landings at Ghantoot.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Tot. (mt)	Tot. (%)
<i>A. bifasciatus</i>	0.1	0.4	0.1	0.0	0.0	0.1	0.4	0.9	1.2	0.8	0.1	0.6	4.8	3.2
<i>A. Spinifer</i>	0.3	0.8	0.5	1.1	0.4	0.2	0.3	0.0	0.1	0.0	0.1	1.7	5.4	3.6
Sphyraenidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Carangidae	0.5	0.5	0.5	1.5	1.6	2.2	2.5	3.2	1.7	1.4	1.2	2.4	19.1	12.7
Clupeidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gerridae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Haemulidae	0.3	0.8	1.0	1.2	0.4	0.9	0.8	0.4	1.0	0.4	0.6	1.9	9.8	6.5
Lethrinidae	1.3	3.2	4.7	11.0	4.8	5.0	4.9	4.1	3.1	1.6	1.5	6.3	51.3	34.0
Lutjanidae	0.0	0.0	0.0	0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.5	0.4
Mixed	0.1	0.1	0.6	1.2	0.9	0.4	0.8	1.0	1.1	0.7	0.1	0.5	7.5	5.0
Mugilidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nemipteridae	0.0	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.2	0.0	0.0	0.1	0.8	0.5
Other demersals	0.0	0.1	0.3	0.3	0.2	0.0	0.3	0.3	0.2	0.1	0.1	0.3	2.2	1.5
Other pelagics	0.0	0.1	0.1	0.3	0.1	0.1	0.0	0.2	0.0	0.0	0.1	0.1	1.2	0.8
Others	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.8	1.1	0.7
Scomberoides	0.0	0.1	0.0	0.4	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.1	1.2	0.8
Shark and Ray	0.1	0.5	0.5	0.1	0.0	0.1	0.0	0.0	0.0	0.3	0.1	0.2	1.9	1.2
Scads	0.1	0.1	0.0	0.8	0.8	1.5	0.5	0.2	0.2	0.6	0.2	0.1	5.2	3.4
<i>S. commerson</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.1	2.1	1.4
Scaridae	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0	0.6	0.4
Serranidae	1.1	3.1	4.0	5.8	1.7	2.2	2.3	2.8	3.1	1.5	1.4	5.9	34.7	23.0
Siganidae	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.1	0.3	0.2	0.0	0.0	1.0	0.6
Other Sparidae	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	0.4
Total (mt)	4.1	10.0	12.6	24.4	11.4	13.1	13.2	13.4	12.4	8.6	5.9	22.2	151.0	100.0
Total (%)	2.7	6.6	8.3	16.1	7.6	8.6	8.7	8.8	8.2	5.7	3.9	14.7	100.0	

Table 7 (c) Total catch (tonnes) and species composition for tarad landings at Ghantoot.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Tot. (mt)	Tot. (%)
<i>A. bifasciatus</i>	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.4
<i>A. Spinifer</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
Sphyraenidae	0.1	0.1	0.6	0.1	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	1.5	1.5
Carangidae	0.9	2.0	1.5	2.4	1.1	0.3	1.7	2.2	0.5	0.4	0.3	0.4	13.5	13.2
Clupeidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gerridae	0.8	2.9	1.4	0.4	0.4	0.4	0.2	0.4	1.1	1.7	0.3	0.4	10.6	10.4
Haemulidae	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	1.1	1.1
Lethrinidae	1.0	2.2	2.4	0.7	0.3	0.9	1.4	4.3	0.8	0.2	0.3	1.6	16.2	16.0
Lutjanidae	0.0	0.1	0.0	0.9	1.6	0.4	0.7	0.0	0.2	0.0	0.0	0.0	3.8	3.7
Mixed	0.1	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.5	0.5
Mugilidae	1.2	0.7	0.4	0.1	0.0	0.2	0.6	0.2	0.1	1.4	0.1	0.2	5.1	5.1
Nemipteridae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Other demersals	0.1	0.3	0.1	0.2	0.0	0.0	0.0	0.5	0.0	0.0	0.1	0.1	1.4	1.4
Other pelagics	0.3	1.1	0.5	0.1	0.4	1.1	1.4	1.0	0.2	0.1	0.2	0.1	6.5	6.3
Others	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.2	0.8	0.0	1.2	1.1
Scomberoides	0.1	0.2	0.5	0.3	0.4	0.2	0.3	0.7	0.2	0.3	0.0	0.1	3.1	3.1
Shark and Ray	0.1	0.4	0.5	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.1	0.1	1.5	1.4
Scads	0.3	0.7	0.6	1.2	0.6	0.1	0.0	0.0	0.1	0.0	0.0	0.0	3.5	3.5
<i>S. commerson</i>	1.8	5.0	3.2	1.2	5.3	0.6	0.4	0.2	0.0	0.7	0.7	2.6	21.5	21.2
Scaridae	0.0	0.0	0.0	0.1	0.3	0.2	0.1	0.0	0.0	0.0	0.0	0.1	0.8	0.8
Serranidae	0.6	1.3	1.3	0.6	0.2	0.1	0.1	0.2	0.2	0.1	0.1	0.3	5.2	5.1
Siganidae	0.5	0.2	0.2	0.0	0.1	0.0	0.0	0.1	0.1	0.0	0.2	0.6	1.9	1.9
Other Sparidae	0.1	0.1	0.3	0.0	0.0	0.3	0.1	0.4	0.3	0.3	0.1	0.0	2.2	2.2
Total (mt)	8.2	17.4	14.2	8.4	11.1	5.1	7.4	10.4	3.9	5.5	3.2	6.9	101.6	100.0
Total (%)	8.0	17.2	13.9	8.3	11.0	5.0	7.3	10.3	3.8	5.4	3.2	6.7	100.0	

Table 8 (a) Total catch (tonnes) and species composition for landings at Al Sadar.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Tot. (mt)	Tot. (%)
<i>A. bifasciatus</i>	1.1	0.4	0.3	0.0	0.0	0.1	1.7	0.4	1.4	0.8	0.2	1.3	7.8	1.6
<i>A. Spinifer</i>	1.2	1.0	0.3	0.6	0.6	0.1	1.4	0.0	0.1	0.0	0.2	1.8	7.3	1.5
Sphyraenidae	0.2	0.1	1.7	0.2	0.4	0.5	0.1	0.1	0.0	0.1	0.3	0.4	4.2	0.9
Carangidae	4.9	3.2	4.4	6.9	4.2	2.2	13.3	4.6	2.9	2.1	5.9	5.1	59.7	12.6
Clupeidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gerridae	2.3	3.9	4.0	0.9	0.7	1.1	0.3	0.7	2.3	3.0	2.1	4.6	26.0	5.5
Haemulidae	1.8	1.0	2.5	0.7	0.7	0.6	3.5	0.3	1.4	0.4	2.1	1.3	16.3	3.5
Lethrinidae	8.9	6.8	9.6	7.4	7.7	5.7	22.9	8.2	5.3	1.8	6.7	20.7	111.8	23.7
Lutjanidae	0.0	0.2	0.0	2.3	2.7	1.1	1.3	0.1	0.3	0.0	0.1	0.1	8.2	1.7
Mixed	0.4	0.2	0.8	0.7	1.4	0.3	3.5	0.4	1.2	0.7	0.6	0.3	10.7	2.3
Mugilidae	3.4	1.0	1.0	0.2	0.0	0.7	0.9	0.3	0.1	2.5	0.4	2.0	12.5	2.6
Nemipteridae	0.2	0.1	0.1	0.0	0.0	0.1	0.6	0.0	0.3	0.0	0.0	0.3	1.6	0.3
Other demersals	0.4	0.6	0.4	0.6	0.3	0.0	1.1	0.9	0.3	0.1	0.7	1.2	6.6	1.4
Other pelagics	1.0	1.6	1.6	0.5	0.8	3.1	2.4	1.6	0.3	0.3	1.4	1.0	15.5	3.3
Others	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.3	5.6	0.7	7.1	1.5
Scomberoides	0.4	0.3	1.3	0.9	1.2	0.7	0.6	1.0	0.4	0.5	0.3	0.7	8.3	1.8
Shark and Ray	0.6	1.1	1.6	0.2	0.1	0.1	0.1	0.1	0.1	0.3	1.1	1.3	6.9	1.5
Scads	1.0	1.0	1.8	3.6	2.1	1.0	2.1	0.1	0.4	0.6	0.8	0.2	14.8	3.1
<i>S. commerson</i>	4.8	6.8	9.2	3.0	8.9	1.7	0.6	0.3	0.0	2.2	4.2	28.5	70.1	14.8
Scaridae	0.2	0.0	0.0	0.4	0.5	0.5	0.5	0.1	0.1	0.1	0.1	0.8	3.3	0.7
Serranidae	7.0	5.5	6.1	4.3	2.9	1.6	9.7	1.5	4.0	1.6	5.3	6.7	56.1	11.9
Siganidae	1.3	0.3	0.5	0.1	0.2	0.0	0.1	0.2	0.6	0.2	1.2	6.5	11.3	2.4
Other Sparidae	0.7	0.3	0.9	0.0	0.0	0.9	0.3	0.6	0.6	0.6	0.7	0.6	6.2	1.3
Total (mt)	41.9	35.6	48.2	33.6	35.7	22.3	66.8	21.3	22.2	18.3	40.2	86.1	472.3	100.0
Total (%)	8.9	7.5	10.2	7.1	7.6	4.7	14.2	4.5	4.7	3.9	8.5	18.2	100.0	

Table 8 (b) Total catch (tonnes) and species composition for launch landings at Al Sadar.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Tot. (mt)	Tot. (%)
<i>A. bifasciatus</i>	0.6	0.4	0.1	0.0	0.0	0.1	1.6	0.4	1.4	0.8	0.2	0.3	6.0	3.1
<i>A. Spinifer</i>	1.2	1.0	0.3	0.6	0.6	0.1	1.3	0.0	0.1	0.0	0.2	0.8	6.3	3.3
Sphyraenidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Carangidae	2.6	0.6	0.3	0.8	2.3	1.3	10.7	1.3	2.0	1.4	4.2	1.2	28.5	14.9
Clupeidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gerridae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Haemulidae	1.7	1.0	0.6	0.6	0.7	0.5	3.4	0.2	1.2	0.4	2.1	0.9	13.2	6.9
Lethrinidae	6.1	3.8	3.0	5.5	7.2	3.0	20.6	1.6	3.7	1.6	5.0	3.1	64.0	33.5
Lutjanidae	0.0	0.0	0.0	0.1	0.1	0.0	0.3	0.0	0.0	0.0	0.1	0.0	0.7	0.4
Mixed	0.2	0.2	0.4	0.6	1.3	0.3	3.5	0.4	1.2	0.7	0.3	0.3	9.3	4.9
Mugilidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nemipteridae	0.2	0.1	0.1	0.0	0.0	0.1	0.6	0.0	0.2	0.0	0.0	0.1	1.3	0.7
Other demersals	0.2	0.2	0.2	0.1	0.3	0.0	1.1	0.1	0.3	0.1	0.4	0.2	3.1	1.6
Other pelagics	0.2	0.1	0.1	0.2	0.2	0.1	0.2	0.1	0.0	0.0	0.2	0.0	1.3	0.7
Others	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.4	1.3	0.7
Scomberoides	0.1	0.1	0.0	0.2	0.6	0.1	0.1	0.0	0.0	0.0	0.1	0.1	1.4	0.7
Shark and Ray	0.4	0.6	0.3	0.0	0.0	0.1	0.1	0.0	0.0	0.3	0.4	0.1	2.3	1.2
Scads	0.3	0.1	0.0	0.4	1.2	0.9	2.1	0.1	0.3	0.6	0.8	0.0	6.9	3.6
<i>S. commerson</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.6	1.5	0.8
Scaridae	0.2	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.1	0.1	0.1	0.0	0.9	0.5
Serranidae	5.2	3.7	2.5	2.9	2.6	1.3	9.5	1.1	3.6	1.5	4.6	2.9	41.4	21.6
Siganidae	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.4	0.2	0.1	0.0	1.0	0.5
Other Sparidae	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.7	0.4
Total (mt)	19.5	11.9	8.0	12.2	17.1	7.8	55.5	5.3	14.4	8.6	19.7	11.1	191.2	100.0
Total (%)	10.2	6.2	4.2	6.4	9.0	4.1	29.0	2.8	7.6	4.5	10.3	5.8	100.0	

Table 8 (c) Total catch (tonnes) and species composition for tarad landings at Al Sadar.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Tot. (mt)	Tot. (%)
<i>A. bifasciatus</i>	0.5	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.8	0.6
<i>A. Spinifer</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.3
Sphyraenidae	0.2	0.1	1.7	0.2	0.4	0.5	0.1	0.1	0.0	0.1	0.3	0.3	4.0	1.4
Carangidae	2.4	2.7	4.1	6.1	1.8	0.9	2.6	3.3	0.9	0.7	1.7	3.9	31.2	11.1
Clupeidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gerridae	2.3	3.9	4.0	0.9	0.7	1.1	0.3	0.7	2.3	3.0	2.1	4.6	26.0	9.3
Haemulidae	0.1	0.0	1.9	0.1	0.1	0.1	0.1	0.1	0.2	0.0	0.1	0.4	3.1	1.1
Lethrinidae	2.8	3.0	6.7	1.9	0.6	2.7	2.2	6.6	1.7	0.3	1.7	17.6	47.7	17.0
Lutjanidae	0.0	0.1	0.0	2.2	2.6	1.1	1.1	0.1	0.3	0.0	0.0	0.0	7.5	2.7
Mixed	0.2	0.0	0.4	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.4	0.0	1.4	0.5
Mugilidae	3.4	1.0	1.0	0.2	0.0	0.7	0.9	0.3	0.1	2.5	0.4	2.0	12.5	4.4
Nemipteridae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.3	0.4	0.1
Other demersals	0.2	0.4	0.3	0.4	0.0	0.0	0.0	0.8	0.0	0.0	0.4	1.0	3.6	1.3
Other pelagics	0.8	1.5	1.5	0.4	0.6	3.0	2.2	1.5	0.3	0.3	1.2	0.9	14.2	5.0
Others	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.3	4.8	0.3	5.8	2.1
Scomberoides	0.3	0.3	1.3	0.7	0.7	0.6	0.5	1.0	0.3	0.5	0.1	0.6	6.9	2.5
Shark and Ray	0.2	0.5	1.3	0.2	0.1	0.1	0.0	0.1	0.1	0.0	0.7	1.2	4.7	1.7
Scads	0.7	0.9	1.7	3.2	0.9	0.1	0.0	0.0	0.1	0.0	0.0	0.2	8.0	2.8
<i>S. commerson</i>	4.8	6.8	9.2	3.0	8.9	1.7	0.6	0.3	0.0	1.2	4.2	27.9	68.6	24.4
Scaridae	0.0	0.0	0.0	0.4	0.5	0.5	0.2	0.0	0.0	0.0	0.0	0.8	2.4	0.8
Serranidae	1.8	1.8	3.6	1.4	0.3	0.3	0.2	0.4	0.4	0.2	0.7	3.8	14.8	5.3
Siganidae	1.3	0.3	0.5	0.0	0.1	0.0	0.0	0.1	0.3	0.0	1.1	6.5	10.3	3.7
Other Sparidae	0.4	0.2	0.8	0.0	0.0	0.9	0.2	0.6	0.6	0.6	0.6	0.5	5.4	1.9
Total (mt)	22.4	23.7	40.3	21.4	18.6	14.5	11.3	16.0	7.8	9.7	20.4	75.0	281.1	100.0
Total (%)	8.0	8.4	14.3	7.6	6.6	5.2	4.0	5.7	2.8	3.5	7.3	26.7	100.0	

Table 9 (a) Total catch (tonnes) and species composition for landings at Sila.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Tot. (mt)	Tot. (%)
<i>A. bifasciatus</i>	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
<i>A. Spinifer</i>	0.0	0.4	0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.2
Sphyraenidae	0.1	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	1.6	0.6
Carangidae	0.0	0.6	1.1	0.3	0.8	7.1	3.6	4.5	5.0	7.2	4.5	0.7	35.3	12.7
Clupeidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gerridae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.6	0.1	0.0	1.7	0.6
Haemulidae	0.6	0.0	3.4	0.2	0.4	5.0	4.2	6.6	3.2	5.6	5.7	2.0	36.9	13.2
Lethrinidae	5.3	4.7	2.6	0.5	0.6	2.2	0.8	0.2	0.3	1.9	7.6	3.8	30.5	10.9
Lutjanidae	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1
Mixed	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0
Mugilidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nemipteridae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other demersals	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Other pelagics	0.1	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.2
Others	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scomberoides	0.0	0.0	12.7	0.2	0.1	0.0	0.0	0.0	1.6	1.5	3.0	0.3	19.5	7.0
Shark and Ray	0.0	0.1	1.5	0.3	0.2	0.0	0.0	0.0	0.0	0.8	1.3	0.6	4.8	1.7
Scads	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1
<i>S. commerson</i>	26.5	30.8	12.8	0.2	0.2	0.0	0.0	0.0	0.0	2.9	2.8	18.7	94.9	34.0
Scaridae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.3	0.1
Serranidae	1.1	0.8	2.0	1.1	0.5	3.7	4.4	7.6	8.3	9.7	5.6	3.4	48.2	17.3
Siganidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Sparidae	0.0	0.0	0.0	0.2	2.8	0.0	0.0	0.0	0.0	0.1	0.0	0.0	3.1	1.1
Total (mt)	33.9	38.1	37.3	2.9	5.8	18.3	13.1	19.2	18.6	31.3	30.7	29.7	278.9	100.0
Total (%)	12.2	13.7	13.4	1.0	2.1	6.5	4.7	6.9	6.7	11.2	11.0	10.7	100.0	

Table 9 (b) Total catch (tonnes) and species composition for launch landings at Sila.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Tot. (mt)	Tot. (%)
<i>A. bifasciatus</i>	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3
<i>A. Spinifer</i>	0.0	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.1
Sphyraenidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.4
Carangidae	0.0	0.0	0.0	0.0	0.0	0.9	1.2	1.8	0.0	0.2	0.2	0.0	4.2	8.4
Clupeidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gerridae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Haemulidae	0.0	0.0	0.0	0.0	0.0	3.3	3.0	5.0	1.6	2.2	1.9	0.0	16.9	33.4
Lethrinidae	0.9	0.3	0.2	0.0	0.0	0.1	0.4	0.0	0.0	0.0	0.0	0.4	2.2	4.3
Lutjanidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mixed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mugilidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nemipteridae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other demersals	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3
Other pelagics	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2
Others	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scomberoides	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6
Shark and Ray	0.0	0.1	0.0	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.1
Scads	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>S. commerson</i>	1.0	3.5	2.1	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	3.2	10.2	20.2
Scaridae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serranidae	0.1	0.0	0.0	0.0	0.0	1.4	2.6	4.5	1.9	2.4	2.0	0.0	15.0	29.8
Siganidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Sparidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total (mt)	2.0	4.4	2.7	0.7	0.5	5.7	7.2	11.3	3.5	4.9	4.1	3.7	50.5	100.0
Total (%)	3.9	8.7	5.3	1.3	0.9	11.2	14.2	22.3	7.0	9.7	8.1	7.3	100.0	

Table 9 (c) Total catch (tonnes) and species composition for tarad landings at Sila.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Tot. (mt)	Tot. (%)
<i>A. bifasciatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>A. Spinifer</i>	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Sphyraenidae	0.1	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.4	0.6
Carangidae	0.0	0.6	1.1	0.3	0.8	6.2	2.5	2.7	5.0	7.0	4.3	0.7	31.1	13.6
Clupeidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gerridae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.6	0.1	0.0	1.7	0.8
Haemulidae	0.6	0.0	3.4	0.2	0.4	1.8	1.2	1.6	1.7	3.3	3.8	2.0	20.0	8.8
Lethrinidae	4.4	4.4	2.4	0.5	0.6	2.1	0.4	0.2	0.3	1.9	7.6	3.4	28.3	12.4
Lutjanidae	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1
Mixed	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1
Mugilidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nemipteridae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other demersals	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other pelagics	0.1	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.2
Others	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scomberoides	0.0	0.0	12.7	0.0	0.0	0.0	0.0	0.0	1.6	1.5	3.0	0.3	19.2	8.4
Shark and Ray	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.3	0.6	4.2	1.8
Scads	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1
<i>S. commerson</i>	25.5	27.3	10.7	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.8	15.5	84.7	37.1
Scaridae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.3	0.1
Serranidae	1.0	0.8	2.0	1.1	0.5	2.3	1.8	3.1	6.4	7.3	3.6	3.4	33.1	14.5
Siganidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Sparidae	0.0	0.0	0.0	0.2	2.8	0.0	0.0	0.0	0.0	0.1	0.0	0.0	3.1	1.4
Total (mt)	32.0	33.7	34.6	2.2	5.4	12.6	5.9	7.9	15.1	26.4	26.6	26.0	228.4	100.0
Total (%)	14.0	14.7	15.2	1.0	2.3	5.5	2.6	3.5	6.6	11.6	11.6	11.4	100.0	

Table 10 (a) Total catch (tonnes) and species composition at Delma Is. and Jebel Dhana.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Tot. (mt)	Tot. (%)
<i>A. bifasciatus</i>	1.1	0.7	0.4	0.4	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	2.9	0.5
<i>A. Spinifer</i>	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.8	0.1
Sphyraenidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.0
Carangidae	5.0	1.5	2.6	3.5	10.5	4.7	6.5	8.4	5.1	6.4	6.9	0.6	61.7	10.3
Clupeidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gerridae	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.1
Haemulidae	11.2	6.2	13.4	17.6	11.6	8.0	11.1	15.1	16.2	17.7	48.1	16.9	193.0	32.3
Lethrinidae	43.9	9.1	29.1	8.2	8.0	5.8	5.0	6.3	5.1	3.1	16.5	33.0	173.1	29.0
Lutjanidae	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Mixed	0.3	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.2
Mugilidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nemipteridae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other demersals	0.0	0.0	0.2	0.2	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.5	1.1	0.2
Other pelagics	0.1	0.2	0.0	1.1	1.9	2.7	3.5	2.9	1.2	0.0	0.1	0.1	13.9	2.3
Others	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scomberoides	0.9	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.1	1.4	0.2
Shark and Ray	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scads	0.0	0.0	0.0	0.6	0.0	0.1	0.0	0.1	0.0	0.2	0.0	0.0	1.0	0.2
<i>S. commerson</i>	0.7	0.0	0.0	0.2	0.0	0.0	0.0	1.4	3.4	7.3	14.2	1.1	28.3	4.7
Scaridae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serranidae	10.9	4.5	13.0	11.3	7.2	6.4	6.8	10.5	9.1	11.8	19.9	6.3	117.8	19.7
Siganidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Sparidae	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
Total (mt)	75.2	23.0	59.2	43.2	39.7	27.8	33.1	45.0	40.3	46.5	105.9	58.8	597.6	100.0
Total (%)	12.6	3.8	9.9	7.2	6.6	4.6	5.5	7.5	6.7	7.8	17.7	9.8	100.0	

Table 10 (b) Total catch (tonnes) for launch at Delma Is. and Jebel Dhana.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Tot. (mt)	Tot. (%)
<i>A. bifasciatus</i>	0.9	0.7	0.3	0.4	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	2.6	0.6
<i>A. Spinifer</i>	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.8	0.2
Sphyraenidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.0
Carangidae	0.4	1.5	2.6	2.8	3.8	3.1	6.2	7.9	4.6	6.4	3.6	0.6	43.5	10.8
Clupeidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gerridae	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.2
Haemulidae	4.6	6.0	11.0	16.1	6.0	2.8	10.1	13.4	12.6	17.7	23.6	7.7	131.7	32.8
Lethrinidae	28.6	8.7	24.9	6.9	5.0	2.3	4.5	5.2	3.9	3.1	9.1	5.1	107.3	26.7
Lutjanidae	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Mixed	0.3	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.3
Mugilidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nemipteridae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other demersals	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.3	0.1
Other pelagics	0.1	0.2	0.0	0.8	1.9	1.1	3.5	2.5	1.2	0.0	0.1	0.1	11.4	2.8
Others	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scomberoides	0.9	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.1	1.4	0.3
Shark and Ray	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scads	0.0	0.0	0.0	0.6	0.0	0.1	0.0	0.1	0.0	0.2	0.0	0.0	1.0	0.2
<i>S. commerson</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.7	0.2	10.3	1.1	13.4	3.3
Scaridae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serranidae	5.4	4.1	9.8	8.4	4.6	2.3	5.0	8.7	7.7	11.8	15.0	3.8	86.5	21.5
Siganidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Sparidae	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
Total (mt)	42.1	21.9	49.0	35.9	21.7	11.7	29.6	38.1	31.9	39.4	61.9	18.8	402.0	100.0
Total (%)	10.5	5.4	12.2	8.9	5.4	2.9	7.4	9.5	7.9	9.8	15.4	4.7	100.0	

Table 10 (c) Total catch (tonnes) for tarad at Delma Is. and Jebel Dhana.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Tot. (mt)	Tot. (%)
<i>A. bifasciatus</i>	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2
<i>A. Spinifer</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sphyraenidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Carangidae	4.5	0.0	0.0	0.7	6.7	1.6	0.2	0.5	0.5	0.0	3.4	0.0	18.2	9.3
Clupeidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gerridae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Haemulidae	6.6	0.2	2.4	1.5	5.7	5.2	0.9	1.7	3.6	0.0	24.5	9.1	61.4	31.4
Lethrinidae	15.4	0.4	4.2	1.3	3.0	3.5	0.5	1.1	1.2	0.0	7.3	27.8	65.8	33.6
Lutjanidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mixed	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1
Mugilidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nemipteridae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other demersals	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.9	0.4
Other pelagics	0.1	0.0	0.0	0.4	0.0	1.6	0.0	0.4	0.0	0.0	0.0	0.0	2.5	1.3
Others	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scomberoides	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Shark and Ray	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scads	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>S. commerson</i>	0.7	0.0	0.0	0.2	0.0	0.0	0.0	1.3	1.7	7.1	3.9	0.0	14.9	7.6
Scaridae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serranidae	5.6	0.4	3.2	3.0	2.6	4.1	1.8	1.8	1.4	0.0	5.0	2.5	31.3	16.0
Siganidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Sparidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total (mt)	33.1	1.1	10.3	7.3	18.0	16.0	3.5	6.8	8.4	7.1	44.1	40.0	195.6	100.0
Total (%)	16.9	0.6	5.3	3.7	9.2	8.2	1.8	3.5	4.3	3.6	22.5	20.4	100.0	

Table 11 Total catch (tonnes) and species composition for landings at Mirfa.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Tot. (mt)	Tot. (%)
<i>A. bifasciatus</i>	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.4	0.0	0.0	0.0	0.0	2.4	0.7
<i>A. Spinifer</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sphyraenidae	2.0	1.1	1.2	0.6	1.8	0.5	0.8	0.0	0.0	0.2	0.3	0.0	8.4	2.4
Carangidae	4.0	2.4	2.5	14.5	6.4	0.0	5.0	8.7	0.5	0.4	0.4	0.0	44.9	13.0
Clupeidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gerridae	3.8	3.6	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.7	0.4	0.0	10.6	3.1
Haemulidae	0.9	0.0	1.3	1.3	2.1	0.0	0.6	2.7	0.1	0.1	0.2	0.0	9.2	2.7
Lethrinidae	12.6	14.5	12.2	22.2	15.9	12.6	23.7	26.1	1.1	3.7	3.9	0.0	148.4	42.9
Lutjanidae	0.0	0.0	0.0	0.0	0.0	1.6	0.5	7.0	0.4	0.1	0.0	0.0	9.5	2.8
Mixed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0
Mugilidae	2.1	0.2	0.4	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.1	0.0	3.0	0.9
Nemipteridae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other demersals	0.3	0.0	0.0	0.0	0.0	0.3	0.0	1.5	0.0	0.4	0.1	0.0	2.4	0.7
Other pelagics	1.9	0.3	0.5	0.0	0.0	0.0	0.2	3.0	0.0	0.0	0.0	0.0	5.9	1.7
Others	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scomberoides	0.0	0.1	0.7	5.0	0.0	1.0	0.1	1.8	0.3	0.5	0.6	0.0	10.1	2.9
Shark and Ray	2.0	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	3.7	1.1
Scads	0.6	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.4
<i>S. commerson</i>	10.4	4.9	2.4	0.1	0.0	0.0	0.0	0.0	0.0	0.7	0.2	0.0	18.6	5.4
Scaridae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serranidae	6.5	7.3	6.5	4.7	8.3	4.5	9.1	5.2	2.7	1.9	0.9	0.0	57.7	16.7
Siganidae	2.0	0.0	0.4	0.0	0.0	0.0	1.7	2.4	0.1	0.1	0.2	0.0	6.9	2.0
Other Sparidae	0.3	0.0	0.4	0.0	0.0	0.0	0.9	0.4	0.3	0.4	0.1	0.0	2.8	0.8
Total (mt)	49.4	35.8	29.2	48.4	34.4	20.4	44.7	59.1	6.6	10.5	7.6	0.0	346.1	100.0
Total (%)	14.3	10.4	8.4	14.0	9.9	5.9	12.9	17.1	1.9	3.0	2.2	0.0	100.0	

Table 12 (a) Total number of trips by site in the Emirate of Abu Dhabi.

	Bateen	Dalma & Jebel Dhana	Free Port	Ghantoot	Mirfa	Sadar	Sila	Total no.	Total (%)
JAN	236	229	417	68	644	197	443	2235	9.7
FEB	140	76	622	95	446	127	477	1983	8.6
MAR	130	211	587	109	393	283	468	2180	9.4
APR	226	185	562	88	700	178	85	2024	8.8
MAY	252	129	597	78	467	127	52	1701	7.4
JUN	254	189	561	57	506	129	183	1879	8.1
JUL	276	205	522	59	658	132	105	1957	8.5
AUG	171	254	792	56	509	70	143	1995	8.6
SEPT	128	219	608	38	173	63	234	1462	6.3
OCT	109	320	571	44	171	70	289	1573	6.8
NOV	104	498	467	26	204	139	216	1653	7.2
DEC	221	220	740	69	413	474	310	2447	10.6
Total no.	2248	2735	7044	786	5283	1989	3005	23089	100.0
Total (%)	9.7	11.8	30.5	3.4	22.9	8.6	13.0	100.0	

Table 12 (b) Total number trips by site in Eastern Abu Dhabi.

	Bateen	Free Port	Ghantoot	Sadar	Total no.	Total (%)
JAN	236	417	68	197	918	7.6
FEB	140	622	95	127	985	8.2
MAR	130	587	109	283	1108	9.2
APR	226	562	88	178	1053	8.7
MAY	252	597	78	127	1054	8.7
JUN	254	561	57	129	1001	8.3
JUL	276	522	59	132	989	8.2
AUG	171	792	56	70	1090	9.0
SEPT	128	608	38	63	836	6.9
OCT	109	571	44	70	794	6.6
NOV	104	467	26	139	735	6.1
DEC	221	740	69	474	1503	12.5
Total no.	2248	7044	786	1989	12066	100.0
Total (%)	18.6	58.4	6.5	16.5	100.0	

Table 12 (c) Total number of trips by site in Western Abu Dhabi.

	Delma & Jebel Dhana	Mirfa	Sila	Total no.	Total (%)
JAN	229	644	443	1316	11.9
FEB	76	446	477	999	9.1
MAR	211	393	468	1071	9.7
APR	185	700	85	970	8.8
MAY	129	467	52	648	5.9
JUN	189	506	183	878	8.0
JUL	205	658	105	968	8.8
AUG	254	509	143	906	8.2
SEPT	219	173	234	626	5.7
OCT	320	171	289	779	7.1
NOV	498	204	216	918	8.3
DEC	220	413	310	944	8.6
Total no.	2735	5283	3005	11023	100.0
Total (%)	24.8	47.9	27.3	100.0	

Table 13 (a) Total number of launch trips by site in the Emirate of Abu Dhabi.

	Bateen	Delma & Jebel Dhana	Free Port	Ghantoot	Mirfa	Sadar	Sila	Total no.	Total (%)
JAN	0	96	221	5	0	24	47	392	6.1
FEB	0	69	414	11	0	13	61	567	8.8
MAR	0	140	377	12	0	8	37	573	8.9
APR	0	135	387	23	0	11	15	571	8.9
MAY	0	78	441	11	0	17	10	556	8.6
JUN	0	51	372	15	0	9	21	468	7.3
JUL	0	127	360	16	0	65	31	598	9.3
AUG	0	152	482	14	0	6	40	694	10.8
SEPT	0	126	293	15	0	18	51	502	7.8
OCT	0	136	248	10	0	10	25	429	6.7
NOV	0	261	238	8	0	28	21	556	8.6
DEC	0	65	401	27	0	13	31	537	8.3
Total no.	0	1435	4232	166	0	221	391	6444	100.0
Total (%)	0.0	22.3	65.7	2.6	0.0	3.4	6.1	100.0	

Table 13 (b) Total number of launch trips by site in Eastern Abu Dhabi.

	Bateen	Free Port	Ghantoot	Sadar	Total no.	Total (%)
JAN	0	221	5	24	249	5.4
FEB	0	414	11	13	437	9.5
MAR	0	377	12	8	397	8.6
APR	0	387	23	11	421	9.1
MAY	0	441	11	17	468	10.1
JUN	0	372	15	9	396	8.6
JUL	0	360	16	65	440	9.5
AUG	0	482	14	6	502	10.9
SEPT	0	293	15	18	325	7.0
OCT	0	248	10	10	269	5.8
NOV	0	238	8	28	274	5.9
DEC	0	401	27	13	441	9.5
Total no.	0	4232	166	221	4619	100.0
Total (%)	0.0	91.6	3.6	4.8	100.0	

Table 13 (c) Total number of launch landings by site in Western Abu Dhabi.

	Delma & Jebel Dhana	Mirfa	Sila	Total no.	Total (%)
JAN	96	0	47	143	7.8
FEB	69	0	61	130	7.1
MAR	140	0	37	177	9.7
APR	135	0	15	150	8.2
MAY	78	0	10	88	4.8
JUN	51	0	21	72	3.9
JUL	127	0	31	158	8.7
AUG	152	0	40	192	10.5
SEPT	126	0	51	177	9.7
OCT	136	0	25	161	8.8
NOV	261	0	21	282	15.4
DEC	65	0	31	96	5.3
Total no.	1435	0	391	1825	100.0
Total (%)	78.6	0.0	21.4	100.0	

Table 14 (a) Total number of tarad trips by site in the Emirate of Abu Dhabi.

	Bateen	Delma & Jebel Dhana	Free Port	Ghantoot	Mirfa	Sadar	Sila	Total no.	Total (%)
JAN	236	133	196	63	644	174	397	1843	11.1
FEB	140	7	208	84	446	115	416	1416	8.5
MAR	130	71	210	97	393	275	431	1607	9.7
APR	226	50	175	65	700	167	70	1452	8.7
MAY	252	52	156	66	467	111	41	1145	6.9
JUN	254	138	189	42	506	120	162	1411	8.5
JUL	276	78	163	43	658	67	74	1359	8.2
AUG	171	102	310	42	509	65	102	1302	7.8
SEPT	128	93	315	23	173	45	183	960	5.8
OCT	109	184	323	34	171	59	264	1144	6.9
NOV	104	237	229	18	204	111	195	1097	6.6
DEC	221	155	339	42	413	461	279	1910	11.5
Total no.	2248	1300	2813	619	5283	1768	2614	16645	100.0
Total (%)	13.5	7.8	16.9	3.7	31.7	10.6	15.7	100.0	

Table 14 (b) Total number of tarad trips by site in Eastern Abu Dhabi.

	Bateen	Free Port	Ghantoot	Sadar	Total no.	Total (%)
JAN	236	196	63	174	669	9.0
FEB	140	208	84	115	548	7.4
MAR	130	210	97	275	712	9.6
APR	226	175	65	167	632	8.5
MAY	252	156	66	111	585	7.9
JUN	254	189	42	120	605	8.1
JUL	276	163	43	67	549	7.4
AUG	171	310	42	65	588	7.9
SEPT	128	315	23	45	511	6.9
OCT	109	323	34	59	525	7.1
NOV	104	229	18	111	461	6.2
DEC	221	339	42	461	1063	14.3
Total no.	2248	2813	619	1768	7448	100.0
Total (%)	30.2	37.8	8.3	23.7	100.0	

Table 14 (c) Total number of tarad trips by site in Western Abu Dhabi.

	Delma & Jebel Dhana	Mirfa	Sila	Total no.	Total (%)
JAN	133	644	397	1174	12.8
FEB	7	446	416	869	9.4
MAR	71	393	431	895	9.7
APR	50	700	70	820	8.9
MAY	52	467	41	560	6.1
JUN	138	506	162	806	8.8
JUL	78	658	74	810	8.8
AUG	102	509	102	714	7.8
SEPT	93	173	183	449	4.9
OCT	184	171	264	618	6.7
NOV	237	204	195	636	6.9
DEC	155	413	279	847	9.2
Total no.	1300	5283	2614	9197	100.0
Total (%)	14.1	57.4	28.4	100.0	

Table 15 (a) Mean daily landings by site in the Emirate of Abu Dhabi.

	Bateen	Delma & Jebel Dhana	Free Port	Ghantoot	Mirfa	Sadar	Sila	Total
JAN	7.6	7.4	13.4	2.2	20.8	6.4	14.3	72.1
FEB	5.0	2.6	21.5	3.3	15.4	4.4	16.4	68.6
MAR	4.2	6.8	18.9	3.5	12.7	9.1	15.1	70.3
APR	7.5	6.2	18.7	2.9	23.3	5.9	2.8	67.5
MAY	8.2	4.2	19.3	2.5	15.1	4.1	1.7	54.9
JUN	8.5	6.3	18.7	1.9	16.9	4.3	6.1	62.6
JUL	8.9	6.6	16.9	1.9	21.2	4.3	3.4	63.2
AUG	5.5	8.2	25.5	1.8	16.4	2.3	4.6	64.4
SEPT	4.3	7.3	20.3	1.3	5.8	2.1	7.8	48.7
OCT	3.5	10.3	18.4	1.4	5.5	2.3	9.3	50.8
NOV	3.5	16.6	15.6	0.9	6.8	4.6	7.2	55.1
DEC	7.2	7.1	23.9	2.2	13.3	15.3	10.0	79.0
Mean	6.2	7.5	19.2	2.1	14.4	5.4	8.2	

Table 15 (b) Mean daily landings by site in Eastern Abu Dhabi.

	Bateen	Free Port	Ghantoot	Sadar	Total
JAN	7.6	13.4	2.2	6.4	29.6
FEB	5.0	21.5	3.3	4.4	34.1
MAR	4.2	18.9	3.5	9.1	35.8
APR	7.5	18.7	2.9	5.9	35.1
MAY	8.2	19.3	2.5	4.1	34.0
JUN	8.5	18.7	1.9	4.3	33.4
JUL	8.9	16.9	1.9	4.3	31.9
AUG	5.5	25.5	1.8	2.3	35.2
SEPT	4.3	20.3	1.3	2.1	27.9
OCT	3.5	18.4	1.4	2.3	25.6
NOV	3.5	15.6	0.9	4.6	24.5
DEC	7.2	23.9	2.2	15.3	48.5
Mean	6.2	19.2	2.1	5.4	

Table 15 (c) Mean daily landings by site in Western Abu Dhabi.

	Delma & Jebel Dhana	Mirfa	Sila	Total
JAN	7.4	20.8	14.3	42.5
FEB	2.6	15.4	16.4	34.4
MAR	6.8	12.7	15.1	34.6
APR	6.2	23.3	2.8	32.3
MAY	4.2	15.1	1.7	20.9
JUN	6.3	16.9	6.1	29.3
JUL	6.6	21.2	3.4	31.2
AUG	8.2	16.4	4.6	29.2
SEPT	7.3	5.8	7.8	20.9
OCT	10.3	5.5	9.3	25.1
NOV	16.6	6.8	7.2	30.6
DEC	7.1	13.3	10.0	30.4
Mean	7.5	14.4	8.2	

Table 16 (a) Mean daily launch landings by site in the Emirate of Abu Dhabi.

	Al Bateen	Delma & Jebel Dhana	Free Port	Ghantoot	Mirfa	Sadar	Sila	Total
JAN	0.0	3.1	7.1	0.2	0.0	0.8	1.5	12.6
FEB	0.0	2.4	14.3	0.4	0.0	0.4	2.1	19.6
MAR	0.0	4.5	12.2	0.4	0.0	0.3	1.2	18.5
APR	0.0	4.5	12.9	0.8	0.0	0.4	0.5	19.0
MAY	0.0	2.5	14.2	0.4	0.0	0.5	0.3	17.9
JUN	0.0	1.7	12.4	0.5	0.0	0.3	0.7	15.6
JUL	0.0	4.1	11.6	0.5	0.0	2.1	1.0	19.3
AUG	0.0	4.9	15.5	0.5	0.0	0.2	1.3	22.4
SEPT	0.0	4.2	9.8	0.5	0.0	0.6	1.7	16.7
OCT	0.0	4.4	8.0	0.3	0.0	0.3	0.8	13.9
NOV	0.0	8.7	7.9	0.3	0.0	0.9	0.7	18.5
DEC	0.0	2.1	12.9	0.9	0.0	0.4	1.0	17.3
Mean	0.0	3.9	11.6	0.5	0.0	0.6	1.1	

Table 16 (b) Mean daily launch landings by site in Eastern Abu Dhabi.

	Bateen	Free Port	Ghantoot	Sadar	Total
JAN	0.0	7.1	0.2	0.8	8.0
FEB	0.0	14.3	0.4	0.4	15.1
MAR	0.0	12.2	0.4	0.3	12.8
APR	0.0	12.9	0.8	0.4	14.0
MAY	0.0	14.2	0.4	0.5	15.1
JUN	0.0	12.4	0.5	0.3	13.2
JUL	0.0	11.6	0.5	2.1	14.2
AUG	0.0	15.5	0.5	0.2	16.2
SEPT	0.0	9.8	0.5	0.6	10.8
OCT	0.0	8.0	0.3	0.3	8.7
NOV	0.0	7.9	0.3	0.9	9.1
DEC	0.0	12.9	0.9	0.4	14.2
Mean	0.0	11.6	0.5	0.6	12.6

Table 16 (c) Mean daily launch landings by site in Western Abu Dhabi.

	Delma & Jebel Dhana	Mirfa	Sila	Total
JAN	3.1	0.0	1.5	4.6
FEB	2.4	0.0	2.1	4.5
MAR	4.5	0.0	1.2	5.7
APR	4.5	0.0	0.5	5.0
MAY	2.5	0.0	0.3	2.8
JUN	1.7	0.0	0.7	2.4
JUL	4.1	0.0	1.0	5.1
AUG	4.9	0.0	1.3	6.2
SEPT	4.2	0.0	1.7	5.9
OCT	4.4	0.0	0.8	5.2
NOV	8.7	0.0	0.7	9.4
DEC	2.1	0.0	1.0	3.1
Mean	3.9	0.0	1.1	5.0

Table 17 (a) Mean daily tarad landings by site in the Emirate of Abu Dhabi.

	Bateen	Delma & Jebel Dhana	Free Port	Ghantoot	Mirfa	Sadar	Sila	Total
JAN	7.6	4.3	6.3	2.0	20.8	5.6	12.8	59.5
FEB	5.0	0.3	7.2	2.9	15.4	4.0	14.3	49.0
MAR	4.2	2.3	6.8	3.1	12.7	8.9	13.9	51.8
APR	7.5	1.7	5.8	2.2	23.3	5.6	2.3	48.4
MAY	8.2	1.7	5.0	2.1	15.1	3.6	1.3	37.0
JUN	8.5	4.6	6.3	1.4	16.9	4.0	5.4	47.0
JUL	8.9	2.5	5.3	1.4	21.2	2.2	2.4	43.9
AUG	5.5	3.3	10.0	1.4	16.4	2.1	3.3	42.0
SEPT	4.3	3.1	10.5	0.8	5.8	1.5	6.1	32.0
OCT	3.5	5.9	10.4	1.1	5.5	1.9	8.5	36.9
NOV	3.5	7.9	7.6	0.6	6.8	3.7	6.5	36.6
DEC	7.2	5.0	10.9	1.4	13.3	14.9	9.0	61.6
Mean	6.2	3.5	7.7	1.7	14.4	4.8	7.2	

Table 17 (b) Mean daily tarad landings by site in Eastern Abu Dhabi.

	Bateen	Free Port	Ghantoot	Sadar	Total
JAN	7.6	6.3	2.0	5.6	21.6
FEB	5.0	7.2	2.9	4.0	19.1
MAR	4.2	6.8	3.1	8.9	23.0
APR	7.5	5.8	2.2	5.6	21.1
MAY	8.2	5.0	2.1	3.6	18.9
JUN	8.5	6.3	1.4	4.0	20.2
JUL	8.9	5.3	1.4	2.2	17.7
AUG	5.5	10.0	1.4	2.1	19.0
SEPT	4.3	10.5	0.8	1.5	17.0
OCT	3.5	10.4	1.1	1.9	17.0
NOV	3.5	7.6	0.6	3.7	15.4
DEC	7.2	10.9	1.4	14.9	34.3
Mean	6.2	7.7	1.7	4.8	

Table 17 (c) Mean daily tarad landings by site in Western Abu Dhabi.

	Delma & Jebel Dhana	Mirfa	Sila	Total
JAN	4.3	20.8	12.8	37.9
FEB	0.3	15.4	14.3	29.9
MAR	2.3	12.7	13.9	28.9
APR	1.7	23.3	2.3	27.3
MAY	1.7	15.1	1.3	18.1
JUN	4.6	16.9	5.4	26.9
JUL	2.5	21.2	2.4	26.1
AUG	3.3	16.4	3.3	23.0
SEPT	3.1	5.8	6.1	15.0
OCT	5.9	5.5	8.5	20.0
NOV	7.9	6.8	6.5	21.2
DEC	5.0	13.3	9.0	27.3
Mean	3.5	14.4	7.2	

Table 18 (a) CPUE (kg/trip) for launch in the Emirate of Abu Dhabi.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Mean	(%)
<i>A. bifasciatus</i>	17.8	28.3	7.4	1.5	2.5	7.8	18.5	46.0	50.1	51.0	4.3	19.2	21.2	3.0
<i>A. Spinifer</i>	34.9	60.4	28.4	36.6	31.8	11.6	15.2	0.9	2.6	0.0	4.3	51.6	23.2	3.2
Sphyraenidae	1.0	0.0	0.6	0.0	0.0	0.8	0.4	0.4	0.0	1.0	0.5	0.6	0.5	0.1
Carangidae	70.0	36.3	31.2	53.8	125.7	130.6	132.9	179.3	81.9	97.7	80.6	74.1	91.2	12.7
Clupeidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gerridae	1.4	0.0	0.0	0.0	0.4	0.1	0.0	0.1	0.0	0.2	0.0	0.0	0.2	0.0
Haemulidae	56.6	69.9	75.4	66.7	44.0	62.9	60.2	47.3	72.3	70.1	82.2	71.9	64.9	9.0
Lethrinidae	239.2	247.1	308.1	369.2	372.3	286.5	241.3	216.9	143.0	101.1	103.8	203.7	236.0	32.9
Lutjanidae	1.1	2.2	1.4	6.8	2.8	0.8	3.1	2.1	1.3	0.5	1.6	1.4	2.1	0.3
Mixed	7.6	11.5	36.6	39.2	67.1	25.3	39.0	49.0	45.7	41.9	4.8	15.5	31.9	4.4
Mugilidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nemipteridae	4.1	5.3	6.8	0.1	0.3	5.6	6.4	1.5	7.0	1.0	0.7	4.0	3.6	0.5
Other demersals	4.4	10.3	14.5	8.2	13.2	0.7	12.7	17.2	10.7	4.9	6.7	10.6	9.5	1.3
Other pelagics	6.4	5.5	7.3	11.4	11.6	9.9	7.8	11.6	3.2	1.3	4.0	2.2	6.9	1.0
Others	0.0	0.3	0.0	0.0	0.8	0.2	0.0	0.0	0.8	1.8	15.2	24.5	3.6	0.5
Scomberoides	4.8	4.1	0.0	12.9	28.7	6.0	1.6	0.3	1.4	1.9	2.2	4.2	5.7	0.8
Shark and Ray	11.5	39.5	26.1	2.4	0.4	4.7	1.0	2.3	0.0	15.4	7.0	5.9	9.7	1.3
Scads	8.6	6.4	2.6	28.4	61.0	83.5	23.6	10.1	10.5	35.5	14.8	3.0	24.0	3.3
<i>S. commerson</i>	2.5	6.2	3.7	0.4	0.4	1.1	0.0	0.1	3.4	58.6	18.7	42.4	11.5	1.6
Scaridae	4.1	2.2	1.4	3.0	2.4	0.3	3.2	3.5	4.6	5.5	1.2	0.8	2.7	0.4
Serranidae	154.2	231.2	242.2	204.1	138.0	134.1	119.8	160.8	153.5	122.9	111.0	188.2	163.3	22.7
Siganidae	0.0	0.6	0.2	6.9	3.5	1.2	1.4	6.4	13.1	10.4	2.1	0.0	3.8	0.5
Other Sparidae	8.4	6.5	7.8	1.8	0.9	0.1	0.5	1.1	0.0	0.0	1.5	3.7	2.7	0.4
Mean	638.6	773.9	801.6	853.3	907.8	773.8	688.6	756.7	605.1	622.7	467.1	727.4	718.1	

Table 18 (b) CPUE (kg/trip) for launch in Eastern Abu Dhabi.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Mean	(%)
<i>A. bifasciatus</i>	24.5	34.9	9.9	1.2	2.8	9.1	24.8	63.4	77.2	81.6	8.7	23.4	30.1	3.4
<i>A. Spinifer</i>	53.0	77.6	40.4	49.6	37.8	13.7	20.6	1.2	4.0	0.0	8.3	62.3	30.7	3.4
Sphyraenidae	1.5	0.0	0.9	0.0	0.0	1.0	0.6	0.5	0.0	1.3	0.7	0.5	0.6	0.1
Carangidae	108.3	43.8	38.6	66.2	141.2	144.2	163.8	228.7	112.3	131.8	149.9	88.9	118.2	13.2
Clupeidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gerridae	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.1	0.0
Haemulidae	70.5	76.8	81.1	52.4	39.5	59.0	52.1	28.8	67.9	37.9	73.7	70.0	59.1	6.6
Lethrinidae	258.0	300.1	382.1	484.3	431.3	332.6	317.0	289.6	208.8	150.2	177.3	235.6	297.2	33.1
Lutjanidae	1.7	2.8	2.0	9.2	3.2	0.9	4.2	2.9	2.1	0.8	3.2	1.7	2.9	0.3
Mixed	10.6	13.5	52.5	53.1	79.7	29.9	53.0	67.7	70.6	66.9	9.7	18.9	43.8	4.9
Mugilidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nemipteridae	6.5	6.8	9.9	0.2	0.4	6.6	8.6	2.0	10.8	1.7	1.4	4.9	5.0	0.6
Other demersals	7.0	13.2	20.9	11.1	15.6	0.7	17.1	23.7	16.5	7.9	13.6	13.0	13.3	1.5
Other pelagics	9.8	6.6	10.4	13.7	9.8	8.9	2.7	11.1	1.4	2.0	7.9	2.5	7.2	0.8
Others	0.0	0.4	0.0	0.0	1.0	0.2	0.0	0.0	1.3	2.8	30.9	29.9	5.5	0.6
Scomberoides	4.0	5.4	0.0	17.1	33.3	7.1	2.2	0.4	2.1	2.7	4.3	4.8	7.0	0.8
Shark and Ray	18.1	51.2	37.6	2.5	0.0	5.6	1.4	3.2	0.0	24.6	14.2	7.2	13.8	1.5
Scads	13.6	8.3	3.8	37.1	72.3	98.6	32.0	13.7	16.0	56.2	30.0	3.7	32.1	3.6
<i>S. commerson</i>	0.0	0.0	0.0	0.0	0.1	1.3	0.0	0.0	0.0	93.1	0.4	41.8	11.4	1.3
Scaridae	6.4	2.9	2.0	4.1	2.8	0.3	4.4	4.8	7.1	8.7	2.4	1.0	3.9	0.4
Serranidae	220.4	290.6	325.3	256.9	154.1	149.2	145.4	196.0	207.4	143.5	163.2	220.6	206.1	23.0
Siganidae	0.0	0.8	0.3	9.4	4.2	1.4	1.8	8.8	20.3	16.6	4.3	0.0	5.7	0.6
Other Sparidae	13.3	8.5	10.8	2.4	1.1	0.1	0.6	1.5	0.0	0.0	3.0	4.5	3.8	0.4
Mean	827.1	944.0	1028.5	1070.4	1030.7	870.6	852.4	948.1	825.7	830.5	707.0	835.1	897.5	

Table 18 (c) CPUE (kg/trip) for launch in Western Abu Dhabi.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Mean	(%)
<i>A. bifasciatus</i>	6.0	6.3	1.8	2.5	1.0	0.5	0.8	0.4	0.2	0.0	0.0	0.0	1.6	0.7
<i>A. Spinifer</i>	3.3	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.4	2.5	0.9	0.3
Sphyraenidae	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.6	0.4	0.8	0.2	0.1
Carangidae	3.1	11.3	14.7	18.7	43.1	55.5	46.9	50.4	26.0	40.8	13.2	6.4	27.5	11.1
Clupeidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gerridae	3.7	0.0	0.0	0.0	0.1	0.6	0.0	0.2	0.0	0.0	0.0	0.0	0.4	0.2
Haemulidae	32.3	46.4	62.5	107.1	67.8	84.1	82.8	95.5	80.2	123.8	90.5	80.3	79.4	32.0
Lethrinidae	206.3	69.2	141.8	46.1	57.4	33.1	30.7	27.3	22.0	19.1	32.4	57.5	61.9	25.0
Lutjanidae	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Mixed	2.3	5.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.3
Mugilidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nemipteridae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other demersals	0.0	0.6	0.3	0.0	0.4	0.5	0.5	0.4	0.2	0.0	0.0	0.0	0.2	0.1
Other pelagics	0.6	1.7	0.3	5.0	21.6	15.5	22.1	13.1	6.6	0.1	0.2	0.8	7.3	3.0
Others	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scomberoides	6.0	0.0	0.0	1.1	3.8	0.0	0.0	0.2	0.2	0.5	0.1	1.1	1.1	0.4
Shark and Ray	0.0	0.5	0.2	1.9	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.2
Scads	0.0	0.0	0.0	3.9	0.3	0.8	0.0	0.6	0.3	1.0	0.0	0.0	0.6	0.2
<i>S. commerson</i>	6.9	27.0	12.0	1.7	1.8	0.0	0.0	0.3	9.7	1.1	36.5	45.1	11.8	4.8
Scaridae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serranidae	38.4	31.5	55.5	55.8	52.0	51.0	48.6	68.8	54.6	88.5	60.2	39.4	53.7	21.7
Siganidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other Sparidae	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
Mean	309.1	202.3	292.2	243.8	252.4	241.7	232.4	257.2	200.2	275.5	233.9	233.8	247.9	

Table 19 (a) CPUE (kg/trip) for tarads in the Emirate of Abu Dhabi.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Mean	(%)
<i>A. bifasciatus</i>	1.1	0.0	0.4	0.0	0.0	0.1	1.7	0.5	0.0	0.0	0.0	1.2	0.4	0.4
<i>A. Spinifer</i>	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	1.1	0.1	0.1
Sphyraenidae	1.5	1.5	3.8	1.0	3.4	2.1	1.1	0.8	0.3	0.6	1.5	0.5	1.5	1.2
Carangidae	9.6	11.1	8.9	26.7	20.7	8.9	21.5	32.2	17.5	11.9	13.7	5.1	15.6	12.9
Clupeidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gerridae	6.8	15.9	6.5	2.4	3.4	3.9	1.7	4.6	28.4	26.1	8.6	5.6	9.5	7.8
Haemulidae	4.7	0.2	7.4	2.4	7.5	5.3	2.4	5.3	7.6	3.2	26.2	6.3	6.5	5.4
Lethrinidae	23.5	23.8	22.5	21.4	19.5	22.4	31.6	66.8	22.4	7.1	23.8	37.6	26.9	22.2
Lutjanidae	0.1	0.4	0.0	5.7	12.0	5.0	6.9	5.9	4.0	0.0	0.0	0.0	3.3	2.8
Mixed	0.4	0.1	0.7	0.2	0.5	0.2	0.3	0.2	0.1	0.3	1.4	0.0	0.4	0.3
Mugilidae	8.2	3.5	1.9	0.4	0.2	2.4	5.5	2.0	1.3	19.7	1.5	2.4	4.1	3.4
Nemipteridae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.3	0.1	0.1
Other demersals	0.6	1.4	0.5	1.3	0.1	0.2	0.1	6.6	0.3	0.6	1.4	1.4	1.2	1.0
Other pelagics	2.7	5.4	2.9	1.2	2.9	12.0	13.4	13.0	3.8	2.0	4.7	1.1	5.4	4.5
Others	0.1	0.2	0.1	0.0	0.1	0.5	0.6	0.0	0.1	2.1	18.1	0.3	1.9	1.5
Scomberoides	0.6	1.0	10.5	5.2	3.1	2.9	3.0	8.5	6.1	5.3	3.8	0.9	4.2	3.5
Shark and Ray	1.6	2.3	3.3	0.5	0.6	0.2	0.1	0.7	0.7	1.2	4.1	1.8	1.4	1.2
Scads	1.8	3.4	2.9	8.3	4.4	0.6	0.2	0.2	1.5	0.0	0.0	0.2	2.0	1.6
<i>S. commerson</i>	29.9	45.6	22.8	8.1	40.9	6.2	3.5	3.0	1.8	18.7	22.2	41.8	20.4	16.8
Scaridae	0.0	0.0	0.0	1.0	2.1	1.8	1.1	0.4	0.1	0.0	0.0	1.0	0.6	0.5
Serranidae	10.8	12.2	13.1	9.7	11.4	8.6	10.5	10.3	15.3	9.3	11.2	7.7	10.8	8.9
Siganidae	3.9	1.0	1.1	0.0	0.5	0.0	1.3	2.6	3.3	0.1	4.4	7.8	2.2	1.8
Other Sparidae	1.0	0.6	1.5	0.1	2.5	3.2	2.0	4.7	7.5	5.1	2.4	0.6	2.6	2.1
Mean	108.9	129.8	110.9	95.9	136.1	86.5	108.6	168.2	123.1	113.5	149.0	125.2	121.3	

Table 19 (b) CPUE (kg/trip) for tarads in Eastern Abu Dhabi.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Mean	(%)
<i>A. bifasciatus</i>	2.7	0.0	0.7	0.0	0.0	0.2	0.7	0.4	0.0	0.0	0.0	2.2	0.6	0.4
<i>A. Spinifer</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	2.0	0.2	0.1
Sphyraenidae	1.0	1.1	6.0	1.4	3.7	4.0	1.4	1.7	0.6	1.0	2.7	0.8	2.1	1.3
Carangidae	13.6	23.3	15.0	36.9	16.5	7.9	39.2	51.2	20.9	12.0	15.1	8.5	21.7	13.0
Clupeidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gerridae	13.2	34.4	14.6	5.6	6.7	9.0	4.3	10.2	51.1	50.8	19.3	10.1	19.1	11.5
Haemulidae	0.8	0.3	6.8	0.7	0.7	0.8	1.0	1.4	3.8	0.5	0.5	0.9	1.5	0.9
Lethrinidae	16.4	26.4	24.3	11.3	5.1	22.2	33.4	101.2	37.0	4.8	15.8	38.2	28.0	16.8
Lutjanidae	0.0	1.1	0.0	13.1	23.6	9.1	16.0	1.1	6.8	0.0	0.1	0.1	5.9	3.5
Mixed	1.1	0.3	1.4	0.5	1.0	0.4	0.6	0.5	0.1	0.4	3.2	0.1	0.8	0.5
Mugilidae	19.3	8.8	3.7	1.0	0.4	5.6	13.0	4.4	2.4	42.8	3.3	4.4	9.1	5.5
Nemipteridae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.6	0.2	0.1
Other demersals	1.2	3.7	1.0	2.6	0.3	0.1	0.4	12.1	0.6	0.6	3.2	2.2	2.3	1.4
Other pelagics	4.4	12.9	5.5	2.1	5.6	25.3	32.7	23.0	7.2	4.3	11.1	2.0	11.3	6.8
Others	0.4	0.6	0.1	0.0	0.2	1.2	1.5	0.0	0.2	4.6	43.2	0.6	4.4	2.6
Scomberoides	1.7	2.4	4.9	4.1	6.0	4.9	7.4	15.6	7.7	7.7	1.3	1.4	5.4	3.3
Shark and Ray	1.3	4.4	4.8	1.3	1.2	0.5	0.3	1.6	1.3	0.8	6.6	2.7	2.2	1.3
Scads	4.0	7.9	6.3	19.1	8.4	1.2	0.5	0.4	2.8	0.0	0.0	0.3	4.3	2.6
<i>S. commerson</i>	27.7	59.1	33.3	18.3	80.0	14.4	8.8	4.4	0.0	20.5	37.7	60.6	30.4	18.3
Scaridae	0.0	0.0	0.0	2.3	4.1	4.3	2.6	0.4	0.2	0.0	0.1	1.8	1.3	0.8
Serranidae	10.2	16.0	13.0	8.5	2.8	2.1	2.9	5.7	8.3	2.6	6.3	8.3	7.2	4.3
Siganidae	7.7	2.6	2.0	0.0	1.1	0.0	0.1	1.6	6.0	0.0	10.0	14.1	3.8	2.3
Other Sparidae	2.3	1.4	2.9	0.0	0.2	7.4	3.4	9.8	13.5	10.1	5.3	1.2	4.8	2.9
Mean	129.0	206.6	146.3	128.8	167.6	120.7	170.2	246.7	172.4	163.5	184.7	162.8	166.6	

Table 19 (c) CPUE (kg/trip) for tarads in Western Abu Dhabi.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Mean	(%)
<i>A. bifasciatus</i>	0.2	0.0	0.1	0.0	0.0	0.0	2.5	0.6	0.0	0.0	0.0	0.0	0.3	0.3
<i>A. Spinifer</i>	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sphyraenidae	1.8	1.8	2.0	0.8	3.2	0.6	0.9	0.0	0.0	0.3	0.5	0.3	1.0	1.2
Carangidae	7.3	3.4	4.1	18.9	25.0	9.7	9.5	16.6	13.5	11.9	12.7	0.8	11.1	13.3
Clupeidae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Gerridae	3.2	4.2	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.2	0.8	0.0	1.3	1.6
Haemulidae	6.9	0.2	7.9	3.7	14.6	8.6	3.4	8.4	11.9	5.5	44.8	13.1	10.8	12.8
Lethrinidae	27.6	22.2	21.1	29.3	34.6	22.6	30.4	38.4	5.8	9.1	29.6	36.8	25.6	30.6
Lutjanidae	0.2	0.0	0.0	0.0	0.0	1.9	0.7	9.8	0.8	0.1	0.0	0.0	1.1	1.3
Mixed	0.0	0.0	0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.1	0.0	0.1	0.1
Mugilidae	1.8	0.2	0.4	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.1	0.0	0.2	0.3
Nemipteridae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other demersals	0.2	0.0	0.2	0.3	0.0	0.4	0.0	2.0	0.0	0.6	0.1	0.5	0.4	0.4
Other pelagics	1.7	0.7	0.8	0.5	0.0	2.0	0.2	4.8	0.0	0.0	0.0	0.0	0.9	1.1
Others	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Scomberoides	0.0	0.1	15.0	6.1	0.0	1.3	0.1	2.6	4.3	3.3	5.6	0.3	3.2	3.9
Shark and Ray	1.7	1.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	1.6	2.4	0.7	0.8	0.9
Scads	0.5	0.6	0.2	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.2
<i>S. commerson</i>	31.2	37.0	14.6	0.3	0.0	0.0	0.0	1.8	3.8	17.2	11.0	18.3	11.3	13.4
Scaridae	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
Serranidae	11.2	9.8	13.1	10.7	20.4	13.5	15.6	14.1	23.3	14.9	14.8	7.0	14.0	16.7
Siganidae	1.7	0.0	0.4	0.0	0.0	0.0	2.1	3.3	0.2	0.2	0.3	0.0	0.7	0.8
Other Sparidae	0.2	0.0	0.5	0.2	5.0	0.0	1.1	0.5	0.6	0.9	0.2	0.0	0.8	0.9
Mean	97.5	81.3	82.8	70.6	103.2	60.9	66.8	103.5	66.9	71.0	123.1	77.9	83.8	

Table 20 (a) Total value (AED '000) of landings in the Emirate of Abu Dhabi.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total (AED '000)	Total (%)
<i>A. bifasciatus</i>	20	36	11	2	3	8	30	73	57	49	5	29	324	0.7
<i>A. Spinifer</i>	68	171	81	104	89	28	46	3	7	0	12	149	758	1.6
Sphyraenidae	7	5	14	3	9	7	4	3	1	2	4	3	64	0.1
Carangidae	451	363	322	695	936	737	1087	1664	578	556	598	494	8482	17.3
Clupeidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Gerridae	76	129	60	20	24	32	13	35	157	172	54	61	833	1.7
Haemulidae	100	130	179	135	107	120	128	129	142	110	242	164	1686	3.4
Lethrinidae	651	826	1011	1149	1090	787	890	1128	443	245	398	860	9478	19.4
Lutjanidae	3	9	4	61	77	37	56	46	23	1	5	4	325	0.7
Mixed	4	7	22	23	38	12	24	34	23	18	4	8	217	0.4
Mugilidae	199	66	40	8	3	45	99	35	16	298	21	61	892	1.8
Nemipteridae	2	3	4	0	0	3	4	1	4	0	0	3	24	0.0
Other demersals	3	8	9	7	8	1	8	21	6	3	5	8	85	0.2
Other pelagics	30	43	35	33	39	86	91	100	21	11	29	13	533	1.1
Others	1	2	0	0	2	3	3	0	2	13	113	55	196	0.4
Scomberoides	4	6	25	22	29	10	8	17	10	10	8	6	156	0.3
Shark and Ray	17	58	46	5	2	6	2	6	1	18	19	15	193	0.4
Scads	27	34	25	113	156	159	58	29	27	61	33	8	730	1.5
<i>S. commerson</i>	743	902	515	160	623	122	64	53	45	618	461	1361	5665	11.6
Scaridae	16	12	8	31	36	27	33	28	23	23	7	22	266	0.5
Serranidae	1105	2040	2198	1797	1235	1031	1181	1718	1261	871	1018	1592	17047	34.9
Siganidae	59	14	16	33	21	5	21	64	80	38	49	124	524	1.1
Other Sparidae	40	35	53	9	27	35	23	53	56	45	26	25	427	0.9
Total (AED '000)	3626	4899	4679	4410	4554	3300	3871	5238	2983	3165	3114	5067	48906	
Total (%)	7.4	10.0	9.6	9.0	9.3	6.7	7.9	10.7	6.1	6.5	6.4	10.4		

Table 20 (b) Total value (AED '000) of landings in Eastern Abu Dhabi.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total (AED '000)	Total (%)
<i>A. bifasciatus</i>	18	34	10	1	3	8	25	72	56	49	5	29	312	0.8
<i>A. Spinifer</i>	66	170	80	104	88	27	46	3	6	0	11	148	751	1.9
Sphyraenidae	2	1	10	2	5	6	2	3	1	2	3	2	41	0.1
Carangidae	361	319	260	512	758	619	936	1448	472	417	480	482	7064	17.8
Clupeidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Gerridae	51	108	60	20	24	31	13	34	150	154	51	61	758	1.9
Haemulidae	59	110	120	73	61	77	76	50	78	34	66	103	908	2.3
Lethrinidae	357	692	802	1002	974	689	750	973	412	204	265	686	7806	19.7
Lutjanidae	2	9	4	61	76	29	53	10	21	1	5	4	276	0.7
Mixed	3	6	22	23	38	12	24	34	23	18	4	8	216	0.5
Mugilidae	171	64	35	8	3	45	95	35	16	298	20	61	852	2.2
Nemipteridae	2	3	4	0	0	3	4	1	4	0	0	3	24	0.1
Other demersals	3	8	9	6	7	0	8	19	6	2	5	8	81	0.2
Other pelagics	22	40	32	28	31	75	77	76	16	11	29	13	451	1.1
Others	1	2	0	0	2	3	3	0	2	13	113	55	196	0.5
Scomberoides	3	5	5	15	29	9	8	14	7	7	3	5	110	0.3
Shark and Ray	12	56	41	4	2	6	2	6	1	16	16	14	174	0.4
Scads	24	32	24	111	155	159	58	28	27	60	33	8	719	1.8
<i>S. commerson</i>	245	429	314	153	621	122	64	35	0	474	232	1098	3788	9.6
Scaridae	16	12	8	31	36	27	33	25	23	23	7	22	263	0.7
Serranidae	849	1867	1902	1562	1015	830	902	1398	985	549	655	1458	13971	35.3
Siganidae	42	14	13	33	21	5	7	44	79	37	48	124	467	1.2
Other Sparidae	38	35	49	8	5	35	16	50	54	41	25	25	381	1.0
Total (AED '000)	2348	4016	3804	3758	3956	2819	3201	4360	2441	2411	2078	4417	39609	
Total (%)	5.9	10.1	9.6	9.5	10.0	7.1	8.1	11.0	6.2	6.1	5.2	11.2		

Table 20 (c) Total value (AED '000) of landings in Western Abu Dhabi.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total (AED '000)	Total (%)
<i>A. bifasciatus</i>	2	2	1	1	0	0	5	1	0	0	0	0	12	0.1
<i>A. Spinifer</i>	2	2	1	0	0	0	0	0	0	0	1	1	8	0.1
Sphyraenidae	5	4	4	1	4	1	2	0	0	1	1	1	23	0.2
Carangidae	89	44	62	183	178	118	151	216	107	139	118	13	1419	15.3
Clupeidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Gerridae	25	21	0	0	0	0	0	0	7	19	3	0	74	0.8
Haemulidae	41	20	59	62	46	42	52	79	63	76	175	61	777	8.4
Lethrinidae	294	134	209	147	116	98	140	155	31	41	133	174	1672	18.0
Lutjanidae	1	0	0	0	0	8	3	35	2	0	0	0	49	0.5
Mixed	0	1	0	0	0	0	0	0	0	0	0	0	2	0.0
Mugilidae	28	2	5	0	0	0	4	0	0	0	1	0	40	0.4
Nemipteridae	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Other demersals	0	0	0	0	0	0	0	2	0	0	0	0	4	0.0
Other pelagics	8	3	3	5	8	11	15	24	5	0	0	0	82	0.9
Others	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Scomberoides	1	0	20	8	1	2	0	3	3	3	5	1	46	0.5
Shark and Ray	5	2	4	1	0	0	0	0	0	2	3	1	19	0.2
Scads	3	2	1	2	1	0	0	0	0	1	0	0	11	0.1
<i>S. commerson</i>	498	472	201	6	2	0	0	18	45	143	229	263	1878	20.2
Scaridae	0	0	0	0	0	0	0	3	0	0	0	0	3	0.0
Serranidae	256	174	296	235	220	200	279	320	277	322	363	134	3076	33.1
Siganidae	17	0	3	0	0	0	14	20	1	1	2	0	57	0.6
Other Sparidae	2	0	4	1	22	0	7	3	2	4	1	0	47	0.5
Total (AED '000)	1278	883	875	653	598	482	670	878	543	754	1036	650	9298	
Total (%)	13.7	9.5	9.4	7.0	6.4	5.2	7.2	9.4	5.8	8.1	11.1	7.0		

Table 21 (a) Value (AED '000) of catches by launch in Abu Dhabi Emirate.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total (AED '000)	Total (%)
<i>A. bifasciatus</i>	16	36	9	2	3	8	25	72	57	49	5	23	306	0.9
<i>A. Spinifer</i>	68	171	81	104	88	27	45	3	7	0	12	138	747	2.3
Sphyraenidae	1	0	1	0	0	1	1	1	0	1	1	1	6	0.0
Carangidae	274	206	179	307	699	611	795	1244	411	420	448	398	5993	18.1
Clupeidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Gerridae	3	0	0	0	1	0	0	0	0	0	0	0	5	0.0
Haemulidae	72	129	140	124	79	96	117	107	118	98	149	125	1354	4.1
Lethrinidae	445	666	839	1001	984	637	686	715	341	206	274	519	7313	22.1
Lutjanidae	2	6	4	19	8	2	9	7	3	1	4	4	70	0.2
Mixed	3	7	21	22	37	12	23	34	23	18	3	8	211	0.6
Mugilidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Nemipteridae	2	3	4	0	0	3	4	1	4	0	0	2	23	0.1
Other demersals	2	6	8	5	7	0	8	12	5	2	4	6	65	0.2
Other pelagics	10	12	17	26	26	19	19	32	6	2	9	5	183	0.6
Others	0	1	0	0	2	0	0	0	2	3	34	53	94	0.3
Scomberoides	3	4	0	11	24	4	1	0	1	1	2	3	55	0.2
Shark and Ray	10	50	34	3	0	5	1	4	0	15	9	7	138	0.4
Scads	14	14	6	65	136	156	56	28	21	61	33	6	597	1.8
<i>S. commerson</i>	13	47	28	3	3	7	0	1	23	334	138	302	897	2.7
Scaridae	16	12	8	17	13	1	19	23	22	23	6	4	164	0.5
Serranidae	831	1803	1909	1602	1055	863	986	1534	1060	726	849	1389	14606	44.0
Siganidae	0	3	1	33	16	4	7	36	54	37	10	0	201	0.6
Other Sparidae	26	29	34	8	4	0	2	6	0	0	6	15	130	0.4
Total (AED '000)	1810	3204	3324	3353	3187	2457	2804	3860	2157	1998	1996	3009	33159	
Total (%)	5.5	9.7	10.0	10.1	9.6	7.4	8.5	11.6	6.5	6.0	6.0	9.1		

Table 21 (b) Value (AED '000) of catches by launch in Eastern Abu Dhabi.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total (AED '000)	Total (%)
<i>A. bifasciatus</i>	14	34	9	1	3	8	25	72	56	49	5	23	299	1.0
<i>A. Spinifer</i>	66	170	80	104	88	27	45	3	6	0	11	137	739	2.5
Sphyraenidae	1	0	1	0	0	1	1	1	0	1	0	1	5	0.0
Carangidae	270	191	153	279	661	571	721	1147	365	354	411	392	5516	18.5
Clupeidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Gerridae	0	0	0	0	1	0	0	0	0	0	0	0	2	0.0
Haemulidae	57	109	105	72	60	76	75	47	72	33	66	100	871	2.9
Lethrinidae	305	623	720	969	960	626	663	690	322	192	231	493	6793	22.7
Lutjanidae	2	6	4	19	7	2	9	7	3	1	4	4	70	0.2
Mixed	3	6	21	22	37	12	23	34	23	18	3	8	210	0.7
Mugilidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Nemipteridae	2	3	4	0	0	3	4	1	4	0	0	2	23	0.1
Other demersals	2	6	8	5	7	0	8	12	5	2	4	6	64	0.2
Other pelagics	10	12	16	23	18	14	5	22	2	2	9	4	137	0.5
Others	0	1	0	0	2	0	0	0	2	3	34	53	94	0.3
Scomberoides	2	4	0	11	23	4	1	0	1	1	2	3	52	0.2
Shark and Ray	10	50	34	2	0	5	1	4	0	15	9	7	137	0.5
Scads	14	14	6	62	136	156	56	27	21	60	33	6	593	2.0
<i>S. commerson</i>	0	0	0	0	1	7	0	0	0	331	1	244	585	2.0
Scaridae	16	12	8	17	13	1	19	23	22	23	6	4	164	0.5
Serranidae	755	1746	1774	1487	993	813	880	1352	927	530	615	1337	13210	44.2
Siganidae	0	3	1	33	16	4	7	36	54	37	10	0	201	0.7
Other Sparidae	26	29	33	8	4	0	2	6	0	0	6	15	129	0.4
Total (AED '000)	1553	3019	2977	3114	3031	2331	2544	3485	1886	1654	1461	2840	29895	
Total (%)	5.2	10.1	10.0	10.4	10.1	7.8	8.5	11.7	6.3	5.5	4.9	9.5		

Table 21 (c) Value (AED '000) of catches by launch in Western Abu Dhabi.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total (AED '000)	Total (%)
<i>A. bifasciatus</i>	2	2	1	1	0	0	0	0	0	0	0	0	6	0.2
<i>A. Spinifer</i>	2	2	1	0	0	0	0	0	0	0	1	1	7	0.2
Sphyraenidae	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0
Carangidae	4	15	26	28	38	40	74	97	46	66	37	6	477	14.6
Clupeidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Gerridae	3	0	0	0	0	0	0	0	0	0	0	0	4	0.1
Haemulidae	15	20	36	52	19	20	43	60	46	65	83	25	483	14.8
Lethrinidae	140	43	119	33	24	11	23	25	19	15	43	26	520	15.9
Lutjanidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Mixed	0	1	0	0	0	0	0	0	0	0	0	0	1	0.0
Mugilidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Nemipteridae	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Other demersals	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Other pelagics	0	1	0	3	8	4	14	10	5	0	0	0	46	1.4
Others	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Scomberoides	1	0	0	0	1	0	0	0	0	0	0	0	2	0.1
Shark and Ray	0	0	0	1	0	0	0	0	0	0	0	0	1	0.0
Scads	0	0	0	2	0	0	0	0	0	1	0	0	4	0.1
<i>S. commerson</i>	13	47	28	3	2	0	0	1	23	2	137	57	313	9.6
Scaridae	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Serranidae	75	56	135	115	63	51	106	182	133	196	234	52	1396	42.8
Siganidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Other Sparidae	0	0	1	0	0	0	0	0	0	0	0	0	1	0.0
Total (AED '000)	257	185	347	239	155	127	260	375	272	344	535	169	3264	
Total (%)	7.9	5.7	10.6	7.3	4.8	3.9	8.0	11.5	8.3	10.5	16.4	5.2		

Table 22 (a) Value (AED '000) of catches by tarad in Abu Dhabi Emirate.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total (AED '000)	Total (%)
<i>A. bifasciatus</i>	5	0	1	0	0	0	5	2	0	0	0	5	19	0.1
<i>A. Spinifer</i>	0	0	0	0	0	0	0	0	0	0	0	11	12	0.1
Sphyraenidae	6	5	14	3	9	7	3	2	1	1	4	2	58	0.4
Carangidae	176	157	143	388	237	126	292	420	168	137	150	97	2489	15.8
Clupeidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Gerridae	73	129	60	20	23	31	13	34	157	172	54	61	828	5.3
Haemulidae	28	1	39	11	28	24	11	22	24	12	93	39	332	2.1
Lethrinidae	206	160	172	148	106	150	204	413	102	39	124	341	2165	13.7
Lutjanidae	1	3	0	42	69	35	47	38	19	0	0	0	255	1.6
Mixed	1	0	1	0	1	0	0	0	0	0	2	0	6	0.0
Mugilidae	199	66	40	8	3	45	99	35	16	298	21	61	892	5.7
Nemipteridae	0	0	0	0	0	0	0	0	1	0	0	1	2	0.0
Other demersals	1	2	1	2	0	0	0	9	0	1	2	3	20	0.1
Other pelagics	20	31	18	7	13	68	73	68	15	9	20	9	350	2.2
Others	1	1	0	0	0	3	3	0	0	10	80	3	102	0.6
Scomberoides	2	2	25	11	5	6	6	17	9	9	6	3	101	0.6
Shark and Ray	6	7	12	2	2	1	0	2	1	3	10	8	55	0.3
Scads	13	20	19	48	20	3	1	1	6	0	0	1	133	0.8
<i>S. commerson</i>	730	855	486	156	621	115	64	52	23	284	323	1059	4768	30.3
Scaridae	0	0	0	14	24	25	14	5	1	0	0	18	102	0.6
Serranidae	274	238	289	194	180	168	195	184	202	146	169	203	2441	15.5
Siganidae	59	12	15	0	5	0	14	28	26	1	40	124	323	2.1
Other Sparidae	14	6	19	1	23	35	21	47	56	45	20	9	297	1.9
Total (AED '000)	1816	1695	1355	1057	1367	843	1067	1378	826	1167	1118	2058	15748	
Total (%)	11.5	10.8	8.6	6.7	8.7	5.4	6.8	8.7	5.2	7.4	7.1	13.1		

Table 22 (b) Value (AED '000) of catches by tarad in Eastern Abu Dhabi.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total (AED '000)	Total (%)
<i>A. bifasciatus</i>	4	0	1	0	0	0	1	1	0	0	0	5	12	0.1
<i>A. Spinifer</i>	0	0	0	0	0	0	0	0	0	0	0	11	11	0.1
Sphyraenidae	2	1	10	2	5	5	2	2	1	1	3	2	35	0.4
Carangidae	91	127	107	233	96	48	215	301	107	63	69	90	1547	15.9
Clupeidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Gerridae	51	108	60	20	23	31	13	34	150	153	51	61	757	7.8
Haemulidae	2	0	16	1	1	2	2	3	6	1	1	3	38	0.4
Lethrinidae	52	69	82	34	14	64	87	283	90	12	35	193	1013	10.4
Lutjanidae	0	3	0	42	69	28	44	3	17	0	0	0	206	2.1
Mixed	1	0	1	0	1	0	0	0	0	0	1	0	6	0.1
Mugilidae	171	64	35	8	3	45	95	35	16	298	20	61	852	8.8
Nemipteridae	0	0	0	0	0	0	0	0	1	0	0	1	2	0.0
Other demersals	1	2	1	2	0	0	0	7	0	0	1	2	17	0.2
Other pelagics	12	28	16	5	13	61	72	54	15	9	20	9	314	3.2
Others	1	1	0	0	0	3	3	0	0	10	80	3	102	1.0
Scomberoides	2	2	5	4	5	4	6	14	6	6	1	2	57	0.6
Shark and Ray	2	5	8	2	2	1	0	2	1	1	7	6	37	0.4
Scads	11	17	18	48	20	3	1	1	6	0	0	1	127	1.3
<i>S. commerson</i>	245	429	314	153	620	115	64	35	0	143	230	854	3203	33.0
Scaridae	0	0	0	14	24	25	14	2	1	0	0	18	99	1.0
Serranidae	94	121	128	74	22	18	22	46	58	19	40	121	762	7.8
Siganidae	42	12	12	0	5	0	0	8	25	0	38	124	266	2.7
Other Sparidae	12	6	16	0	1	35	14	45	54	41	19	9	251	2.6
Total (AED '000)	795	997	828	643	925	488	657	875	555	757	617	1577	9714	
Total (%)	8.2	10.3	8.5	6.6	9.5	5.0	6.8	9.0	5.7	7.8	6.4	16.2		

Table 22 (c) Value (AED '000) of catches by tarad in Western Abu Dhabi.

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total (AED '000)	Total (%)
<i>A. bifasciatus</i>	0	0	0	0	0	0	4	1	0	0	0	0	6	0.1
<i>A. Spinifer</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0
Sphyraenidae	5	4	4	1	4	1	2	0	0	0	1	0	22	0.4
Carangidae	85	29	36	155	140	78	77	119	61	74	81	7	942	15.6
Clupeidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Gerridae	22	21	0	0	0	0	0	0	7	19	3	0	71	1.2
Haemulidae	26	1	23	10	26	23	9	20	17	11	93	36	294	4.9
Lethrinidae	154	92	90	114	92	87	117	130	12	27	89	148	1152	19.1
Lutjanidae	1	0	0	0	0	8	3	35	2	0	0	0	49	0.8
Mixed	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Mugilidae	28	2	5	0	0	0	4	0	0	0	1	0	40	0.7
Nemipteridae	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Other demersals	0	0	0	0	0	0	0	1	0	0	0	0	3	0.1
Other pelagics	8	2	3	1	0	7	1	14	0	0	0	0	36	0.6
Others	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
Scomberoides	0	0	20	8	0	2	0	3	3	3	5	0	44	0.7
Shark and Ray	5	2	4	0	0	0	0	0	0	2	3	1	18	0.3
Scads	3	2	1	0	1	0	0	0	0	0	0	0	7	0.1
<i>S. commerson</i>	485	426	173	3	0	0	0	17	23	141	92	205	1565	25.9
Scaridae	0	0	0	0	0	0	0	3	0	0	0	0	3	0.0
Serranidae	181	117	161	120	157	150	173	138	144	127	129	82	1679	27.8
Siganidae	17	0	3	0	0	0	14	20	1	1	2	0	57	0.9
Other Sparidae	2	0	3	1	22	0	7	3	2	4	1	0	46	0.8
Total (AED '000)	1021	698	528	414	443	355	410	503	271	410	501	481	6034	
Total (%)	16.9	11.6	8.7	6.9	7.3	5.9	6.8	8.3	4.5	6.8	8.3	8.0		

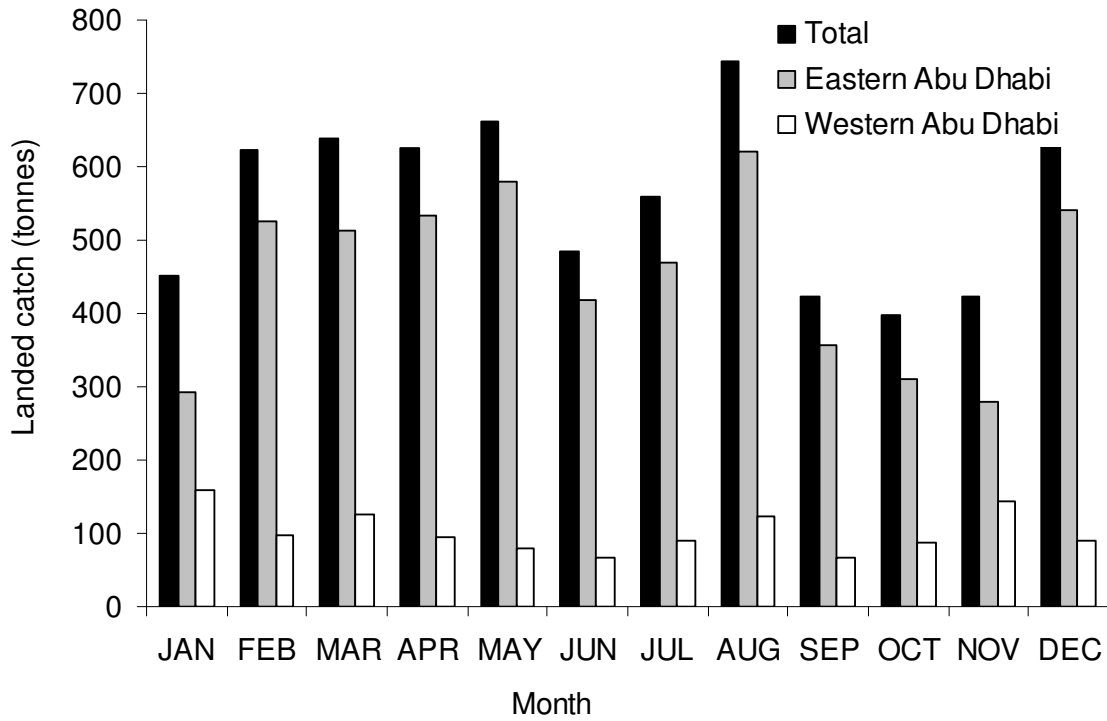


Figure 2 Total catch by month and strata in the Emirate of Abu Dhabi.

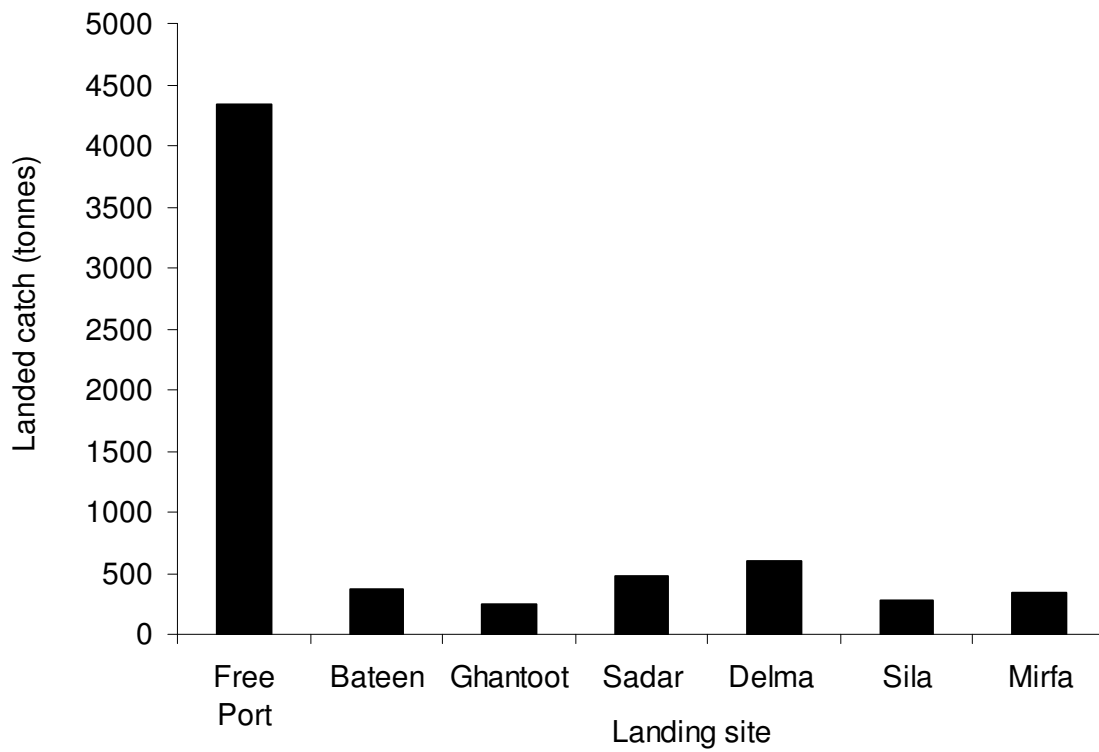


Figure 3 Total landings by site in the Emirate of Abu Dhabi.

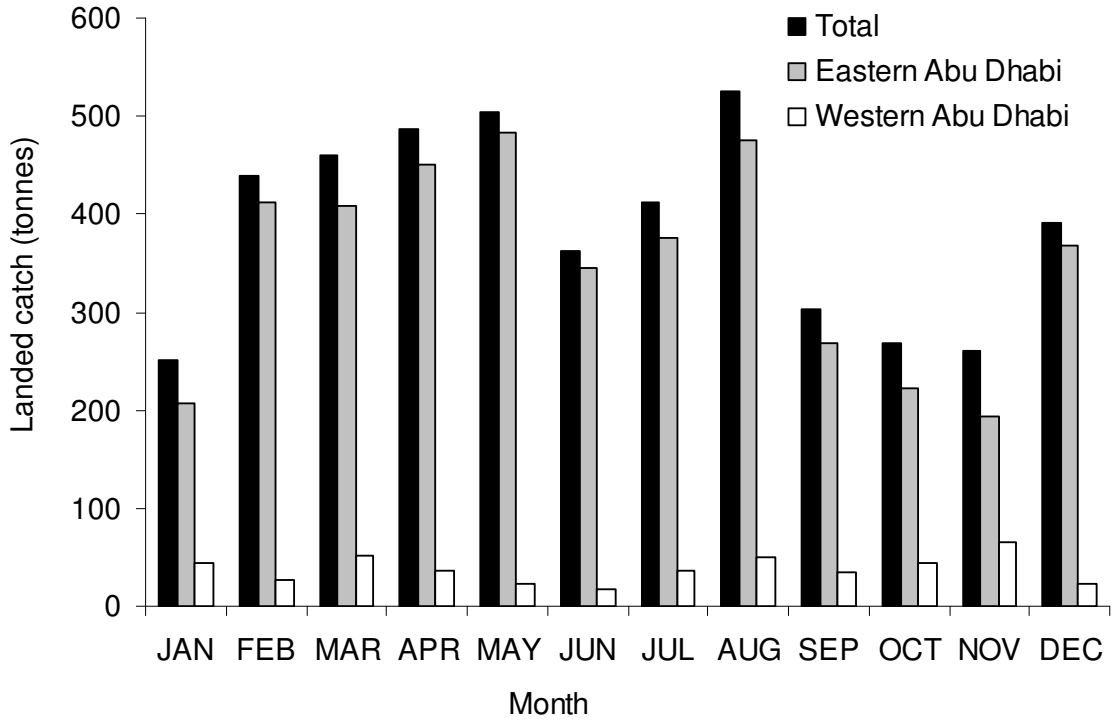


Figure 4 Total launch landings by month and strata.

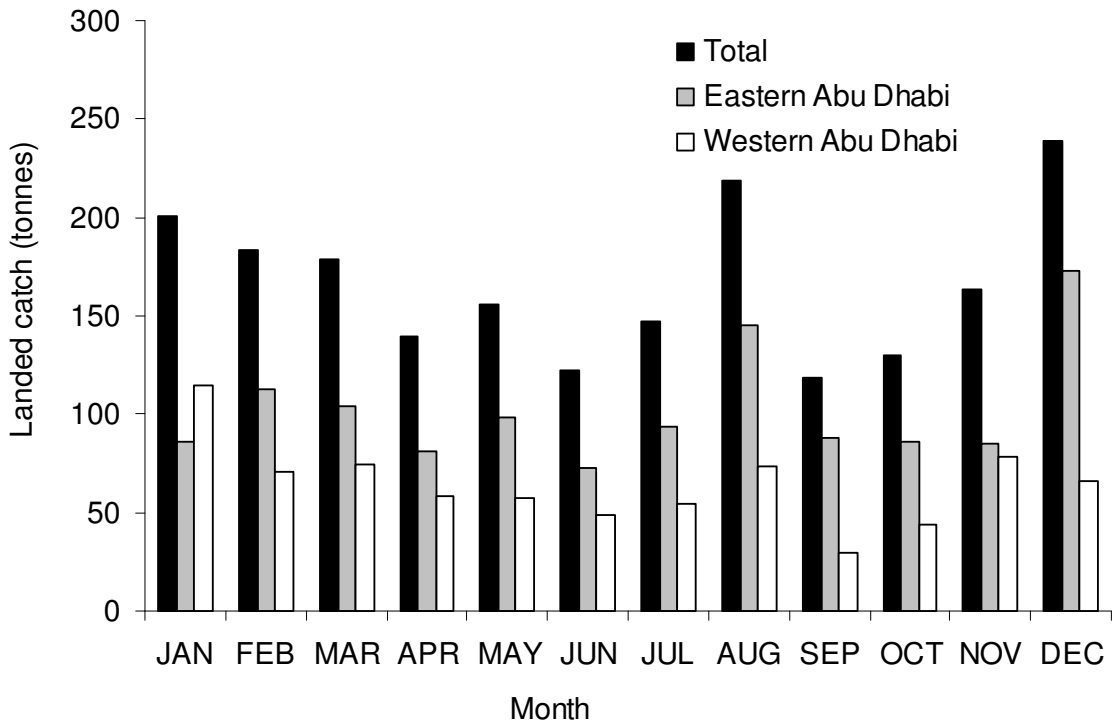


Figure 5 Total tarad landings by month and strata.

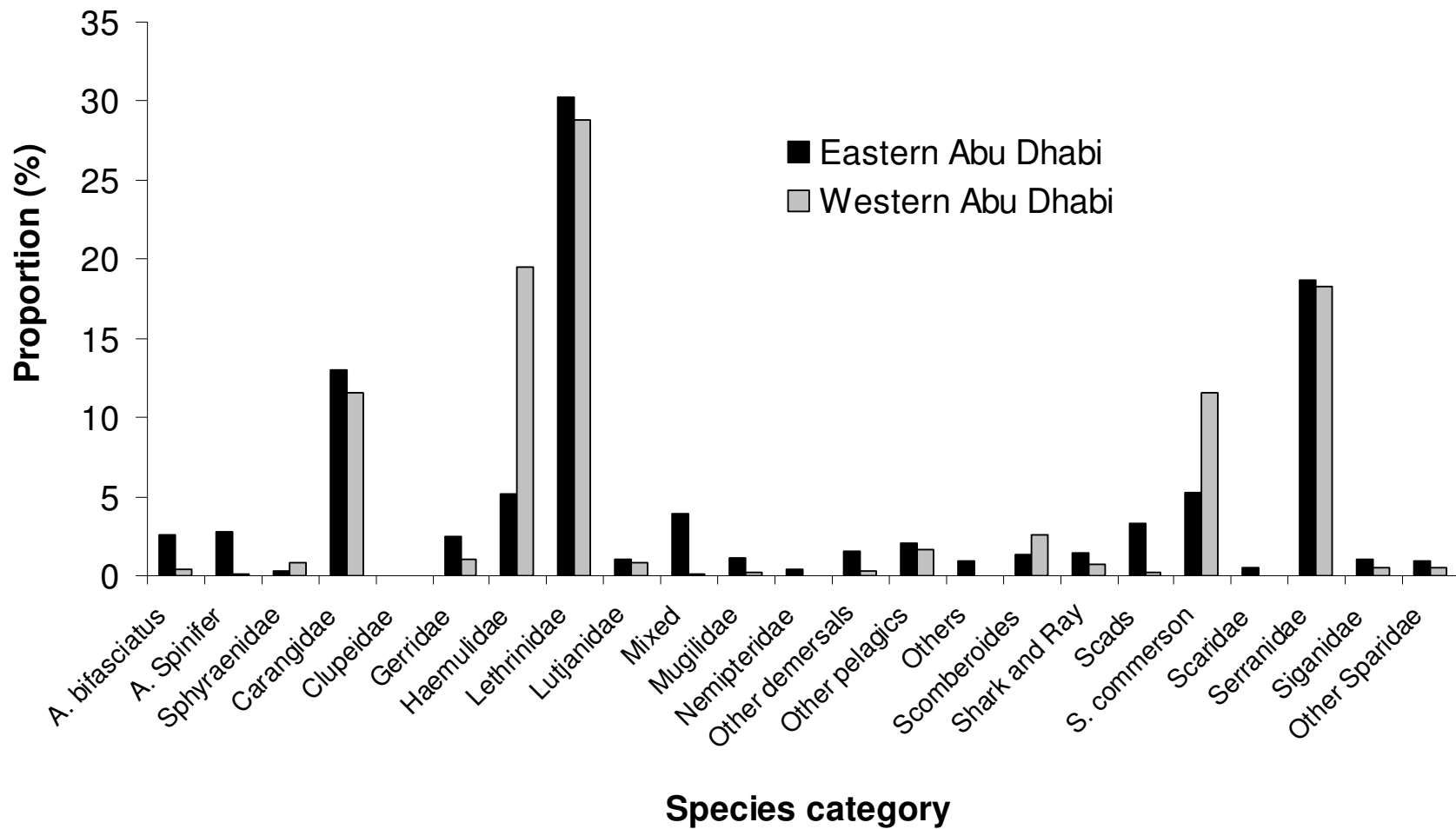


Figure 6 Species composition of the total catch by strata.

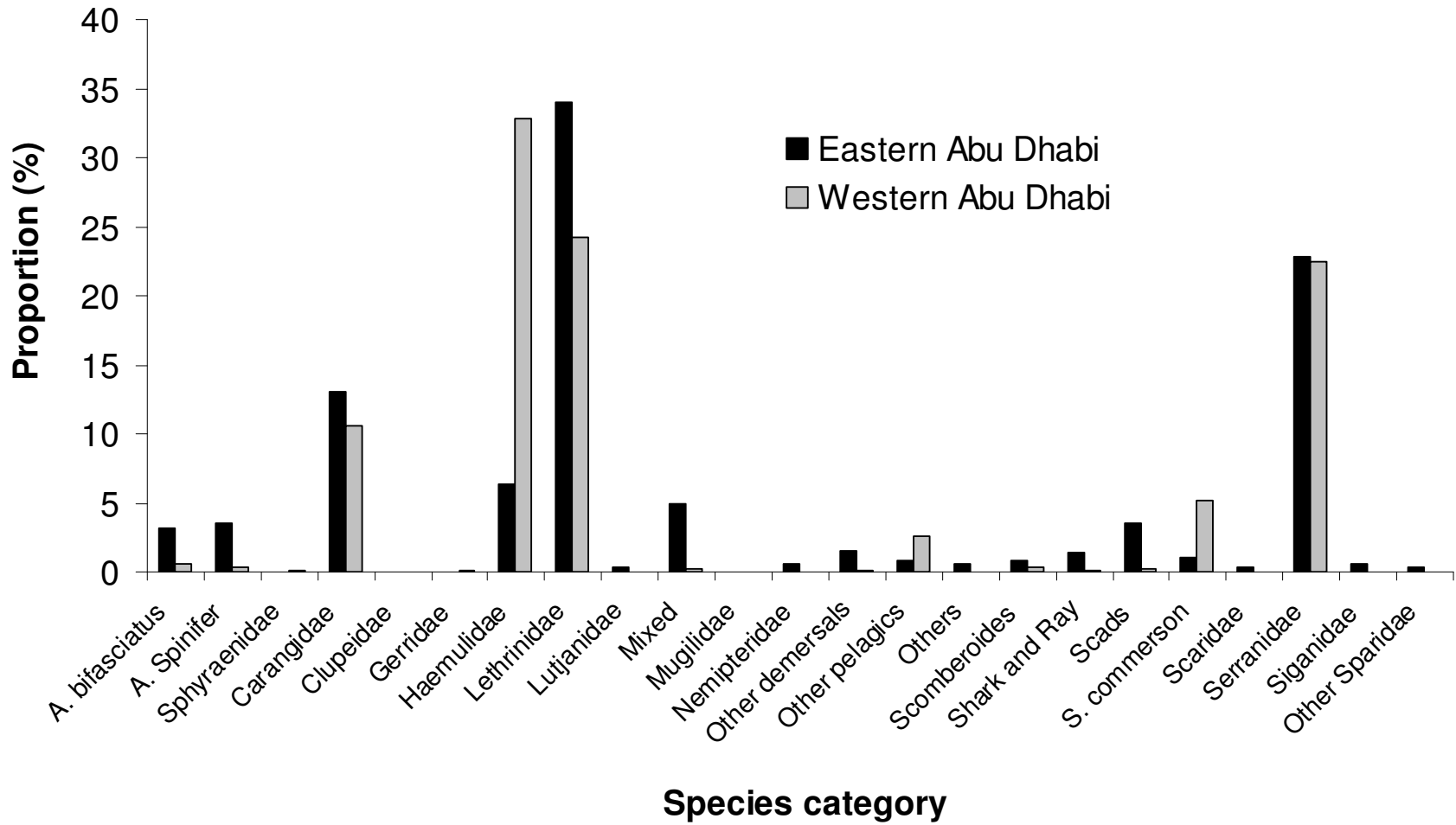


Figure 7 Species composition of launch landings by strata.

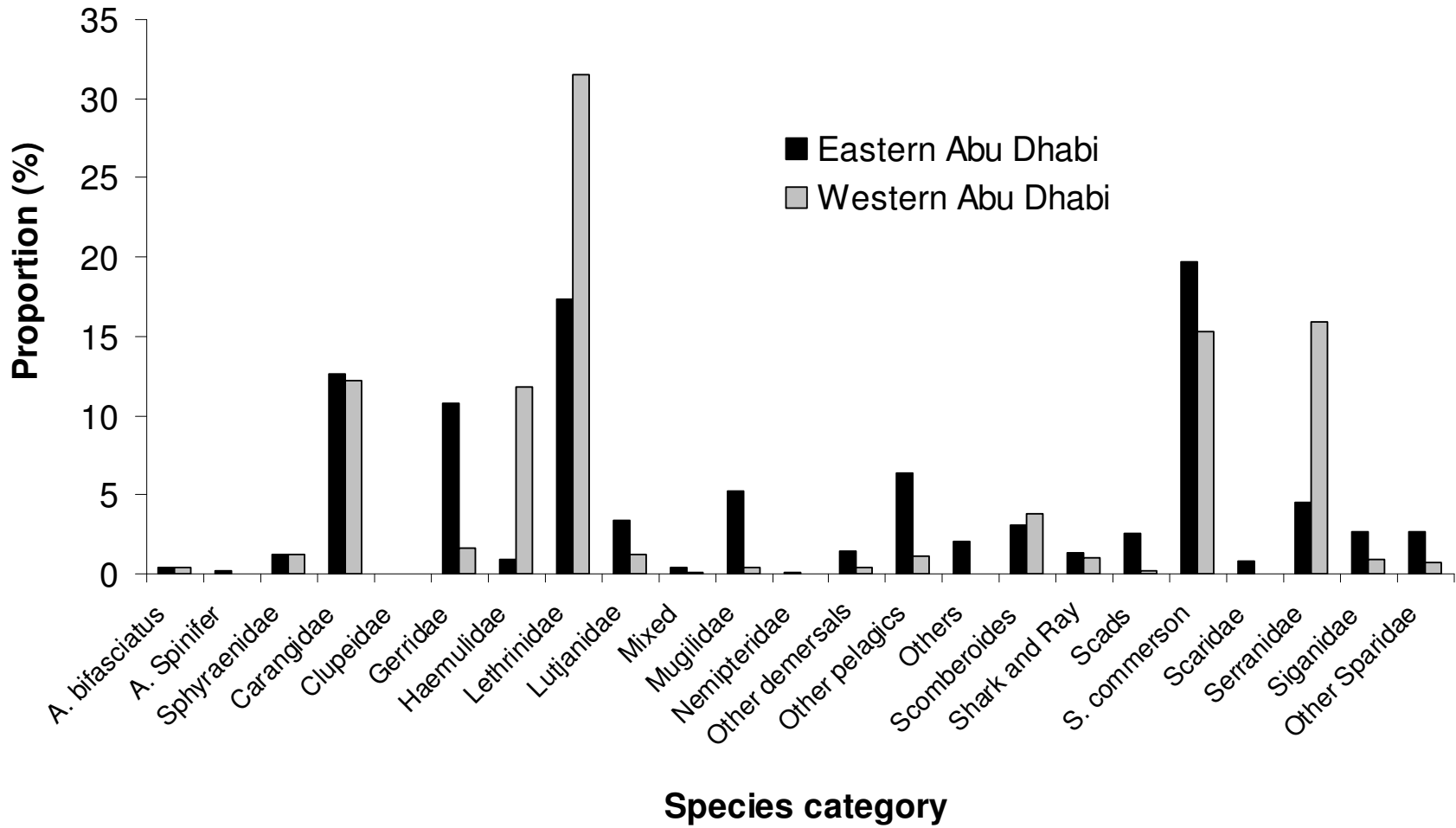


Figure 8 Species composition of tarad landings by strata.

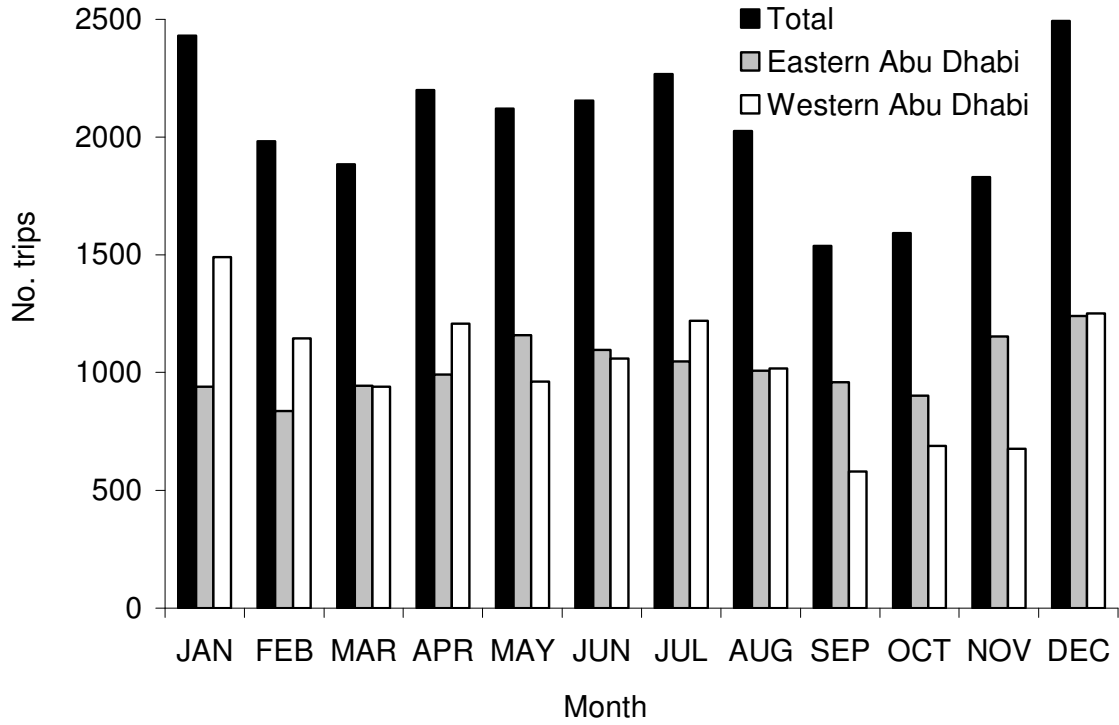


Figure 9 Total number of fishing trips by strata in the Emirate of Abu Dhabi.

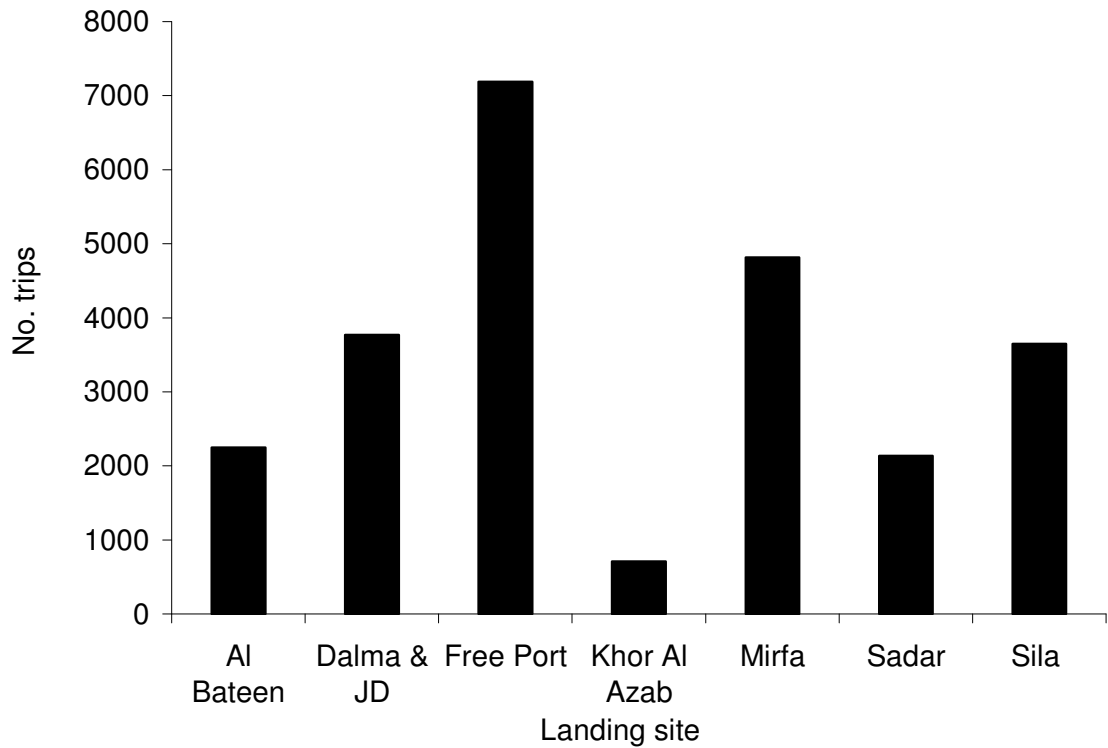


Figure 10 Total number of fishing trips by site in the Emirate of Abu Dhabi.

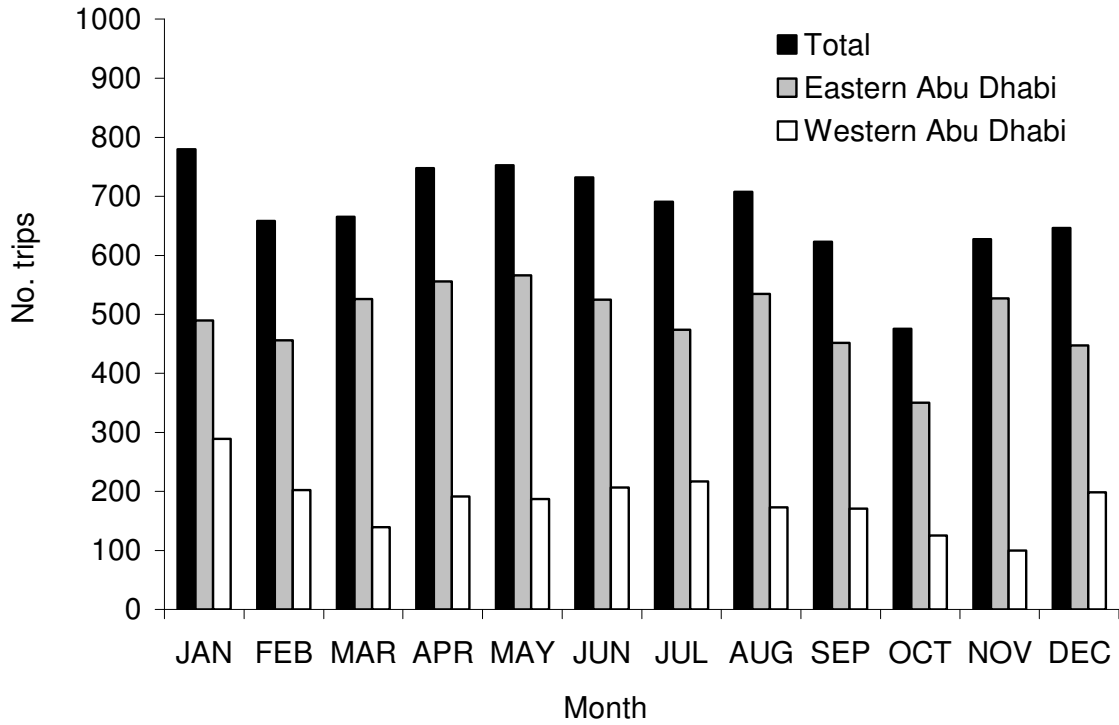


Figure 11 Total number of launch trips by month and strata.

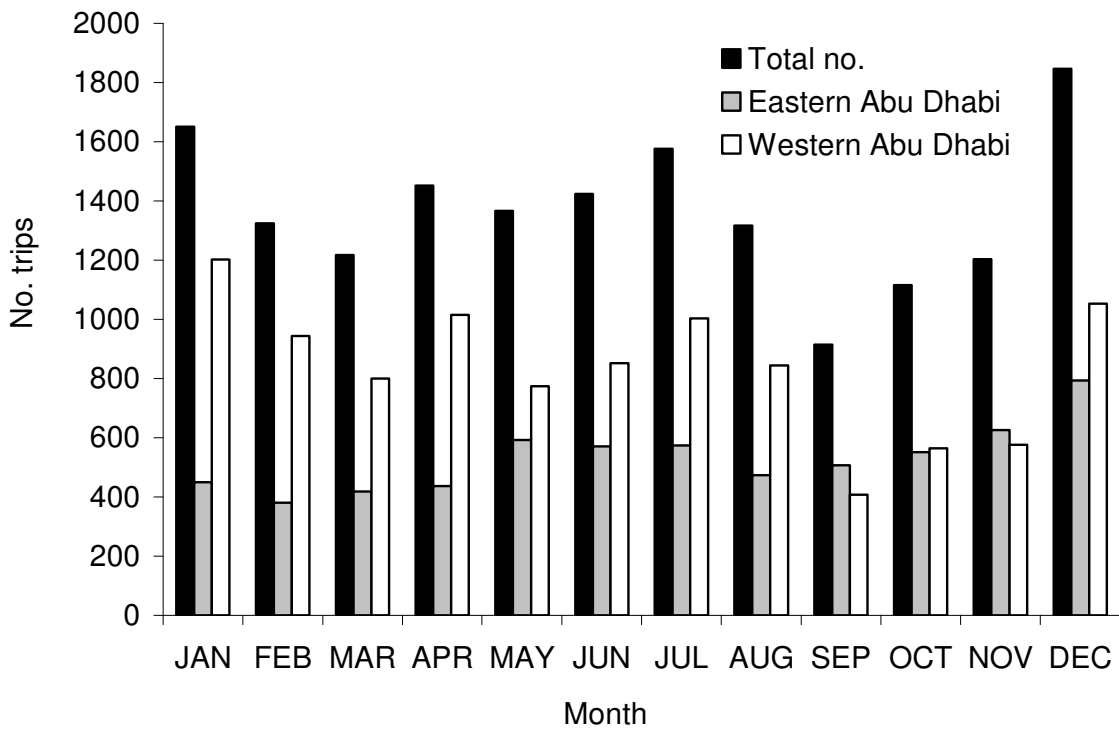


Figure 12 Total number of tarad trips by month and strata.

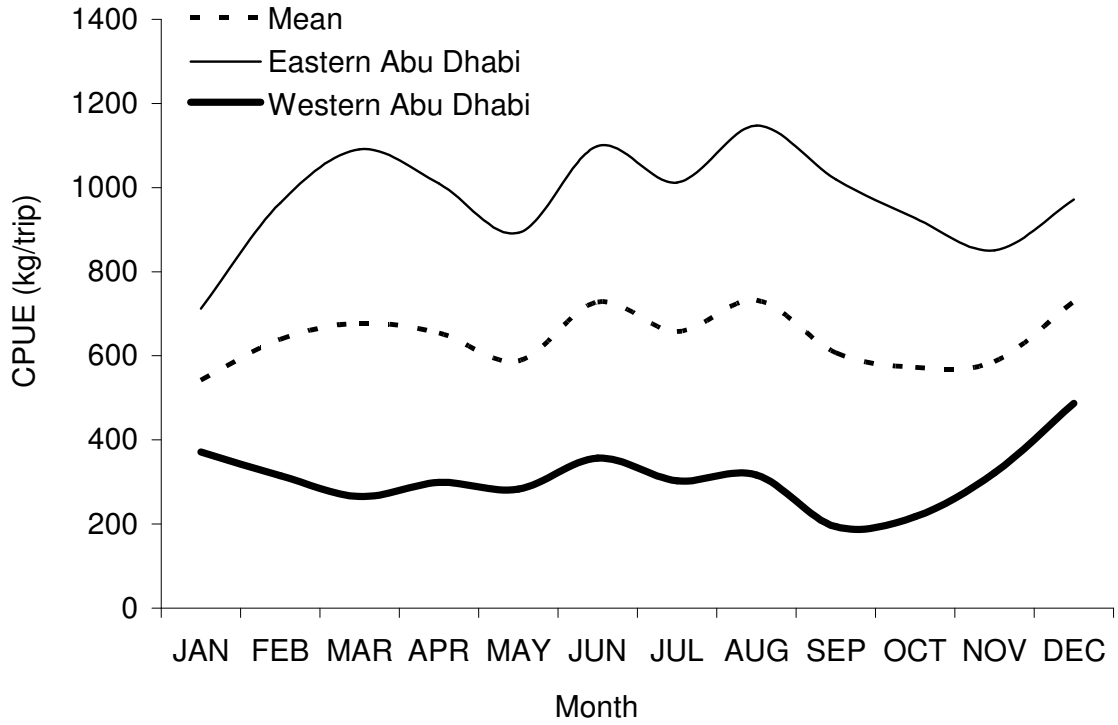


Figure 13 Catch per unit effort for launch by month and strata.

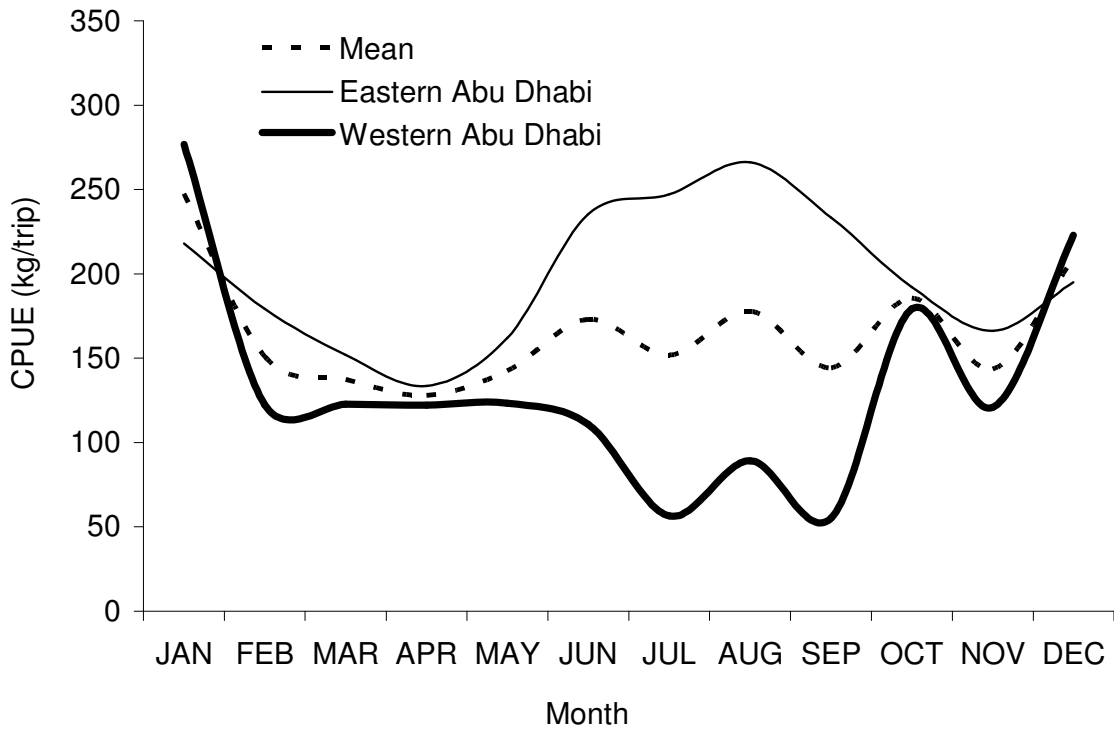


Figure 14 Catch per unit effort for tarads by month and strata.

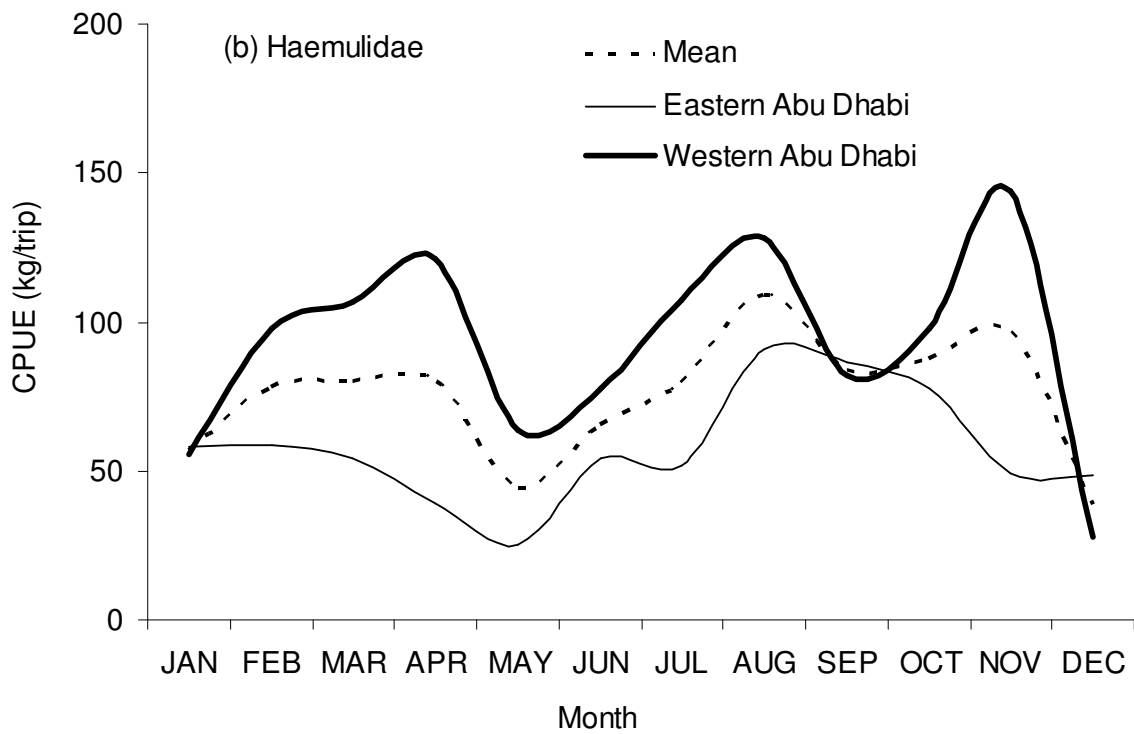
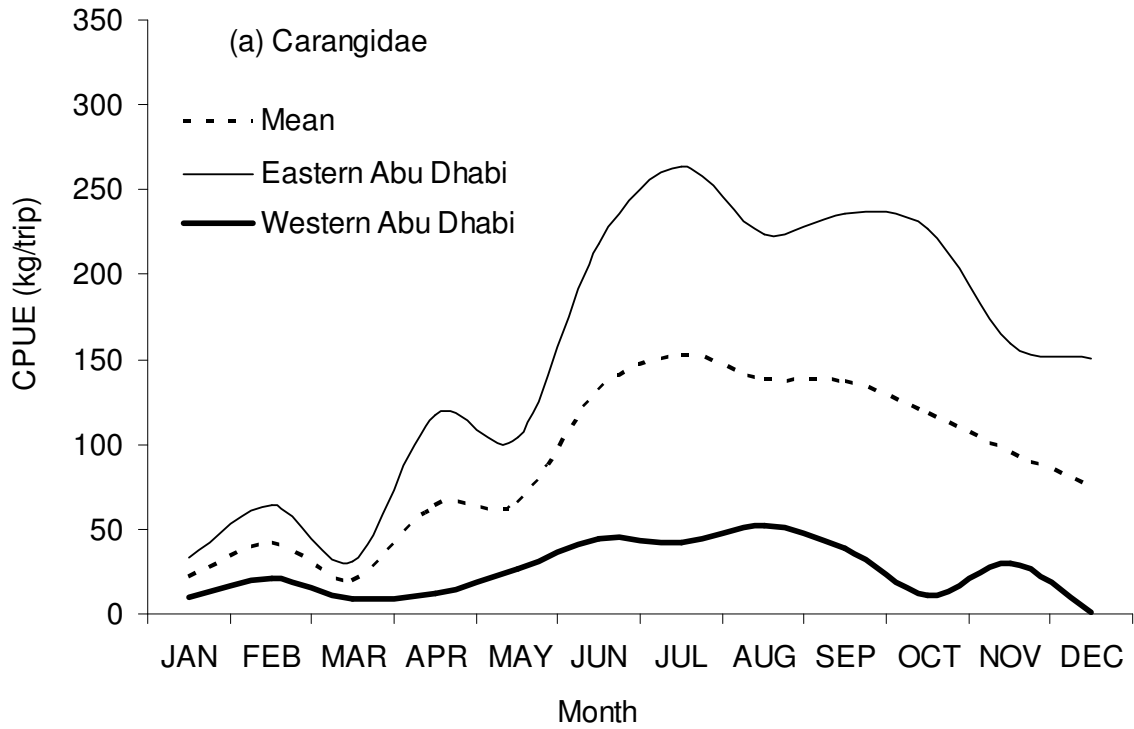


Figure 15 Catch per unit effort of the principal species categories in the launch fishery:
(a) Carangidae (b) Haemulidae

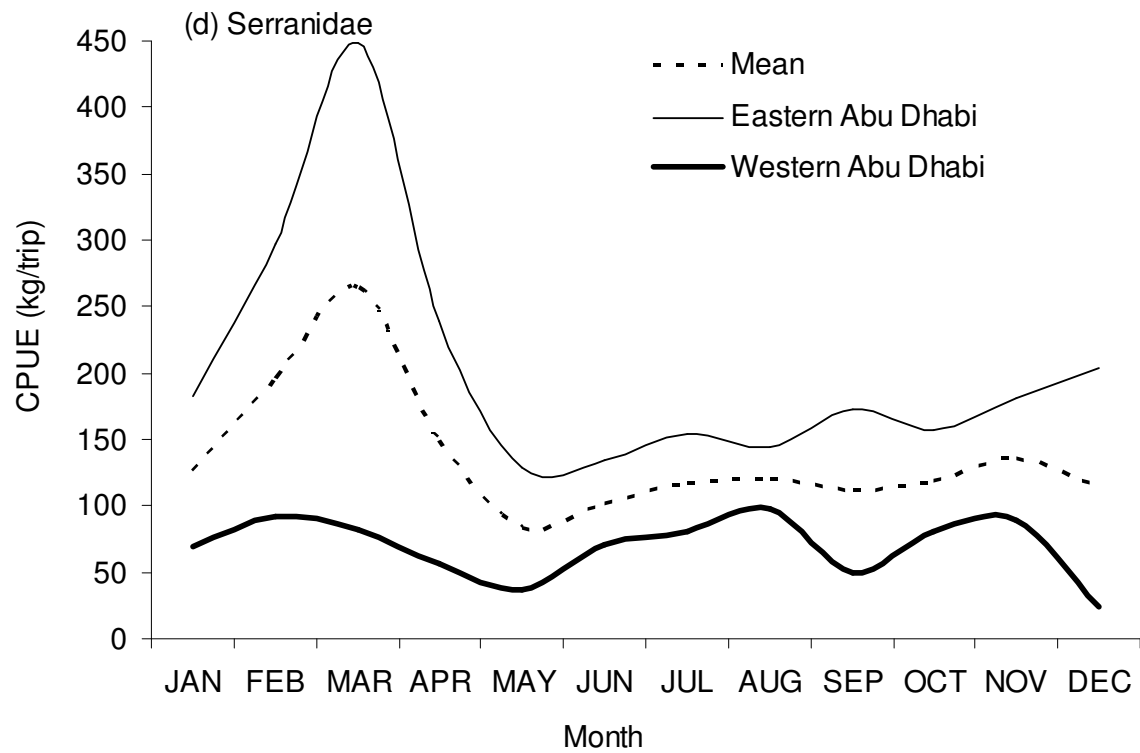
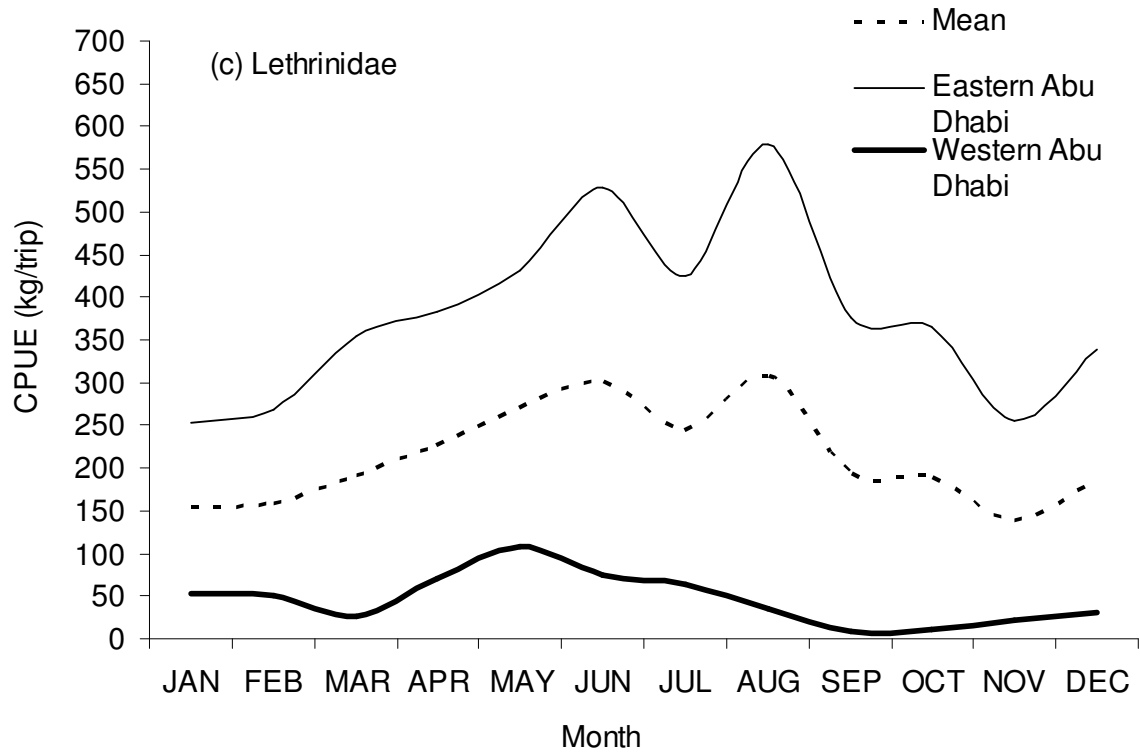


Figure 15 Catch per unit effort of the principal species categories in the launch fishery:
 (c) Lethrinidae (d) Serranidae.

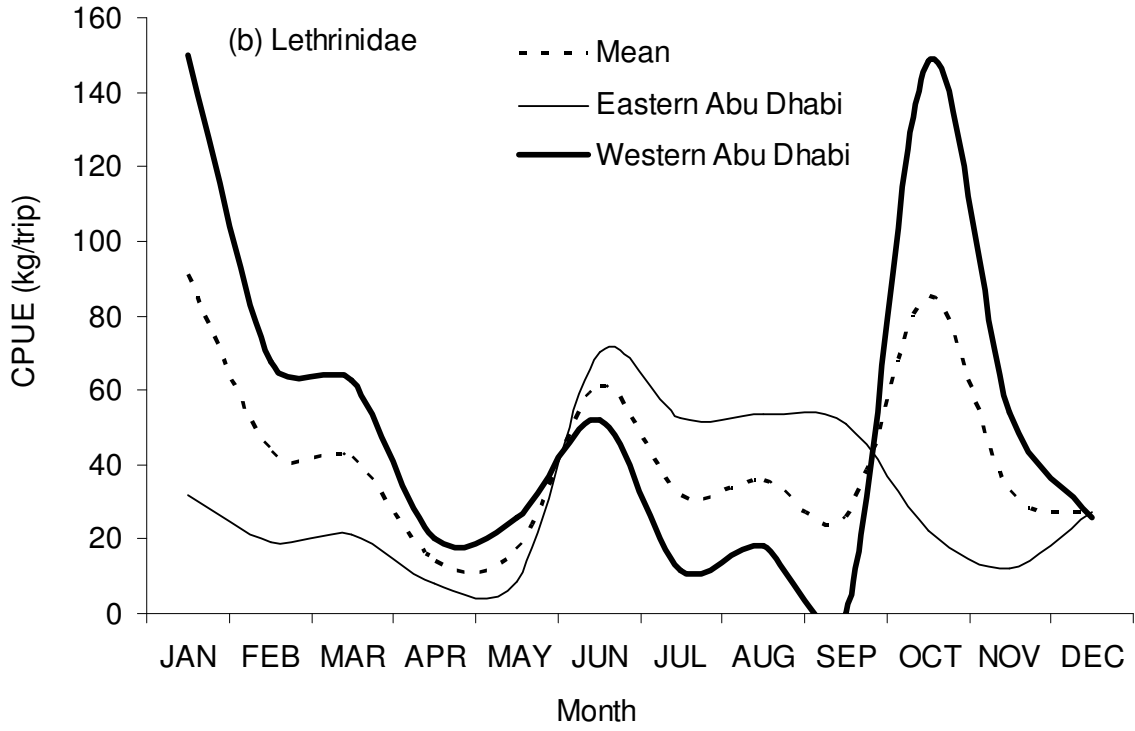
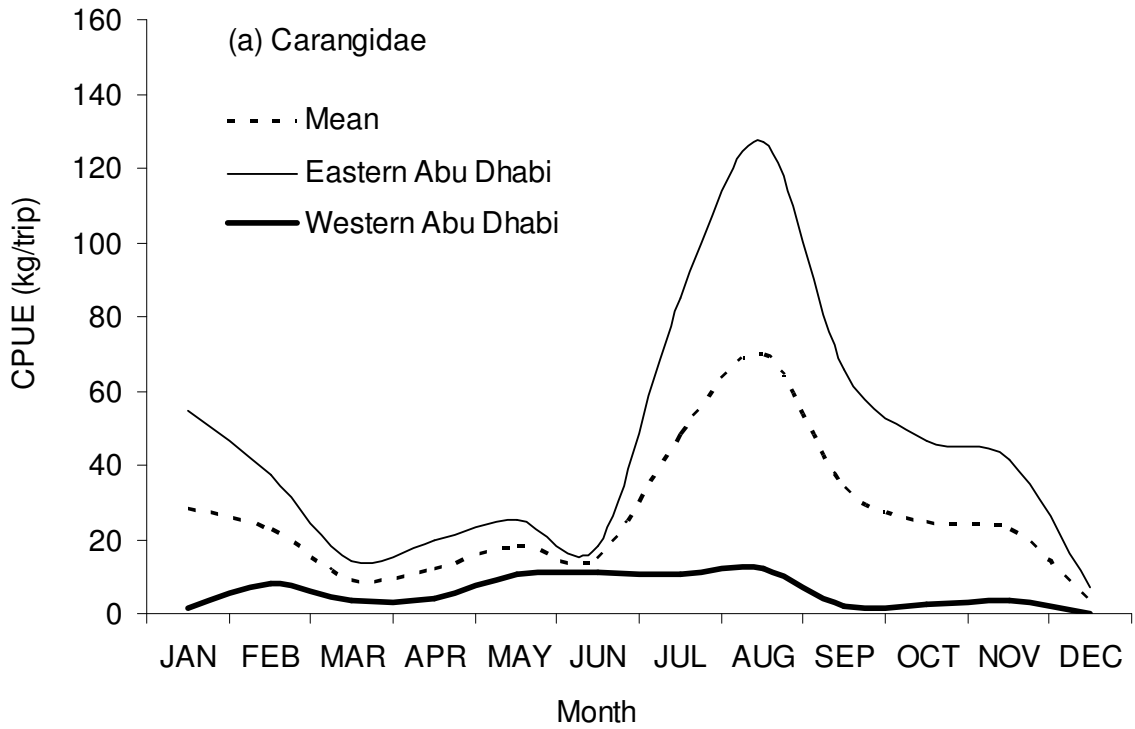


Figure 16 Catch per unit effort of the principal species categories in the tarad fishery: (a) Carangidae (b) Lethrinidae

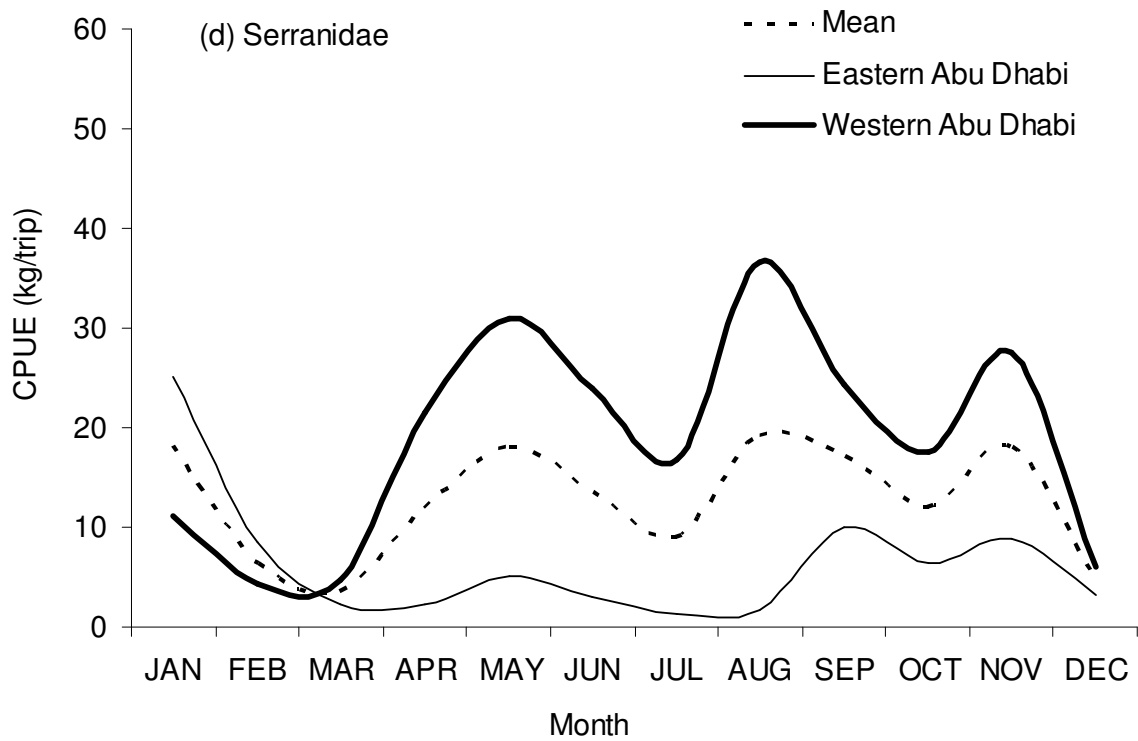
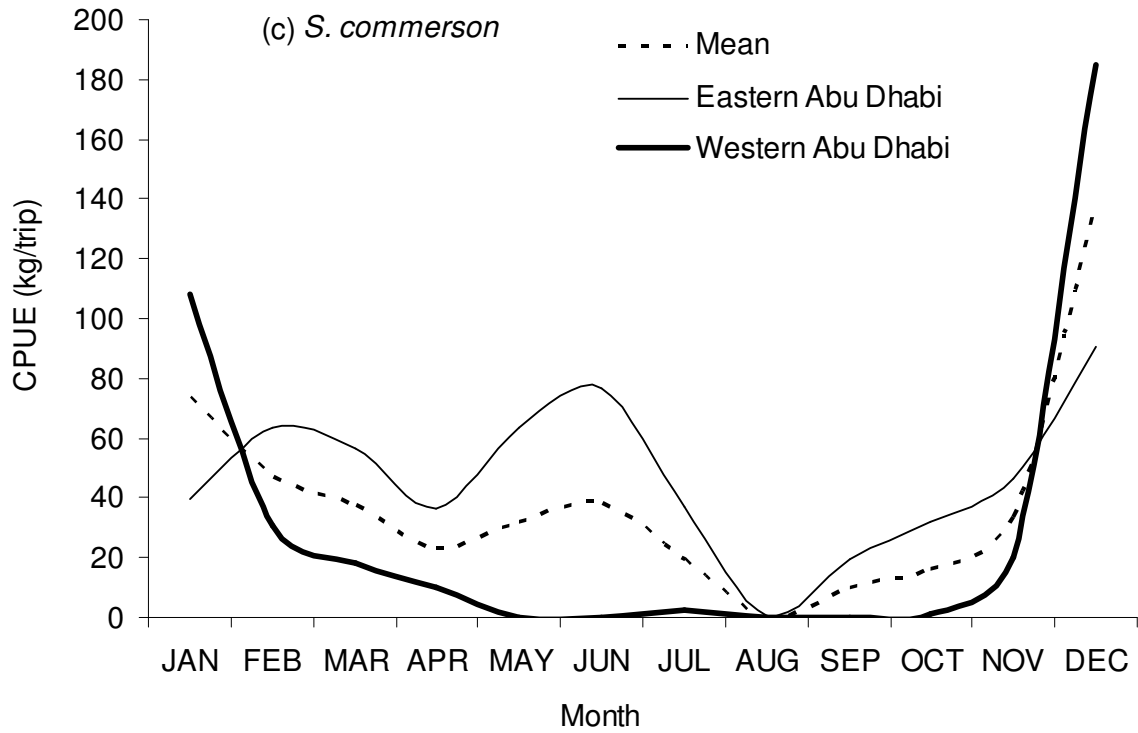


Figure 16 Catch per unit effort of the principal species categories in the tarad fishery: (c) *S. commerson* (d) Serranidae.

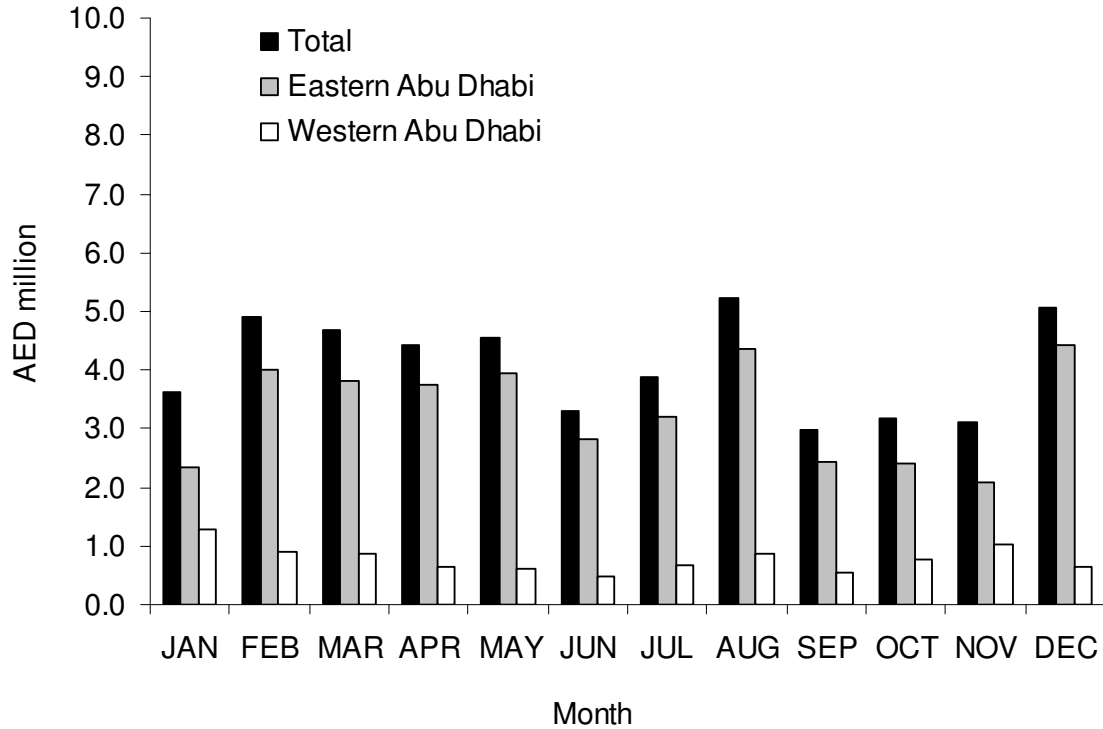


Figure 17 Value of the total landed catch by strata.

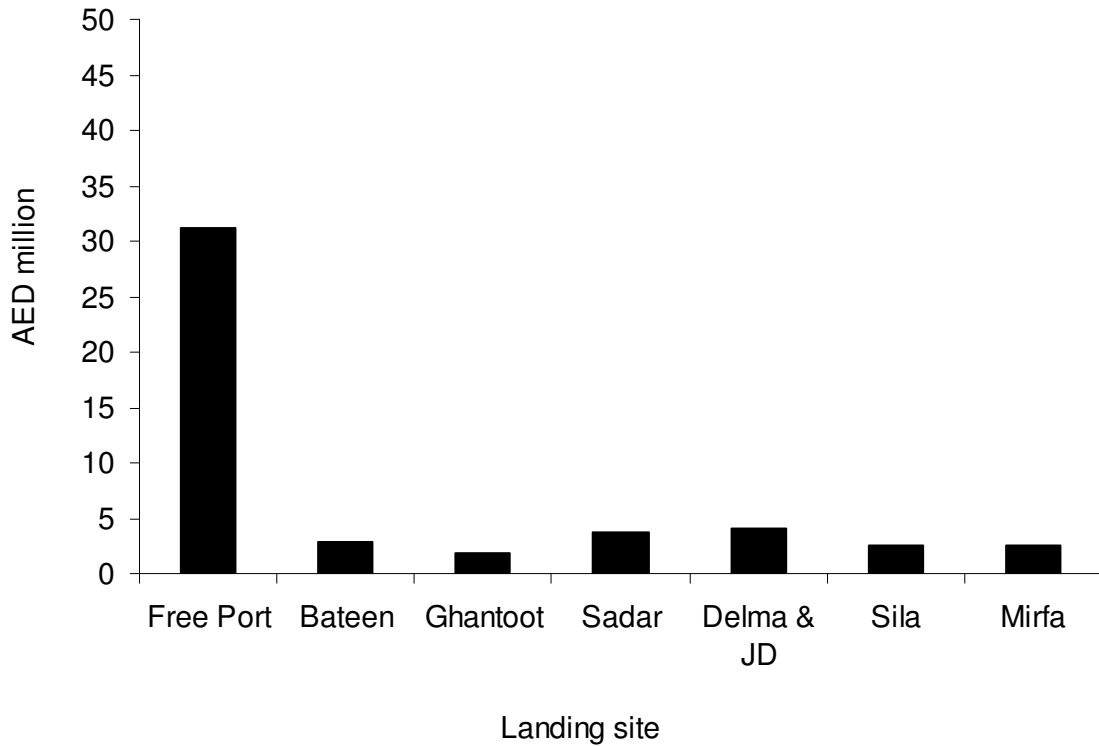


Figure 18 Value of the total landed catch by site.

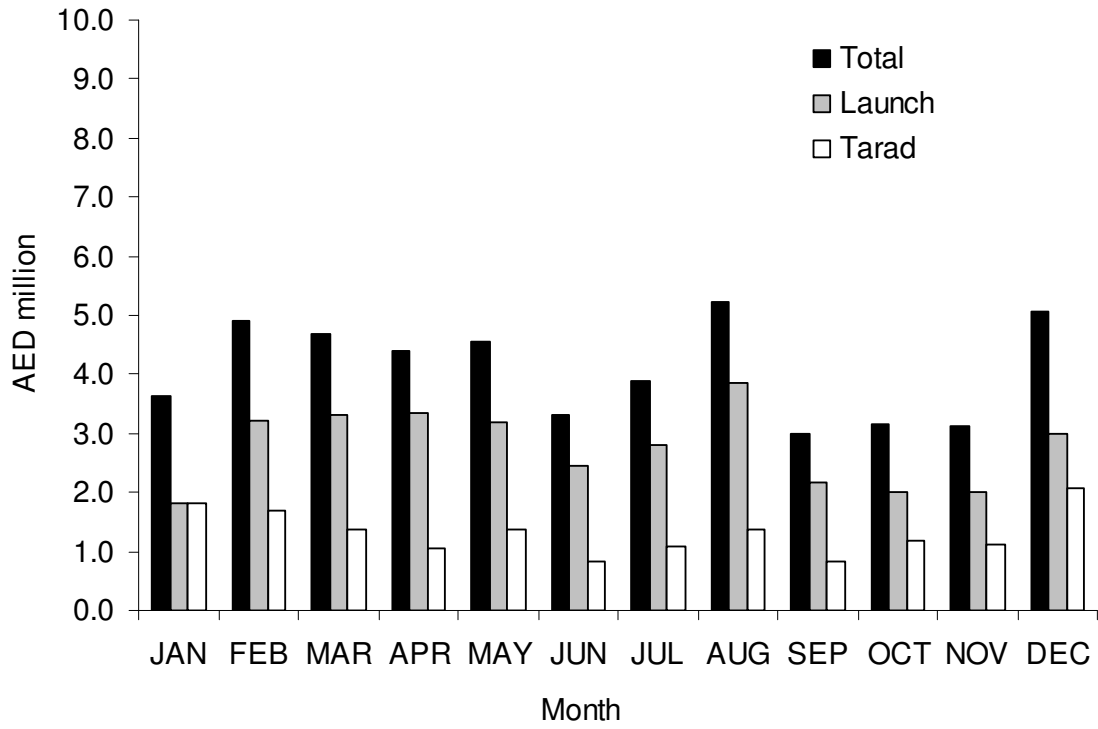


Figure 19 Value of the total landed catch by boat type.

Annex 1. Species and categories used in the catch and effort data recording system.

Code	Species or Category	English Name	Arabic Name	Family
A. bifasciatus	<i>Acanthopagrus bifasciatus</i>	Two bar seabream	Faskar	Sparidae
A. spinifer	<i>Argyrops spinifer</i>	King soldier bream	Kofar	Sparidae
Other Sparidae	<i>Diplodus sargus kotschy</i>	One spot seabream	Emshawah	Sparidae
	<i>Sparidentex hasta</i>	Sobaity seabream	Subaiti/Subadi	Sparidae
	<i>Acanthopagrus latus</i>	Yellowfin seabream	Shaam	Sparidae
	<i>Acanthopagrus berda</i>	Picnic seabream	Shaam Aswad	Sparidae
	<i>Rhabdosargus sarba</i>	Goldlined seabream	Qabit	Sparidae
	Other sparidae			
Sphyraenidae	<i>Sphyraena jello</i>	Pickhandle barracuda	Jedd	Sphyraenidae
	<i>Sphyraena barracuda</i>	Great barracuda	Jedd Large	Sphyraenidae
	<i>Sphyraena obtusata</i>	Obtuse barracuda	Ghely	Sphyraenidae
	Other Sphyraenidae			
Carangidae	<i>Carangoides bajad</i>	Orange spotted trevally	Jesh Mezriya Bortoqaliya	Carangidae
	<i>Gnathanodon speciosus</i>	Golden trevally	Zuraidi Kafdar	Carangidae
	<i>Carangoides fulvoguttatus</i>	Yellow spotted trevally	Jesha Zeria Safra	Carangidae
	<i>Carangoides malabaricus</i>	Malabar trevally	Sal (Jesha, Tanna)	Carangidae
	<i>Caranx heberi</i>	Blacktip trevally	Jesh Farow	Carangidae
	<i>Caranx ignobilis</i>	Giant trevally	Jesh Yeb/Jeb/Guftar	Carangidae
	<i>Elagatis bipinnulata</i>	Rainbow runner	Ghareebah	Carangidae
	<i>Seriola dumerili</i>	Greater amberjack	Yeb	Carangidae
	<i>Seriolina nigrofasciata</i>	Blackbanded trevally	Hamam	Carangidae
Scomberoides	<i>Parastromateus niger</i>	Black pomfret	Halwayoh Wide	Carangidae
	<i>Trachinotus mookalee</i>	Indian pompano	Tala	Carangidae
	<i>Trachinotus blochii</i>	Snubnose pompano	Leef (Sibin)	Carangidae
	<i>Scomberoides lysan</i>	Double spotted queenfish	Dhala	Carangidae
	<i>Scomberoides tol</i>	Needle scaled queenfish	Bassar	Carangidae
	<i>Scomberoides commersonianus</i>	Talang queenfish	Dhil'e	Carangidae
Scads	<i>Alepes vari</i>	Herring scad	Gamlouh	Carangidae
	<i>Atule mate</i>	Yellow tail scad	Durduman	Carangidae
	<i>Decapterus russelli</i>	Indian scad	Sima (Balij)	Carangidae
	<i>Selaroides leptolepis</i>	Yellow stripe scad	Seena	Carangidae
	<i>Megalaspis cordyla</i>	Torpedo scad	Titi (Diyayuh)	Carangidae
Clupeidae	<i>Sardinella longiceps</i>	Indian oil sardinella	Oumah	Clupeidae
	<i>Nematalosa nasus</i>	Bloch's gizzard shad	Yawafah	Clupeidae
	Other Clupeidae			Clupeidae
Gerreidae	All siver-biddies	Silver-biddies	Badah	Gerreidae
Haemulidae	<i>Plectorhinchus pictus</i>	Trout sweetlips	Farsh	Haemulidae
	<i>Plectorhinchus sordidus</i>	Sordid sweetlips	Yanam	Haemulidae
	<i>Diagramma pictum</i>	Painted sweetlips	Fersh/Fara	Haemulidae
	<i>Pomadasys argenteus</i>	Silver grunt	Naqroor	Haemulidae
	<i>Plectorhinchus gaterinus</i>	Blackspotted rubberlip	Hilali	Haemulidae

Annex 1. cont...

Code	Species or Category	English Name	Arabic Name	Family
Lethrinidae	<i>Lethrinus lentjan</i>	Pink ear emperor	Shari Eshkheli	Lethrinidae
	<i>Lethrinus nebulosus</i>	Spangled emperor	Shaari	Lethrinidae
	<i>Lethrinus microdon</i>	Small tooth emperor	Souli	Lethrinidae
	<i>Lethrinus barbonicus</i>	Snub nose emperor	Yemah	Lethrinidae
	Other Lethrinidae			
Lutjanidae	<i>Lutjanus russelli</i>	Russell's snapper	Umm Dhrais	Lutjanidae
	<i>Lutjanus malabaricus</i>	Malabar blood snapper	Hamra	Lutjanidae
	<i>Lutjanus fulviflamma</i>	Black spot snapper	Aqalah	Lutjanidae
	<i>Lutjanus lutjanus</i>	Big eye snapper	Gaizawan	Lutjanidae
	<i>Pinjalo pinjalo</i>	Pinjalo	Neimi	Lutjanidae
	<i>Lutjanus ehrenbergii</i>	Ehrenberg's snapper	Naiser	Lutjanidae
	Other lutjanidae			
Mugilidae	<i>Valamugil seheli</i>	Bleu spot mullet	Beyah Arabi	Mugilidae
	Other Mugilidae			
Nemipteridae	<i>Scolopsis taeniatus</i>	Black streaked monocle bream	Ebizimi /Zaimi/Zemi	Nemipteridae
	<i>Nemipterus peronii</i>	Notched threadfin bream	Andaq	Nemipteridae
	<i>Scolopsis ghanam</i>	Arabian monocle bream	Ain shamaluh	Nemipteridae
	Other Nemipteridae			
Other demersals	All Balistidae	Triggerfish	Qargumbah	Balistidae
	All Ehippidae	Battfish	Imad	Ehippidae
	<i>Choerodon robustus</i>	Robust tuskfish	Jin (Abu Nab)	Labridae
	<i>Thalossoma lunare</i>	Moon wrasse	Misan	Labridae
	<i>Cheilinus lunulatus</i>	Broomtail wrasse	Yerab	Labridae
	<i>Parupeneus margaritatus</i>	Pearly goatfish	Hedi	Mullidae
	<i>Arothron stellatus</i>	Stellate puffer	Faqel	Tetraodontidae
	<i>Platycephalus indicus</i>	Bar tail flathead	Wahar	Platycephalidae
	<i>Pomacanthus maculosus</i>	Yellow bar angelfish	Anfooz	Pomacanthidae
	<i>Bothus pantherinus</i>	Leopard flounder	Sakat mousa	Psettodidae
	<i>Euryglossa orientalis</i>	Oriental sole	Shars	Soleidae
	<i>Pampus argenteus</i>	Silver pomfret	Zubaidi	Stromateidae
	<i>Saurida undosquamis</i>	Brush tooth lizardfish	Senyouh Abullaban	Synodontidae
	<i>Terapon jarbua</i>	Jarbua terapon	Yelly	Teraponidae
	<i>Tachysurus thalasinus</i>	Giant sea catfish	Khan	Ariidae
	Other demersal species			
Other pelagics	All Belonidae	Needle fish	Haqool/Sils	Belonidae
	<i>Chanos chanos</i>	Milkfish	Aifah	Chanidae
	<i>Coryphaena hippurus</i>	Common dolphin fish	Anfaloos	Coryphaenidae
	<i>Rastrelliger kanagurta</i>	Indian mackerel	Garfah	Scombridae
	<i>Istiophorus platypterus</i>	Indo-pacific sailfish	Khail Al Bahar	Xiphiidae
	<i>Rachycentron canadum</i>	Cobia	Sikkil	Rachycentridae
	<i>Auxis thazard</i>	Frigate tuna	Tabban	Scombridae
	<i>Euthynnus affinis</i>	Kawakawa	Sadah	Scombridae
	Other tunas			

Annex 1. cont...

Code	Species or Category	English Name	Arabic Name	Family
Shark & Ray	<i>All Shark species</i>	Sharks	Kersh	Carcharhinidae,
	<i>All Ray species</i>	Rays	Lugmah	Sphyrnidae etc.
	<i>All guitarfish and saw fish</i>	Guitarfish/Sawfish	Soos	Dasyatidae, Myliobatidae, Rhinobatidae, Pristidae
S. commerson	<i>Scomberomorus commerson</i>	Kingfish	Kanaad, khabat	Scombridae
Scaridae	<i>Scarus ghobban</i>	Yellow scale parrotfish	Gain	Scaridae
	<i>Scarus persicus</i>	Gulf parrotfish	Gain	Scaridae
	Other Scaridae			
Serranidae	<i>Epinephelus coioides</i>	Orange spotted grouper	Hamour	Serranidae
	<i>Cephalopholis hemistiktos</i>	Yellow fin hind	Eshnenuh	Serranidae
	<i>Epinephelus areolatus</i>	Areolate grouper	Semman	Serranidae
	<i>Epinephelus bleekeri</i>	Dusky tail grouper	Semman	Serranidae
	<i>Epinephelus latifasciatus</i>	Striped grouper	Hamour	Serranidae
	Other Serranidae			
Siganidae	<i>Siganus canaliculatus</i>	White-spotted spinefoot	Safi Arabi	Siganidae
	<i>Siganus javus</i>	Streaked spinefoot	Safi Sneifi	Siganidae
Others	Non fish species			
	Crustaceans, molluscs, etc.			
Mixed	Mixed basket (assorted species)			