

Appendix 14.3 Fisheries Survey Findings

1 Overview

Between November 2012 and November 2013 (**Table 1-1**), fisheries surveys have been conducted for trawling, purse seining, gill netting and hand lining, ichthyoplankton, fish post-larvae and two site visits to the artificial reefs at Sha Chau and Lung Kwu Chau Marine Park (SCLKCMP) were made. Raw data of the surveys are provided in **Annex A**.

The fisheries survey findings are presented in the following sections:

Fisheries survey (fish trawl survey, purse seine survey, gill net survey, hand line survey);

Artificial reef survey;

Ichthyoplankton and fish post-larvae survey;

Summary of fisheries surveys and ichthyoplankton and fish post-larvae surveys results (proposed land formation footprint, northern Chek Lap Kok waters, western Chek Lap Kok waters, The Brothers, SCLKCMP);

Fisheries interview survey;

Aquaculture interview survey; and

Sites of fisheries importance based on literature review and fisheries survey findings.

Table 1-1 Fisheries Survey Schedule from November 2012 to November 2013.

Survey Types	2012		2013										
	Dry Season					Wet Season						Dry	
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Fish trawl survey (Day time)	10						4		19	24			16, 20
Fish trawl survey (Night time)		22					11		27	30			9, 23
Purse seine survey					28,29		25	29	27	17			9, 23
Gill net survey					28,29		30	29	27		28		9, 23
Hand line survey					28,29		30	29	27		28		9, 23
Ichthyoplankton, Fish post-larvae and juveniles Survey							23	17	10	1			
Artificial reefs site visit									11				8

2 Fisheries Survey Findings

A total of 182 species were recorded from the fisheries surveys (including trawling, purse seine, gill net and hand line surveys), of which around 93% have commercial value (**Annex B**). Species with commercial value are defined based on the findings described in the fisheries interview survey i.e. catches which are retained and either sold to seafood market and restaurants, or to local factories for salted/preserved fish production, or as fish feed. Catches with no commercial value such as corals, *Temnopleurus toreumaticus* (sea urchin), *Philine aperta* (sand slug), *Siphonosoma* sp. (peanut worm), *Pteroeides sparmanni* (sea pen) etc. are usually thrown back into the sea by fishermen.

134 fish species from 75 families, six species of mantis shrimps from one family, 11 species of shrimps from three families, 13 species of crabs from six families, and 18 species from 16 other families (including blood cockle, sea snail, sea urchin, sand slug, peanut worm, common frog shell, squid, green mussel, octopus, sea pen, cuttlefish, squid, clam, and horseshoe crab) have been recorded. According to the Fish Marketing Organization (2013a), the average price for fresh fish landed during 2011 – 2012 was \$30 – \$45 kg⁻¹. Therefore species were grouped into high value species (> \$45 kg⁻¹), medium value (\$30 - \$ 45 kg⁻¹) and low value (< \$30 kg⁻¹). Based on the average price of 61 species recorded between 2011 and 2012 by FMO (2013), those species caught in the fish trawl, purse seine, gill net or hand line surveys were identified and their commercial values evaluated (**Annex B**). For species which did not have prices provided by the FMO, their commercial values were estimated by an experienced fisherman who was familiar with the fish price. From the field surveys, 46 species of high commercial value, 33 species of medium value, 90 species of low commercial value and 13 species with no commercial value were recorded.

A total of 125 species were found within HKIAAA and a total of 174 species were found outside HKIAAA. Only eight fish species (*Apogonichthyoides pseudotaeniatus* (Doublebar cardinal fish), *Pomadasys kaakan* (Javelin grunter), *Secutor insidiator* (Slipmouth), *Sphyræna pinguis* (Brown barracuda), *Acanthopagrus berda* (Picnic seabream), *Zebrias quagga* (Fringefin zebra sole), *Zebrias zebra* (Double banded sole) and *Aetobatus flagellum* (Longheaded eagle ray)) which were found within HKIAAA were not recorded at other survey areas. Out of these species only *Acanthopagrus berda* is of high commercial value.

A total of 148 were found within the proposed land formation footprint and immediately adjacent area (F1B) and a total of 160 species were found in other survey locations.

3 Fish Trawl Survey

The survey area was divided into six regions, three of which fell within the proposed land formation footprint within and outside the existing HKIAAA and the immediately adjacent area (F1A and F1B, F2A and F2B, F3A and F3B), one was in western waters of existing HKIA (F4A and F4B), and two others were in northern Lantau waters identified as spawning ground of commercial fisheries in previous studies (F5A and F5B, F6A and F6B). For each region, the average species richness (i.e. number of species), average abundance and average yield were calculated **Table 3.1** and **Table 3.2**.

In the dry season, the highest abundance was recorded in F3A and F3B (within project footprint) and the highest yield were recorded in F2A and F2B (within project footprint). The high abundance and yield are mainly due to *Turritella terebra*, which is of low commercial value. Although commercial species (both adult and juvenile) accounted for 68% of the total abundance and 76% of the total weight, many species with relatively high abundance and yield recorded are non-commercial, such as *Temnopleurus toreumaticus*,

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Siphonosoma sp. and the small crab species of *Charybdis* genus Details of biomass and yield were presented in **Annex D**.

In the wet season the highest abundance was recorded in F1A and F1B (within project footprint) and the highest yield was recorded in F2A and F2B (within project footprint). The lowest abundance and yield were both recorded in F5A and F5B (northern Chek Lap Kok water). Both number and weight percentage of commercial species decreased, showing that there was an increase of non-commercial species. Overall, the percentage abundance of commercial species and the percentage weight of commercial species were 44% and 47% species respectively, with a high portion of *Turritella terebra*, which is a low commercial species. Similar to the result in dry season, non-commercial, such as *Temnopleurus toreumaticus*, *Siphonosoma* sp. and *Charybdis* genus were recorded in high abundance and yield.

Table 3-1 Summary Table for Fish Trawl Survey Results (Dry Season)

Location	Transects	Avg. No. of Species	Avg. Abundance	Avg. Yield (g)	% of Abundance with Commercial species	% of Weight with Commercial species
Within land formation footprint and the immediately adjacent area	F1A, F1B	36	402.2	6,927	51.0	65.3
	F2A, F2B	28	375.0	9,483	48.0	70.0
	F3A, F3B	34	633.7	7,958	86.4	92.5
Western Waters of Chek Lap Kok	F4A, F4B	27	450.7	6,807	50.5	62.4
Northern Waters of Chek Lap Kok	F5A, F5B	26	384.0	5,006	82.6	80.2
	F6A, F6B	29	274.7	4,195	85.7	86.0
Overall (In five stations)	F1A – F6B	71	2520.2	40,374	67.8	75.7

Table 3-2 Summary Table for Fish Trawl Survey Results (Wet Season)

Location	Transects	Avg. No. of Species	Avg. Abundance	Avg. Yield (g)	% of Abundance with Commercial species	% of Weight with Commercial species
Within land formation footprint and the immediately adjacent area	F1A, F1B	36	1176.5	17,354	38.8	41.2
	F2A, F2B	32	934.3	18,895	40.1	53.3
	F3A, F3B	37	720.2	11,529	53.0	60.6
Western Waters of Chek Lap Kok	F4A, F4B	31	955.8	11,979	37.8	32.6
Northern Waters of Chek Lap Kok	F5A, F5B	33	428.0	5,766	71.6	65.3
	F6A, F6B	31	581.8	8,022	55.1	53.5
Overall (In five stations)	F1A – F6B	76	4796.7	73,544	44.2	47.2

4 Purse Seine Survey

In the dry season (see **Table 4.1**), all species caught by purse seine were commercial species, with *Thryssa kammalensis* (Kammal thryssa) and *Sardinella albella* (White sardinella) accounting for the highest abundance in almost all of the survey sites. These species are all of low commercial value. The highest abundance was recorded in northern water of Chek Lap Kok (P5A and P5B) while the lowest abundance was recorded in the Brothers Marine Park (P1A and P1B). The highest yield was recorded in SCLKCMP (P2A and P2B) while the lowest yield was recorded within the proposed Brothers Marine Park (P1A and P1B).

In the wet season (see **Table 4.2**), 99% of the recorded species were commercial species, and *Sardinella albella* was the most abundant species, along with *Alepes djedaba* (shrimp scad) and *Thryssa kammalensis* (anchovy). All these species are of low commercial value. Both species richness and diversity increased as compared to the dry season. The highest abundance and yield were recorded in SCLKCMP (P2A and P2B) while the lowest abundance and yield were recorded within the land formation footprint and inside HKIAAA (P3A and P3B).

Table 4-1 Summary Table for Purse Seine Survey Results (Dry Season)

Location	Transects	Avg. No. of Species	Avg. Abundance	Avg. Yield (g)	% of Abundance with Commercial species	% of Weight with Commercial species
Proposed Brothers Marine Park	P1A, P1B	10	174.0	1,912.	100	100
SCLKCMP	P2A, P2B	13	305.3	14,963	99.9	100
Within land formation footprint	P3A, P3B	8	239.3	10,227	100	100
Western Waters of Chek Lap Kok	P4A, P4B	13	416.8	8,372	100	100
Northern Waters of Chek Lap Kok	P5A, P5B	11	767.3	7,316	100	100
Overall (In five stations)	P1A – P5B	26	1902.5	42,789	100	100

Table 4-2 Summary Table for Purse Seine Survey Results (Wet Season)

Location	Transects	Avg. No. of Species	Avg. Abundance	Avg. Yield (g)	% of Abundance with Commercial species	% of Weight with Commercial species
Proposed Brothers Marine Park	P1A, P1B	12	213.8	1,597	99.9	99.9
SCLKCMP	P2A, P2B	19	282.3	3,167	99.4	99.2
Within	P3A, P3B	13	55.8	1,099	98.3	97.9

Location	Transects	Avg. No. of Species	Avg. Abundance	Avg. Yield (g)	% of Abundance with Commercial species	% of Weight with Commercial species
land formation footprint						
Western Waters of Chek Lap Kok	P4A, P4B	15	193	2,931	97.1	98.1
Northern Waters of Chek Lap Kok	P5A, P5B	12	114.3	2,521	99.0	99.6
Overall (In five stations)	P1A – P5B	32	859.0	11,315	99.1	98.9

5 Gill Net Survey

In the dry season (see **Table 5.1**), the highest abundance was found in the northern waters of Chek Lap Kok while (P5A and P5B) and the highest yield was found in SCLKCMP. The lowest abundance and yield were recorded within the land formation footprint (P3A, P3B). Non-commercial species including *Temnopleurus toreumaticus* and small crabs *Charybdis* sp. were recorded with high abundance. Commercial species including *Leiognathus brevirostris*, *Dendophysa russelli* (goatee croaker), and the mantis shrimps *Oratosquilla interrupta* were recorded with high abundance. They are recorded in diverse survey locations. In contrast to the purse seine surveys results, during the wet season (see **Table 5.2**) species richness decreased compared to the dry season. Non-commercial species such as *Temnopleurus reevesi* and small crabs *Charybdis* sp. proliferated. The highest abundance was recorded in northern waters of Chek Lap Kok (P5A, P5B) while the lowest abundance was recorded within land formation footprint (P3A, P3B). The highest yield was recorded in the proposed Brothers Marine Park (P1A, P1B) while the lowest yield was recorded in the SCLKCMP (P2A, P2B).

Table 5-1 Summary Table for Gill Net Survey Results (Dry Season)

Location	Transects	Avg. No. of Species	Avg. Abundance	Avg. Yield (g)	% of Abundance with Commercial species	% of Weight with Commercial species
Proposed Brothers Marine Park	P1A , P1B	6	14.0	515	77.5	87.1
SCLKCMP	P2A , P2B	9	21.3	766	97.1	98.0
Within land formation footprint	P3A , P3B	5	11.3	425	79.9	89.0
Western Waters of Chek Lap Kok	P4A , P4B	7	15.3	646	92.9	92.6
Northern Waters of	P5A ,	4	21.8	467	44.0	43.9

Location	Transects	Avg. No. of Species	Avg. Abundance	Avg. Yield (g)	% of Abundance with Commercial species	% of Weight with Commercial species
Chek Lap Kok	P5B					
Overall (In five stations)	P1A – P5B	19	83.5	2,819	72.5	84.0

Table 5-2 Summary Table for Gill Net Survey Results (Wet Season)

Location	Transects	Avg. No. of Species	Avg. Abundance	Avg. Yield (g)	% of Abundance with Commercial species	% of Weight with Commercial species
Proposed Brothers Marine Park	P1A, P1B	9	32.8	1,084	55.8	74.8
SCLKCMP	P2A, P2B	4	32.3	511	12.7	28.4
Within land formation footprint	P3A, P3B	5	22.8	702	36.6	70.2
Western Waters of Chek Lap Kok	P4A, P4B	5	39.5	658	11.3	22.7
Northern Waters of Chek Lap Kok	P5A, P5B	6	43.5	963	19.5	46.5
Overall (In five stations)	P1A – P5B	17	170.8	3,918	23.7	55.9

6 Hand Line Survey

During the dry season (see Table 6.1), *Sebastiscus marmoratus* (common rockfish) which is of high commercial value was recorded with the highest abundance, almost all species caught were of commercial value. The highest abundance and yield were recorded at the proposed Brothers Marine Park (H1) and the lowest abundance and yield were recorded in the northern waters of Chek Lap Kok (H5).

In the wet season (see Table 6.2), all species caught were with commercial value. *Sebastiscus marmoratus* was recorded with high abundance. The abundance in the SCLKCMP was the highest and the lowest was recorded in western waters of Chek Lap kok. The highest yield was recorded in the northern waters of Chek Lap Kok while the lowest was recorded within the land formation footprint.

Table 6-1 Summary Table for Hand Line Survey Results (Dry Season)

Location	Transects	Avg. No. of Species	Avg. Abundance	Avg. Yield (g)	% of Abundance with Commercial species	% of Weight with Commercial species
Proposed Brothers Marine Park	H1	2	20.5	861	100	100
SCLKCMP	H2	2	6.0	269	100	100

Location	Transects	Avg. No. of Species	Avg. Abundance	Avg. Yield (g)	% of Abundance with Commercial species	% of Weight with Commercial species
Within land formation footprint	H3	3	3.8	133	100	100
Western Waters of Chek Lap Kok	H4	2	6.3	182	75	75
Northern Waters of Chek Lap Kok	H5	2	2.0	105	100	100
Overall (In five stations)	H1 – H5	7	38.6	1550	99.0	98.3

Table 6-2 Summary Table for Hand Line Survey Results (Wet Season)

Location	Transects	Avg. No. of Species	Avg. Abundance	Avg. Yield (g)	% of Abundance with Commercial species	% of Weight with Commercial species
Proposed Brothers Marine Park	H1	5	11.5	579	100	100
SCLKCMP	H2	5	12.5	570	100	100
Within land formation footprint	H3	4	6.0	320	100	100
Western Waters of Chek Lap Kok	H4	2	4.0	379	100	100
Northern Waters of Chek Lap Kok	H5	3	6.5	683	100	100
Overall (In five stations)	H1 – H5	12	40.5	2530	100	100

7 Artificial Reef Survey

Two dive visits were conducted on 11 July and 8 November 2013 at the artificial reefs of SCLKCMP. The waters around the artificial reefs were similar to other areas in the western Hong Kong waters, i.e. being turbid and with low visibility of less than 1 m on both days of the site visit. Secchi disc measurements were also made on 5 and 6 November 2013 to review the water underwater visibility and suitability of conducting underwater visual count. The secchi disc measurements indicated that the visibility at SCLKCMP was continuously low with secchi depth below 1 m. Due to the high turbidity and low observation range, quantitative surveys by underwater visual count was not feasible and only qualitative records were obtained from the two dive visits. Soft corals were observed in low density on the artificial reefs, with macroinvertebrates (e.g., unidentified crabs) and sessile fauna recorded as being attached to the artificial reefs. This indicated the artificial reefs do serve the function of providing hard substrates for the colonisation of benthic fisheries resources at the artificial of SCLKCMP.

8 Ichthyoplankton and Fish Post-larvae Survey

During the peak spawning season for commercial fisheries in the North Western WCZ i.e. between May and August 2013, four ichthyoplankton and fish post-larvae surveys were conducted. The survey findings are detailed in the following sections.

Ichthyoplankton Density

The survey results are presented in terms of project footprint (Stations L4, L5 and L6) and the adjacent areas which may be impacted by the project, including the Brothers (Stations L1, L2 and L3), Sha Chau and Lung Kwu Chau Marine Park (SCLKCMP) (Stations L7, L8 and L9), northern Chek Lap Kok waters (Stations L10, L11 and L12) and western Chek Lap Kok waters (Stations L13, L14 and L15).

In general, ichthyoplankton density highest in May, followed by June, July then August. Ichthyoplankton density was low across survey area, with the lowest within project footprint and the highest in SCLKCMP and northern Chek Lap Kok waters (**Table 8-1**).

The average ichthyoplankton densities (1.07 larvae m⁻³) in the identified spawning ground of commercial fisheries resources (L1, L2, L3, L7, L8, L9, L19, L11 and L12) were lower than those recorded in the adjacent areas in western Lantau waters (1.90 larvae m⁻³) during wet season (**Annex C**).

Table 8-1 Mean Ichthyoplankton Density (\pm s.d.) (larvae m⁻³)

Area	May	June	July	August	Average
The Brothers	2.66 (\pm 2.46)	0.61 (\pm 0.30)	0.15 (\pm 0.04)	0.16 (\pm 0.16)	0.90 (\pm 1.57)
Project footprint	1.70 (\pm 1.28)	0.55 (\pm 0.10)	0.19 (\pm 0.12)	0.11 (\pm 0.05)	0.63 (\pm 0.88)
SCLKCMP	3.60 (\pm 2.86)	0.39 (\pm 0.19)	0.41 (\pm 0.17)	0.13 (\pm 0.12)	1.13 (\pm 1.98)
Northern Chek Lap Kok Waters	3.11 (\pm 1.22)	0.99 (\pm 0.77)	0.38 (\pm 0.23)	0.16 (\pm 0.08)	1.16 (\pm 1.37)
Western Chek Lap Kok Waters	2.12 (\pm 0.50)	1.11 (\pm 0.98)	0.63 (\pm 0.61)	0.14 (\pm 0.05)	1.00 (\pm 0.95)
Average among five stations	2.63 (\pm 1.87)	0.73 (\pm 0.61)	0.35 (\pm 0.34)	0.14 (\pm 0.96)	0.96 (\pm 1.40)

Ichthyoplankton Diversity

In general, number of ichthyoplankton fish families recorded was highest in May, followed by June, August then July. Number of fish families was low across survey area, with highest in the Brothers and lowest in project footprint (**Table 8-2**).

The dominant fish ichthyoplankton families in terms of abundance were Clupeidae, Gobiidae, Ambassidae, Blenniidae and Engraulidae, accounting for 97.2% of the total ichthyoplankton sample. The most common fish families were Clupeidae, Gobiidae, Ambassidae, and Blenniidae in May, June, July and August respectively. These families consist of mostly low commercial value species.

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Table 8-2 Mean Number of Fish Family Recorded from Ichthyoplankton Survey. (\pm s.d.)

Area	May	June	July	August	Average
The Brothers	13.50 (\pm 3.27)	8.17 (\pm 1.60)	4.50 (\pm 1.05)	5.83 (\pm 0.75)	8.00 (\pm 3.95)
Project footprint	8.17 (\pm 2.93)	6.83 (\pm 1.47)	4.00 (\pm 0.63)	4.83 (\pm 1.47)	5.96 (\pm 2.39)
SCLKCMP	11.67 (\pm 2.88)	5.83 (\pm 1.17)	4.83 (\pm 1.17)	4.83 (\pm 1.17)	6.79 (\pm 3.34)
Northern Chek Lap Kok Waters	8.83 (\pm 3.71)	7.83 (\pm 2.32)	4.67 (\pm 1.21)	4.67 (1.37)	6.50 (\pm 2.92)
Western Chek Lap Kok Waters	9.33 (\pm 1.21)	8.67 (\pm 1.37)	5.83 (\pm 1.47)	4.33 (\pm 1.21)	7.04 (\pm 2.42)
Average among five stations	10.30 (\pm 3.39)	7.47 (\pm 1.83)	4.77 (\pm 1.22)	4.90 (\pm 1.24)	6.86 (\pm 3.08)

Fish Post-larvae Density

In general, fish post-larvae density was highest in May, followed by July, June then August. Fish post-larvae density was low across survey area, with highest in SCLKCMP and lowest in project footprint (**Table 8-3**).

Table 8-3 Mean Post-larvae Density (\pm s.d.) (larvae m^{-3})

Area	May	June	July	August	Total
The Brothers	26.56 (\pm 48.00)	2.55 (\pm 1.66)	2.55 (\pm 2.04)	2.99 (\pm 2.16)	8.66 (\pm 24.80)
Project footprint	17.29 (\pm 13.99)	4.31 (\pm 2.27)	3.23 (\pm 1.77)	0.85 (\pm 0.51)	6.42 (\pm 9.33)
SCLKCMP	23.32 (\pm 10.74)	2.45 (\pm 2.06)	11.89 (\pm 10.23)	1.76 (\pm 0.97)	9.85 (\pm 11.35)
Northern Chek Lap Kok Waters	20.39 (\pm 11.17)	5.16 (\pm 3.49)	8.33 (\pm 3.95)	0.96 (\pm 0.86)	8.71 (\pm 9.38)
Western Chek Lap Kok Waters	21.66 (\pm 9.37)	4.47 (\pm 2.91)	3.43 (\pm 2.29)	5.12 (\pm 3.85)	8.67 (\pm 9.18)
Average among five stations	21.84 (\pm 22.30)	3.79 (\pm 2.62)	5.88 (\pm 6.05)	2.34 (\pm 2.51)	8.46 (\pm 13.97)

Fish Post-larvae Diversity

In general, number of fish post-larvae families was highest in May, followed by July, June then August. Fish post-larvae density was low across the survey area, with highest in SCLKCMP and lowest in northern Chek Lap Kok waters (**Table 8-4**).

The dominant fish post-larvae families in terms of abundance were Clupeidae, Engraulidae, Ambassidae, Gobiidae and Blenniidae, accounting for 96.3% of the total fish post-larvae sample. The most common fish families were Clupeidae, Gobiidae, Ambassidae, and Engraulidae in May, June, July and August respectively, and these are all families of low commercial values.

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Table 8-4 Mean Number of Fish Family Recorded in Fish Post-larvae Survey (\pm s.d.) (larvae m^{-3})

Area	May	June	July	August	Total
The Brothers	4.83 (\pm 1.72)	2.50 (\pm 1.51)	3.33 (\pm 0.82)	3.50 (\pm 1.38)	3.54 (\pm 1.56)
Project footprint	6.17 (\pm 2.56)	3.83 (\pm 1.72)	3.00 (\pm 0.63)	1.67 (\pm 0.2)	3.67 (\pm 2.24)
SCLKCMP	7.00 (\pm 2.00)	2.33 (\pm 1.03)	3.33 (\pm 0.82)	2.50 (\pm 1.38)	3.79 (\pm 2.32)
Northern Chek Lap Kok Waters	4.33 (\pm 1.37)	3.33 (\pm 2.01)	4.17 (\pm 0.75)	1.33 (\pm 1.03)	3.29 (\pm 1.78)
Western Chek Lap Kok Waters	4.50 (\pm 1.64)	3.83 (\pm 1.33)	3.67 (\pm 1.37)	2.00 (\pm 0.89)	3.50 (\pm 1.56)
Average among five stations	5.37 (\pm 2.06)	3.17 (\pm 1.60)	3.50 (\pm 0.94)	2.20 (\pm 1.27)	3.56 (\pm 1.90)

Fish Families Recorded

There were 27 families recorded in the study area based on the sample identification (**Table 8-5**). The most abundant fish family recorded was Clupeidae, followed by Engraulidae, Ambassidae, Blenniidae, Gobiidae and Scorpaenidae. Except for Scorpaenidae which may comprise species of medium commercial value, the rest are mostly families of low commercial value.

All monitoring stations recorded fish larvae and post-larvae of commercial value. However, the most abundant species as mentioned above were of low commercial value. For families of high commercial value, one ichthyoplankton individual of Cynoglossidae was found within the proposed land formation footprint (L6) in July while two ichthyoplankton individuals of Sillaginidae were found within the proposed land formation footprint (L5) and SCLKCMP (L9). One post-larvae individual of Cynoglossidae was found within SCLKCMP (L8). *Hippocampus kuda* which is also of high commercial value had one ichthyoplankton detected at The Brothers (L1), and one post-larvae individual at northern Chek Lap Kok waters (L12).

Table 8-5 Checklist of Fish Families Recorded During the Surveys

Family	Common Name
*Ambassidae	Bald glassy
Apogonidae	Cardinalfishes
Atherinidae	Silversides
Belonidae	Needlefishes
*Blenniidae	Blennies
Bregmacerotidae	Codlets
Callionymidae	Dragonets
Carangidae	Jacks, trevallies, scads
*Clupeidae	Sardines, herrings, shads
Cynoglossidae	Tonguesoles, tonguefishes
*Engraulidae	Anchovies, thryssas
Gerreidae	Silver-biddies, mojarras
*Gobiidae	Gobies
Hemiramphidae	Halfbeaks
Leiognathidae	Ponyfishes
Monacanthidae	Filefishes, leatherjackets

Family	Common Name
Mugilidae	Mulletts
Mullidae	Goatfishes
Platycephalidae	Flatheads
Sciaenidae	Croakers
*Scorpaenidae	Rockfishes, scorpionfishes, waspfishes
Sillaginidae	Sillgaos
Soleidae	Soles
Sphyraenidae	Barracudas
Syngnathidae	Seahorses, pipefishes
Terapontidae	Terapons
Trichiuridae	Hairtails

* indicates the most abundant fish families

9 Summary of Fisheries Surveys

Proposed land formation footprint

Trawling, purse seine, gill net and hand line surveys were conducted within the proposed land formation footprint. A total of 148 species were recorded (**Annex D**). The top five dominant species recorded in terms of abundance were *Temnopleurus toreumaticus*, *Turritella terebra*, *Siphonosoma* sp., *Johnius belangerii* and *Leiognathus brevirostris*. In terms of yield, the top five dominant species were *Temnopleurus toreumaticus*, *Johnius belangerii*, *Siphonosoma* sp., *Turritella terebra*, and *Konosirus punctatus*. Most of the dominant species recorded were of low or even no commercial values.

When only taking purse seine, gill net and hand line surveys into account, the top five dominant species recorded in terms of abundance were *Konosirus punctatus*, *Sardinella albella*, *Thryssa kammalensis*, *Temnopleurus toreumaticus* and *Thryssa hamiltonii*. In terms of yield, the top five dominant species were *Konosirus punctatus*, *Sardinella albella*, *Nematalosa nasus*, *Rhizoprionodon acutus* and *Drepane punctata*. Out of these only *Drepane punctata* is of medium commercial value, while the rest of the dominant species are of low commercial value.

The ichthyoplankton and post-larvae densities and family richness were low, and mostly consisted of families of low commercial values.

Northern Chek Lap Kok waters

Trawling, purse seine, gill net and hand-line surveys were conducted in northern Chek Lap Kok area. A total of 121 species were recorded. The top five dominant species recorded in terms of abundance were *Turritella terebra*, *Thryssa kammalensis*, *Charybdis* sp., *Leiognathus brevirostris* and *Philine aperta*. In terms of yield, the top five dominant species were *Turritella terebra*, *Charybdis* sp., *Thryssa kammalensis*, *Leiognathus brevirostris* and *Siphonosoma* sp.

When only taking purse seine, gill net and hand line surveys into account, the top five dominant species recorded in terms of abundance were *Thryssa kammalensis*, *Sardinella albella*, *Temnopleurus*

toreumaticus, *Leiognathus brevirostris* and *Alepes djedaba*. In terms of yield, the top five dominant species were *Thryssa kammalensis*, *Sardinella albella*, *Nematalosa nasus*, *Rhizoprionodon acutus* and *Temnopleurus toreumaticus*. All these dominant species are of no or low commercial values.

The ichthyoplankton and post-larvae densities and family richness were low, and mostly consisted of families of low commercial values.

Western Chek Lap Kok waters

Trawling, purse seine, gill net and hand-line surveys were conducted in western Chek Lap Kok water. A total of 105 species were recorded. The top five dominant species recorded in terms of abundance were *Temnopleurus toreumaticus*, *Turritella terebra*, *Thryssa kammalensis*, *Leiognathus brevirostris* and *Charybdis* sp. In terms of yield, the top five dominant species were *Temnopleurus toreumaticus*, *Turritella terebra*, *Sardinella albella*, *Charybdis* sp. and *Thryssa kammalensis*. These species are of no or low commercial values.

When only taking purse seine, gill net and hand line surveys into account, the top five dominant species recorded in terms of abundance were *Thryssa kammalensis*, *Sardinella albella*, *Alepes djedaba*, *Thryssa hamiltonii* and *Leiognathus brevirostris*. In terms of yield, the top five dominant species were *Sardinella albella*, *Thryssa kammalensis*, *Ilisha elongata*, *Konosirus punctatus* and *Thryssa hamiltonii*. Out of these only *Ilisha elongata* is of medium commercial value, while the rest are of low commercial value.

The ichthyoplankton and post-larvae densities and family richness were low, and mostly consisted of families of low commercial values.

The Brothers

Purse seine, gill net and hand-line surveys were conducted within the proposed Brothers Marine Park. Trawling survey was not conducted in this proposed marine park for minimising the disturbance to seabed. A total of 74 species were recorded. The number of species recorded was relatively less than other survey areas as trawling survey was not conducted in this location. The top five dominant species recorded in terms of abundance were *Thryssa kammalensis*, *Sardinella albella*, *Alepes djedaba*, *Sebastiscus marmoratus* and *Temnopleurus toreumaticus*. In terms of yield, the top five dominant species were *Sardinella albella*, *Thryssa kammalensis*, *Konosirus punctatus*, *Sebastiscus marmoratus* and *Siganus canaliculatus*. Except for *Sebastiscus marmoratus* which is of high commercial value, the rest of dominant species are of low commercial value.

The ichthyoplankton and post-larvae densities and family richness were low, and mostly consisted of families of low commercial values.

SCLKCMP

Purse seine, gill net and hand line surveys were conducted in SCLKCMP. Trawling survey was not conducted for minimising the disturbance to seabed. A total of 68 species were recorded. The top five dominant species recorded in terms of abundance were *Nematalosa nasus*, *Sardinella albella*, *Collichthys lucidus*, *Valamugil cunnesius* and *Leiognathus brevirostris*. In terms of yield, the top five dominant species were *Nematalosa nasus*, *Sardinella albella*, *Valamugil cunnesius*, *Ilisha elongata* and *Pampus argenteus*.

Out of these *Collichthys lucidus* and *Pampus argenteus* are of high commercial value, *Valamugil cunnesius* and *Ilisha elongata* are of medium commercial while the rest are of low commercial value.

The ichthyoplankton and post-larvae densities and family richness were low, and mostly consisted of families of low commercial values.

10 Reference

FMO, 2013. Wholesale prices of fresh marine fish website: http://www.fmo.org.hk/index/lang_en/page_price-detail/prd_3/charttype_2/#chart (Information retrieved on 13 September 2013)

Taxa	Order	Family	Scientific Name	F1A					F1B					F2A					F2B					F3A					F3B																						
				Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)	Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)	Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)	Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)	Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)	Total Weight (g)													
					Min.	Max.	Min.	Max.	Min.			Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.			Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.		Max.	Min.	Max.	Min.	Max.	Min.	Max.						
Crab	Decapoda	Dorippidae	<i>Paradorippe polita</i>		-	-	-	3	2.5	2.6	-	-	-	23.5	1	2.4	2.4	-	-	-	-	7.2		-	-	-	-	-		-	-	-	-	1	2.4	2.4	-	-	-	8.3											
Crab	Decapoda	Parthenopidae	<i>Parthenope sp.</i>	6	2	3.5	-	-	65.1	14	1.8	3.5	-	-	143.9	24	2	4.2	-	-	-	436.9	3	1.8	4	-	-	52.6	1	4	4	-	-	-	34.4	2	2.9	3.3	-	-	20.5										
Crab	Decapoda	Portunidae	<i>Charybdis lucifera</i>	1	7	7	-	-	84.5	2	5.4	6.3	-	-	59.5	15	3.4	6.3	-	-	-	308.1	3	2.8	4.3	-	-	36.8	1	4.9	4.9	-	-	-	19.6	4	3.2	6	-	-	115.5										
Crab	Decapoda	Portunidae	<i>Charybdis sp.</i>	10	2.6	5	-	-	165	6	2.5	4	-	-	60.4	49	3.2	5.4	-	-	-	1088.4	2	2.5	4.6	-	-	29.4	20	2.5	5.4	-	-	-	270.8	8	2.7	4.8	-	-	126.7										
Crab	Decapoda	Portunidae	<i>Portunus pelagicus</i>							1	13	13	-	-	250	1	7.5	7.5	-	-	-	55.2							1	10.5	10.5	-	-	-	108.2	1	9.3	9.3	-	-	108										
Crab	Decapoda	Portunidae	<i>Portunus sanguinolentus</i>	5	2.6	5.2	-	-	39.9																			17	2.8	5.5	-	-	-	160.2	1	3.2	3.2	-	-	4.8											
Fish	Clupeiformes	Clupeidae	<i>Kanopsis punctatus</i>																																																
Fish	Clupeiformes	Engraulidae	<i>Stolephorus indicus</i>																																																
Fish	Perciformes	Apogonidae	<i>Ostorhinchus fasciatus</i>							4	10	11	9.5	10.5	8.5	9.5																																			
Fish	Perciformes	Callionymidae	<i>Callionymus richardsonii</i>	1	9	9	-	7	7	4.8																																									
Fish	Perciformes	Drepanidae	<i>Drepane punctata</i>																																																
Fish	Perciformes	Gerresidae	<i>Gerres limbatos</i>	1	9	9	8	8	7	7	10.5																																								
Fish	Perciformes	Gobiidae	<i>Myersina filifer</i>							1	12.5	12.5	-	10	10	13.5																																			
Fish	Perciformes	Gobiidae	<i>Oxyurichthys tentacularis</i>	1	11	10.5	-	7	7	4.7	1	11.5	11.5	-	8.5	8.5	9.3																																		
Fish	Perciformes	Gobiidae	<i>Trypauchen vagina</i>	6	9.5	16.5	-	7.5	14	61.3	2	10	11.5	-	8.5	8.5	10.8																																		
Fish	Perciformes	Labridae	<i>Haliclaeres nigrescens</i>																																																
Fish	Perciformes	Leiognathidae	<i>Leiognathus brevirostris</i>	12	7	10	6.5	9.5	6	8.5	129.8	27	7.5	11	7	9.5	6.5	9	258.8	63	8	11	7.5	10	6.5	9.5	606.1	53	7	10.5	6.5	9.5	6	8.5	545.6	21	7.5	12.5	6	11	6	10	278.7	34	7.5	11	6	10	6	9	323
Fish	Perciformes	Polynemidae	<i>Polydactylus sextarius</i>																																																
Fish	Perciformes	Sciaenidae	<i>Dendrophysa russelli</i>	1	12	11.5	-	9.5	9.5	17.2																																									
Fish	Perciformes	Sciaenidae	<i>Johnius belangerii</i>	1	21	21	-	17.5	18	108.7	36	12.5	20	-	10	17.5	1621.9	96	11	21	-	9.5	17.5	3841.4	120	11	21.5	-	9.5	17.5	4983.6	2	14.5	17	-	11.5	14.5	93.4	22	12.5	16.5	-	10	14	764.9						
Fish	Perciformes	Sillaginidae	<i>Sillago sihama</i>	1	14	14	-	12	12	20.3																																									
Fish	Perciformes	Sparidae	<i>Acanthopagrus berda</i>																																																
Fish	Perciformes	Sparidae	<i>Eymnis cardinalis</i>							1	6.5	6.5	6	6	5.5	5.5	4.8	1	7	7	6.5	6.5	6	6	9.1																										
Fish	Pleuronectiformes	Bothidae	<i>Arnoglossus tenuis</i>							2	10	10.5	-	8	8.5	14.9																																			
Fish	Pleuronectiformes	Cynoglossidae	<i>Cynoglossus macrolepidotus</i>	1	20	20	-			36.6																																									
Fish	Pleuronectiformes	Cynoglossidae	<i>Cynoglossus puncticeps</i>																																																
Fish	Pleuronectiformes	Paralichthyidae	<i>Pseudorhombus levisquamis</i>	1	10	10	-	8.5	8.5	9.6																																									
Fish	Pleuronectiformes	Soleidae	<i>Solea ovata</i>																																																
Fish	Rajiformes	Dasyatidae	<i>Dasyatis zugei</i>																																																
Fish	Scorpaeniformes	Platycephalidae	<i>Inegocia guttata</i>	1	12	12	-	11	11	15																																									
Fish	Scorpaeniformes	Platycephalidae	<i>Inegocia japonica</i>																																																
Fish	Scorpaeniformes	Platycephalidae	<i>Platycephalus indicus</i>	3	16	21	-	14	18	117.9	1	23.5	23.5	-	21	21	68.8																																		
Fish	Scorpaeniformes	Sebastidae	<i>Sebastiscus marmoratus</i>																																																
Fish	Scorpaeniformes	Synanceiidae	<i>Inimicus cuvieri</i>																																																
Fish	Scorpaeniformes	Synanceiidae	<i>Trachicephalus uranoscopus</i>																																																
Fish	Scorpaeniformes	Tetraodontidae	<i>Paracentropogon rubripinnis</i>																																																
Fish	Siluriformes	Ariidae	<i>Arius maculatus</i>																																																
Fish	Siluriformes	Plotosidae	<i>Plotosus lineatus</i>																																																
Fish	Tetraodontiformes	Tetraodontidae	<i>Takifugu niphobles</i>																																																
Fish	Tetraodontiformes	Tetraodontidae	<i>Takifugu oblongus</i>																																																
Fish	Tetraodontiformes	Tetraodontidae	<i>Takifugu poecilonotus</i>																																																
Mantis shrimp	Stomatopoda	Squilla	<i>Clorida rotundicauda</i>																																																
Mantis shrimp	Stomatopoda	Squilla</																																																	

Taxa	Order	Family	Scientific Name	F1A					F1B					F2A					F2B					F3A					F3B																								
				Quantity	Total Length (cm)			Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)			Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)			Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)			Fork Length (cm)		Standard Length (cm)		Total Weight (g)														
					Min.	Max.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.	Min.			Max.	Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.	Min.		Max.	Min.	Max.											
Crab	Decapoda	Dorippidae	<i>Paradorippe polita</i>	1	2.4	-	2.4	-	-	-	6.3	1	1.5	-	1.5	-	-	-	-	3.1	1	2.2	-	2.2	-	-	-	-	10.8	1	2.1	-	2.1	-	-	-	-	2.5	1	2.4	-	2.4	-	-	-	-	5.7						
Crab	Decapoda	Eurypidae	<i>Eucrate crenata</i>	1	1.9	-	1.9	-	-	-	2.7	1	1.5	-	1.5	-	-	-	-	3.1	1	2.2	-	2.2	-	-	-	-	10.8	1	2.1	-	2.1	-	-	-	-	2.5	1	2.4	-	2.4	-	-	-	-	5.7						
Crab	Decapoda	Leucosiidae	<i>Seulocia vittata</i>	1	1.9	-	1.9	-	-	-	2.7	1	1.5	-	1.5	-	-	-	-	3.1	1	2.2	-	2.2	-	-	-	-	10.8	1	2.1	-	2.1	-	-	-	-	2.5	1	2.4	-	2.4	-	-	-	-	5.7						
Crab	Decapoda	Parthenopidae	<i>Parthenope sp.</i>	1	-	-	-	-	-	-	24.6	1	3.5	-	3.5	-	-	-	-	10.1	1	3.1	-	3.1	-	-	-	-	10.1	1	4.1	-	4.1	-	-	-	-	24.7	1	4.1	-	4.1	-	-	-	-	24.7						
Crab	Decapoda	Portunidae	<i>Charybdis ferata</i>	1	-	-	-	-	-	-	84.7	1	8.2	-	8.2	-	-	-	-	84.7	1	8.2	-	8.2	-	-	-	-	84.7	1	8.2	-	8.2	-	-	-	-	84.7	1	8.2	-	8.2	-	-	-	84.7							
Crab	Decapoda	Portunidae	<i>Charybdis lucifera</i>	1	-	-	-	-	-	-	88	1	8.2	-	8.2	-	-	-	-	88	1	8.2	-	8.2	-	-	-	-	88	1	8.2	-	8.2	-	-	-	-	88	1	8.2	-	8.2	-	-	-	88							
Crab	Decapoda	Portunidae	<i>Charybdis sp.</i>	26	3.5	-	5	-	-	-	457.9	25	2.8	-	4.8	-	-	-	-	438.2	48	2.9	-	5.1	-	-	-	-	128.2	21	2.6	-	4.8	-	-	-	-	354.7	24	2.5	-	5.1	-	-	-	443.3							
Crab	Decapoda	Portunidae	<i>Portunus sanguinolentus</i>	1	7.5	-	7.5	-	-	-	47.7	1	7.5	-	7.5	-	-	-	-	47.7	1	7.5	-	7.5	-	-	-	-	47.7	1	7.5	-	7.5	-	-	-	-	47.7	1	7.5	-	7.5	-	-	-	47.7							
Crab	Decapoda	Portunidae	<i>Portunus trituberculatus</i>	1	-	-	-	-	-	-	47.7	1	-	-	-	-	-	-	-	47.7	1	-	-	-	-	-	-	-	47.7	1	-	-	-	-	-	-	-	47.7	1	-	-	-	-	-	47.7								
Fish	Anguilliformes	Muraenesocidae	<i>Muraenesox cinereus</i>	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	9.2	-	9.2	-	-	-	-	-	-	92.1	1	7.7	-	7.7	-	-	-	450					
Fish	Clupeiformes	Clupeidae	<i>Nematalosa nasus</i>	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	7.7	-	7.7	-	-	-	-	-	-	450	1	7.7	-	7.7	-	-	-	450					
Fish	Perciformes	Apogonidae	<i>Ostorhinchus fasciatus</i>	2	5	-	5.5	-	4.8	-	5.2	-	4.2	-	4.5	-	-	-	5.9	1	11	-	11	-	10	-	10	-	9	-	9	-	-	-	-	-	-	24.6	2	7.5	-	19	-	6.5	-	17	-	6	-	16	70.4		
Fish	Perciformes	Callionymidae	<i>Callionymus richardsonii</i>	1	-	-	-	-	-	-	-	1	9	-	9	-	-	-	-	3.7	1	9	-	9	-	-	-	-	3.7	1	9	-	9	-	-	-	-	3.7	1	9	-	9	-	-	-	3.7							
Fish	Perciformes	Carangidae	<i>Alpes djedaba</i>	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	6.5	-	6.5	-	6	-	6	-	5.5	-	5.5	-	-	-	2.7								
Fish	Perciformes	Gerresidae	<i>Gerres limbatus</i>	2	11.5	-	11.5	-	10.5	-	10.5	-	9.5	-	9.5	-	-	-	43.6	2	11.5	-	11.5	-	10.5	-	10.5	-	9.5	-	9.5	-	-	-	-	-	134.3	5	9	-	15	-	8	-	13.5	-	7.5	-	12.5	134.3			
Fish	Perciformes	Gobiidae	<i>Ctenopoma chinensis</i>	1	9.5	-	9.5	-	7	-	7	-	7	-	7	-	-	-	3.2	1	9.5	-	9.5	-	7	-	7	-	3.2	1	9.5	-	9.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Fish	Perciformes	Gobiidae	<i>Oxyurichthys tentacularis</i>	1	12	-	12	-	9	-	9	-	9	-	9	-	-	-	6.2	1	12	-	12	-	9	-	9	-	6.2	1	12	-	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Fish	Perciformes	Gobiidae	<i>Trypauchen vagina</i>	1	12	-	12	-	9	-	9	-	9	-	9	-	-	-	6.2	1	12	-	12	-	9	-	9	-	6.2	1	12	-	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Fish	Perciformes	Leiognathidae	<i>Leiognathus brevirostris</i>	1	6.5	-	6.5	-	6	-	6	-	5.5	-	5.5	-	-	-	6.3	1	6.5	-	6.5	-	6	-	6	-	5.5	-	5.5	-	5	-	4.5	-	4.5	-	3.2	3	6.5	-	9.5	-	6	-	9	-	5.5	-	8	25	
Fish	Perciformes	Nemipteridae	<i>Nemipterus japonicus</i>	2	6	-	10	-	5.5	-	9.5	-	5	-	8.5	-	-	-	17.3	1	6	-	10	-	5.5	-	9.5	-	5	-	8.5	-	5	-	8.5	-	7.5	-	7.5	-	13.1	1	9	-	9	-	8.5	-	8.5	-	7.5	-	7.5
Fish	Perciformes	Sciaenidae	<i>Dendrophysa russelii</i>	1	15.5	-	15.5	-	13	-	13	-	13	-	13	-	-	-	43.7	14	13	-	20.5	-	10.5	-	17	-	669.9	6	13	-	17.5	-	11	-	14.5	-	233	31	11.5	-	17	-	9	-	14	-	1131.4				
Fish	Perciformes	Sciaenidae	<i>Johnius belangerii</i>	14	13	-	20.5	-	10.5	-	17	-	10.5	-	17	-	-	-	669.9	6	13	-	17.5	-	10.5	-	17	-	669.9	6	13	-	17.5	-	11	-	14.5	-	233	31	11.5	-	17	-	9	-	14	-	1131.4				
Fish	Perciformes	Sciaenidae	<i>Peniaha anea</i>	1	26	-	26	-	22	-	22	-	22	-	22	-	-	-	274.5	1	26	-	26	-	22	-	22	-	274.5	1	26	-	26	-	22	-	22	-	274.5	1	26	-	26	-	22	-	22	-	274.5				
Fish	Perciformes	Serranidae	<i>Epinephelus awoara</i>	1	14.5	-	14.5	-	12.5	-	12.5	-	12.5	-	12.5	-	-	-	20.8	1	14.5	-	14.5	-	12.5	-	12.5	-	20.8	1	14.5	-	14.5	-	12.5	-	12.5	-	20.8	1	14.5	-	14.5	-	12.5	-	12.5	-	20.8				
Fish	Perciformes	Sillaginidae	<i>Sillago sihama</i>	1	14.5	-	14.5	-	12.5	-	12.5	-	12.5	-	12.5	-	-	-	20.8	1	14.5	-	14.5	-	12.5	-	12.5	-	20.8	1	14.5	-	14.5	-	12.5	-	12.5	-	20.8	1	14.5	-	14.5	-	12.5	-	12.5	-	20.8				
Fish	Perciformes	Sparidae	<i>Pagrus major</i>	1	14.5	-	14.5	-	12.5	-	12.5	-	12.5	-	12.5	-	-	-	20.8	1	14.5	-	14.5	-	12.5	-	12.5	-	20.8	1	14.5	-	14.5	-	12.5	-	12.5	-	20.8	1	14.5	-	14.5	-	12.5	-	12.5	-	20.8				
Fish	Pleuronectiformes	Cynoglossidae	<i>Cynoglossus macrolepidotus</i>	1	17	-	17	-	-	-	-	-	-	-	-	-	-	-	24	1	17	-	17	-	-	-	-	24	1	17	-	17	-	-	-	-	24	1	17	-	17	-	-	-	24								
Fish	Pleuronectiformes	Paralichthyidae	<i>Pseudorhombus levisquamis</i>	1	11.5	-	11.5	-	10	-	10	-	10	-	10	-	-	-	13.6	1	11.5	-	11.5	-	10	-	10	-	13.6	1	11.5	-	11.5	-	10	-	10	-	13.6	1	11.5	-	11.5	-	10	-	10	-	13.6				
Fish	Rajiformes	Dasyatidae	<i>Dasyatis zugei</i>	1	27.5	-	27.5	-	13	-	13	-	13	-	13	-	-	-	50.2	1	27.5	-	27.5	-	13	-	13	-	50.2	1	27.5	-	27.5	-	13	-	13	-	50.2	1	27.5	-	27.5	-	13	-	13	-	50.2				
Fish	Scorpaeniformes	Platycephalidae	<i>Inegalia japonica</i>	1	9	-	9	-	8	-	8	-	8	-	8	-	-	-	4.4	1	9	-	9	-	8	-	8	-	4.4	1	9	-	9	-	8	-	8	-	4.4	1	9	-	9	-	8	-	8	-	4.4				
Fish	Scorpaeniformes	Platycephalidae	<i>Platycephalus indicus</i>	2	12	-	24.5	-	10	-	22	-	22	-	22	-	-	-	97.8	2	12	-	24.5	-	10	-	22	-	97.8	2	12	-	24.5	-	10	-	22	-	97.8	2	12	-	24.5	-	10	-	22	-	97.8				
Fish	Scorpaeniformes	Scorpaenidae	<i>Scorpaena neglecta</i>	1	10	-	10	-	8	-	8	-	8	-	8	-	-	-	18.6	1	10	-	10	-																													

Fish Trawl Survey Dry Season Night time (9 Nov 2013)

Taxa	Order	Family	Scientific Name	F4A				F4B				F5A				F5B				F6A				F6B									
				Quantity	Total Length (cm)	Fork Length (cm)	Standard Length (cm)	Total Weight (g)	Quantity	Total Length (cm)	Fork Length (cm)	Standard Length (cm)	Total Weight (g)	Quantity	Total Length (cm)	Fork Length (cm)	Standard Length (cm)	Total Weight (g)	Quantity	Total Length (cm)	Fork Length (cm)	Standard Length (cm)	Total Weight (g)	Quantity	Total Length (cm)	Fork Length (cm)	Standard Length (cm)	Total Weight (g)					
Crab	Decapoda	Dorippidae	<i>Paradorippe palita</i>	1	-	-	1.9 - 1.9	2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Crab	Decapoda	Parthenopidae	<i>Parthenope sp.</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Crab	Decapoda	Portunidae	<i>Charybdis feriata</i>	1	-	-	10.2 - 10.2	203.9	-	-	4 - 4	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
Crab	Decapoda	Portunidae	<i>Charybdis lucifera</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
Crab	Decapoda	Portunidae	<i>Charybdis sp.</i>	8	-	-	3.5 - 4.5	115.5	2	-	4 - 4.6	34.2	26	-	-	3 - 4.9	358.9	16	-	-	2.8 - 4.7	219.2	3	-	-	4.2 - 6.5	95.6						
Crab	Decapoda	Portunidae	<i>Portunus triuberculatus</i>	1	-	-	14.2 - 14.2	377.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
Fish	Aulopiformes	Synodontidae	<i>Saurida tumbil</i>	1	27.5 - 27.5	25.5 - 25.5	24 - 24	144.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
Fish	Clupeiformes	Clupeidae	<i>Sardinella albella</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
Fish	Clupeiformes	Engraulidae	<i>Stolephorus indicus</i>	-	-	-	-	-	1	10 - 10	9 - 9	8.5 - 8.5	5.7	-	-	-	-	-	-	-	-	-	-	-	-	-							
Fish	Clupeiformes	Engraulidae	<i>Thryssa kammalensis</i>	-	-	-	-	-	4	9.5 - 12.5	8.5 - 11	8 - 10.5	28.4	1	9.5 - 9.5	8.5 - 8.5	8 - 8	5.7	1	13.5 - 13.5	12 - 12	11.5 - 11.5	12.4	1	9.5 - 9.5	8.5 - 8.5	8 - 8	5.1					
Fish	Perciformes	Apogonidae	<i>Ostorhinchus fasciatus</i>	-	-	-	-	-	2	6.5 - 7.5	-	5 - 6.5	12.7	-	-	-	-	-	-	-	-	-	-	-	-	-							
Fish	Perciformes	Centrolophidae	<i>Psenopsis anomala</i>	-	-	-	-	-	1	33 - 33	-	16.5 - 16.5	94.2	-	-	-	-	-	-	-	-	-	-	-	-	-							
Fish	Perciformes	Drepaneidae	<i>Drepane punctata</i>	-	-	-	-	-	1	11.5 - 11.5	-	9 - 9	41.1	-	-	-	-	-	-	-	-	-	-	-	-	-							
Fish	Perciformes	Gobiidae	<i>Trypauchen vagina</i>	-	-	-	-	-	1	8.5 - 8.5	-	-	3.7	-	-	-	-	-	-	-	-	-	-	-	-	-							
Fish	Perciformes	Leiognathidae	<i>Leiognathus brevirostris</i>	-	-	-	-	-	1	9 - 9	8.5 - 8.5	8 - 8	10.7	3	5.5 - 9	5 - 8	4.5 - 7.5	16.6	3	6 - 9.5	5.5 - 8.5	5 - 8	23.6	3	6.5 - 8.5	6 - 8	5.5 - 7	16.1					
Fish	Perciformes	Polyemidae	<i>Polydactylus sextarius</i>	1	9.5 - 9.5	8 - 8	7 - 7	7.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
Fish	Perciformes	Sciaenidae	<i>Collichthys lucidus</i>	-	-	-	-	-	1	14 - 14	-	11 - 11	22.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Fish	Perciformes	Sciaenidae	<i>Johnius belangerii</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Fish	Perciformes	Stromateidae	<i>Pampus argenteus</i>	2	21 - 22	17 - 18	15.5 - 16	276.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
Fish	Rajiformes	Dasytidae	<i>Dasyatis zugei</i>	-	-	-	-	-	1	38 - 38	-	18 - 18	113.2	-	-	-	-	-	-	-	-	-	-	-	-	-							
Fish	Scorpaeniformes	Platycephalidae	<i>Inegocia japonica</i>	1	14 - 14	-	12.5 - 12.5	11.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
Fish	Scorpaeniformes	Sebastidae	<i>Sebastiscus marmoratus</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
Fish	Scorpaeniformes	Synanceiidae	<i>Trachicephalus uranoscopus</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
Fish	Scorpaeniformes	Tetrarogidae	<i>Vespicola trachinoides</i>	2	7 - 7	-	6 - 6	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
Fish	Siluriformes	Ariidae	<i>Arius maculatus</i>	2	20.5 - 25.5	18.5 - 23	17.5 - 21.5	260.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
Mantis shrimp	Stomatopoda	Squillidae	<i>Dictyosquilla foveolata</i>	1	8 - 8	-	-	4.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
Mantis shrimp	Stomatopoda	Squillidae	<i>Harpisquilla harpax</i>	2	10 - 11	-	-	24.4	1	15 - 15	-	30.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
Mantis shrimp	Stomatopoda	Squillidae	<i>Miyakella nepa</i>	-	-	-	-	-	1	12 - 12	-	17.7	1	5 - 5	-	-	-	2.4	-	-	-	-	-	-	-	-							
Mantis shrimp	Stomatopoda	Squillidae	<i>Oratosquilla oratoria</i>	-	-	-	-	-	5	8 - 10	-	48.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
Mantis shrimp	Stomatopoda	Squillidae	<i>Oratosquilla interrupta</i>	-	-	-	-	-	3	9 - 11	-	33.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
Others	Caenogastropoda	Turritellidae	<i>Turritella terebra</i>	-	-	-	-	-	-	-	-	-	-	49	4 - 7.5	-	-	312.3	50	4 - 9.5	-	-	369.4	13	4.5 - 9.5	-	-	133.2	89	4 - 10	-	-	746
Others	Camarodonta	Temnopleuridae	<i>Temnopleurus toreumaticus</i>	55	2.2 - 3.7	-	-	567.4	30	2.5 - 3.8	-	324.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Others	Golfingiida	Sipunculidae	<i>Siphonosoma sp.</i>	1	6 - 6	-	-	62.9	1	5 - 5	-	21.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Others	Neogastropoda	Muricidae	<i>Murex trapa</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Others	Pennatulacea	Pennatulidae	<i>Pteroeides sparmanni</i>	-	-	-	-	-	-	-	-	-	-	3	4.5 - 7	-	-	25.1	2	5 - 7	-	-	-	-	-	-	-	-	-	-	-	-	-
Shrimp	Decapoda	Penaeidae	<i>Alcockpenaeopsis hungerfordii</i>	7	-	-	1.9 - 2.9	28.7	5	-	2.6 - 3.1	33.1	2	-	-	2.1 - 3.1	9.7	9	-	-	1.7 - 2.3	29.5	5	-	-	1.9 - 2.3	17.6	4	-	-	1.9 - 3.1	19.5	
Shrimp	Decapoda	Penaeidae	<i>Metapenaeus affinis</i>	-	-	-	-	-	1	-	3 - 3	13.7	2	-	-	2.9 - 3.4	32.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Shrimp	Decapoda	Penaeidae	<i>Metapenaeus affinis</i>	1	-	-	2.1 - 2.1	4.2	1	-	2.8 - 2.8	6.6	1	-	-	2.2 - 2.2	5.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Shrimp	Decapoda	Penaeidae	<i>Trachysalambria curvirostris</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Shrimp	Decapoda	Solenoceridae	<i>Solenocera crassicornis</i>	3	-	-	1.5 - 1.8	6.2	4	-	1.4 - 1.9	9.2	19	-	-	1.2 - 2.4	38.9	8	-	-	1.6 - 2.2	21.1	1	-	-	1.5 - 1.5	3.9	-	-	-	-	-	

Taxa	Order	Family	Scientific Name	P1A				P1B				P2A				P2B				P3A							
				Quantity	Total Length (cm)		fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		fork Length (cm)		Standard Length (cm)		Total Weight (g)
					Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.	
Crab	Decapoda	Parthenopidae	<i>Parthenope sp.</i>		-	-	-	-	1	2.4	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Crab	Decapoda	Portunidae	<i>Charybdis feriata</i>		-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Crab	Decapoda	Portunidae	<i>Charybdis sp.</i>		-	-	-	-	1	4.4	4.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Crab	Decapoda	Portunidae	<i>Portunus sanguinolentus</i>		-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Fish	Clupeiformes	Clupeidae	<i>Konosirus punctatus</i>		-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Fish	Clupeiformes	Clupeidae	<i>Sardinella albella</i>		-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Fish	Clupeiformes	Engraulidae	<i>Thryssa kammalensis</i>	1	11	11	9.5	9.5	9	9	13.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Fish	Perciformes	Carangidae	<i>Alepes djedaba</i>		-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Fish	Perciformes	Gerreidae	<i>Gerres limbatus</i>	1	14	14	12.5	12.5	11.5	11.5	50.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Fish	Perciformes	Gobiidae	<i>Acentrogobius caninus</i>		-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Fish	Perciformes	Leiognathidae	<i>Leiognathus brevisrostris</i>	1	10.5	10.5	9.5	9.5	8.5	8.5	19	1	10.5	10.5	9.5	9.5	8.5	8.5	20	2	10.5	11	9.5	10	8.5	9	45.1
Fish	Perciformes	Sciaenidae	<i>Dendrophysa russelii</i>	2	13	16.5	-	-	11	14	96.5	2	16	17	-	-	13.5	14	118.6	11	10.5	15.5	-	-	8.5	13	295.4
Fish	Perciformes	Sciaenidae	<i>Johnius macrorhynchus</i>		-	-	-	-		-	-	3	17	18	-	-	14	15	184.2		-	-	-	-	-	-	-
Fish	Scorpaeniformes	Triglidae	<i>Lepidotrigla punctipectoralis</i>		-	-	-	-		-	-		-	-	-	-	-	-		1	6	6	-	-	4.5	4.5	4.2
Fish	Tetraodontiformes	Tetraodontidae	<i>Takifugu oblongus</i>		-	-	-	-		-	-		-	-	-	-	-	-			-	-	-	-	-	-	-
Mantis shrimp	Stomatopoda	Squillidae	<i>Harpisquilla harpax</i>		-	-	-	-		-	-		-	-	-	-	-	-		1	12.5	12.5	-	-	-	-	16.5
Mantis shrimp	Stomatopoda	Squillidae	<i>Oratosquilla oratoria</i>		-	-	-	-		-	-	1	14	14	-	-	-	-	36.8	3	12	12.5	-	-	-	-	68.1
Mantis shrimp	Stomatopoda	Squillidae	<i>Oratosquilla interrupta</i>		-	-	-	-		-	-	1	13	13	-	-	-	-	26	3	10.5	11.5	-	-	-	-	51.8
Shrimp	Decapoda	Penaedidae	<i>Fenneropenaeus merguensis</i>	1	4	4	-	-	-	-	39.8		-	-	-	-	-	-		1	3.1	3.1	-	-	-	-	24.8
Shrimp	Decapoda	Penaedidae	<i>Metapenaeus jayneri</i>	8	2.3	3.2	-	-	-	-	90.6		-	-	-	-	-	-			-	-	-	-	-	-	-

Gill net survey Dry Season Day time (29 Mar 2013)

Taxa	Order	Family	Scientific Name	P1A				P1B				P2A				P2B				P3A							
				Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)
					Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.	
Crab	Decapoda	Dorippidae	<i>Paradorippe polita</i>		-	-	-	-		-	-	-	-	1	2.3 - 2.3	-	-	-	8	-	-	-	-	-	-	-	
Crab	Decapoda	Portunidae	<i>Charybdis lucifera</i>		-	-	-	-		-	-	-	-	1	5 - 5	-	-	-	29	-	-	-	-	-	-	-	
Crab	Decapoda	Portunidae	<i>Charybdis sp.</i>		-	-	-	-		-	-	-	-	1	5.3 - 5.3	-	-	-	31	-	-	-	-	-	-	99.5	
Fish	Clupeiformes	Engraulidae	<i>Thryssa kammalensis</i>		-	-	-	-		-	-	-	-	1	11.5 - 11.5	10.5 - 10.5	9.5 - 9.5	9	-	-	-	-	-	-	-	-	
Fish	Perciformes	Gerreidae	<i>Gerres japonicus</i>		-	-	-	-	1	18 - 18	16 - 16	14 - 14	98.1	-	-	-	-	-	-	-	-	-	-	-	-		
Fish	Perciformes	Gerreidae	<i>Gerres limbatus</i>		-	-	-	-	2	11.5 - 14	11 - 13.5	9.5 - 12	68.8	2	11.5 - 13.5	10.5 - 12.5	9.5 - 11	76.2	-	-	-	-	1	11.5 - 11.5	10 - 10	9.5 - 9.5	32.2
Fish	Perciformes	Labridae	<i>Halichoeres nigrescens</i>		-	-	-	-		-	-	-	-	-	-	-	-	2	16.5 - 16.5	-	14 - 14	129.4	-	-	-	-	
Fish	Perciformes	Leiognathidae	<i>Leiognathus brevisrostris</i>	2	12 - 12.5	10.5 - 11.5	10 - 11	47.6		-	-	-	-	9	8 - 11.5	7 - 10.5	6 - 9.5	175.4	-	-	-	-	-	-	-	-	
Fish	Perciformes	Leiognathidae	<i>Secutor ruconius</i>		-	-	-	-		-	-	-	-	1	8 - 8	7 - 7	6.5 - 6.5	13.1	-	-	-	-	-	-	-	-	
Fish	Perciformes	Mullidae	<i>Parupeneus chrysopleuron</i>		-	-	-	-	1	15 - 15	13.5 - 13.5	12 - 12	36.1	-	-	-	-	-	-	-	-	-	-	-	-		
Fish	Perciformes	Sciaenidae	<i>Dendrophysa russelii</i>		-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	1	13 - 13	-	11 - 11	24.4
Fish	Perciformes	Sciaenidae	<i>Johnius belangerii</i>		-	-	-	-		-	-	-	-	-	-	-	-	1	18.5 - 18.5	-	15.5 - 15.5	78	-	-	-	-	
Fish	Perciformes	Sciaenidae	<i>Pennahia anea</i>		-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	1	18 - 18	-	15 - 15	106.1	
Fish	Perciformes	Siganidae	<i>Siganus canaliculatus</i>	1	13.5 - 13.5	13 - 13	11 - 11	32.9		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fish	Perciformes	Terapontidae	<i>Terapon jarbua</i>		-	-	-	-		-	-	-	-	-	-	-	-	1	16 - 16	15 - 15	13 - 13	67.2	-	-	-	-	
Fish	Tetraodontiformes	Tetraodontidae	<i>Takifugu niphobles</i>		-	-	-	-		-	-	-	-	-	-	-	-	2	11.5 - 13	-	9 - 10.5	96	-	-	-	-	
Mantis shrimp	Stomatopoda	Squillaidae	<i>Oratosquilla oratoria</i>		-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	2	13 - 14	-	-	48.3	
Mantis shrimp	Stomatopoda	Squillaidae	<i>Oratosquilla interrupta</i>		-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	8	9.5 - 13	-	-	134.1	

Gill net survey Dry Season Day time (29 Mar 2013)

Taxa	Order	Family	Scientific Name	P3B					P4A					P4B					P5A					P5B											
				Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)
					Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.	
Crab	Decapoda	Portunidae	<i>Charybdis lucifera</i>		-	-	-	-		-	-	-	-	-		-	-	-	-	2	4.6 - 7.6	-	-	-	96.2		-	-	-	-					
Crab	Decapoda	Portunidae	<i>Charybdis sp.</i>	2	5 - 5.8	-	-	-	48	1	5 - 5	-	-	-	25.6	5	4.2 - 5.3	-	-	-	133		-	-	-		5	4.4 - 5.5	-	-	-	122			
Fish	Perciformes	Carangidae	<i>Alepes djedaba</i>		-	-	-	-		-	-	-	-	-		2	13.5 - 13.5	12.5 - 12.5	11.5 - 11.5	66.2		-	-	-		-	-	-	-						
Fish	Perciformes	Gerreidae	<i>Gerres limbatus</i>		-	-	-	-		-	-	-	-	-		-	-	-	-	2	10.5 - 12	9 - 11	8.5 - 10	58.3		-	-	-	-						
Fish	Perciformes	Leiognathidae	<i>Leiognathus brevisrostris</i>	1	9.5 - 9.5	8.5 - 8.5	8 - 8	13.1		-	-	-	-	-		1	11 - 11	9.5 - 9.5	8.5 - 8.5	21.2		-	-	-		-	-	-	-						
Fish	Perciformes	Sciaenidae	<i>Dendrophysa russelii</i>		-	-	-	-		2	11.5 - 12	-	9 - 9.5	42.3	1	11 - 11	-	9 - 9	20.4		-	-	-		1	12.5 - 12.5	-	10 - 10	30.4						
Fish	Perciformes	Sciaenidae	<i>Pennahia anea</i>	1	16 - 16	-	14 - 14	62.4		-	-	-	-	-		-	-	-	-		-	-	-		-	-	-	-							
Fish	Pleuronectiformes	Soleidae	<i>Solea ovata</i>		-	-	-	-		-	-	-	-	-		-	-	-	-		-	-	-		1	8.5 - 8.5	-	-	11.2						
Fish	Scorpaeniformes	Synanceiidae	<i>Trachicephalus uranoscopus</i>		-	-	-	-		-	-	-	-	-		1	11 - 11	-	9 - 9	23.5		-	-	-		-	-	-	-						
Mantis shrimp	Stomatopoda	Squillaidae	<i>Harpisquilla harpax</i>		-	-	-	-		-	-	-	-	-		1	18 - 18	-	-	51		-	-	-		-	-	-	-						
Mantis shrimp	Stomatopoda	Squillaidae	<i>Oratosquilla oratoria</i>		-	-	-	-		1	7.5 - 7.5	-	-	6.9	2	8 - 8.5	-	-	16.3		-	-	-		-	-	-	-							
Mantis shrimp	Stomatopoda	Squillaidae	<i>Oratosquilla interrupta</i>	1	10.5 - 10.5	-	-	14.2		3	9 - 12	-	-	44.4		-	-	-		3	10.5 - 12	-	-	54.5	2	12.5 - 13	-	-	52.8						
Shrimp	Decapoda	Penaeidae	<i>Fenneropenaeus merguensis</i>		-	-	-	-		2	3.8 - 4.5	-	-	104.3		-	-	-		-	-	-		-	-	-	-								

Gill net survey Wet Season Day time (30 May 2013)

Taxa	Order	Family	Scientific Name	P1A					P1B					P2A					P2B					P3A													
				Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)		
					Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.		Min.	Max.
Crab	Decapoda	Portunidae	<i>Charybdis lucifera</i>	10	4.8	7.3	-	-	-	313.5	2	6.2	7.3	-	-	-	95.5	1	5.4	5.4	-	-	-	28.9		-	-	-	-	-	-						
Crab	Decapoda	Portunidae	<i>Charybdis sp.</i>		-	-	-	-	-		1	4.7	4.7	-	-	-	21.3	4	4.4	5.1	-	-	-	84.3		-	-	-	-	-	-						
Fish	Clupeiformes	Engraulidae	<i>Stolephorus indicus</i>	4	10	10.5	9	9.5	8.5	9	29.3		-	-	-	-			-	-	-	-			-	-	-	-	-	-							
Fish	Perciformes	Leiognathidae	<i>Leiognathus brevirostris</i>	1	9.5	9.5	8.5	8.5	7.5	7.5	14.8		-	-	-	-			-	-	-	-			3	8.5	9.5	7.5	8.5	7	7.5	32.8					
Fish	Perciformes	Sciaenidae	<i>Johnius macrorhynchus</i>	2	20	21	-	-	16.5	18	205.5		-	-	-	-			-	-	-	-			-	-	-	-	-	-							
Fish	Perciformes	Siganidae	<i>Siganus canaliculatus</i>	1	18	18	17.5	17.5	15	15	72.2	1	18	18	17.5	17.5	15	15	72.2		-	-	-			-	-	-	-	-	-						
Fish	Perciformes	Terapontidae	<i>Rhynchopelates oxyrhynchus</i>	1	17	17	-	-	15	15	74.2		-	-	-	-			1	15.5	15.5	-	13	13	58.6		-	-	-	-	-						
Fish	Scorpaeniformes	Tetrarogidae	<i>Paracentropogon rubripinnis</i>		-	-	-	-	-	-		1	9	9	-	7.5	7.5	21.5		-	-	-	-			-	-	-	-	-							
Fish	Siluriformes	Ariidae	<i>Arius maculatus</i>		-	-	-	-	-	-			-	-	-	-				-	-	-	-		1	27	27	25	25	24	24	257					
Others	Camarodonta	Temnopleuridae	<i>Temnopleurus toreumaticus</i>		-	-	-	-	-	-			-	-	-	-			23	2.2	3.8	-	-	210	11	2.5	3.5	-	-	-	85	8	2.1	3	-	-	55

Gill net survey Wet Season Day time (29 Jun 2013)

Taxa	Order	Family	Scientific Name	P1A					P1B					P2A					P2B					P3A											
				Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)
					Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.	
Crab	Decapoda	Portunidae	<i>Charybdis lucifera</i>	2	4 - 6.4	-	-	-	-	57.8	2	6.2 - 9.8	-	-	-	-	200.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Crab	Decapoda	Portunidae	<i>Charybdis sp.</i>	3	4.5 - 4.8	-	-	-	-	63.2	-	-	-	-	-	-	-	10	4.1 - 5.3	-	-	-	-	-	-	-	-	-	-	-	-	-			
Fish	Clupeiformes	Engraulidae	<i>Stolephorus indicus</i>	2	10 - 10.5	9 - 9.5	8.5 - 9	14.5	-	-	-	-	-	-	-	-	2	9 - 10	8 - 9	7 - 8.5	17.5	-	-	-	-	-	-	-	-	-	-	-			
Fish	Clupeiformes	Engraulidae	<i>Thryssa hamiltonii</i>	1	18 - 18	16.5 - 16.5	15.5 - 15.5	36.3	-	-	-	-	-	-	-	-	-	1	14.5 - 14.5	12.5 - 12.5	12 - 12	17.3	-	-	-	-	-	-	-	-	-	-			
Fish	Perciformes	Leiognathidae	<i>Leiognathus brevisrostris</i>	1	14 - 14	13 - 13	12 - 12	28.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Fish	Perciformes	Sciaenidae	<i>Johnius belangerii</i>	1	20.5 - 20.5	-	17 - 17	101	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Fish	Perciformes	Sciaenidae	<i>Dendrophysa russelii</i>	1	18 - 18	-	14.5 - 14.5	66.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Fish	Scorpaeniformes	Platycephalidae	<i>Platycephalus indicus</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	1	25 - 25	-	22 - 22	73.5	-	-	-	-	-	-	-	-	-	-	-			
Mantis shrimp	Stomatopoda	Squillidae	<i>Harpisquilla harpax</i>	3	12 - 19	-	-	119.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Others	Camarodonta	Temnopleuridae	<i>Temnopleurus toreumaticus</i>	-	-	-	-	-	18	2.8 - 3.5	-	-	-	160	17	2.8 - 3.2	-	-	145	14	2.8 - 3.5	-	-	-	120	15	2.8 - 3.2	-	-	-	135				

Taxa	Order	Family	Scientific Name	P3B				P3B				P4A				P4B				P5A				P5B																						
				Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)											
					Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.		Min.	Max.	Min.	Max.							
Crab	Decapoda	Portunidae	<i>Charybdis sp.</i>	-	-	-	-	-	4	4.2	4.6	-	-	-	-	-	-	-	6	4.2	5.6	-	-	-	-	5	4.2	5.8	-	-	-	-	148.7													
Crab	Decapoda	Portunidae	<i>Portunus sanguinolentus</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	5.5	5.5	-	-	-	-	-	-	-	-	-	-	-	-													
Fish	Clupeiformes	Clupeidae	<i>Nematalosa nasus</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	17	17	15	15	13.5	13.5	60.2	1	16	16	14.5	14.5	13	13	54.8												
Fish	Perciformes	Mullidae	<i>Upeneus sulphureus</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	8	8	7	7	6.5	6.5	8.2													
Fish	Perciformes	Sciaenidae	<i>Johnius belangerii</i>	1	16.5	16.5	-	13.5	13.5	49.3	1	16.5	16.5	-	13.5	13.5	49.3	-	-	1	21.5	21.5	-	-	17.5	17.5	113.2	2	19	20.0	-	15.5	17	186.6												
Fish	Perciformes	Sciaenidae	<i>Johnius macrorhynchus</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	18	19	-	16	17	137.7														
Mantis shrimp	Stomatopoda	Squillaidae	<i>Harpisquilla harpax</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	18	19	-	-	-	-	100.8														
Others	Camarodonta	Temnopleuridae	<i>Temnopleurus toreumaticus</i>	8	2.6	3.3	-	-	-	65	8	2.6	3.3	-	-	-	65	16	2.8	3.5	-	-	-	-	24	2.8	3.5	-	-	-	-	215	12	2.5	3.5	-	-	-	105	13	2.5	3.5	-	-	-	95

Taxa	Order	Family	Scientific Name	P3B				P4A				P4B				P5A				P5B																			
				Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)												
					Min. -	Max.	Min. -	Max.	Min. -	Max.			Min. -	Max.	Min. -	Max.	Min. -	Max.			Min. -	Max.	Min. -	Max.	Min. -	Max.		Min. -	Max.										
Crab	Decapoda	Parthenopidae	<i>Parthenope sp.</i>		-	-	-	-		-	-	-	-		-	-	-	-	2	4 -	4	-	-	-	46.7		-	-	-	-									
Crab	Decapoda	Portunidae	<i>Charybdis sp.</i>		-	-	-	-	2	4.2 -	4.6	-	-	33.1		-	-	-	-	3	4.2 -	4.8	-	-	-	61.5	4	4.4 -	5.4	-	-	76.8							
Fish	Clupeiformes	Engraulidae	<i>Thryssa hamiltonii</i>	2	13.5 -	13.5	12 -	12	11 -	11	35.1		-	-	-	-		-	-	-	-	-	-	-		-	-	-	-	-									
Fish	Perciformes	Apogonidae	<i>Apogonichthoides pseudotaeniatus</i>		-	-	-	-	1	15 -	15	-	-	65.2		-	-	-	-		-	-	-	-		-	-	-	-	-									
Fish	Perciformes	Drepaneidae	<i>Drepane punctata</i>	1	30 -	30	-	-	26 -	26	912		-	-	-	-		-	-	-	-	-	-	-		-	-	-	-	-									
Fish	Perciformes	Leiognathidae	<i>Leiognathus brevisrostris</i>		-	-	-	-		-	-	-	-		4	7 -	9.5	6 -	8.5	5.5 -	7.5	34.8		-	-	-	-	1	12.5 -	12.5	11 -	11	10 -	10	26.5				
Fish	Perciformes	Mullidae	<i>Upeneus sulphureus</i>		-	-	-	-		-	-	-	-		-	-	-	-	-		-	-	-	-		1	9 -	9	8 -	8	6.5 -	6.5	8.9						
Fish	Perciformes	Sciaenidae	<i>Johnius macrorhynchus</i>		-	-	-	-		-	-	-	-		-	-	-	-	-	2	15.5 -	19	-	-	12.5 -	16	111	1	15.5 -	15.5	-	-	13 -	13	35.8				
Fish	Scorpaeniformes	Platycephalidae	<i>Platycephalus indicus</i>		-	-	-	-		-	-	-	-		-	-	-	-	-	1	17 -	17	-	-	15.5 -	15.5	25.3		-	-	-	-	-						
Fish	Siluriformes	Ariidae	<i>Arius maculatus</i>		-	-	-	-		-	-	-	-		-	-	-	-	-	1	16 -	16	14 -	14	13 -	13	32.5		-	-	-	-	-						
Others	Camarodonta	Temnopleuridae	<i>Temnopleurus toreumaticus</i>	15	2.8 -	3.8	-	-	-	140		16	2.8 -	3.3	-	-	140		13	2.6 -	4.2	-	-	135		20	2.1 -	4.8	-	-	-	-	271	10	2.8 -	4.2	-	-	103

Taxa	Order	Family	Scientific Name	P3B				P4A				P4B				P5A				P5B												
				Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)					
					Min. -	Max.	Min. -	Max.	Min. -	Max.			Min. -	Max.	Min. -	Max.	Min. -	Max.			Min. -	Max.	Min. -	Max.	Min. -	Max.		Min. -	Max.	Min. -	Max.	
Crab	Decapoda	Portunidae	<i>Charybdis lucifera</i>		-	-	-	-		-	-	-	-	1	5.8 -	5.8	-	-	-	47.2		-	-	-	-		-	-	-	-		
Crab	Decapoda	Portunidae	<i>Charybdis sp.</i>		-	-	-	-	23	3.4 -	5.5	-	-	473.9	3	4.3 -	4.7	-	-	73.4	7	3.7 -	4.6	-	-	113.6	2	4.3 -	4.6	-	-	33.9
Crab	Decapoda	Portunidae	<i>Portunus pelagicus</i>		-	-	-	-		-	-	-	-	1	11.5 -	11.5	-	-	195.6		-	-	-	-		-	-	-	-	-		
Fish	Aulopiformes	Synodontidae	<i>Saurida elongata</i>		-	-	-	-		-	-	-	-	1	19.5 -	19.5	18 -	18	17 -	17	57.1		-	-	-	-		-	-	-	-	
Fish	Carcharhiniformes	Carcharhinidae	<i>Rhizoprionodon acutus</i>		-	-	-	-	1	40 -	40	-	-	212.8		-	-	-	-			-	-	-	-		-	-	-	-		
Fish	Clupeiformes	Clupeidae	<i>Nematalosa nasus</i>	1	21.5 -	21.5	18.5 -	18.5	17.5 -	17.5	82.6		-	-	-	-	-	-	-			-	-	-	-		-	-	-	-		
Fish	Perciformes	Sciaenidae	<i>Dendrophysa russelii</i>		-	-	-	-	1	15 -	15	-	12.5 -	12.5	37.8		-	-	-			-	-	-	-	2	16 -	16.5	-	14 -	14.5	89.9
Fish	Perciformes	Sciaenidae	<i>Johnius belangerii</i>	1	17.5 -	17.5	-	-	15 -	15	52.4		-	-	-	-	-	-	-			-	-	-	-	3	16 -	17.5	-	14 -	15.5	153.7
Fish	Pleuronectiformes	Cynoglossidae	<i>Cynoglossus macrolepidatus</i>		-	-	-	-		-	-	-	-	1	20.5 -	20.5	-	-	36.4			-	-	-	-		-	-	-	-		
Fish	Siluriformes	Ariidae	<i>Arius maculatus</i>		-	-	-	-		-	-	-	-	1	24 -	24	21 -	21	20 -	20	133.4		-	-	-	-		-	-	-	-	
Others	Camarodonta	Temnopleuridae	<i>Temnopleurus toreumaticus</i>		-	-	-	-	1	2.5 -	2.5	-	-	5.2	2	3.2 -	3.4	-	-	17.1	8	2.3 -	4.2	-	-	158.3	15	3.1 -	4.4	-	-	296.5

Gill net survey Dry Season Day time (9 Nov 2013)

Taxa	Order	Family	Scientific Name	P3B					P4A					P4B					P5A					P5B											
				Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)
					Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.	
Fish	Aulopiformes	Synodontidae	<i>Saurida tumbil</i>		-	-	-	-		-	-	-	-	-		1	30 - 30	28 - 28	26 - 26	187		-	-	-	-		-	-	-	-		-	-	-	-
Fish	Clupeiformes	Clupeidae	<i>Konosirus punctatus</i>		-	-	-	-		1	21 - 21	19 - 19	18 - 18	107		1	21.5 - 21.5	19.5 - 19.5	18 - 18	102.4		-	-	-	-		-	-	-	-		-	-	-	-
Fish	Clupeiformes	Engraulidae	<i>Thryssa hamiltonii</i>		-	-	-	-		1	22 - 22	20 - 20	19 - 19	77.3		-	-	-	-		-	-	-	-		-	-	-	-		-	-	-	-	
Fish	Perciformes	Leiognathidae	<i>Leiognathus brevisrostris</i>		-	-	-	-		-	-	-	-		-	-	-	-		2	10.5 - 11.5	9.5 - 10	9 - 9.5	34.3		5	9 - 11.5	8 - 10.5	7.5 - 9.5	74.1		-	-	-	-
Fish	Perciformes	Sciaenidae	<i>Johnius macrorhynchus</i>	2	16.5 - 19	-	13.5 - 16	134.3		-	-	-	-		-	-	-	-		-	-	-	-		-	-	-	-		-	-	-	-		
Fish	Tetraodontiformes	Tetraodontidae	<i>Takifugu oblongus</i>		-	-	-	-		3	16 - 17	-	13 - 14	307.6		-	-	-	-		1	13.5 - 13.5	-	12 - 12	49.8		-	-	-	-		-	-	-	-
Fish	Tetraodontiformes	Tetraodontidae	<i>Takifugu xanthopterus</i>	1	21 - 21	-	17 - 17	175.5		-	-	-	-		-	-	-	-		-	-	-	-		-	-	-	-		-	-	-	-		
Others	Camarodonta	Temnopleuridae	<i>Temnopleurus toreumaticus</i>		-	-	-	-		-	-	-	-		-	-	-	-		9	3.1 - 4.5	-	-	198		13	3.3 - 4.4	-	-		-	-	-	258	

Taxa	Order	Family	Scientific Name	P1A					P1B					P2A					P2B					P3A											
				Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)
					Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.	
Crab	Decapoda	Portunidae	<i>Charybdis sp.</i>		-	-	-	-	1	-	-	4	4	12.7		-	-	-		-	-	-		-	-	-		-	-	-					
Fish	Clupeiformes	Clupeidae	<i>Konosirus punctatus</i>	1	23	23	21	21	19	19	108.8	1	24	24	21.5	21.5	20	20	121.7	1	21.5	21.5	19.5	19.5	18	18	90.7		-	-	-				
Fish	Perciformes	Gerreidae	<i>Gerres limbatus</i>		-	-	-	-	2	11.5	13	10	12.5	9	11	65.6		-	-	-		-	-	-		-	-	-							
Fish	Perciformes	Leiognathidae	<i>Leiognathus brevisrostris</i>		-	-	-	-		-	-	-	-		1	12	12	11	11	10	10	25.7		-	-	-		1	10	10	9	9	8	8	12
Fish	Perciformes	Nemipteridae	<i>Nemipterus japonicus</i>		-	-	-	-		-	-	-	-			-	-	-		1	15	15	13.5	13.5	12	12	42		-	-	-				
Fish	Perciformes	Sciaenidae	<i>Collichthys lucidus</i>		-	-	-	-		-	-	-	-		2	13.5	16	-	-	10.5	13.5	63.3		-	-	-		-	-	-					
Fish	Perciformes	Sciaenidae	<i>Johnius belangerii</i>		-	-	-	-		-	-	-	-			-	-	-		4	16	18	-	-	13.5	15.5	309.2		-	-	-				
Fish	Perciformes	Siganidae	<i>Siganus canaliculatus</i>		-	-	-	-	5	15.5	18	14.5	17	12	13.5	273.7		-	-	-		-	-	-		-	-	-							
Fish	Perciformes	Terapontidae	<i>Terapon jarbua</i>		-	-	-	-		-	-	-	-			-	-	-		2	13.5	14	13	13	11	11.5	67.4		-	-	-				
Fish	Siluriformes	Plotosidae	<i>Plotosus lineatus</i>	2	11.5	24	-	-	-	114.1		-	-	-	-		-	-	-		-	-	-		-	-	-								
Others	Camarodonta	Temnopleuridae	<i>Temnopleurus toreumaticus</i>	3	3.8	4	-	-	-	46.5	1	3.5	3.5	-	-	14.4		-	-	-		-	-	-		2	2.6	4.4	-	-	26.1				
Shrimp	Decapoda	Penaeidae	<i>Fenneropenaeus merguensis</i>		-	-	-	-		-	-	-	-		2	-	-	3.9	4	70.9		-	-	-		-	-	-							

Gill net survey Dry Season Day time (23 Nov 2013)

Taxa	Order	Family	Scientific Name	P3B					P4A					P4B					P5A					P5B											
				Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)
					Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.	
Crab	Decapoda	Portunidae	<i>Charybdis sp.</i>		-	-	-	-		-	-	-	-	-		-	-	-	-		-	-	-	-		-	-	-	-		-	-	-	-	
Fish	Clupeiformes	Clupeidae	<i>Konosirus punctatus</i>	1	22.5	22.5	20.5	20.5	19	19	114.5		1	24	24	21.5	21.5	20	20	124.7		-	-	-	-		-	-	-	-		-	-	-	-
Fish	Perciformes	Leiognathidae	<i>Leiognathus brevisrostris</i>		-	-	-	-		-	-		-	-	-	-	-		2	7.5	12.5	6.5	10.5	6	9.5	31.3		3	5.5	10	5	9	4.5	8	29.3
Fish	Perciformes	Sciaenidae	<i>Dendrophysa russelii</i>		-	-	-	-		1	11.5	11.5	-	9	9	19.4		2	14	17.5	-	11	14.5	92		-	-	-	-		-	-	-	-	
Fish	Perciformes	Sciaenidae	<i>Johnius belangerii</i>		-	-	-	-		1	19	19	-	15	15	72.8		-	-	-	-		1	15	15	-	12.5	12.5	38.6		-	-	-	-	
Mantis shrimp	Stomatopoda	Squillaidae	<i>Harpisquilla harpax</i>		-	-	-	-		-	-	-	-	-		1	13	13	-	-	31.7		-	-	-	-		-	-	-	-	-	-	-	
Others	Camarodonta	Temnopleuridae	<i>Temnopleurus toreumaticus</i>	1	3.3	3.3	-	-	12.4		-	-	-	-		-	-	-	-		-	-	-	-		-	-	-	-		-	-	-		

Purse seine survey Dry Seasons Day time (29 Mar 2013)

Taxa	Order	Family	Scientific Name	P3B				P4A				P4B				P5A				P5B									
				Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)		
					Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.		Min.	Max.
Fish	Beloniformes	Hemiramphidae	<i>Hyporhamphus dussumieri</i>		-	-	-	-		-	-	-	-	1	17.5 - 17.5	17 - 17	15.5 - 15.5		14		-	-	-	-		-	-	-	-
Fish	Clupeiformes	Clupeidae	<i>Konosirus punctatus</i>		-	-	-	-	6	17.5 - 21	15 - 18	14 - 17.5	407.1	16	17 - 21	15 - 18.5	14 - 17	949.3		-	-	-	-		-	-	-	-	
Fish	Clupeiformes	Clupeidae	<i>Nematalosa nasus</i>		-	-	-	-		-	-	-	-		-	-	-	11	17 - 21.5	14.5 - 19	13.5 - 18	963.4		-	-	-	-		
Fish	Clupeiformes	Clupeidae	<i>Sardinella albella</i>	23	11 - 15	10 - 13.5	9.5 - 12.5	477.7	86	11.5 - 14	10.5 - 12.5	10 - 12	2026	13	12 - 13.5	11 - 12.5	10 - 11.5	302.5	26	11.5 - 15.5	10.5 - 14	9.5 - 13	618.6	4	13 - 13.5	11.5 - 12	10.5 - 11	95.5	
Fish	Clupeiformes	Engraulidae	<i>Stolephorus indicus</i>	3	8 - 8.5	7.5 - 8	7 - 7.5	17.8		-	-	-	-	7	6.5 - 9	5.5 - 8	5 - 7.5	48.3		-	-	-	-		-	-	-	-	
Fish	Clupeiformes	Engraulidae	<i>Thryssa hamiltonii</i>		-	-	-	-	2	12.5 - 13.5	11 - 12	10.5 - 11	31.9		-	-	-	-	8	14.5 - 16	13 - 14.5	12 - 13.5	217.6		-	-	-	-	
Fish	Clupeiformes	Engraulidae	<i>Thryssa kammalensis</i>	1	11.5 - 11.5	10.5 - 10.5	10 - 10	11.4	2	10.5 - 11.5	9.5 - 10	9 - 9.5	21.1	5	10.5 - 13	9 - 11	8.5 - 10	67.4	5	11.5 - 13.5	10.5 - 12	9.5 - 11	74.6	3	10 - 12	9 - 11	8.5 - 10.5	36.1	
Fish	Clupeiformes	Pristigasteridae	<i>Ilisha elongata</i>		-	-	-	-		-	-	-	-	1	32 - 32	27 - 27	25 - 25	170	2	18.5 - 21	16.5 - 18.5	15.5 - 17.5	101.5		-	-	-	-	
Fish	Mugiliformes	Mugilidae	<i>Valamugil cunnesius</i>		-	-	-	-		-	-	-	-	1	19 - 19	18 - 18	16 - 16	59.8	2	7.5 - 8	7 - 7.5	6 - 6	15.9	1	15 - 15	14.5 - 14.5	12.5 - 12.5	29.5	
Fish	Perciformes	Ambassidae	<i>Ambassis gymnocephalus</i>	3	6.5 - 7	5.5 - 6	5 - 5.5	14.8	3	5 - 7	4.5 - 6	4 - 5.5	17	9	6.5 - 8	5.5 - 7.5	5 - 6.5	55.2	1	6 - 6	5.5 - 5.5	5 - 5	4.4		-	-	-	-	
Fish	Perciformes	Carangidae	<i>Alepes djedaba</i>	3	13 - 13.5	12 - 12	11 - 11	75.2	9	12.5 - 14	11.5 - 13	10.5 - 12	265.8		-	-	-	-		-	-	-	-		-	-	-	-	
Fish	Perciformes	Centrolophidae	<i>Psenopsis anomala</i>		-	-	-	-	1	10.5 - 10.5	-	-	33.3		-	-	-	-	1	11.5 - 11.5	11 - 11	9 - 9	27.7	1	10 - 10	9.5 - 9.5	8 - 8	20.5	
Fish	Perciformes	Gobiidae	<i>Chaeturichthys stigmatias</i>		-	-	-	-		-	-	-	-		-	-	-	-	1	12.5 - 12.5	-	10 - 10	10		-	-	-	-	
Fish	Perciformes	Leiognathidae	<i>Leiognathus brevisrostris</i>		-	-	-	-	8	6.5 - 9	5.5 - 8.5	5 - 7.5	72.7	7	7 - 11	6 - 10	5 - 9	77	20	6 - 10.5	5.5 - 9.5	5 - 8.5	221.4	8	7 - 10	6.5 - 9	6 - 8	103.2	
Fish	Perciformes	Leiognathidae	<i>Secutor ruconius</i>		-	-	-	-		-	-	-	21.1	1	8 - 8	7 - 7	6.5 - 6.5	9.6		-	-	-	-		-	-	-	-	
Fish	Perciformes	Polynemidae	<i>Eleutheronema tetradactylum</i>		-	-	-	-		-	-	-	-		-	-	-	-	1	25 - 25	21.5 - 21.5	20 - 20	132		-	-	-	-	
Fish	Perciformes	Sciaenidae	<i>Collichthys lucidus</i>		-	-	-	-		-	-	-	-		-	-	-	-	8	6 - 16	-	5 - 13	251.2		-	-	-	-	
Fish	Perciformes	Stromateidae	<i>Pampus argenteus</i>		-	-	-	-		-	-	-	-		-	-	-	-		-	-	-	-	1	12 - 12	11 - 11	9.5 - 9.5	29.2	
Fish	Perciformes	Trichiuridae	<i>Trichiurus nanhaiensis</i>		-	-	-	-	2	55 - 58	-	-	224	1	60 - 60	-	-	138		-	-	-	-		-	-	-	-	
Others	Myopsida	Loliginidae	<i>Loligo</i>		-	-	-	-	1	4 - 4	-	-	6.8	4	4.5 - 5.5	-	-	48.2	1	4 - 4	-	-	6.3		-	-	-	-	
Shrimp	Decapoda	Penaeidae	<i>Metapenaeus joyneri</i>		-	-	-	-		-	-	-	-		-	-	-	-	3	2.3 - 2.9	-	-	26.9		-	-	-	-	

Purse seine survey Wet Season Day time (25 May 2013)

Taxa	Order	Family	Scientific Name	P1A				P1B				P2A				P2B				P3A								
				Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	
					Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.		
Crab	Decapoda	Portunidae	<i>Charybdis sp.</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Fish	Beloniformes	Hemiramphidae	<i>Hyporhamphus dussumieri</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Fish	Clupeiformes	Clupeidae	<i>Konosirus punctatus</i>	19	16.0 - 25.0	14.0 - 22.0	13.0 - 20.5	1184.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Fish	Clupeiformes	Clupeidae	<i>Nematalosa nasus</i>	4	16.0 - 22.0	14.0 - 19.0	13.0 - 18.0	334.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Fish	Clupeiformes	Clupeidae	<i>Sardinella albella</i>	16	12.0 - 14.0	10.5 - 12.5	10.0 - 11.5	339.8	23	11.0 - 19.0	10.0 - 18.0	9.5 - 17.0	503.7	13	11.5 - 14.0	10.0 - 12.5	9.5 - 12.0	261.1	42	11.0 - 20.0	10.0 - 18.0	9.5 - 17.0	922.9	1	12.5 - 12.5	11.0 - 11.0	10.0 - 10.0	19.2
Fish	Clupeiformes	Engraulidae	<i>Coilia nasus</i>	-	-	-	-	-	1	19.0 - 19.0	17.0 - 17.0	16.5 - 16.5	20.8	-	-	-	-	-	-	-	-	-	-	-				
Fish	Clupeiformes	Engraulidae	<i>Stolephorus indicus</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Fish	Clupeiformes	Engraulidae	<i>Thryssa hamiltonii</i>	-	-	-	-	-	-	-	-	-	-	4	12.5 - 13.0	11.0 - 12.0	10.5 - 11.0	48.0	25	11.5 - 17.0	10.0 - 16.0	9.5 - 15.0	321.6	-	-	-	-	
Fish	Clupeiformes	Pristigasteridae	<i>Ilisha elongata</i>	2	22.5 - 23.5	19.5 - 20.5	18.0 - 19.0	136.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Fish	Perciformes	Ambassidae	<i>Ambassis gymnocephalus</i>	-	-	-	-	-	-	-	-	-	-	5	5.5 - 9.0	5.0 - 8.0	4.5 - 7.5	16.4	-	-	-	-	-	-	-			
Fish	Perciformes	Polynemidae	<i>Eleutheronema tetradactylum</i>	1	32.0 - 32.0	25.5 - 25.5	24.0 - 24.0	253.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Fish	Perciformes	Sparidae	<i>Evynnis cardinalis</i>	-	-	-	-	-	1	6.0 - 6.0	5.5 - 5.5	4.5 - 4.5	4.7	-	-	-	-	-	-	-	-	-	-	-				
Fish	Perciformes	Stromateidae	<i>Pampus argenteus</i>	-	-	-	-	-	1	12.5 - 12.5	11.0 - 11.0	10.0 - 10.0	27.3	-	-	-	-	-	-	-	-	-	-	-				
Fish	Perciformes	Trichiuridae	<i>Trichiurus nanhaiensis</i>	-	-	-	-	-	-	-	-	-	-	1	50.0 - 50.0	-	-	58.0	3	44.0 - 58.0	-	-	169.7	-	-	-	-	
Others	Myopsida	Loliginidae	<i>Loligo</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	5.0 - 5.0	-	-	9.6	-	-	-	-	

Taxa	Order	Family	Scientific Name	P1A				P1B				P2A				P2B				P3A									
				Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)		
					Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.		Min.	Max.
Fish	Clupeiformes	Clupeidae	<i>Konosirus punctatus</i>		-	-	-	-		-	-	-	-		-	-	-	-		-	-	-	-		19	16 - 21.5	14.5 - 19	13.5 - 18	1070
Fish	Clupeiformes	Clupeidae	<i>Nematalosa nasus</i>		-	-	-	-		-	-	-	-		-	-	-	-		-	-	-	-		-	-	-	-	-
Fish	Clupeiformes	Clupeidae	<i>Sardinella albella</i>		-	-	-	-	3	9.5 - 12	8.5 - 10.5	7.5 - 10	37.9	3	10 - 10.5	8.5 - 9	8 - 8.5	35.2	24	10 - 15	8.5 - 13	8 - 12.5	499.1	8	9 - 11	8 - 10	7 - 9	90.6	
Fish	Clupeiformes	Engraulidae	<i>Coilia nasus</i>		-	-	-	-		-	-	-	-		-	-	-	-		-	-	-	-		-	-	-	-	-
Fish	Clupeiformes	Engraulidae	<i>Thryssa hamiltonii</i>		-	-	-	-		-	-	-	-		-	-	-	-		-	-	-	-		-	-	-	-	-
Fish	Clupeiformes	Engraulidae	<i>Thryssa kammalensis</i>		-	-	-	-		-	-	-	-	14	8.5 - 12	7.5 - 10.5	7 - 10	153		-	-	-	-		-	-	-	-	-
Fish	Mugiliformes	Mugilidae	<i>Valamugil cunnesius</i>		-	-	-	-		-	-	-	-	4	17 - 18	15.5 - 17	14 - 15.5	214.4	1	17 - 17	16 - 16	14.5 - 14.5	48.5		-	-	-	-	-
Fish	Perciformes	Carangidae	<i>Alepes djedaba</i>		-	-	-	-		-	-	-	-		-	-	-	-	2	10.5 - 11.5	9.5 - 10.5	8.5 - 9.5	31.1		-	-	-	-	-
Fish	Perciformes	Leiognathidae	<i>Leiognathus berbis</i>		-	-	-	-	2	8 - 9	7.5 - 8	6.5 - 7.5	20.3		-	-	-	-		-	-	-	-		-	-	-	-	-
Fish	Perciformes	Leiognathidae	<i>Leiognathus brevis</i>	2	6 - 6	5.5 - 5.5	5 - 5	7.1	1	7 - 7	6.5 - 6.5	5.5 - 5.5	6.6		-	-	-	-		-	-	-	-		-	-	-	-	-
Fish	Perciformes	Leiognathidae	<i>Nuchequula nuchalis</i>		-	-	-	-		-	-	-	-	8	7.5 - 9	6.5 - 8	6 - 7.5	77.3		-	-	-	-	1	9.5 - 9.5	9 - 9	8 - 8	13.3	
Fish	Perciformes	Mullidae	<i>Upeneus sulphureus</i>	1	9.5 - 9.5	8.5 - 8.5	8 - 8	13.3	1	10 - 10	9 - 9	8 - 8	16.2		-	-	-	-		-	-	-	-	1	9.5 - 9.5	8.5 - 8.5	8 - 8	12.7	
Fish	Perciformes	Sciaenidae	<i>Collichthys lucidus</i>		-	-	-	-		-	-	-	-		-	-	-	-	5	12.5 - 16	-	9.5 - 12.5	145.5		-	-	-	-	-
Fish	Perciformes	Sciaenidae	<i>Otolithes ruber</i>		-	-	-	-		-	-	-	-	1	22.5 - 22.5	-	19.5 - 19.5	105.7		-	-	-	-		-	-	-	-	-
Fish	Perciformes	Stromateidae	<i>Pampus argenteus</i>		-	-	-	-		-	-	-	-	1	25 - 25	21.5 - 21.5	21 - 21	362.4		-	-	-	-		-	-	-	-	-
Fish	Perciformes	Terapontidae	<i>Terapon jarbua</i>		-	-	-	-		-	-	-	-		-	-	-	-		-	-	-	-	1	14 - 14	13.5 - 13.5	12.5 - 12.5	51.2	
Fish	Perciformes	Trichiuridae	<i>Trichiurus nanhaiensis</i>	2	12.5 - 19	-	-	8		-	-	-	-		-	-	-	-	1	61.5 - 61.5	-	-	160.9	2	16 - 18.5	-	-	9.2	
Fish	Pleuronectiformes	Bothidae	<i>Arnoglossus tenuis</i>	1	8 - 8	-	6.5 - 6.5	3.2		-	-	-	-		-	-	-	-		-	-	-	-		-	-	-	-	-
Others	Octopoda	Octopodidae	<i>Amphioctopus aegina</i>		-	-	-	-		-	-	-	-		-	-	-	-		-	-	-	-	1	-	-	4.2 - 4.2	32.7	

Purse Seine Survey Dry Season Day time (9 Nov 2013)

Taxa	Order	Family	Scientific Name	P3B				P4A				P4B				P5A				P5B								
				Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	
					Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.		Min.
Fish	Aulopiformes	Synodontidae	<i>Saurida tumbil</i>		-	-	-	-	1	23.5 - 23.5	21.5 - 21.5	21 - 21	76.6		-	-	-	-		-	-	-	-		-	-	-	-
Fish	Carcharhiniformes	Carcharhinidae	<i>Rhizoprionodon acutus</i>		-	-	-	-	2	42.5 - 43	-	-	505.3		-	-	-	-		-	-	-	-		-	-	-	-
Fish	Clupeiformes	Clupeidae	<i>Nematalosa nasus</i>		-	-	-	-		-	-	-		1	21.5 - 21.5	19.5 - 19.5	18.5 - 18.5	103.3		-	-	-	-		-	-	-	-
Fish	Clupeiformes	Clupeidae	<i>Sardinella albella</i>	1	11 - 11	9.5 - 9.5	9 - 9	9.3	16	10 - 14	8.5 - 12.5	8 - 12	241.4	16	10 - 16	8.5 - 14	8 - 13.5	299.3		-	-	-	-		12 - 12	10.5 - 10.5	9.5 - 9.5	14.8
Fish	Clupeiformes	Engraulidae	<i>Thryssa hamiltonii</i>	1	14.5 - 14.5	13 - 13	12 - 12	19.9		-	-	-		5	15.5 - 23	13.5 - 20	13 - 19	324.1	1	15 - 15	13 - 13	12.5 - 12.5	28.7	1	-	-	-	-
Fish	Clupeiformes	Engraulidae	<i>Thryssa kammalensis</i>		-	-	-	-	160	8.5 - 13	8 - 12	7 - 11	1256	345	8.5 - 14	7.5 - 12.5	7 - 11.5	3047	561	9 - 12.5	8 - 11	7.5 - 10.5	5776	561	9 - 12	8.5 - 11	6.3 - 13.8	287.4
Fish	Clupeiformes	Pristigasteridae	<i>Ilisha elongata</i>		-	-	-	-		-	-	-		24	25 - 34.5	21.5 - 31	20.5 - 30	3992		-	-	-	-		-	-	-	-
Fish	Mugiliformes	Mugilidae	<i>Valamugil cunnesius</i>		-	-	-	-	3	17.5 - 18	16.5 - 17	15 - 15.5	176.1	12	14.5 - 19	13.5 - 17.5	12 - 16	567.8		-	-	-	-		-	-	-	-
Fish	Perciformes	Carangidae	<i>Alepes djedaba</i>		-	-	-	-	17	11 - 12.5	10 - 11.5	9 - 10.5	343.3	9	11.5 - 13	9.5 - 12	9 - 11	155.6	12	10.5 - 13.1	9.5 - 12.5	8.5 - 11.5	183.5	12	-	-	-	-
Fish	Perciformes	Leiognathidae	<i>Leiognathus brevisrostris</i>	1	4 - 4	3.6 - 3.6	3 - 3	2.1	12	8 - 11	7.5 - 10	6.5 - 9	169		-	-	-	-		-	-	-	-		-	-	-	-
Fish	Perciformes	Leiognathidae	<i>Nuchequula nuchalis</i>		-	-	-	-	9	8.5 - 10	7.5 - 8.5	7 - 8	96.2		-	-	-	-		-	-	-	-		-	-	-	-
Fish	Perciformes	Mullidae	<i>Upeneus sulphureus</i>	2	10.5 - 10.9	9 - 9.5	8 - 8.5	33.8		-	-	-			-	-	-	-		-	-	-	-		-	-	-	-
Fish	Perciformes	Polynemidae	<i>Polydactylus sextarius</i>		-	-	-	-	1	15.5 - 15.5	13.5 - 13.5	12.5 - 12.5	47.3		-	-	-	-		-	-	-	-		-	-	-	-
Fish	Perciformes	Sciaenidae	<i>Collichthys lucidus</i>		-	-	-	-	1	13.5 - 13.5	-	10.5 - 10.5	26.2		-	-	-	-	1	13 - 13	-	10 - 10	21.3	1	-	-	-	-
Fish	Rajiformes	Gymnuridae	<i>Gymnura japonica</i>		-	-	-	-		-	-	-		1	40 - 40	-	26 - 26	1368		-	-	-	-		-	-	-	-
Fish	Tetraodontiformes	Tetraodontidae	<i>Lagocephalus gloveri</i>		-	-	-	-	1	13 - 13	12.5 - 12.5	11 - 11	44.5	1	19.5 - 19.5	18.5 - 18.5	16.5 - 16.5	133.8	1	16 - 16	15.5 - 15.5	13.5 - 13.5	83.3	1	13.5 - 13.5	13 - 13	11.5 - 11.5	58.7
Fish	Tetraodontiformes	Tetraodontidae	<i>Takifugu xanthopterus</i>	2	20.5 - 22	-	17 - 18	355.5		-	-	-		1	22.5 - 22.5	-	19 - 19	218.2		-	-	-	-		-	-	-	-
Others	Octopoda	Octopodidae	<i>Amphioctopus aegina</i>		-	-	-	-	1	-	-	4 - 4	20.6		-	-	-	-		-	-	-	-		-	-	-	-

Taxa	Order	Family	Scientific Name	H1					H2					H3					H4					F5 (No sample is caught)											
				Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)
					Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.	
Fish	Perciformes	Leiognathidae	<i>Leiognathus brevisrostris</i>		-	-	-	-		-	-	-	-		-	-	-	-	2	10.5 - 11	9.5 - 10	9 - 9	40.9		-	-	-	-		-	-	-	-		
Fish	Perciformes	Serranidae	<i>Epinephelus awoara</i>		-	-	-	-		-	-	-	-	1	14.5 - 14.5	-	12 - 12	47.8		-	-	-	-		-	-	-	-		-	-	-	-		
Fish	Scorpaeniformes	Sebastidae	<i>Sebastiscus marmoratus</i>	6	9 - 12	-	8 - 10	126.2	10	9.5 - 13	-	8 - 11	274.4		-	-	-	-		-	-	-	-		-	-	-	-		-	-	-	-		

Taxa	Order	Family	Scientific Name	H1					H2					H3					H4					H5											
				Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)
					Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.	
Fish	Carcharhiniformes	Carcharhinidae	<i>Rhizoprionodon acutus</i>		-	-	-	-		-	-	-	-	-		-	-	-	-		-	-	-	-	-	3	55 - 65	-	-	50 - 60	1900				
Fish	Perciformes	Apogonidae	<i>Apogonichthyoides pseudotaeniatus</i>		-	-	-	-		-	-	-	-	-	1	15 - 15	14 - 14	12 - 12	45.3		-	-	-	-		-	-	-	-	-					
Fish	Perciformes	Apogonidae	<i>Ostorhinchus fasciatus</i>		-	-	-	-	3	10 - 10.5	9.5 - 10	8 - 9	57.9	4	10.5 - 15.5	9.5 - 13	8.5 - 12	93.4		-	-	-	-		-	-	-	-	-	-					
Fish	Perciformes	Eleotridae	<i>Butis butis</i>		-	-	-	-	1	13.5 - 13.5	-	11 - 11	12.5	1	8.5 - 8.5	-	7 - 7	8.5		-	-	-	-		-	-	-	-	-						
Fish	Perciformes	Gobiidae	<i>Myersina filifer</i>	1	13 - 13	-	11 - 11	15.8		-	-	-	-		-	-	-	-		-	-	-	-		-	-	-	-	-						
Fish	Perciformes	Labridae	<i>Halichoeres nigrescens</i>		-	-	-	-	3	15.5 - 15.5	-	13 - 13	153.3	2	16.5 - 18	-	14 - 15	149.7	1	15.5 - 15.5	-	13.5 - 13.5	48.6		-	-	-	-	-						
Fish	Perciformes	Lethrinidae	<i>Lethrinus haematopterus</i>	2	20.5 - 21	19 - 20	17 - 17	257.5		-	-	-	-		-	-	-	-		-	-	-	-		-	-	-	-	-						
Fish	Perciformes	Lutjanidae	<i>Lutjanus russellii</i>		-	-	-	-		-	-	-	-	2	20 - 25	19 - 24	17 - 21	324	1	20 - 20	19 - 19	17 - 17	107		-	-	-	-	-						
Fish	Perciformes	Sciaenidae	<i>Dendrophysa russellii</i>		-	-	-	-		-	-	-	-		-	-	-	-		-	-	-	-	1	14.5 - 14.5	-	-	12.5 - 12.5	35.1						
Fish	Perciformes	Sciaenidae	<i>Johnius macrorhynchus</i>		-	-	-	-		-	-	-	-		-	-	-	-		-	-	-	-	2	13.5 - 17	-	-	11 - 14	79.1						
Fish	Perciformes	Serranidae	<i>Epinephelus merra</i>	3	14.5 - 17	-	12 - 15	181.6		-	-	-	-		-	-	-	-		-	-	-	-		-	-	-	-	-						
Fish	Scorpaeniformes	Sebastidae	<i>Sebastes marmoratus</i>	9	9 - 13	-	8 - 11	244.7	5	10.5 - 14	-	8.5 - 12	154.5	2	12.5 - 14	-	10.5 - 12	82.9		-	-	-	-		-	-	-	-	-						
Fish	Tetraodontiformes	Monacanthidae	<i>Monacanthus chinensis</i>	1	26 - 26	-	21 - 21	245		-	-	-	-		-	-	-	-		-	-	-	-		-	-	-	-	-						
Fish	Tetraodontiformes	Tetraodontidae	<i>Takifugu niphobles</i>		-	-	-	-	1	11 - 11	-	9 - 9	32.3		-	-	-	-		-	-	-	-		-	-	-	-	-						

Taxa	Order	Family	Scientific Name	H1					H2					H3 (No sample is caught)					H4 (No sample is caught)					H5											
				Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)
					Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.	
Fish	Perciformes	Sciaenidae	<i>Dendrophysa russelii</i>		-	-	-	-		-	-	-	-	-	-	-		-	-	-	-	-	-		2	12.5 - 14	-	-	10 - 11.5	56.1					
Fish	Perciformes	Sciaenidae	<i>Johnius belangerii</i>		-	-	-	-	6	14.5 - 21.5	-	11.5 - 17	406.5		-	-	-		-	-	-	-	-		3	15.5 - 17.5	-	-	13 - 14	129.4					
Fish	Perciformes	Sciaenidae	<i>Johnius macrorhynchus</i>		-	-	-	-	3	14.5 - 20	-	11.5 - 16	182.3		-	-	-		-	-	-	-	-		2	16.5 - 17	-	-	14 - 14	104.1					
Fish	Perciformes	Sillaginidae	<i>Sillago sihama</i>		-	-	-	-	1	19 - 19	-	17 - 17	45.3		-	-	-		-	-	-	-	-		-	-	-	-	-	-					
Fish	Scorpaeniformes	Sebastidae	<i>Sebastes marmoratus</i>	3	9.5 - 11.5	-	8 - 9.5	77.5		-	-	-		-	-	-		-	-	-	-	-		-	-	-	-	-	-	-					

Taxa	Order	Family	Scientific Name	H1				H2				H3				H4				H5									
				Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)		
					Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.		Min.	Max.
Fish	Anguilliformes	Ophichthidae	<i>Pisodonophis boro</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Fish	Carcharhiniformes	Carcharhinidae	<i>Rhizoprionodon acutus</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Fish	Perciformes	Apogonidae	<i>Apogonichthyoides pseudotaeniatus</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Fish	Perciformes	Apogonidae	<i>Ostorhinchus fasciatus</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Fish	Perciformes	Gobiidae	<i>Myersina filifer</i>	2	11 - 12.5	-	8.5 - 10	32.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Fish	Perciformes	Haemulidae	<i>Pomadasys kaakan</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Fish	Perciformes	Leiognathidae	<i>Leiognathus brevis</i>	1	8.5 - 8.5	7.5 - 7.5	7 - 7	8.6	2	9.5 - 10	8.5 - 9	7.5 - 8	26.6	2	8.5 - 11.5	7.5 - 10.5	7 - 9.5	24	-	-	-	-	-	-	-				
Fish	Perciformes	Leiognathidae	<i>Nuchequula nuchalis</i>	1	7 - 7	6.5 - 6.5	5.5 - 5.5	5.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Fish	Perciformes	Nemipteridae	<i>Nemipterus japonicus</i>	4	10 - 11.5	9.5 - 10.5	8 - 9.5	75.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Fish	Perciformes	Sciaenidae	<i>Dendrophysa russellii</i>	-	-	-	-	-	-	-	-	-	-	2	15 - 15	-	12.5 - 12.5	68.9	1	14 - 14	-	11.5 - 11.5	27.8	1	15.5 - 15.5	-	13 - 13	35.8	
Fish	Perciformes	Sciaenidae	<i>Johnius belangerii</i>	-	-	-	-	-	3	15.5 - 17.5	-	12.5 - 14.5	145.8	-	-	-	-	-	-	-	-	-	4	16 - 18	-	14 - 16	197.9		
Fish	Perciformes	Sciaenidae	<i>Johnius dussumieri</i>	-	-	-	-	-	2	13.5 - 16	-	11 - 13	67.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Fish	Perciformes	Sciaenidae	<i>Johnius macrorhynchus</i>	-	-	-	-	-	5	13 - 18.5	-	10.5 - 15.5	196	-	-	-	-	-	2	15 - 15.5	-	12.5 - 13	57.9	-	-	-	-	-	
Fish	Perciformes	Sciaenidae	<i>Otolithes ruber</i>	-	-	-	-	-	1	31 - 31	-	27 - 27	294.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Fish	Perciformes	Serranidae	<i>Epinephelus awoara</i>	1	25.5 - 25.5	-	22 - 22	287.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fish	Perciformes	Sillaginidae	<i>Sillago sihama</i>	7	16 - 25	-	14 - 23	344.5	4	17.5 - 21.5	-	15.5 - 19.5	226.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fish	Perciformes	Sparidae	<i>Eynnys cardinalis</i>	1	11 - 11	10 - 10	9.5 - 9.5	27.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fish	Perciformes	Terapontidae	<i>Terapon jarbua</i>	3	13.5 - 16	12.5 - 14.5	10.5 - 13	161.1	3	9.5 - 11	9 - 10.5	8 - 9	51.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fish	Perciformes	Terapontidae	<i>Terapon theraps</i>	-	-	-	-	-	1	10 - 10	9.5 - 9.5	8.5 - 8.5	15.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fish	Scorpaeniformes	Platycephalidae	<i>Platycephalus indicus</i>	-	-	-	-	-	1	13.5 - 13.5	-	12 - 12	13.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fish	Scorpaeniformes	Sebastidae	<i>Sebastes marmoratus</i>	-	-	-	-	-	-	-	-	-	-	1	11.5 - 11.5	-	9.5 - 9.5	26.7	-	-	-	-	-	-	-	-	-	-	-
Fish	Tetraodontiformes	Tetraodontidae	<i>Lagocephalus gloveri</i>	1	20 - 20	19 - 19	16.5 - 16.5	182.6	3	9 - 13	8.5 - 12.5	7.5 - 10.5	71.9	-	-	-	-	-	1	16.5 - 16.5	15.5 - 15.5	13.5 - 13.5	79.8	-	-	-	-	-	
Fish	Tetraodontiformes	Tetraodontidae	<i>Takifugu oblongus</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	13.5 - 13.5	-	11 - 11	43.7	-	-	-	-	-	-

Taxa	Order	Family	Scientific Name	H1				H2				H3				H4				H5																					
				Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)														
					Min. -	Max.	Min. -	Max.	Min. -	Max.			Min. -	Max.	Min. -	Max.	Min. -	Max.			Min. -	Max.	Min. -	Max.																	
Fish	Perciformes	Gerreidae	<i>Gerres limbatus</i>		-	-	-	-	1	10 -	10	9 -	9	8 -	8	18.8		-	-	-	-		-	-	-	-															
Fish	Perciformes	Leiognathidae	<i>Leiognathus brevisrostris</i>	3	11 -	11.5	9 -	10.5	8 -	9	51.1		-	-	-	-	1	10 -	10	9 -	9	8 -	8	15.2	1	12 -	12	11 -	11	10 -	10	19.3	2	10 -	11	9 -	10	8.5 -	9	27.6	
Fish	Perciformes	Nemipteridae	<i>Nemipterus japonicus</i>		-	-	-	-		-	-		-	-	-	-	1	11.5 -	11.5	10.5 -	10.5	9.5 -	9.5	24.7		-	-	-	-	-		-	-	-	-						
Fish	Perciformes	Sciaenidae	<i>Dendrophysa russelii</i>		-	-	-	-		-	-		-	-	-	-	1	17 -	17	-	-	15 -	15	48.6	1	19 -	19	-	-	16 -	16	83.4		-	-	-	-				
Fish	Perciformes	Serranidae	<i>Epinephelus awaara</i>		-	-	-	-		-	-		-	-	-	-	1	13.5 -	13.5	-	-	12 -	12	31.8		-	-	-	-	-		-	-	-	-						
Fish	Perciformes	Sillaginidae	<i>Sillago sihama</i>	7	15 -	25	-	-	13.5 -	23	514	1	20 -	20	-	-	18 -	18	64.4	2	19 -	19	-	-	17 -	17	107	1	17 -	17	-	-	15 -	15	32.1		-	-	-	-	
Fish	Perciformes	Terapontidae	<i>Terapon jarbua</i>		-	-	-	-		12.5 -	14	2	12 -	12.5	11 -	11	71.2	1	15 -	15	14.5 -	14.5	13 -	13	55.7		-	-	-	-	-		-	-	-	-					
Fish	Tetraodontiformes	Tetraodontidae	<i>Takifugu oblongus</i>		-	-	-	-	1	17 -	17	16 -	16	14 -	14	92.5		-	-	-	-		-	-		1	13.5 -	13.5	12.5 -	12.5	11 -	11	46.3		-	-	-	-			

Hand Line Survey Dry Season Day (23 Nov 2013)

Taxa	Order	Family	Scientific Name	H1				H2				H3				H4				H5								
				Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	Quantity	Total Length (cm)		Fork Length (cm)		Standard Length (cm)		Total Weight (g)	
					Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.			Min.	Max.	Min.	Max.	Min.	Max.		
Fish	Perciformes	Gerreidae	<i>Gerres limbatus</i>		-	-	-	-	1	12	12	11	11	10	10	31.4		-	-	-	-		-	-	-	-		
Fish	Perciformes	Labridae	<i>Halichoeres nigrescens</i>		-	-	-	-		15	17	-	-	13	15	169.9		-	-	-	-		-	-	-	-		
Fish	Perciformes	Leiognathidae	<i>Leiognathus brevirostris</i>	2	10	10.5	9	9	8	8	24.6	1	11	11	10	10	21.1	1	10.5	10.5	9.5	9.5	8	8	12.9			
Fish	Perciformes	Nemipteridae	<i>Nemipterus japonicus</i>	1	16	16	14.5	14.5	12.5	12.5	48.3		-	-	-	-			-	-	-	-		-	-			
Fish	Perciformes	Sciaenidae	<i>Dendrophysa russelii</i>		-	-	-	-		-	-	-	-	-	-			-	-	-	-	1	15	15	-	14	14	54
Fish	Perciformes	Sciaenidae	<i>Johnius belangerii</i>		-	-	-	-		-	-	-	-	-	-			-	-	-	-	1	14.5	14.5	-	12	12	30.7
Fish	Perciformes	Sillaginidae	<i>Sillago sihama</i>	4	15	23.5	-	-	13	21	220	4	15	21.5	-	-	169.7	2	16.5	18.5	-	-	14.5	16	85.3			
Fish	Tetraodontiformes	Tetraodontidae	<i>Takifugu alboplumbeus</i>		-	-	-	-		-	-	-	-	-	-			1	16.5	16.5	-	-	13	13	84.5			
Fish	Tetraodontiformes	Tetraodontidae	<i>Takifugu oblongus</i>		-	-	-	-	3	13	15	-	-	10	12	163		-	-	-	-		-	-	-	-		

Appendix 14.3 Annex B Checklist of Species Recorded During the Fisheries Baseline Surveys

Taxa	Order	Family	Species Name	Common Name	Commercial Value	Type of Commercial	Survey Types				Survey Locations					
							T*	P*	G*	H*	A*	B*	C*	D*	E*	F*
Crab	Decapoda	Calappidae	<i>Calappa philargius</i>	Box crab	✓	Low	✓				✓	✓	✓	✓		
Crab	Decapoda	Dorippidae	<i>Paradorippe polita</i>	Crab	X	Nil	✓	✓	✓		✓	✓	✓	✓	✓	✓
Crab	Decapoda	Euryplacidae	<i>Eucrate crenata</i>	Goneplastid crab	X	Nil	✓				✓	✓	✓			
Crab	Decapoda	Leucosiidae	<i>Leucosia anatum</i>	Painted Pebble Crab	X	Nil	✓				✓	✓	✓			
Crab	Decapoda	Leucosiidae	<i>Seulocia vittata</i>	Crab	X	Nil	✓				✓	✓	✓	✓		
Crab	Decapoda	Parthenopidae	<i>Parthenope sp</i>	Elbow crab	X	Nil	✓		✓		✓	✓	✓	✓		✓
Crab	Decapoda	Portunidae	<i>Charybdis feriata</i>	Red crab	✓	High	✓		✓		✓	✓	✓	✓	✓	
Crab	Decapoda	Portunidae	<i>Charybdis lucifera</i>	Box crab	✓	Low	✓		✓		✓	✓	✓	✓	✓	✓
Crab	Decapoda	Portunidae	<i>Charybdis sp</i>	Crab	X	Nil	✓	✓	✓		✓	✓	✓	✓	✓	✓
Crab	Decapoda	Portunidae	<i>Portunus pelagicus</i>	Blue crab	✓	High	✓		✓		✓	✓	✓	✓	✓	
Crab	Decapoda	Portunidae	<i>Portunus sanguinolentus</i>	Three-spotted crab	✓	High	✓		✓		✓	✓	✓	✓	✓	✓
Crab	Decapoda	Portunidae	<i>Portunus trituberculatus</i>	Swimming crab	✓	High	✓	✓			✓	✓	✓	✓	✓	
Crab	Decapoda	Portunidae	<i>Scylla serrata</i>	Mud crab	✓	High	✓				✓	✓	✓	✓		
Fish	Anguilliformes	Congridae	<i>Uroconger lepturus</i>	Slender conger	✓	Low	✓				✓	✓	✓	✓		
Fish	Anguilliformes	Muraenesocidae	<i>Muraenesox cinereus</i>	Arabian pike-eel	✓	Medium	✓				✓	✓	✓	✓		
Fish	Anguilliformes	Muraenidae	<i>Gymnothorax reevesii</i>	Reeve's moray	✓	Medium	✓				✓	✓	✓	✓		
Fish	Anguilliformes	Ophichthidae	<i>Pisodonophis boro</i>	Rice-paddy eel	✓	Low	✓		✓		✓	✓	✓	✓		
Fish	Atheriniformes	Atherinidae	<i>Atherinomorus lacunosus</i>	Hardyhead silverside	✓	Low		✓			✓	✓	✓	✓		✓
Fish	Aulopiformes	Synodontidae	<i>Harpadon nehereus</i>	Bombay duck	✓	Medium		✓			✓					✓
Fish	Aulopiformes	Synodontidae	<i>Saurida elongata</i>	Slender lizardfish	✓	Low		✓			✓	✓	✓	✓		
Fish	Aulopiformes	Synodontidae	<i>Saurida tumbil</i>	Greater lizardfish	✓	Low	✓	✓	✓		✓	✓	✓	✓	✓	✓
Fish	Beloniformes	Hemiramphidae	<i>Hyporhamphus dussumieri</i>	Dussumier's halfbeak	✓	Low		✓			✓	✓	✓	✓	✓	✓
Fish	Carcharhiniformes	Carcharhinidae	<i>Rhizoprionodon acutus</i>	Milk shark	✓	Low		✓	✓	✓	✓	✓	✓	✓		
Fish	Clupeiformes	Clupeidae	<i>Konosirus punctatus</i>	Konoshiro gizzard shad	✓	Low	✓	✓	✓		✓	✓	✓	✓	✓	✓
Fish	Clupeiformes	Engraulidae	<i>Encrasicholina heteroloba</i>	Shorthead anchovy	✓	Low		✓			✓	✓	✓	✓	✓	✓
Fish	Clupeiformes	Engraulidae	<i>Stolephorus indicus</i>	Indian anchovy	✓	Low	✓	✓	✓		✓	✓	✓	✓	✓	✓
Fish	Clupeiformes	Engraulidae	<i>Thryssa kammalensis</i>	Kammal thryssa	✓	Low	✓	✓	✓		✓	✓	✓	✓	✓	✓
Fish	Clupeiformes	Engraulidae	<i>Coilia nasus</i>	Japanese grenadier anchovy	✓	Low		✓			✓	✓			✓	✓
Fish	Clupeiformes	Engraulidae	<i>Thryssa hamiltonii</i>	Hamilton's thryssa	✓	Low	✓	✓	✓		✓	✓	✓	✓	✓	✓
Fish	Clupeiformes	Pristigasteridae	<i>Ilisha elongata</i>	Elongate ilisha	✓	Medium		✓			✓	✓	✓	✓	✓	✓
Fish	Clupeiformes	Pristigasteridae	<i>Ilisha melastoma</i>	Indian ilisha	✓	Low	✓				✓	✓	✓	✓		
Fish	Clupeiformes	Clupeidae	<i>Sardinella albella</i>	White sardinella	✓	Low	✓	✓	✓		✓	✓	✓	✓	✓	✓
Fish	Clupeiformes	Clupeidae	<i>Amblygaster sirm</i>	Sarindella albella	✓	Low	✓	✓			✓	✓				✓
Fish	Clupeiformes	Clupeidae	<i>Nematalosa nasus</i>	Bloch's gizzard shad	✓	Low	✓	✓	✓		✓	✓	✓	✓	✓	✓
Fish	Mugiliformes	Mugilidae	<i>Valamugil cunnesius</i>	Longarm mullet	✓	Medium	✓	✓			✓	✓	✓	✓	✓	✓
Fish	Osmeriformes	Salangidae	<i>Salanx ariakensis</i>	Noodlefish	✓	High		✓			✓	✓	✓	✓	✓	✓
Fish	Perciformes	Apogonidae	<i>Apogon carinatus</i>	Cardinalfish	✓	Low	✓				✓	✓	✓	✓		
Fish	Perciformes	Apogonidae	<i>Apogonichthyoides pseudotaeniatus</i>	Doublebar cardinal fish	✓	Low		✓	✓		✓	✓	✓	✓		
Fish	Perciformes	Apogonidae	<i>Ostorhinchus fasciatus</i>	Broadbanded cardinalfish	✓	Low	✓	✓		✓	✓	✓	✓	✓	✓	✓
Fish	Perciformes	Callionymidae	<i>Callionymus richardsonii</i>	Dragonet	✓	Low	✓				✓	✓	✓	✓		
Fish	Perciformes	Carangidae	<i>Alepes djedaba</i>	Shrimp scad	✓	Low	✓	✓	✓		✓	✓	✓	✓	✓	✓
Fish	Perciformes	Carangidae	<i>Carangoides malabaricus</i>	Malabar trevally	✓	Low	✓				✓	✓				
Fish	Perciformes	Cichlidae	<i>Oreochromis mossambicus</i>	Mozambique tilapia	✓	Low	✓				✓	✓	✓			
Fish	Perciformes	Eleotridae	<i>Butis butis</i>	Duckbill sleeper	✓	Low	✓		✓		✓	✓	✓	✓		✓
Fish	Perciformes	Gerreidae	<i>Gerres japonicus</i>	Silver biddy	✓	Low	✓		✓		✓	✓				✓
Fish	Perciformes	Gerreidae	<i>Gerres limbatus</i>	Saddleback silver-biddy	✓	Low	✓	✓	✓		✓	✓	✓	✓	✓	✓
Fish	Perciformes	Gobiidae	<i>Acentrogobius caninus</i>	Tropical sand goby	✓	Low		✓			✓	✓	✓	✓	✓	✓
Fish	Perciformes	Gobiidae	<i>Oxyurichthys tentacularis</i>	Tentacled goby	✓	Low	✓				✓	✓	✓	✓		
Fish	Perciformes	Gobiidae	<i>Parachaeturichthys polynema</i>	Taileyed goby	✓	Low	✓				✓	✓	✓	✓		
Fish	Perciformes	Gobiidae	<i>Trypauchen vagina</i>	Burrowing goby	✓	Low	✓				✓	✓	✓	✓		
Fish	Perciformes	Haemulidae	<i>Pomadasys kaakan</i>	Javelin grunter	✓	Medium			✓		✓	✓	✓			
Fish	Perciformes	Haemulidae	<i>Diagramma pictum</i>	Painted sweetlips	✓	High	✓				✓	✓	✓			
Fish	Perciformes	Hapalogenyidae	<i>Hapalogenys mucronatus</i>	Belted beard grunt	✓	Medium	✓				✓	✓				
Fish	Perciformes	Labridae	<i>Halichoeres nigrescens</i>	Dussumier's wrasse	✓	Low	✓		✓	✓	✓	✓		✓	✓	✓
Fish	Perciformes	Leiognathidae	<i>Leiognathus berbis</i>	Slipmouth	✓	Low		✓			✓					✓
Fish	Perciformes	Leiognathidae	<i>Leiognathus brevisrostris</i>	Shorthead ponyfish	✓	Medium	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Fish	Perciformes	Leiognathidae	<i>Leiognathus equulus</i>	Common ponyfish	✓	Low		✓			✓	✓	✓	✓	✓	✓
Fish	Perciformes	Leiognathidae	<i>Nuchequula nuchalis</i>	Spotnape ponyfish	✓	Medium	✓	✓	✓		✓	✓	✓	✓	✓	✓
Fish	Perciformes	Leiognathidae	<i>Photopectoralis bindus</i>	Slipmouth	✓	Low		✓			✓					✓
Fish	Perciformes	Leiognathidae	<i>Secutor insidiator</i>	Slipmouth	✓	Low		✓			✓		✓			
Fish	Perciformes	Lethrinidae	<i>Lethrinus haematopterus</i>	Chinese emperor	✓	Medium			✓		✓	✓	✓			✓
Fish	Perciformes	Lutjanidae	<i>Lutjanus johnii</i>	John's snapper	✓	High	✓				✓	✓	✓		✓	✓
Fish	Perciformes	Lutjanidae	<i>Lutjanus russellii</i>	Russell's snapper	✓	High			✓	✓	✓	✓		✓		
Fish	Perciformes	Mullidae	<i>Upeneus japonicus</i>	Bensasi goatfish	✓	Low	✓				✓	✓				
Fish	Perciformes	Nemipteridae	<i>Nemipterus japonicus</i>	Japanese golden thread	✓	Low	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Fish	Perciformes	Polynemidae	<i>Eleutheronema tetradactylum</i>	Fourfinger threadfin	✓	High		✓			✓	✓	✓	✓		✓
Fish	Perciformes	Scatophagidae	<i>Scatophagus argus</i>	Spotted scat	✓	High	✓				✓	✓	✓	✓		
Fish	Perciformes	Sciaenidae	<i>Collichthys lucidus</i>	Lion head croaker	✓	High	✓	✓	✓		✓	✓	✓	✓	✓	✓
Fish	Perciformes	Sciaenidae	<i>Larimichthys crocea</i>	Yellow croaker	✓	High		✓			✓	✓	✓	✓		
Fish	Perciformes	Sciaenidae	<i>Nibea albiflora</i>	White flower croaker	✓	High	✓				✓	✓	✓	✓		
Fish	Perciformes	Sciaenidae	<i>Johnius dussumieri</i>	Sin croaker	✓	Low		✓			✓	✓	✓			✓
Fish	Perciformes	Sciaenidae	<i>Otolithes ruber</i>	Tiger-toothed croaker	✓	Medium	✓	✓	✓		✓	✓	✓	✓	✓	✓
Fish	Perciformes	Scombridae	<i>Scomberomorus commerson</i>	Banded tuna	✓	Medium		✓			✓		✓			✓
Fish	Perciformes	Serranidae	<i>Epinephelus awoara</i>	Banded grouper	✓	High	✓		✓	✓	✓	✓	✓	✓	✓	✓
Fish	Perciformes	Siganidae	<i>Siganus canaliculatus</i>	Pearl-spotted spinefoot	✓	Low	✓		✓		✓	✓	✓	✓	✓	✓
Fish	Perciformes	Sillaginidae	<i>Sillago sihama</i>	Silver sillago	✓	High	✓		✓		✓	✓	✓	✓	✓	✓
Fish	Perciformes	Sparidae	<i>Acanthopagrus schlegeli</i>	Black bream	✓	High	✓				✓	✓	✓	✓	✓	✓
Fish	Perciformes	Sparidae	<i>Evynnis cardinalis</i>	Crimson sea-bream	✓	Medium	✓	✓	✓		✓	✓	✓	✓		✓
Fish	Perciformes	Sparidae	<i>Pagrus major</i>	Red pargo	✓	Medium	✓				✓	✓	✓			
Fish	Perciformes	Sparidae	<i>Rhabdosargus sarba</i>	Golden lined sea-bream	✓	Medium		✓			✓				✓	✓
Fish	Perciformes	Sphyraenidae	<i>Sphyraena pinguis</i>	Brown barracuda	✓	Medium		✓			✓					✓
Fish	Perciformes	Terapontidae	<i>Pelates quadrilineatus</i>	Fourlined terapon	✓	Low	✓	✓	✓		✓	✓	✓	✓	✓	✓
Fish	Perciformes	Terapontidae	<i>Rhynchopelates oxyrhynchus</i>	Sharp-nosed tigerfish	✓	Low		✓			✓					✓
Fish	Perciformes	Terapontidae	<i>Terapon jarbua</i>	Jarbua terapon	✓	Low	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Fish	Perciformes	Terapontidae	<i>Terapon theraps</i>	Grunt	✓	Low	✓		✓		✓	✓	✓	✓	✓	✓
Fish	Perciformes	Ambassidae	<i>Ambassis gymnocephalus</i>	Bald glassy	✓	Low	✓				✓	✓	✓	✓	✓	✓
Fish	Perciformes	Carangidae	<i>Decapterus maruadsi</i>	Amberfish	✓	Low		✓			✓	✓	✓	✓	✓	✓
Fish	Perciformes	Carangidae	<i>Scomberoides lysan</i>	Doublespotted queenfish	✓	Low		✓			✓					✓
Fish	Perciformes	Centrolophidae	<i>Psenopsis anomala</i>	Butter fish	✓	Medium	✓	✓			✓	✓	✓	✓	✓	✓
Fish	Perciformes	Drepanidae	<i>Drepane punctata</i>	Spotted sicklefish	✓	Medium	✓									

Fish	Perciformes	Sciaenidae	<i>Sciaenops ocellatus</i>	Red drum	✓	Medium				✓		✓					✓
Fish	Perciformes	Serranidae	<i>Epinephelus bruneus</i>	Longtooth grouper	✓	High	✓			✓	✓	✓	✓	✓			✓
Fish	Perciformes	Serranidae	<i>Epinephelus coioides</i>	Orange-spotted grouper	✓	High	✓					✓	✓				
Fish	Perciformes	Serranidae	<i>Epinephelus merra</i>	Honeycomb grouper	✓	High	✓			✓		✓	✓	✓			✓
Fish	Perciformes	Sparidae	<i>Acanthopagrus berda</i>	Picfin seabream	✓	High	✓		✓		✓		✓				
Fish	Perciformes	Stromateidae	<i>Pampus nozawae</i>	Swallow tail pomfret	✓	High		✓				✓					✓
Fish	Perciformes	Stromateidae	<i>Pampus argenteus</i>	Silver pomfret	✓	High	✓	✓			✓	✓	✓	✓	✓	✓	✓
Fish	Perciformes	Trichiuridae	<i>Trichiurus nanhaiensis</i>	Largehead hairtail	✓	Low		✓			✓	✓	✓	✓	✓	✓	✓
Fish	Pleuronectiformes	Bothidae	<i>Arnoglossus tenuis</i>	Dwarf lefteye flounder	✓	Low	✓	✓			✓	✓	✓	✓	✓	✓	✓
Fish	Pleuronectiformes	Cynoglossidae	<i>Cynoglossus abbreviatus</i>	Three-lined tongue sole	✓	High	✓				✓	✓	✓	✓	✓	✓	
Fish	Pleuronectiformes	Cynoglossidae	<i>Cynoglossus macrolepidotus</i>	Largescale tonguesole	✓	High	✓		✓		✓	✓	✓	✓	✓	✓	
Fish	Pleuronectiformes	Cynoglossidae	<i>Cynoglossus puncticeps</i>	Speckled tonguesole	✓	High	✓				✓	✓	✓	✓	✓	✓	
Fish	Pleuronectiformes	Cynoglossidae	<i>Cynoglossus semilaevis</i>	Tongue sole	✓	High	✓					✓				✓	
Fish	Pleuronectiformes	Paralichthyidae	<i>Pseudorhombus levisquamis</i>	Left-eyed flounder	✓	Medium	✓		✓		✓	✓	✓	✓	✓	✓	✓
Fish	Pleuronectiformes	Soleidae	<i>Solea ovata</i>	Ovate sole	✓	Medium	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
Fish	Pleuronectiformes	Soleidae	<i>Zebrias quagga</i>	Fringefin zebra sole	✓	Medium	✓				✓		✓				
Fish	Pleuronectiformes	Soleidae	<i>Zebrias zebra</i>	Double banded sole	✓	Medium		✓			✓		✓				
Fish	Rajiformes	Dasyatidae	<i>Dasyatis zugei</i>	Pale-edged stingray	✓	Low	✓				✓	✓	✓	✓	✓	✓	
Fish	Rajiformes	Dasyatidae	<i>Dasyatis bennettii</i>	Yellow stingray	✓	Low	✓				✓	✓	✓	✓	✓	✓	
Fish	Rajiformes	Gymnuridae	<i>Gymnura japonica</i>	Japanese butterfly ray	✓	Low		✓				✓				✓	
Fish	Rajiformes	Myliobatidae	<i>Aetobatus flagellum</i>	Longheaded eagle ray	✓	Low		✓				✓					
Fish	Scorpaeniformes	Platycephalidae	<i>Platycephalus indicus</i>	Bartail flathead	✓	Medium	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Fish	Scorpaeniformes	Scorpaenidae	<i>Scorpaenopsis neglecta</i>	Yellowfin scorpionfish	✓	Low			✓		✓						✓
Fish	Scorpaeniformes	Sebastidae	<i>Sebastes marmoratus</i>	common rockfish	✓	High	✓			✓	✓	✓	✓	✓	✓	✓	✓
Fish	Scorpaeniformes	Synanceiidae	<i>Trachicephalus uranoscopus</i>	Stonefish	✓	Low	✓		✓		✓	✓	✓	✓	✓	✓	✓
Fish	Scorpaeniformes	Tetraogidae	<i>Vespicularia trachinoides</i>	Mangrove waspfish	✓	Low	✓	✓			✓	✓	✓	✓	✓	✓	✓
Fish	Scorpaeniformes	Triglidae	<i>Lepidotrigla punctipectoralis</i>	Finspot gurnard	✓	Low			✓			✓					✓
Fish	Scorpaeniformes	Dactylopteridae	<i>Dactyloptena gilberti</i>	Gilbert's flying gurnard	✓	Low	✓					✓	✓				
Fish	Scorpaeniformes	Platycephalidae	<i>Inegocia japonica</i>	Japanese flathead	✓	Low	✓				✓	✓	✓	✓	✓	✓	
Fish	Scorpaeniformes	Platycephalidae	<i>Inegocia guttata</i>	Flathead	✓	Low	✓				✓	✓	✓	✓	✓	✓	
Fish	Scorpaeniformes	Scorpaenidae	<i>Scorpaena neglecta</i>	Smallmouth scorpionfish	✓	Medium	✓				✓	✓	✓	✓	✓	✓	
Fish	Scorpaeniformes	Synanceiidae	<i>Inimicus cuvieri</i>	Longsnout stinger	✓	High	✓				✓	✓	✓	✓	✓	✓	
Fish	Scorpaeniformes	Synanceiidae	<i>Minous monodactylus</i>	Grey stingfish	✓	Low	✓	✓				✓				✓	✓
Fish	Scorpaeniformes	Tetraogidae	<i>Paracentropogon rubripinnis</i>	Waspfish	✓	Low	✓		✓		✓	✓	✓				✓
Fish	Siluriformes	Ariidae	<i>Arius maculatus</i>	Spotted catfish	✓	Medium	✓		✓		✓	✓	✓	✓	✓	✓	✓
Fish	Siluriformes	Plotosidae	<i>Plotosus lineatus</i>	Striped eel catfish	✓	Low	✓		✓		✓	✓	✓	✓	✓	✓	✓
Fish	Tetraodontiformes	Monacanthidae	<i>Paramonacanthus sulcatus</i>	Mudbank filefish	✓	Medium	✓					✓	✓				
Fish	Tetraodontiformes	Monacanthidae	<i>Thamnaconus modestus</i>	Filefish	✓	Medium	✓	✓			✓	✓	✓	✓	✓	✓	✓
Fish	Tetraodontiformes	Tetraodontidae	<i>Takifugu alboplumbeus</i>	Hong Kong pufferfish	X	Nil	✓			✓	✓	✓	✓	✓	✓	✓	
Fish	Tetraodontiformes	Tetraodontidae	<i>Takifugu bimaculatus</i>	Futatsuboshi-fugu	X	Nil	✓				✓	✓	✓	✓	✓	✓	
Fish	Tetraodontiformes	Tetraodontidae	<i>Takifugu oblongus</i>	Oblong blowfish	✓	Low	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓
Fish	Tetraodontiformes	Tetraodontidae	<i>Takifugu xanthopterus</i>	Yellow pufferfish	✓	Low	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
Fish	Tetraodontiformes	Monacanthidae	<i>Monacanthus chinensis</i>	Fan-bellied leather jacket	✓	Medium	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓
Fish	Tetraodontiformes	Tetraodontidae	<i>Lagocephalus gloveri</i>	Pufferfish	✓	High	✓	✓			✓	✓	✓	✓	✓	✓	✓
Fish	Tetraodontiformes	Tetraodontidae	<i>Takifugu niphobles</i>	Snowy puffer	✓	Low	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓
Fish	Tetraodontiformes	Tetraodontidae	<i>Takifugu poecilnotus</i>	Pufferfish	✓	Low	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓
Mantis shrimp	Stomatopoda	Squillidae	<i>Dictyosquilla foveolata</i>	Mantis shrimp	✓	High	✓					✓	✓	✓	✓	✓	✓
Mantis shrimp	Stomatopoda	Squillidae	<i>Harpisquilla harpax</i>	Mantis shrimp	✓	High	✓		✓		✓	✓	✓	✓	✓	✓	✓
Mantis shrimp	Stomatopoda	Squillidae	<i>Oratosquilla oratoria</i>	Mantis shrimp	✓	High	✓		✓		✓	✓	✓	✓	✓	✓	✓
Mantis shrimp	Stomatopoda	Squillidae	<i>Oratosquilla interrupta</i>	Mantis shrimp	✓	High	✓		✓		✓	✓	✓	✓	✓	✓	✓
Mantis shrimp	Stomatopoda	Squillidae	<i>Clorida rotundicauda</i>	Mantis shrimp	✓	High	✓				✓	✓	✓	✓	✓	✓	✓
Mantis shrimp	Stomatopoda	Squillidae	<i>Miyakella nepa</i>	Mantis shrimp	✓	High	✓				✓	✓	✓	✓	✓	✓	✓
Others	Arcoida	Arcidae	<i>Tegillarca granosa</i>	Blood cockle	✓	Low	✓				✓	✓	✓	✓	✓	✓	✓
Others	Caenogastropoda	Turritellidae	<i>Turritella terebra</i>	Sea snail	✓	Low	✓	✓			✓	✓	✓	✓	✓	✓	✓
Others	Camarodonta	Temnopleuridae	<i>Temnopleurus toreumaticus</i>	Sea urchin	X	Nil	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
Others	Cephalaspidia	Philinidae	<i>Philina aperta</i>	Sand slug	X	Nil	✓				✓	✓	✓	✓	✓	✓	✓
Others	Golfingiida	Sipunculidae	<i>Siphonosoma sp</i>	Peanut worm	X	Nil	✓				✓	✓	✓	✓	✓	✓	✓
Others	Littorinimorpha	Bursidae	<i>Bufo rana</i>	Common frog shell	✓	Low	✓				✓	✓	✓	✓	✓	✓	✓
Others	Myopsida	Loliginidae	<i>Loligo</i>	Squid	✓	Medium	✓	✓			✓	✓	✓	✓	✓	✓	✓
Others	Mytiloidea	Mytilidae	<i>Perna viridis</i>	Green mussel	✓	Low	✓				✓	✓	✓	✓	✓	✓	✓
Others	Neogastropoda	Muricidae	<i>Murex trapa</i>	Rarespined murex	X	Nil	✓		✓		✓	✓	✓	✓	✓	✓	✓
Others	Neogastropoda	Hemigenidae	<i>Hemifusus tuba</i>	Sea snail	✓	High	✓				✓	✓	✓	✓	✓	✓	✓
Others	Octopoda	Octopodidae	<i>Amphioctopus aegina</i>	Octopus	✓	Low	✓	✓			✓	✓	✓	✓	✓	✓	✓
Others	Pennatulacea	Pennatulidae	<i>Pteraeides sparmanni</i>	Sea pen	X	Nil	✓				✓	✓	✓	✓	✓	✓	✓
Others	Sepiida	Sepiidae	<i>Sepiella inermis</i>	Spineless cuttlefish	✓	Low	✓				✓	✓	✓	✓	✓	✓	✓
Others	Sepiida	Sepiidae	<i>Sepia andreana</i>	Andrea cuttlefish	✓	Low	✓	✓			✓	✓	✓	✓	✓	✓	✓
Others	Sepiolida	Sepiolidae	<i>Sepiolla atlantica</i>	Atlantic bobtail squid	✓	Low	✓				✓	✓	✓	✓	✓	✓	✓
Others	Veneroidea	Veneridae	<i>Paphia undulata</i>	Short necked clams	✓	Low	✓				✓	✓	✓	✓	✓	✓	✓
Others	Veneroidea	Veneridae	<i>Venerupis philippinarum</i>	Japanese carpet shell	✓	Low	✓				✓	✓	✓	✓	✓	✓	✓
Others	Xiphosurida	Limulidae	<i>Carcinoscorpius rotundicauda</i>	Mangrove horseshoe crab	✓	Low	✓				✓		✓				
Shrimp	Decapoda	Alpheidae	<i>Alpheus sp</i>	Snapping shrimp	✓	Low	✓				✓	✓	✓	✓	✓	✓	✓
Shrimp	Decapoda	Penaeidae	<i>Alcockpenaeopsis hungerfordii</i>	Dog shrimp	✓	High	✓	✓			✓	✓	✓	✓	✓	✓	✓
Shrimp	Decapoda	Penaeidae	<i>Fenneropenaeus merguensis</i>	Chinese white prawn	✓	High	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
Shrimp	Decapoda	Penaeidae	<i>Marsupenaeus japonicus</i>	Japanese king prawn	✓	High	✓				✓	✓	✓	✓	✓	✓	✓
Shrimp	Decapoda	Penaeidae	<i>Metapenaeopsis palmensis</i>	Southern velvet shrimp	✓	High	✓				✓	✓	✓	✓	✓	✓	✓
Shrimp	Decapoda	Penaeidae	<i>Metapenaeus affinis</i>	Jinga shrimp	✓	High	✓	✓			✓	✓	✓	✓	✓	✓	✓
Shrimp	Decapoda	Penaeidae	<i>Metapenaeus joyneri</i>	Shiba shrimp	✓	High	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
Shrimp	Decapoda	Penaeidae	<i>Trachysalambria curvirostris</i>	Southern rough shrimp	✓	High	✓				✓	✓	✓	✓	✓	✓	✓
Shrimp	Decapoda	Penaeidae	<i>Metapenaeus ensis</i>	Greasyback shrimp	✓	High	✓				✓	✓	✓	✓	✓	✓	✓
Shrimp	Decapoda	Penaeidae	<i>Penaeus semisulcatus</i>	Green tiger prawn	✓	High	✓				✓	✓	✓	✓	✓	✓	✓
Shrimp	Decapoda	Solenoceridae	<i>Solenocera crassicornis</i>	Coastal mud shrimp	✓	Medium	✓				✓	✓	✓	✓	✓	✓	✓

***Survey types:**

T: Trawling survey
P: Purse seine survey
G: Gill net survey
H: Handline survey

Commercial Value Category:

High value: > \$45 kg⁻¹
Medium value: \$30 - \$45 kg⁻¹
Low value: < \$30 kg⁻¹

***Survey locations:**

A: occurs within HKIAAA (F3A, F3B, P3A, P3B, P4A, H3)
B: occurs outside HKIAAA (F1A, F1B, F2A, F2B, F4A, F4B, F5A, F5B, F6A, F6B, P1A, P1B, P2A, P2B, P4B, P5A, P5B, H1, H2, H4, H5)
C: occurs within proposed project footprint and the immediately adjacent area
D: occurs in Northern waters of Chek Lap Kok (outside proposed project footprint)
E: occurs in Western waters of Chek Lap Kok (outside proposed project footprint)
F: occurs in Sha Chau and Lung Kwu Chau Marine Park (outside proposed project footprint)
G: occurs around Brothers Islands (outside proposed project footprint)

Ichthyoplankton Survey in June (Abundance)

Fish Family	Station																												Total			
	L1	L1	L2	L2	L3	L3	L4	L4	L5	L5	L6	L6	L7	L7	L8	L8	L9	L9	L10	L10	L11	L11	L12	L12	L13	L13	L14	L14		L15	L15	
Ambassidae	14	150	9	39	25	18	9	52	11	29	52	35	3	29	31	41	103	1	8	5	69	58	33	13	19	49	21	23	11	6	966	
Apogonidae	1	4	3	3	1	0	1	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	3	0	1	1	2	0	0	23	
Blenniidae	45	63	18	35	56	69	155	47	95	85	46	33	17	65	47	76	29	12	36	40	83	59	91	44	31	43	67	51	71	42	1651	
Callionymidae	0	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	10	14	
Carangidae	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	0	0	0	10	11
Clupeidae	2	5	8	5	1	11	0	7	9	27	12	7	0	5	7	10	3	1	1	3	6	45	17	19	27	54	34	34	7	0	367	
Cynoglossidae	1	0	0	1	0	0	0	0	0	1	1	0	0	0	1	2	0	1	0	0	0	0	1	0	1	1	1	1	1	0	14	
Engraulidae	4	14	50	52	7	3	14	9	4	7	9	14	25	15	24	9	13	6	5	7	6	86	38	115	85	315	64	86	5	2	1093	
Gobiidae	9	32	111	70	20	31	37	62	14	33	64	36	13	6	15	25	3	7	4	10	23	137	195	396	141	428	40	126	19	37	2144	
Hemiramphidae	2	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	6	
Leiognathidae	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	4	
Mullidae	0	0	0	0	7	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	9	
Sciaenidae	2	0	1	0	0	1	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	2	3	1	0	6	1	1	0	2	26	
Scorpaenidae	2	1	0	0	0	1	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	2	4	0	1	3	3	0	0	20	
Sillaginidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	3	0	0	0	0	1	0	14	
Syngnathidae	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	
Terapontidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	7	1	8	3	0	0	3	0	1	27	

Fish Post-larvae Survey in June (Abundance)

Fish Family	Station																												Total		
	L1	L1	L2	L2	L3	L3	L4	L4	L5	L5	L6	L6	L7	L7	L8	L8	L9	L9	L10	L10	L11	L11	L12	L12	L13	L13	L14	L14		L15	L15
Apogonidae	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	4	
Blenniidae	1	1	4	2	1	0	2	1	1	2	3	3	2	2	2	3	0	0	1	1	4	0	1	0	0	3	1	1	1	0	43
Clupeidae	0	0	0	0	0	0	1	0	0	2	0	0	2	0	1	0	0	0	1	1	0	2	1	0	1	0	0	1	0	0	13
Cynoglossidae	0	0	0	0	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
Engraulidae	0	1	2	0	2	0	0	0	0	5	1	3	0	1	6	4	1	1	1	0	0	8	5	2	14	10	0	3	1	1	72
Gobiidae	0	1	3	3	0	0	8	3	1	5	2	3	0	0	1	0	1	0	0	0	0	3	11	19	5	2	1	2	3	3	80
Leiognathidae	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	0	0	0	0	0	1
Monacanthidae	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	4
Sciaenidae	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	1	1	0	0	0	3
Scorpaenidae	1	2	1	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	2	0	1	0	0	0	1	0	12
Syngnathidae	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	0	1	0	2

Ichthyoplankton Survey in July (Abundance)

Fish Family	Station																												Total		
	L1	L1	L2	L2	L3	L3	L4	L4	L5	L5	L6	L6	L7	L7	L8	L8	L9	L9	L10	L10	L11	L11	L12	L12	L13	L13	L14	L14		L15	L15
Ambassidae	21	32	0	2	1	4	67	101	14	7	27	11	75	31	179	122	55	122	23	130	20	45	237	50	145	362	69	87	17	88	2144
Apogonidae	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	0	0	2	0	0	0	0	0	1	0	0	0	0	7
Blenniidae	5	4	22	22	26	37	13	26	2	4	22	19	2	12	4	8	26	16	20	61	9	16	11	10	4	18	6	12	2	13	452
Callionymidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
Carangidae	0	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	0	0	0	0	1
Clupeidae	0	0	4	0	2	2	1	2	21	0	0	0	0	0	2	3	1	1	1	3	1	0	0	0	9	8	3	0	1	0	65
Cynoglossidae	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	4	
Engraulidae	0	3	1	5	0	2	0	3	0	6	2	6	8	1	11	21	27	6	6	0	1	10	17	1	18	9	2	4	2	3	175
Gerreidae	0	0	0	0	0	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	1
Gobiidae	3	1	1	4	4	6	0	0	5	4	0	2	4	0	9	9	3	2	8	0	5	1	2	1	7	16	2	2	0	0	101
Sciaenidae	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0	1	0	5	
Scorpaenidae	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	0	0	2	

Fish Post-larvae Survey in July (Abundance)

Fish Family	Station																												Total		
	L1	L1	L2	L2	L3	L3	L4	L4	L5	L5	L6	L6	L7	L7	L8	L8	L9	L9	L10	L10	L11	L11	L12	L12	L13	L13	L14	L14		L15	L15
Ambassidae	6	2	0	2	0	0	3	12	0	3	2	9	11	6	50	70	21	14	12	36	20	4	11	28	4	17	7	2	2	14	368
Blenniidae	4	2	0	0	0	1	0	0	0	2	0	1	0	1	1	0	1	2	0	2	2	4	1	2	2	0	0	0	0	0	28
Clupeidae	2	0	0	4	0	3	1	0	0	0	0	1	0	0	1	0	1	0	1	0	0	0	1	1	4	0	0	0	0	1	21
Cynoglossidae	0	0	0	0	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	1
Engraulidae	3	1	2	8	1	1	0	1	7	9	2	10	1	4	32	3	9	1	4	2	2	3	6	13	3	0	2	1	0	2	133
Gobiidae	0	0	1	2	1	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	1	3	0	1	0	0	0	0	1	0	13
Monacanthidae	0	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	0	1	2
Sciaenidae	0	1	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	0	0	1	3
Scorpaenidae	0	0	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	0	1	1	8
Sphyrnidae	0	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	0	0	1

Appendix 14.3 Annex D Species Recorded in Different Locations in Terms of Abundance and Biomass

Abundance of Different Species in Proposed Project Footprint

Group	Species	Abundance
Others	<i>Temnopleurus toreumaticus</i>	8362
Others	<i>Turritella terebra</i>	5057
Others	<i>Siphonosoma sp</i>	3058
Fish	<i>Johnius belangerii</i>	1717
Fish	<i>Leiognathus brevisrostris</i>	1653
Crab	<i>Charybdis sp</i>	948
Fish	<i>Konosirus punctatus</i>	766
Others	<i>Philine aperta</i>	675
Fish	<i>Nuchequula nuchalis</i>	555
Shrimp	<i>Metapenaeus affinis</i>	310
Fish	<i>Arius maculatus</i>	220
Others	<i>Murex trapa</i>	193
Crab	<i>Charybdis lucifera</i>	190
Fish	<i>Sardinella albella</i>	162
Fish	<i>Plotosus lineatus</i>	137
Fish	<i>Inegocia guttata</i>	134
Fish	<i>Ostorhinchus fasciatus</i>	126
Fish	<i>Pennahia anea</i>	126
Crab	<i>Paradorippe polita</i>	108
Crab	<i>Parthenope sp</i>	101
Fish	<i>Platycephalus indicus</i>	98
Shrimp	<i>Metapenaeus ensis</i>	94
Fish	<i>Thryssa kammalensis</i>	93
Fish	<i>Trypauchen vagina</i>	90
Fish	<i>Vespicola trachinoides</i>	90
Shrimp	<i>Fenneropenaeus merguensis</i>	89
Fish	<i>Trachicephalus uranoscopus</i>	88
Fish	<i>Sebastiscus marmoratus</i>	73
Shrimp	<i>Trachysalambria curvirostris</i>	72
Mantis shrimp	<i>Oratosquilla interrupta</i>	57
Fish	<i>Gerres limbatus</i>	56
Fish	<i>Takifugu oblongus</i>	55
Others	<i>Tegillarca granosa</i>	51
Fish	<i>Polydactylus sextarius</i>	49
Fish	<i>Siganus canaliculatus</i>	47
Fish	<i>Collichthys lucidus</i>	43
Fish	<i>Nematalosa nasus</i>	41
Shrimp	<i>Alcockpenaeopsis hungerfordii</i>	41
Fish	<i>Dendrophysa russelii</i>	39
Crab	<i>Portunus sanguinolentus</i>	39
Fish	<i>Thryssa hamiltonii</i>	36
Others	<i>Hemifusus tuba</i>	34
Others	<i>Perna viridis</i>	27
Fish	<i>Inegocia japonica</i>	27
Fish	<i>Alepes djedaba</i>	26
Crab	<i>Portunus pelagicus</i>	26
Fish	<i>Stolephorus indicus</i>	25
Fish	<i>Cynoglossus macrolepidotus</i>	24
Fish	<i>Valamugil cunnesius</i>	23
Others	<i>Amphioctopus aegina</i>	23
Fish	<i>Sillago sihama</i>	23
Fish	<i>Paracentropogon rubripinnis</i>	23
Fish	<i>Ambassis gymnocephalus</i>	22
Shrimp	<i>Metapenaeopsis palmensis</i>	21
Fish	<i>Terapon jarbua</i>	21
Fish	<i>Nemipterus japonicus</i>	21
Fish	<i>Saurida tumbil</i>	19
Fish	<i>Cynoglossus puncticeps</i>	19
Shrimp	<i>Marsupenaeus japonicus</i>	19
Fish	<i>Epinephelus awoara</i>	19
Fish	<i>Drepane punctata</i>	15
Mantis shrimp	<i>Oratosquilla oratoria</i>	15
Others	<i>Paphia undulata</i>	15
Fish	<i>Solea ovata</i>	14
Crab	<i>Scylla serrata</i>	14
Fish	<i>Pisodonophis boro</i>	13
Shrimp	<i>Metapenaeus joyneri</i>	13
Others	<i>Bufonaria rana</i>	13
Fish	<i>Dasyatis zugei</i>	13
Fish	<i>Dasyatis bennettii</i>	12
Fish	<i>Lagocephalus gloveri</i>	12
Mantis shrimp	<i>Miyakella nepa</i>	12
Fish	<i>Inimicus cuvieri</i>	11
Mantis shrimp	<i>Harpisquilla harpax</i>	11
Fish	<i>Oxyurichthys tentacularis</i>	10
Fish	<i>Arnoglossus tenuis</i>	10
Fish	<i>Scorpaena neglecta</i>	10
Fish	<i>Epinephelus bruneus</i>	9
Fish	<i>Thamnaconus modestus</i>	9
Fish	<i>Evynnis cardinalis</i>	9
Fish	<i>Muraenesox cinereus</i>	9
Fish	<i>Pseudorhombus levisquamis</i>	9
Crab	<i>Calappa philargius</i>	8
Fish	<i>Secutor ruconius</i>	8
Crab	<i>Portunus trituberculatus</i>	7
Shrimp	<i>Solenocera crassicornis</i>	7
Fish	<i>Takifugu poecilonotus</i>	6
Fish	<i>Uroconger lepturus</i>	6
Fish	<i>Trichiurus nanhaiensis</i>	6
Others	<i>Loligo</i>	6

Fish	<i>Callionymus richardsonii</i>	5
Shrimp	<i>Penaeus semisulcatus</i>	5
Fish	<i>Upeneus sulphureus</i>	5
Fish	<i>Halichoeres nigrescens</i>	4
Fish	<i>Takifugu xanthopterus</i>	4
Mantis shrimp	<i>Clorida rotundicauda</i>	4
Others	<i>Sepiella atlantica</i>	4
Crab	<i>Eucrate crenata</i>	3
Others	<i>Sepiella inermis</i>	3
Fish	<i>Butis butis</i>	3
Fish	<i>Parachaeturichthys polynema</i>	3
Crab	<i>Seulocia vittata</i>	3
Others	<i>Pteroeides sparmanni</i>	3
Fish	<i>Otolithes ruber</i>	2
Fish	<i>Acanthopagrus berda</i>	2
Fish	<i>Atherinomorus lacunosus</i>	2
Fish	<i>Amblygaster sirm</i>	2
Fish	<i>Takifugu alboplumbeus</i>	2
Fish	<i>Pelates quadrilineatus</i>	2
Fish	<i>Acentrogobius caninus</i>	2
Fish	<i>Lutjanus russellii</i>	2
Fish	<i>Johnius macrorhynchus</i>	2
Fish	<i>Hyporhamphus dussumieri</i>	2
Fish	<i>Nibeal biflora</i>	2
Fish	<i>Pomadasy kaakan</i>	2
Fish	<i>Terapon theraps</i>	2
Fish	<i>Apogon carinatus</i>	2
Fish	<i>Apogonichthyoidea pseudotaeniatus</i>	2
Fish	<i>Diagramma pictum</i>	2
Fish	<i>Gymnothorax reevesii</i>	2
Mantis shrimp	<i>Dictyosquilla foveolata</i>	2
Fish	<i>Monacanthus chinensis</i>	2
Fish	<i>Epinephelus coioides</i>	1
Fish	<i>Pampus argenteus</i>	1
Fish	<i>Gerres japonicus</i>	1
Fish	<i>Ilisha elongata</i>	1
Fish	<i>Takifugu bimaculatus</i>	1
Fish	<i>Rhizoprionodon acutus</i>	1
Fish	<i>Dactyloptena gilberti</i>	1
Fish	<i>Scatophagus argus</i>	1
Fish	<i>Pagrus major</i>	1
Fish	<i>Johnius dussumieri</i>	1
Others	<i>Venerupis philippinarum</i>	1
Fish	<i>Secutor insidiator</i>	1
Fish	<i>Takifugu niphobles</i>	1
Fish	<i>Acanthopagrus schlegeli</i>	1
Fish	<i>Ilisha melastoma</i>	1
Crab	<i>Charybdis feriatus</i>	1
Fish	<i>Carangoides malabaricus</i>	1
Fish	<i>Myersina filifer</i>	1
Fish	<i>Cynoglossus abbreviatus</i>	1
Fish	<i>Ctenotrypauchen chinensis</i>	1
Fish	<i>Upeneus japonicus</i>	1
Fish	<i>Zebrias zebra</i>	1
Fish	<i>Hapalogenys mucronatus</i>	1
Fish	<i>Aetobatus flagellum</i>	1
Fish	<i>Paramonacanthus sulcatus</i>	1
Fish	<i>Zebrias quagga</i>	1
	Total Abundance	26806
	Total Number of Species	148

Top 5 Dominant Species in Purse Seine, Gill Net and Handline Surveys

Species	Abundance
<i>Konosirus punctatus</i>	739
<i>Sardinella albella</i>	161
<i>Thyssa kammalensis</i>	92
<i>Temnopleurus toreumaticus</i>	72
<i>Thyssa hamiltonii</i>	33

Abundance of Different Species from Different Survey Types

Purse Seine Dry	
Species	Abundance
<i>Konosirus punctatus</i>	692
<i>Sardinella albella</i>	126
<i>Thyssa kammalensis</i>	76
<i>Thyssa hamiltonii</i>	14
<i>Valamugil cunnesius</i>	13
<i>Alepes djedaba</i>	7
<i>Ambassis gymnocephalus</i>	5
<i>Stolephorus indicus</i>	5
<i>Upeneus sulphureus</i>	4
<i>Trichiurus nanhaiensis</i>	3
<i>Terapon jarbua</i>	2
<i>Atherinomorus lacunosus</i>	2
<i>Leiognathus brevirostris</i>	2
<i>Takifugu xanthopterus</i>	2
<i>Amphioctopus aegina</i>	1
<i>Nuclaequula nuchalis</i>	1
<i>Rhizoprionodon acutus</i>	1
<i>Zebrias zebra</i>	1

Purse Seine Wet	
Species	Abundance
<i>Konosirus punctatus</i>	42
<i>Sardinella albella</i>	35
<i>Nematalosa nasus</i>	27
<i>Alepes djedaba</i>	17
<i>Stolephorus indicus</i>	16
<i>Thyssa kammalensis</i>	16
<i>Thyssa hamiltonii</i>	10
<i>Pennahia anea</i>	9
<i>Valamugil cunnesius</i>	7
<i>Ambassis gymnocephalus</i>	6
<i>Secutor ruconius</i>	6
<i>Collichthys lucidus</i>	6
<i>Leiognathus brevirostris</i>	5
<i>Saurida tumbil</i>	4
<i>Charybdis sp</i>	3
<i>Trichiurus nanhaiensis</i>	3
<i>Hyporhamphus dussumieri</i>	2
<i>Ostorhinchus fasciatus</i>	1
<i>Secutor insidiator</i>	1
<i>Johnius dussumieri</i>	1
Others	6

Gill Net Dry

Species	Abundance
<i>Oratosquilla interrupta</i>	9
<i>Charybdis</i> sp	7
<i>Konosirus punctatus</i>	5
<i>Leiognathus brevisrostris</i>	5
<i>Takifugu oblongus</i>	4
<i>Temnopleurus toreumaticus</i>	3
<i>Oratosquilla oratoria</i>	2
<i>Gerres limbatus</i>	2
<i>Pennahia anea</i>	2
<i>Johnius macrorhynchus</i>	2
<i>Nemipterus japonicus</i>	1
<i>Thyssa hamiltonii</i>	1
<i>Dendrophysa russelii</i>	1
<i>Takifugu xanthopterus</i>	1

Hand line Dry

Species	Abundance
<i>Sillago sihama</i>	5
<i>Terapon jarbua</i>	3
<i>Epinephelus awoara</i>	2
<i>Nemipterus japonicus</i>	2
<i>Leiognathus brevisrostris</i>	2
<i>Dendrophysa russelii</i>	1

Trawling Dry

Species	Abundance
<i>Turritella terebra</i>	2925
<i>Temnopleurus toreumaticus</i>	2599
<i>Johnius belangerii</i>	661
<i>Leiognathus brevisrostris</i>	496
<i>Charybdis</i> sp	168
<i>Metapenaeus affinis</i>	107
<i>Paradorippe polita</i>	87
<i>Inegocia guttata</i>	84
<i>Metapenaeus ensis</i>	76
<i>Plotosus lineatus</i>	75
<i>Platycephalus indicus</i>	72
<i>Trypauchen vagina</i>	65
<i>Charybdis lucifera</i>	60
<i>Fenneropenaeus merguensis</i>	54
<i>Trachicephalus uranoscopus</i>	54
<i>Trachysalambria curvirostris</i>	53
<i>Nuquequula nuchalis</i>	49
<i>Arius maculatus</i>	46
<i>Siphonosoma</i> sp	42
<i>Polydactylus sextarius</i>	40
Others	652

Gill Net Wet

Species	Abundance
<i>Temnopleurus toreumaticus</i>	69
<i>Thyssa hamiltonii</i>	8
<i>Leiognathus brevisrostris</i>	3
<i>Arius maculatus</i>	2
<i>Johnius belangerii</i>	2
<i>Nematalosa nasus</i>	2
<i>Polydactylus sextarius</i>	1
<i>Platycephalus indicus</i>	1
<i>Takifugu poecilonotus</i>	1
<i>Drepane punctata</i>	1
<i>Acanthopagrus berda</i>	1

Hand line Wet

Species	Abundance
<i>Ostorhinchus fasciatus</i>	5
<i>Sebastiscus marmoratus</i>	4
<i>Leiognathus brevisrostris</i>	2
<i>Apogonichthyoides pseudotaeniatus</i>	2
<i>Pomadasyd kaakan</i>	2
<i>Dendrophysa russelii</i>	2
<i>Haichoeres nigrescens</i>	2
<i>Lutjanus russelii</i>	2
<i>Butis butis</i>	1
<i>Pisodonophis boro</i>	1
<i>Takifugu poecilonotus</i>	1

Trawling Wet

Species	Abundance
<i>Temnopleurus toreumaticus</i>	5691
<i>Siphonosoma</i> sp	3016
<i>Turritella terebra</i>	2132
<i>Leiognathus brevisrostris</i>	1138
<i>Johnius belangerii</i>	1054
<i>Charybdis</i> sp	770
<i>Philine aperta</i>	675
<i>Nuquequula nuchalis</i>	505
<i>Metapenaeus affinis</i>	203
<i>Murex trapa</i>	186
<i>Arius maculatus</i>	172
<i>Charybdis lucifera</i>	130
<i>Pennahia anea</i>	111
<i>Parthenope</i> sp	88
<i>Ostorhinchus fasciatus</i>	83
<i>Vespicala trachinoides</i>	76
<i>Plotosus lineatus</i>	62
<i>Inegocia guttata</i>	50
<i>Portunus sanguinolentus</i>	39
<i>Fenneropenaeus merguensis</i>	35
Others	770

Yield of Different Species in Proposed Project Footprint

Group	Species	Yield (g)
Others	<i>Ternopleurus toreumaticus</i>	114458.6
Fish	<i>Johnius belangerii</i>	75169.8
Others	<i>Siphonosoma sp</i>	54998.4
Others	<i>Turritella terebra</i>	48133.4
Fish	<i>Konosirus punctatus</i>	39090.2
Crab	<i>Charybdis sp</i>	14712.7
Fish	<i>Arius maculatus</i>	13170.1
Fish	<i>Leiognathus brevirostris</i>	10756.5
Fish	<i>Dasyatis bennettii</i>	6632.3
Others	<i>Philine aperta</i>	6391.8
Others	<i>Hemifusus tuba</i>	5165.1
Crab	<i>Portunus pelagicus</i>	4287.1
Crab	<i>Charybdis lucifera</i>	4188.5
Others	<i>Tegillarca granosa</i>	3965.5
Fish	<i>Plotosus lineatus</i>	3611.5
Fish	<i>Sebastiscus marmoratus</i>	3545.3
Fish	<i>Dasyatis zugei</i>	3427.1
Fish	<i>Takifugu oblongus</i>	3302.1
Fish	<i>Platycephalus indicus</i>	3265.4
Crab	<i>Scylla serrata</i>	3074.6
Fish	<i>Sardinella albella</i>	2343.6
Fish	<i>Nuchequula nuchalis</i>	2259.8
Fish	<i>Aetobatus flagellum</i>	2150
Fish	<i>Pisodonophis boro</i>	2047.5
Fish	<i>Saurida tumbil</i>	2038.1
Fish	<i>Nematalosa nasus</i>	1994.1
Others	<i>Murex trapa</i>	1907.3
Crab	<i>Portunus trituberculatus</i>	1891.7
Fish	<i>Muraenesox cinereus</i>	1846.9
Shrimp	<i>Fenneropenaeus merguensis</i>	1826.1
Fish	<i>Drepane punctata</i>	1778.3
Shrimp	<i>Metapenaeus affinis</i>	1743.7
Fish	<i>Inegocia guttata</i>	1723.8
Fish	<i>Dendrophysa russelii</i>	1687.1
Crab	<i>Parthenope sp</i>	1680.3
Others	<i>Perna viridis</i>	1648.6
Others	<i>Amphioctopus aegina</i>	1440.9
Fish	<i>Epinephelus awoara</i>	1324.1
Fish	<i>Pennahia anea</i>	1278.4
Fish	<i>Gerres limbatus</i>	1163.6
Fish	<i>Ostorhinchus fasciatus</i>	1098.9
Fish	<i>Polydactylus sextarius</i>	1044.2
Fish	<i>Sillago sihama</i>	1015.1
Fish	<i>Trachicephalus uranoscopus</i>	1003.4
Fish	<i>Siganus canaliculatus</i>	1001.5
Fish	<i>Rhizoprionodon acutus</i>	985
Shrimp	<i>Metapenaeus ensis</i>	960.3
Fish	<i>Inimicus cuvieri</i>	949.9
Fish	<i>Terapon jarbua</i>	916.1
Fish	<i>Trypauchen vagina</i>	819.7
Fish	<i>Acanthopagrus schlegelii</i>	790
Mantis shrimp	<i>Oratosquilla interrupta</i>	789
Fish	<i>Thryssa hamiltonii</i>	766
Fish	<i>Epinephelus coioides</i>	760
Fish	<i>Cynoglossus macrolepidotus</i>	757.7
Crab	<i>Paradorippe polita</i>	694.8
Fish	<i>Epinephelus bruneus</i>	690.6
Fish	<i>Takifugu poecilonotus</i>	685.9
Fish	<i>Thryssa kammalensis</i>	675
Fish	<i>Lagocephalus gloveri</i>	634.7
Fish	<i>Valamugil cunnesius</i>	609.9
Fish	<i>Gymnothorax reevesii</i>	607.6
Fish	<i>Takifugu xanthopterus</i>	567.3
Fish	<i>Takifugu bimaculatus</i>	455
Fish	<i>Vespicula trachinoides</i>	452.9
Fish	<i>Acanthopagrus berda</i>	436.8
Crab	<i>Portunus sanguinolentus</i>	420.8
Fish	<i>Nemipterus japonicus</i>	379
Fish	<i>Nibea albiflora</i>	377.6
Fish	<i>Collichthys lucidus</i>	373.9
Crab	<i>Calappa philargius</i>	357.2
Fish	<i>Lutjanus russellii</i>	324
Fish	<i>Halichoeres nigrescens</i>	307.2
Fish	<i>Otolithes ruber</i>	306
Others	<i>Bufonaria rana</i>	296.4
Fish	<i>Inegocia japonica</i>	295.6
Fish	<i>Paracentropogon rubripinnis</i>	291.7
Fish	<i>Alepes djedaba</i>	288.1
Mantis shrimp	<i>Oratosquilla oratoria</i>	271.5
Fish	<i>Scorpaena neglecta</i>	236.4
Mantis shrimp	<i>Harpisquilla harpax</i>	235.7
Shrimp	<i>Alcockpenaeopsis hungerfordii</i>	211.9
Fish	<i>Cynoglossus puncticeps</i>	206
Shrimp	<i>Trachysalambria curvirostris</i>	203.3
Shrimp	<i>Marsupenaeus japonicus</i>	199.2
Fish	<i>Takifugu niphobles</i>	196.6
Fish	<i>Pampus argenteus</i>	190.6
Fish	<i>Pseudorhombus levisquamis</i>	156.2
Fish	<i>Trichiurus nanhaiensis</i>	153.8
Fish	<i>Monacanthus chinensis</i>	144
Fish	<i>Scatophagus argus</i>	135.3
Fish	<i>Johnius macrorhynchus</i>	134.3
Mantis shrimp	<i>Miyakella nepa</i>	132.6
Fish	<i>Stolephorus indicus</i>	126.6
Fish	<i>Solea ovata</i>	112.4
Shrimp	<i>Metapenaeus joyneri</i>	108.6
Fish	<i>Ilisha elongata</i>	105.9
Others	<i>Loligo</i>	104
Others	<i>Sepiella inermis</i>	97.7
Fish	<i>Takifugu alboplumbeus</i>	89.7
Fish	<i>Arnoglossus tenuis</i>	89.4
Crab	<i>Charybdis feriatus</i>	84.7
Fish	<i>Gerres japonicus</i>	84.6

Fish	<i>Diagramma pictum</i>	83.5
Fish	<i>Apogonichthyoides pseudotaeniatus</i>	82.9
Shrimp	<i>Penaeus semisulcatus</i>	80.2
Fish	<i>Pomadasys kaakan</i>	74.5
Fish	<i>Evynnis cardinalis</i>	73.5
Fish	<i>Ambassis gymnocephalus</i>	73.5
Fish	<i>Pagrus major</i>	67.8
Fish	<i>Oxyurichthys tentacularis</i>	63.6
Fish	<i>Upeneus sulphureus</i>	59.1
Fish	<i>Uroconger lepturus</i>	55.5
Fish	<i>Johnius dussumieri</i>	53.7
Crab	<i>Eucreate crenata</i>	50.1
Fish	<i>Thamnaconus modestus</i>	46.2
Fish	<i>Hapalogenys mucronatus</i>	44
Fish	<i>Upeneus japonicus</i>	42.8
Shrimp	<i>Metapenaeopsis palmensis</i>	40.7
Fish	<i>Callionymus richardsonii</i>	36.2
Others	<i>Paphia undulata</i>	35.6
Fish	<i>Secutor ruconius</i>	34.3
Fish	<i>Amblygaster sirm</i>	33.5
Fish	<i>Acentrogobius caninus</i>	32.8
Others	<i>Sepiolo atlantica</i>	31.8
Others	<i>Pteroeides sparmanni</i>	30.3
Fish	<i>Terapon theraps</i>	27
Fish	<i>Parachaeturichthys polynema</i>	23.6
Fish	<i>Dactyloptena gilberti</i>	20.4
Fish	<i>Pelates quadrilineatus</i>	20.3
Shrimp	<i>Solenocera crassicornis</i>	20
Fish	<i>Butis butis</i>	20
Mantis shrimp	<i>Clorida rotundicauda</i>	19.2
Fish	<i>Ilisha melastoma</i>	18.1
Fish	<i>Hyporhamphus dussumieri</i>	15.9
Fish	<i>Atherinomorus lacunosus</i>	15
Fish	<i>Myersina filifer</i>	13.5
Fish	<i>Paramonacanthus sulcatus</i>	13.4
Others	<i>Venerupis philippinarum</i>	13.3
Crab	<i>Seulocia vittata</i>	10.7
Fish	<i>Zebrias quagga</i>	10.6
Fish	<i>Secutor insidiator</i>	10.2
Mantis shrimp	<i>Dictyosquilla foveolata</i>	10
Fish	<i>Cynoglossus abbreviatus</i>	5.8
Fish	<i>Carangoides malabaricus</i>	4.7
Fish	<i>Ctenotrypauchen chinensis</i>	3.2
Fish	<i>Apogon carinatus</i>	2.8
Fish	<i>Zebrias zebra</i>	2
	Total Yield	486641.5

Top 5 Dominant Species in Purse Seine, Gill Net and Handline Surveys

Species	Yield (g)
<i>Konosirus punctatus</i>	37402.8
<i>Sardinella albella</i>	2338.8
<i>Nematalosa nasus</i>	1629.8
<i>Rhizoprionodon acutus</i>	985
<i>Drepane punctata</i>	912

Yield of Different Species from Different Survey Types

Purse Seine Dry

Species	Yield (g)
<i>Konosirus punctatus</i>	35665.7
<i>Sardinella albella</i>	2135.4
<i>Rhizoprionodon acutus</i>	985
<i>Thyssa kammalensis</i>	611.3
<i>Valamugil cunnesius</i>	382.3
<i>Takifugu xanthopterus</i>	355.5
<i>Thyssa hamiltonii</i>	183.6
<i>Alepes djedaba</i>	172.5
<i>Trichiurus nanhaiensis</i>	131.2
<i>Terapon jarbua</i>	101
<i>Upeneus sulphureus</i>	54.9
<i>Amphioctopus aegina</i>	32.7
<i>Stolephorus indicus</i>	30.5
<i>Ambassis gymnocephalus</i>	25.3
<i>Atherinomorus lacunosus</i>	15
<i>Nuquequula nuchalis</i>	13.3
<i>Leiognathus brevirostris</i>	8.8
<i>Zebrias zebra</i>	2

Purse Seine Wet

Species	Yield (g)
<i>Nematalosa nasus</i>	1494.9
<i>Konosirus punctatus</i>	1336.9
<i>Sardinella albella</i>	203.4
<i>Pampus argenteus</i>	190.6
<i>Thyssa hamiltonii</i>	178.7
<i>Ilisha elongata</i>	105.9
<i>Portunus trituberculatus</i>	101
<i>Saurida tumbil</i>	98.7
<i>Valamugil cunnesius</i>	95.9
<i>Alepes djedaba</i>	94
<i>Pennahia anea</i>	73.5
<i>Stolephorus indicus</i>	69
<i>Thyssa kammalensis</i>	59.4
<i>Charybdis sp</i>	55
<i>Johnius dussumieri</i>	53.7
<i>Leiognathus brevirostris</i>	44.4
<i>Dendrophysa russelii</i>	32
<i>Trichiurus nanhaiensis</i>	22.6
<i>Collichthys lucidus</i>	22.3
<i>Ambassis gymnocephalus</i>	17.4
Others	45.8

Gill Net Dry

Species	Yield (g)
<i>Konosirus punctatus</i>	400.2
<i>Takifugu xanthopterus</i>	175.5
<i>Takifugu oblongus</i>	173.5
<i>Pennahia anea</i>	168.5
<i>Oratosquilla interrupta</i>	148.3
<i>Charybdis sp</i>	147.5
<i>Johnius macrorhynchus</i>	134.3
<i>Leiognathus brevisrostris</i>	81.7
<i>Gerres limbatus</i>	63.1
<i>Thyssa hamiltonii</i>	53.8
<i>Oratosquilla oratoria</i>	48.3
<i>Nemipterus japonicus</i>	42
<i>Temnopleurus toreumaticus</i>	38.5
<i>Dendrophysa russelii</i>	24.4

Hand line Dry

Species	Yield (g)
<i>Sillago sihama</i>	234.4
<i>Terapon jarbua</i>	90.5
<i>Epinephelus awoara</i>	79.6
<i>Nemipterus japonicus</i>	51.1
<i>Dendrophysa russelii</i>	48.6
<i>Leiognathus brevisrostris</i>	28.1

Trawling Dry

Species	Yield (g)
<i>Johnius belangerii</i>	31503.6
<i>Temnopleurus toreumaticus</i>	31268.4
<i>Turritella terebra</i>	23237.1
<i>Arius maculatus</i>	3875.9
<i>Leiognathus brevisrostris</i>	3257
<i>Portunus pelagicus</i>	3118
<i>Hemifusus tuba</i>	2573
<i>Takifugu oblongus</i>	2521.7
<i>Charybdis sp</i>	2426
<i>Plotosus lineatus</i>	2002.6
<i>Pisodonophis boro</i>	1997.9
<i>Tegillarca granosa</i>	1958.7
<i>Scylla serrata</i>	1948.4
<i>Sebastiscus marmoratus</i>	1884
<i>Dasyatis zugei</i>	1830
<i>Saurida tumbil</i>	1775.9
<i>Platycephalus indicus</i>	1564
<i>Portunus trituberculatus</i>	1509.6
<i>Fenneropenaeus merguensis</i>	1507.5
<i>Amphioctopus aegina</i>	1343
Others	23104.4

Gill Net Wet

Species	Yield (g)
<i>Drepane punctata</i>	912
<i>Temnopleurus toreumaticus</i>	603
<i>Arius maculatus</i>	361.2
<i>Thyssa hamiltonii</i>	303.5
<i>Platycephalus indicus</i>	145.2
<i>Nematalosa nasus</i>	134.9
<i>Johnius belangerii</i>	101.7
<i>Acanthopagrus berda</i>	96.8
<i>Polydactylus sextarius</i>	85.6
<i>Leiognathus brevisrostris</i>	32.8
<i>Takifugu poecilonotus</i>	31.5

Hand line Wet

Species	Yield (g)
<i>Lutjanus russelii</i>	241
<i>Takifugu poecilonotus</i>	149.7
<i>Halichoeres nigrescens</i>	141.1
<i>Sebastiscus marmoratus</i>	115.7
<i>Ostorhinchus fasciatus</i>	82.9
<i>Apogonichthyoides pseudotaeniatus</i>	74.5
<i>Pomadasyd kaakan</i>	68.9
<i>Dendrophysa russelii</i>	49.6
<i>Pisodonophis boro</i>	24
<i>Leiognathus brevisrostris</i>	8.5

Trawling Wet

Species	Yield (g)
<i>Temnopleurus toreumaticus</i>	82548.7
<i>Siphonosoma sp</i>	53954.4
<i>Johnius belangerii</i>	43564.5
<i>Turritella terebra</i>	24896.3
<i>Charybdis sp</i>	12084.2
<i>Arius maculatus</i>	8933
<i>Leiognathus brevisrostris</i>	7279.7
<i>Philine aperta</i>	6391.8
<i>Dasyatis bennettii</i>	5470.7
<i>Charybdis lucifera</i>	2974.4
<i>Hemifusus tuba</i>	2592.1
<i>Tegillarca granosa</i>	2006.8
<i>Murex trapa</i>	1842.9
<i>Nuchequula nuchalis</i>	1750.9
<i>Plotosus lineatus</i>	1608.9
<i>Dasyatis zugei</i>	1597.1
<i>Platycephalus indicus</i>	1556.2
<i>Sebastiscus marmoratus</i>	1520.2
<i>Konosirus punctatus</i>	1496
<i>Parthenope sp</i>	1481.9
Others	21113

Abundance of Different Species in North Chek Lap Kok

Group	Species	Abundance
Others	<i>Turritella terebra</i>	3645
Fish	<i>Thryssa kammalensis</i>	2679
Crab	<i>Charybdis sp</i>	1449
Fish	<i>Leiognathus brevisrostris</i>	1101
Others	<i>Philine aperta</i>	614
Others	<i>Temnopleurus toreumaticus</i> ☒	523
Fish	<i>Sardinella albella</i>	521
Others	<i>Siphonosoma sp</i>	407
Shrimp	<i>Metapenaeus affinis</i>	291
Shrimp	<i>Alcockpenaeopsis hungerfordii</i>	290
Others	<i>Murex trapa</i>	212
Mantis shrimp	<i>Oratosquilla interrupta</i>	136
Fish	<i>Nucleola nuchalis</i>	127
Fish	<i>Johnius belangerii</i>	126
Shrimp	<i>Solenocera crassicornis</i>	98
Fish	<i>Ostorhinchus fasciatus</i>	85
Shrimp	<i>Fenneropenaeus merguensis</i>	81
Shrimp	<i>Metapenaeus ensis</i>	77
Fish	<i>Trypauchen vagina</i>	75
Crab	<i>Charybdis lucifera</i>	72
Fish	<i>Collichthys lucidus</i>	66
Fish	<i>Trachicephalus uranoscopus</i>	58
Fish	<i>Alepes djedaba</i>	55
Fish	<i>Vespicola trachinoides</i>	53
Fish	<i>Inegocia japonica</i>	47
Fish	<i>Nematalosa nasus</i>	46
Fish	<i>Polydactylus sextarius</i>	43
Fish	<i>Platycephalus indicus</i>	36
Fish	<i>Dendrophysa russelii</i>	35
Fish	<i>Thryssa hamiltonii</i>	33
Fish	<i>Pennahia anea</i>	31
Fish	<i>Cynoglossus macrolepidotus</i>	31
Fish	<i>Gerres limbatus</i>	28
Crab	<i>Charybdis feriatus</i>	26
Mantis shrimp	<i>Oratosquilla oratoria</i>	26
Others	<i>Pteroeides sparmanni</i>	24
Fish	<i>Valamugil cunnesius</i>	24
Mantis shrimp	<i>Harpisquilla harpax</i>	23
Fish	<i>Lagocephalus gloveri</i>	22
Fish	<i>Trichiurus nanhaiensis</i>	22
Fish	<i>Ilisha elongata</i>	21
Fish	<i>Nemipterus japonicus</i>	21
Fish	<i>Stolephorus indicus</i>	19
Crab	<i>Paradorippe polita</i>	19
Fish	<i>Johnius macrorhynchus</i>	19
Fish	<i>Arnoglossus tenuis</i>	18
Fish	<i>Oxyurichthys tentacularis</i>	18
Shrimp	<i>Metapenaeopsis palmensis</i>	15
Fish	<i>Parachaeturichthys polynema</i>	14
Mantis shrimp	<i>Dictyosquilla foveolata</i>	14
Crab	<i>Parthenope sp</i>	14
Fish	<i>Solea ovata</i>	13
Fish	<i>Acentrogobius caninus</i>	11
Crab	<i>Portunus trituberculatus</i>	11
Fish	<i>Konosirus punctatus</i>	10
Fish	<i>Dasyatis zugei</i>	10
Crab	<i>Portunus pelagicus</i>	10
Others	<i>Tegillarca granosa</i>	9
Fish	<i>Uroconger lepturus</i>	9
Shrimp	<i>Trachysalambria curvirostris</i>	9
Shrimp	<i>Alpheus sp</i>	8
Fish	<i>Hyporhamphus dussumieri</i>	8
Others	<i>Paphia undulata</i>	8
Fish	<i>Inimicus cuvieri</i>	8
Fish	<i>Siganus canaliculatus</i>	7
Shrimp	<i>Metapenaeus joyneri</i>	7
Fish	<i>Rhizoprionodon acutus</i>	7
Fish	<i>Saurida tumbil</i>	7
Shrimp	<i>Marsupenaeus japonicus</i>	7
Fish	<i>Sillago sihama</i>	6
Crab	<i>Eucreta crenata</i>	6
Fish	<i>Nibea albiflora</i>	6
Fish	<i>Sebastiscus marmoratus</i>	6
Fish	<i>Ambassis gymnocephalus</i>	6
Others	<i>Amphioctopus aegina</i>	6
Others	<i>Loligo</i>	6
Fish	<i>Ctenotrypauchen chinensis</i>	5
Crab	<i>Scylla serrata</i>	5
Crab	<i>Portunus sanguinolentus</i>	5
Fish	<i>Epinephelus awoara</i>	5
Fish	<i>Upeneus sulphureus</i>	4
Fish	<i>Epinephelus merra</i>	4
Fish	<i>Pampus argenteus</i>	4
Fish	<i>Apogon carinatus</i>	4
Fish	<i>Callionymus richardsonii</i>	3
Fish	<i>Epinephelus bruneus</i>	3
Others	<i>Hemifusus tuba</i>	3
Mantis shrimp	<i>Miyakella nepa</i>	3

Fish	<i>Cynoglossus abbreviatus</i>	3
Fish	<i>Dasyatis bennettii</i>	3
Others	<i>Bufo rana</i>	3
Fish	<i>Inegocia guttata</i>	3
Fish	<i>Plotosus lineatus</i>	3
Fish	<i>Arius maculatus</i>	3
Fish	<i>Psenopsis anomala</i>	3
Crab	<i>Seulocia vittata</i>	2
Fish	<i>Scatophagus argus</i>	2
Fish	<i>Thamnaconus modestus</i>	2
Fish	<i>Evynnis cardinalis</i>	2
Others	<i>Sepiola atlantica</i>	2
Fish	<i>Lutjanus johnii</i>	2
Fish	<i>Takifugu oblongus</i>	2
Shrimp	<i>Penaeus semisulcatus</i>	2
Fish	<i>Drepane punctata</i>	2
Crab	<i>Calappa philargius</i>	2
Fish	<i>Butis butis</i>	1
Fish	<i>Terapon jarbua</i>	1
Fish	<i>Eleutheronema tetradactylum</i>	1
Fish	<i>Pisodonophis boro</i>	1
Fish	<i>Oreochromis mossambicus</i>	1
Others	<i>Carcinoscorpius rotundicauda</i>	1
Fish	<i>Cynoglossus puncticeps</i>	1
Fish	<i>Secutor ruconius</i>	1
Crab	<i>Leucosia anatum</i>	1
Others	<i>Sepia andreana</i>	1
Others	<i>Perna viridis</i>	1
Fish	<i>Atherinomorus lacunosus</i>	1
Fish	<i>Chaeturichthys stigmatias</i>	1
Fish	<i>Scomberoides lysan</i>	1
Fish	<i>Scomberomorus commerson</i>	1
Fish	<i>Gymnothorax reevesii</i>	1
	Total Yield	13836
	Total Number of Species	121

Top 5 Dominant Species in Purse Seine, Gill Net and Handline Surveys

Species	Abundance
<i>Thryssa kammalensis</i>	2661
<i>Sardinella albella</i>	513
<i>Temnopleurus toreumaticus</i>	145
<i>Leiognathus brevirostris</i>	66
<i>Alepes djedaba</i>	53

Abundance of Different Species from Different Survey Types

Purse Seine Dry

Species	Abundance
<i>Thryssa kammalensis</i>	2637
<i>Sardinella albella</i>	260
<i>Leiognathus brevirostris</i>	36
<i>Alepes djedaba</i>	34
<i>Collichthys lucidus</i>	21
<i>Nematalosa nasus</i>	19
<i>Valamugil cunnesius</i>	12
<i>Thryssa hamiltonii</i>	11
<i>Lagocephalus gloveri</i>	10
<i>Pennahia anea</i>	5
<i>Ilisha elongata</i>	5
<i>Metapenaeus joyneri</i>	3
<i>Rhizoprionodon acutus</i>	2
<i>Psenopsis anomala</i>	2
<i>Upeneus sulphureus</i>	2
<i>Pampus argenteus</i>	2
<i>Polydactylus sextarius</i>	1
<i>Trichiurus nanhaiensis</i>	1
<i>Ambassis gymnocephalus</i>	1
<i>Loligo</i>	1
Others	4

Purse Seine Wet

Species	Abundance
<i>Sardinella albella</i>	253
<i>Thryssa kammalensis</i>	24
<i>Nematalosa nasus</i>	23
<i>Thryssa hamiltonii</i>	21
<i>Trichiurus nanhaiensis</i>	21
<i>Alepes djedaba</i>	19
<i>Ilisha elongata</i>	16
<i>Stolephorus indicus</i>	14
<i>Collichthys lucidus</i>	12
<i>Konosirus punctatus</i>	10
<i>Valamugil cunnesius</i>	9
<i>Hyporhamphus dussumieri</i>	8
<i>Ambassis gymnocephalus</i>	5
<i>Leiognathus brevirostris</i>	5
<i>Charybdis sp</i>	5
<i>Loligo</i>	3
<i>Rhizoprionodon acutus</i>	2
<i>Lagocephalus gloveri</i>	2
<i>Atherinomorus lacunosus</i>	1
<i>Paradorippe polita</i>	1
Others	3

Gill Net Dry

Species	Abundance
<i>Temnopleurus toreumaticus</i>	42
<i>Leiognathus brevirostris</i>	18
<i>Charybdis sp</i>	11
<i>Oratosquilla interrupta</i>	5
<i>Dendrophysa russelii</i>	3
<i>Charybdis lucifera</i>	2
<i>Gerres limbatus</i>	2
<i>Takifugu oblongus</i>	1
<i>Saurida tumbil</i>	1
<i>Johnius belangerii</i>	1
<i>Solea ovata</i>	1

Gill Net Wet

Species	Abundance
<i>Temnopleurus toreumaticus</i>	103
<i>Charybdis sp</i>	34
<i>Johnius macrorhynchus</i>	11
<i>Johnius belangerii</i>	10
<i>Parthenope sp</i>	2
<i>Dendrophysa russelii</i>	2
<i>Upeneus sulphureus</i>	2
<i>Harpisquilla harpax</i>	2
<i>Nematalosa nasus</i>	2
<i>Platycephalus indicus</i>	1
<i>Saurida tumbil</i>	1
<i>Portunus sanguinolentus</i>	1
<i>Arius maculatus</i>	1
<i>Leiognathus brevirostris</i>	1
<i>Murex trapa</i>	1

Hand line Dry

Species	Abundance
<i>Johnius belangerii</i>	7
<i>Johnius macrorhynchus</i>	6
<i>Dendrophysa russelii</i>	4
<i>Ostorhinchus fasciatus</i>	3
<i>Rhizoprionodon acutus</i>	3
<i>Leiognathus brevisrostris</i>	3

Trawling Dry

Species	Abundance
<i>Turritella terebra</i>	1994
<i>Leiognathus brevisrostris</i>	547
<i>Charybdis sp</i>	448
<i>Alcockpenaeopsis hungerfordii</i>	102
<i>Temnopleurus toreumaticus</i>	76
<i>Solenocera crassicornis</i>	66
<i>Metapenaeus affinis</i>	56
<i>Johnius belangerii</i>	46
<i>Trypauchen vagina</i>	43
<i>Metapenaeus ensis</i>	41
<i>Oratosquilla interrupta</i>	39
<i>Charybdis lucifera</i>	34
<i>Polydactylus sextarius</i>	28
<i>Nuchequula nuchalis</i>	26
<i>Platycephalus indicus</i>	25
<i>Trachicephalus uranoscopus</i>	23
<i>Amoglossus tenuis</i>	16
<i>Cynoglossus macrolepidotus</i>	16
<i>Inegocia japonica</i>	16
<i>Charybdis feriatus</i>	15
Others	295

Hand line Wet

Species	Abundance
<i>Leiognathus brevisrostris</i>	3
<i>Dendrophysa russelii</i>	2
<i>Sillago sihama</i>	2
<i>Gerres limbatus</i>	2
<i>Takifugu oblongus</i>	1
<i>Nemipterus japonicus</i>	1
<i>Johnius belangerii</i>	1

Trawling Wet

Species	Abundance
<i>Turritella terebra</i>	1651
<i>Charybdis sp</i>	951
<i>Philine aperta</i>	614
<i>Leiognathus brevisrostris</i>	488
<i>Siphonosoma sp</i>	393
<i>Temnopleurus toreumaticus</i>	302
<i>Metapenaeus affinis</i>	235
<i>Murex trapa</i>	201
<i>Alcockpenaeopsis hungerfordii</i>	188
<i>Nuchequula nuchalis</i>	100
<i>Oratosquilla interrupta</i>	92
<i>Ostorhinchus fasciatus</i>	70
<i>Fenneropenaeus merguensis</i>	69
<i>Johnius belangerii</i>	61
<i>Vespicola trachinoides</i>	53
<i>Metapenaeus ensis</i>	36
<i>Charybdis lucifera</i>	36
<i>Trachicephalus uranoscopus</i>	35
<i>Solenocera crassicornis</i>	32
<i>Collichthys lucidus</i>	32
Others	420

Yield of Different Species in North Chek Lap Kok

Group	Species	Yield (g)
Others	<i>Turritella terebra</i>	32745.5
Crab	<i>Charybdis</i> sp	26245.4
Fish	<i>Thryssa kammalensis</i>	20216.6
Fish	<i>Leiognathus brevirostris</i>	9622
Others	<i>Siphonosoma</i> sp	9378
Others	<i>Temnopleurus toreumaticus</i>	7468.3
Fish	<i>Sardinella albella</i>	7405.6
Fish	<i>Johnius belangerii</i>	6430.1
Others	<i>Philine aperta</i>	5100.6
Fish	<i>Nematalosa nasus</i>	3354.3
Fish	<i>Rhizoprionodon acutus</i>	3301.1
Crab	<i>Portunus trituberculatus</i>	2920.4
Crab	<i>Charybdis lucifera</i>	2899.2
Mantis shrimp	<i>Oratosquilla interrupta</i>	2505.9
Fish	<i>Dasyatis zugei</i>	2119.5
Shrimp	<i>Metapenaeus affinis</i>	2058.5
Others	<i>Murex trapa</i>	1860.5
Fish	<i>Ilisha elongata</i>	1782.9
Shrimp	<i>Alcockpenaeopsis hungerfordii</i>	1693.9
Crab	<i>Charybdis feriatius</i>	1280.6
Fish	<i>Lagocephalus gloveri</i>	1279.1
Others	<i>Tegillarca granosa</i>	1228.3
Fish	<i>Platycephalus indicus</i>	1191.6
Mantis shrimp	<i>Harpisquilla harpax</i>	1181.1
Crab	<i>Portunus pelagicus</i>	1129.8
Fish	<i>Johnius macrorhynchus</i>	1112.2
Shrimp	<i>Fenneropenaeus merguensis</i>	1089.1
Crab	<i>Scylla serrata</i>	1084.7
Fish	<i>Cynoglossus macrolepidotus</i>	1083.4
Fish	<i>Inegocia japonica</i>	1022
Fish	<i>Nuchequula nuchalis</i>	972.2
Fish	<i>Collichthys lucidus</i>	961.8
Fish	<i>Dendrophysa russelii</i>	907.2
Fish	<i>Inimicus cuvieri</i>	906.1
Others	<i>Sepia andreana</i>	870
Shrimp	<i>Metapenaeus ensis</i>	835.7
Fish	<i>Polydactylus sextarius</i>	815.6
Fish	<i>Trypauchen vagina</i>	733.3
Fish	<i>Nibea albiflora</i>	726.4
Fish	<i>Saurida tumbil</i>	719.8
Fish	<i>Trachicephalus uranoscopus</i>	682.9
Fish	<i>Gerres limbatus</i>	639.3
Fish	<i>Thryssa hamiltonii</i>	605.2
Fish	<i>Valamugil cunnesius</i>	580.4
Fish	<i>Konosirus punctatus</i>	579.4
Fish	<i>Trichiurus nanhaiensis</i>	575.7
Fish	<i>Pennahia anea</i>	567.7
Fish	<i>Epinephelus bruneus</i>	558
Fish	<i>Epinephelus awoara</i>	549.6
Others	<i>Hemifusus tuba</i>	501
Fish	<i>Scatophagus argus</i>	489.7
Fish	<i>Alepes djedaba</i>	479
Others	<i>Amphioctopus aegina</i>	479
Others	<i>Pteroeides sparmanni</i>	478.4
Others	<i>Carcinoscorpius rotundicauda</i>	425
Fish	<i>Nemipterus japonicus</i>	422.2
Fish	<i>Ostorhinchus fasciatus</i>	393.9
Fish	<i>Gymnothorax reevesii</i>	393
Mantis shrimp	<i>Oratosquilla oratoria</i>	382.6
Fish	<i>Pampus argenteus</i>	319.5
Fish	<i>Sebastiscus marmoratus</i>	300
Fish	<i>Dasyatis bennettii</i>	291.3
Shrimp	<i>Solenocera crassicornis</i>	284.7
Fish	<i>Vespicola trachinoides</i>	279.9
Fish	<i>Arius maculatus</i>	277.3
Fish	<i>Pisodonophis boro</i>	252.9
Crab	<i>Parthenope</i> sp	230.8
Fish	<i>Sillago sihama</i>	228.7
Fish	<i>Cynoglossus abbreviatus</i>	217.9
Mantis shrimp	<i>Dictyosquilla foveolata</i>	202
Crab	<i>Calappa philargius</i>	196.6
Fish	<i>Epinephelus merra</i>	170.9
Fish	<i>Acentrogobius caninus</i>	164.9
Fish	<i>Psenopsis anomala</i>	142.4
Fish	<i>Uroconger lepturus</i>	139.6
Fish	<i>Eleutheronema tetradactylum</i>	132
Fish	<i>Siganus canaliculatus</i>	122.4
Fish	<i>Scomberomorus commerson</i>	122.3
Crab	<i>Paradorippe polita</i>	121.4
Fish	<i>Plotosus lineatus</i>	120.7
Fish	<i>Solea ovata</i>	120.1
Crab	<i>Portunus sanguinolentus</i>	112.8
Fish	<i>Oxyurichthys tentacularis</i>	111.6
Fish	<i>Arnoglossus tenuis</i>	111
Fish	<i>Parachaeturichthys polynema</i>	107.6
Fish	<i>Stolephorus indicus</i>	103
Fish	<i>Takifugu oblongus</i>	96.1
Others	<i>Bufonaria rana</i>	93.5
Crab	<i>Eucreta crenata</i>	91.7
Shrimp	<i>Marsupenaeus japonicus</i>	74.9
Shrimp	<i>Metapenaeus joyneri</i>	56
Fish	<i>Upeneus sulphureus</i>	53.4
Fish	<i>Drepane punctata</i>	51.9
Shrimp	<i>Metapenaeopsis palmensis</i>	48.8
Fish	<i>Terapon jarbua</i>	48.7
Others	<i>Perna viridis</i>	47.5
Others	<i>Loligo</i>	42.9
Fish	<i>Lutjanus johnii</i>	37.6
Shrimp	<i>Alpheus</i> sp	32.2
Shrimp	<i>Trachysalambria curvirostris</i>	32.2
Mantis shrimp	<i>Miyakella nepa</i>	31.1
Others	<i>Paphia undulata</i>	30.8
Fish	<i>Hyporhamphus dussumieri</i>	29.1
Fish	<i>Inegocia guttata</i>	27.3
Others	<i>Sepiola atlantica</i>	26.7
Fish	<i>Callionymus richardsonii</i>	24.1
Fish	<i>Ctenotrypauchen chinensis</i>	23.3
Fish	<i>Scomberoides lysan</i>	20.5

Shrimp	<i>Penaeus semisulcatus</i>	19
Fish	<i>Ambassis gymnocephalus</i>	17.1
Fish	<i>Apogon carinatus</i>	13.6
Fish	<i>Evynnis cardinalis</i>	11.7
Fish	<i>Thamnaconus modestus</i>	11.4
Fish	<i>Cynoglossus puncticeps</i>	10.3
Fish	<i>Chaeturichthys stigmatias</i>	10
Crab	<i>Seulocia vittata</i>	7.5
Fish	<i>Atherinomorus lacunosus</i>	6.2
Crab	<i>Leucosia anatum</i>	6.1
Fish	<i>Oreochromis mossambicus</i>	6
Fish	<i>Butis butis</i>	4.6
	<i>Secutor ruconius</i>	2.5
	Total Yield	186150.9

Top 5 Dominant Species in Purse Seine, Gill Net and Handline Surveys

Species	Yield (g)
<i>Thryssa kammalensis</i>	20097
<i>Sardinella albella</i>	7326.1
<i>Nematalosa nasus</i>	3313.2
<i>Rhizoprionodon acutus</i>	3301.1
<i>Temnopleurus toreumaticus</i>	2062.8

Yield of Different Species from Different Survey Types

Purse Seine Dry

Species	Yield (g)
<i>Thryssa kammalensis</i>	19994.1
<i>Sardinella albella</i>	3550.9
<i>Nematalosa nasus</i>	1600.8
<i>Lagocephalus gloveri</i>	686
<i>Collichthys lucidus</i>	543.1
<i>Leiognathus brevisrostris</i>	419.7
<i>Rhizoprionodon acutus</i>	381.1
<i>Alepes djedaba</i>	360.3
<i>Valamugil cunnesius</i>	345.2
<i>Ilisha elongata</i>	313.4
<i>Thryssa hamiltonii</i>	281.3
<i>Pennahia anea</i>	190.9
<i>Trichiurus nanhaiensis</i>	133.9
<i>Eleutheronema tetradactylum</i>	132
<i>Pampus argenteus</i>	115.7
<i>Polydactylus sextarius</i>	52.3
<i>Psenopsis anomala</i>	48.2
<i>Upeneus sulphureus</i>	36.3
<i>Metapenaeus joyneri</i>	26.9
<i>Scomberoides lysan</i>	20.5
Others	30.8

Purse Seine Wet

Species	Yield (g)
<i>Sardinella albella</i>	3775.2
<i>Nematalosa nasus</i>	1597.4
<i>Ilisha elongata</i>	1469.5
<i>Rhizoprionodon acutus</i>	1020
<i>Konosirus punctatus</i>	579.4
<i>Trichiurus nanhaiensis</i>	441.8
<i>Thryssa hamiltonii</i>	314.7
<i>Valamugil cunnesius</i>	135.9
<i>Scomberomorus commerson</i>	122.3
<i>Thryssa kammalensis</i>	102.9
<i>Alepes djedaba</i>	91
<i>Stolephorus indicus</i>	70.6
<i>Charybdis sp</i>	69.7
<i>Collichthys lucidus</i>	66.6
<i>Lagocephalus gloveri</i>	57.4
<i>Leiognathus brevisrostris</i>	54.9
<i>Pampus argenteus</i>	44.1
<i>Hyporhamphus dussumieri</i>	29.1
<i>Loligo</i>	16.8
<i>Ambassis gymnocephalus</i>	12.7
Others	12.8

Gill Net Dry

Species	Yield (g)
<i>Temnopleurus toreumaticus</i>	834
<i>Leiognathus brevisrostris</i>	261
<i>Charybdis sp</i>	255
<i>Oratosquillina interrupta</i>	107.3
<i>Charybdis lucifera</i>	96.2
<i>Dendrophysa russelii</i>	93
<i>Saurida tumbil</i>	65.2
<i>Gerres limbatus</i>	58.3
<i>Takifugu oblongus</i>	49.8
<i>Johnius belangerii</i>	38.6
<i>Solea ovata</i>	11.2

Gill Net Wet

Species	Yield (g)
<i>Temnopleurus toreumaticus</i>	1228.8
<i>Charybdis sp</i>	741.6
<i>Johnius macrorhynchus</i>	726
<i>Johnius belangerii</i>	642.9
<i>Nematalosa nasus</i>	115
<i>Harpisquilla harpax</i>	100.8
<i>Dendrophysa russelii</i>	89.9
<i>Parthenope sp</i>	46.7
<i>Arius maculatus</i>	32.5
<i>Portunus sanguinolentus</i>	26.8
<i>Leiognathus brevisrostris</i>	26.5
<i>Platycephalus indicus</i>	25.3
<i>Saurida tumbil</i>	24.8
<i>Upeneus sulphureus</i>	17.1
<i>Murex trapa</i>	5.3

Hand line Dry

Species	Yield (g)
<i>Dendrophysa russelii</i>	108
<i>Sillago sihama</i>	91.2
<i>Gerres limbatus</i>	61.4
<i>Leiognathus brevisrostris</i>	53.9
<i>Takifugu oblongus</i>	46.3
<i>Johnius belangerii</i>	30.7
<i>Nemipterus japonicus</i>	28.8

Hand line Wet

Species	Yield (g)
<i>Rhizoprionodon acutus</i>	1900
<i>Johnius belangerii</i>	327.3
<i>Johnius macrorhynchus</i>	285.7
<i>Dendrophysa russelii</i>	127
<i>Ostorhinchus fasciatus</i>	66.1
<i>Leiognathus brevisrostris</i>	24.7

Trawling Dry

Species	Yield (g)
<i>Turritella terebra</i>	16750.1
<i>Charybdis sp</i>	7042.7
<i>Leioognathus brevirostris</i>	4978.8
<i>Johnius belangerii</i>	2270.2
<i>Portunus trituberculatus</i>	2236.5
<i>Dasyatis zugei</i>	1817.3
<i>Charybdis lucifera</i>	1326.7
<i>Temnopleurus toreumaticus</i>	1111.4
<i>Platycephalus indicus</i>	843.1
<i>Siphonosoma sp</i>	831.3
<i>Tegillarca granosa</i>	695.7
<i>Harpisquilla harpax</i>	687.6
<i>Oratosquilla interrupta</i>	632.4
<i>Charybdis feriatius</i>	579.4
<i>Scylla serrata</i>	570
<i>Metapenaeus affinis</i>	564.8
<i>Epinephelus bruneus</i>	558
<i>Alcockpenaeopsis hungerfordii</i>	555.5
<i>Polydactylus sextarius</i>	523.6
<i>Metapenaeus ensis</i>	518.4
Others	10109.4

Trawling Wet

Species	Yield (g)
<i>Charybdis sp</i>	18136.4
<i>Turritella terebra</i>	15995.4
<i>Siphonosoma sp</i>	8546.7
<i>Philine aperta</i>	5100.6
<i>Temnopleurus toreumaticus</i>	4294.1
<i>Leioognathus brevirostris</i>	3802.5
<i>Johnius belangerii</i>	3120.4
<i>Murex trapa</i>	1787.2
<i>Oratosquilla interrupta</i>	1766.2
<i>Metapenaeus affinis</i>	1493.7
<i>Charybdis lucifera</i>	1476.3
<i>Alcockpenaeopsis hungerfordii</i>	1138.4
<i>Sepia andreana</i>	870
<i>Inimicus cuvieri</i>	841.1
<i>Inegocia japonica</i>	760.7
<i>Fenneropenaeus merguensis</i>	733
<i>Charybdis feriatius</i>	701.2
<i>Nuquequula nuchalis</i>	694.2
<i>Portunus trituberculatus</i>	683.9
<i>Portunus pelagicus</i>	615.1
Others	10172

Abundance of Different Species in West Chek Lap Kok

Group	Species	Abundance
Others	<i>Temnopleurus toreumaticus</i>	4427
Others	<i>Turritella terebra</i>	1689
Fish	<i>Thryssa kammalensis</i>	894
Fish	<i>Leiognathus brevirostris</i>	553
Crab	<i>Charybdis sp</i>	521
Fish	<i>Sardinella albella</i>	478
Fish	<i>Alepes djedaba</i>	346
Fish	<i>Nucleocheilichthys nuchalis</i>	272
Shrimp	<i>Alcockpenaeopsis hungerfordii</i>	177
Fish	<i>Thryssa hamiltonii</i>	177
Others	<i>Siphonosoma sp</i>	141
Fish	<i>Valamugil cunnesius</i>	120
Crab	<i>Parthenope sp</i>	116
Fish	<i>Ambassis gymnocephalus</i>	89
Mantis shrimp	<i>Oratosquilla interrupta</i>	70
Shrimp	<i>Metapenaeus affinis</i>	69
Fish	<i>Collichthys lucidus</i>	66
Fish	<i>Nematalosa nasus</i>	66
Fish	<i>Konosirus punctatus</i>	49
Fish	<i>Ilisha elongata</i>	44
Shrimp	<i>Fenneropenaeus merquiensis</i>	40
Fish	<i>Johnius belangerii</i>	39
Others	<i>Murex trapa</i>	38
Mantis shrimp	<i>Oratosquilla oratoria</i>	36
Mantis shrimp	<i>Harpisquilla harpax</i>	36
Shrimp	<i>Solenocera crassicornis</i>	33
Fish	<i>Stolephorus indicus</i>	32
Fish	<i>Polydactylus sextarius</i>	31
Fish	<i>Pampus argenteus</i>	28
Fish	<i>Trypauchen vagina</i>	24
Others	<i>Loligo</i>	23
Fish	<i>Sebastiscus marmoratus</i>	21
Fish	<i>Dendrophysa russellii</i>	20
Fish	<i>Vespicola trachinoides</i>	18
Shrimp	<i>Trachysalambria curvirostris</i>	18
Shrimp	<i>Metapenaeus ensis</i>	17
Crab	<i>Charybdis lucifera</i>	17
Fish	<i>Trachicephalus uranoscopus</i>	16
Crab	<i>Paradorippe polita</i>	16
Fish	<i>Oxyurichthys tentacularis</i>	16
Fish	<i>Lagocephalus gloveri</i>	16
Fish	<i>Takifugu oblongus</i>	14
Fish	<i>Pennahia anea</i>	13
Others	<i>Tegillarca granosa</i>	13
Fish	<i>Inegocia japonica</i>	12
Mantis shrimp	<i>Miyakella nepa</i>	10
Crab	<i>Charybdis feriata</i>	9
Others	<i>Amphioctopus aegina</i>	9
Fish	<i>Rhizoprionodon acutus</i>	9
Fish	<i>Arnoglossus tenuis</i>	8
Crab	<i>Portunus pelagicus</i>	8
Fish	<i>Ostorhinchus fasciatus</i>	6
Fish	<i>Gerres limbatus</i>	6
Fish	<i>Trichiurus nanhaiensis</i>	6
Fish	<i>Secutor ruconius</i>	6
Mantis shrimp	<i>Dictyosquilla foveolata</i>	5
Fish	<i>Saurida tumbil</i>	5

Fish	<i>Platycephalus indicus</i>	4
Fish	<i>Cynoglossus macrolepidotus</i>	4
Fish	<i>Johnius macrorhynchus</i>	4
Fish	<i>Dasyatis zugei</i>	4
Shrimp	<i>Metapenaeus joyneri</i>	4
Fish	<i>Epinephelus awoara</i>	4
Fish	<i>Arius maculatus</i>	4
Fish	<i>Inegocia guttata</i>	4
Fish	<i>Dasyatis bennettii</i>	4
Crab	<i>Seulocia vittata</i>	4
Fish	<i>Nemipterus japonicus</i>	3
Fish	<i>Sillago sihama</i>	3
Fish	<i>Plotosus lineatus</i>	3
Fish	<i>Callionymus richardsonii</i>	3
Fish	<i>Upeneus sulphureus</i>	3
Others	<i>Pteroeides sparmanni</i>	2
Fish	<i>Solea ovata</i>	2
Crab	<i>Portunus trituberculatus</i>	2
Fish	<i>Acentrogobius caninus</i>	2
Fish	<i>Hyporhamphus dussumieri</i>	2
Fish	<i>Siganus canaliculatus</i>	2
Crab	<i>Portunus sanguinolentus</i>	2
Fish	<i>Ctenotrypauchen chinensis</i>	2
Fish	<i>Psenopsis anomala</i>	2
Fish	<i>Lutjanus russellii</i>	2
Fish	<i>Salanx ariakensis</i>	2
Fish	<i>Sphyræna pinguis</i>	2
Fish	<i>Parachaeturichthys polynema</i>	1
Shrimp	<i>Alpheus sp</i>	1
Shrimp	<i>Marsupenaeus japonicus</i>	1
Others	<i>Bufo rana</i>	1
Fish	<i>Drepane punctata</i>	1
Others	<i>Perna viridis</i>	1
Fish	<i>Terapon jarbua</i>	1
Fish	<i>Cynoglossus puncticeps</i>	1
Fish	<i>Pseudorhombus levisquamis</i>	1
Fish	<i>Halichoeres nigrescens</i>	1
Fish	<i>Takifugu xanthopterus</i>	1
Others	<i>Sepiella inermis</i>	1
Fish	<i>Apogonichthyoidea pseudotaeniatus</i>	1
Fish	<i>Takifugu alboplumbeus</i>	1
Fish	<i>Coilia nasus</i>	1
Fish	<i>Minous monodactylus</i>	1
Fish	<i>Decapterus maruadsi</i>	1
Fish	<i>Larimichthys crocea</i>	1
Fish	<i>Saurida elongata</i>	1
Fish	<i>Gymnura japonica</i>	1
Fish	<i>Cynoglossus semilaevis</i>	1
	Total Abundance	11138
	Total Number of Species	105

Top 5 Dominant Species in Purse Seine, Gill Net and Handline Surveys

Species	Abundance
<i>Thryssa kammalensis</i>	855
<i>Sardinella albella</i>	478
<i>Alepes djedaba</i>	344
<i>Thryssa hamiltonii</i>	175
<i>Leiognathus brevirostris</i>	130

Abundance of Different Species from Different Survey Types

Purse Seine Dry

Species	Abundance
<i>Thryssa kammalensis</i>	833
<i>Sardinella albella</i>	358
<i>Thryssa hamiltonii</i>	145
<i>Leiognathus brevirostris</i>	60
<i>Valamugil cunnesius</i>	59
<i>Alepes djedaba</i>	54
<i>Konosirus punctatus</i>	38
<i>Collichthys lucidus</i>	32
<i>Ilisha elongata</i>	31
<i>Ambassis gymnocephalus</i>	12
<i>Nuquequula nuchalis</i>	9
<i>Stolephorus indicus</i>	7
<i>Loligo</i>	5
<i>Trichiurus nanhaiensis</i>	4
<i>Nematalosa nasus</i>	4
<i>Rhizoprionodon acutus</i>	3
<i>Lagocephalus gloveri</i>	2
<i>Fenneropenaeus merguensis</i>	1
<i>Polydactylus sextarius</i>	1
<i>Pennahia anea</i>	1
Others	8

Purse Seine Wet

Species	Abundance
<i>Alepes djedaba</i>	290
<i>Sardinella albella</i>	116
<i>Ambassis gymnocephalus</i>	65
<i>Leiognathus brevirostris</i>	60
<i>Turritella terebra</i>	26
<i>Thryssa hamiltonii</i>	25
<i>Collichthys lucidus</i>	25
<i>Nematalosa nasus</i>	25
<i>Pampus argenteus</i>	22
<i>Stolephorus indicus</i>	19
<i>Charybdis sp</i>	18
<i>Thryssa kammalensis</i>	16
<i>Ilisha elongata</i>	13
<i>Loligo</i>	12
<i>Valamugil cunnesius</i>	7
<i>Lagocephalus gloveri</i>	5
<i>Konosirus punctatus</i>	3
<i>Temnopleurus toreumaticus</i>	3
<i>Pennahia anea</i>	3
<i>Upeneus sulphureus</i>	3
Others	16

Gill Net Dry

Species	Abundance
<i>Charybdis sp</i>	6
<i>Dendrophysa russelii</i>	6
<i>Thryssa kammalensis</i>	6
<i>Konosirus punctatus</i>	5
<i>Thryssa hamiltonii</i>	5
<i>Secutor ruconius</i>	4
<i>Sardinella albella</i>	4
<i>Oratosquillina interrupta</i>	3
<i>Leiognathus brevisrostris</i>	3
<i>Takifugu oblongus</i>	3
<i>Oratosquilla oratoria</i>	3
<i>Harpiosquilla harpax</i>	2
<i>Alepes djedaba</i>	2
<i>Fenneropenaeus merguensis</i>	2
<i>Gerres limbatus</i>	1
<i>Saurida tumbil</i>	1
<i>Johnius belangerii</i>	1
<i>Stolephorus indicus</i>	1
<i>Plotosus lineatus</i>	1
<i>Portunus pelagicus</i>	1
Others	1

Hand line Dry

Species	Abundance
<i>Sebastiscus marmoratus</i>	18
<i>Leiognathus brevisrostris</i>	3
<i>Sillago sihama</i>	1
<i>Dendrophysa russelii</i>	1
<i>Nemipterus japonicus</i>	1
<i>Takifugu alboplumbeus</i>	1

Trawling Dry

Species	Abundance
<i>Temnopleurus toreumaticus</i>	1280
<i>Turritella terebra</i>	551
<i>Nuquequula nuchalis</i>	165
<i>Leiognathus brevisrostris</i>	132
<i>Charybdis sp</i>	85
<i>Valamugil cunnesius</i>	49
<i>Alcockpenaeopsis hungerfordii</i>	41
<i>Thryssa kammalensis</i>	37
<i>Nematalosa nasus</i>	34
<i>Oratosquillina interrupta</i>	29
<i>Polydactylus sextarius</i>	26
<i>Harpiosquilla harpax</i>	25
<i>Oratosquilla oratoria</i>	19
<i>Trypauchen vagina</i>	16
<i>Siphonosoma sp</i>	16
<i>Solenocera crassicornis</i>	15
<i>Metapenaeus affinis</i>	14
<i>Fenneropenaeus merguensis</i>	12
<i>Metapenaeus ensis</i>	11
<i>Oxyurichthys tentacularis</i>	9
Others	138

Gill Net Wet

Species	Abundance
<i>Temnopleurus toreumaticus</i>	101
<i>Charybdis sp</i>	40
<i>Leiognathus brevisrostris</i>	4
<i>Stolephorus indicus</i>	3
<i>Johnius belangerii</i>	2
<i>Saurida elongata</i>	1
<i>Dendrophysa russelii</i>	1
<i>Cynoglossus macrolepidotus</i>	1
<i>Apogonichthyoides pseudotaeniatus</i>	1
<i>Rhizoprionodon acutus</i>	1
<i>Arius maculatus</i>	1
<i>Charybdis lucifera</i>	1
<i>Portunus pelagicus</i>	1

Hand line Wet

Species	Abundance
<i>Rhizoprionodon acutus</i>	5
<i>Sebastiscus marmoratus</i>	3
<i>Lutjanus russelii</i>	2
<i>Johnius macrorhynchus</i>	2
<i>Lagocephalus gloveri</i>	1
<i>Takifugu oblongus</i>	1
<i>Halichoeres nigrescens</i>	1
<i>Dendrophysa russelii</i>	1

Trawling Wet

Species	Abundance
<i>Temnopleurus toreumaticus</i>	3043
<i>Turritella terebra</i>	1112
<i>Charybdis sp</i>	372
<i>Leiognathus brevisrostris</i>	291
<i>Alcockpenaeopsis hungerfordii</i>	136
<i>Siphonosoma sp</i>	125
<i>Parthenope sp</i>	109
<i>Nuquequula nuchalis</i>	98
<i>Metapenaeus affinis</i>	54
<i>Oratosquillina interrupta</i>	38
<i>Johnius belangerii</i>	33
<i>Murex trapa</i>	32
<i>Fenneropenaeus merguensis</i>	23
<i>Solenocera crassicornis</i>	18
<i>Trachysalambria curvirostris</i>	18
<i>Vespacula trachinoides</i>	16
<i>Charybdis lucifera</i>	14
<i>Oratosquilla oratoria</i>	14
<i>Ambassis gymnocephalus</i>	12
<i>Trachicephalus uranoscopus</i>	10
Others	167

Yield of Different Species in West Chek Lap Kok

Group	Species	Yield (g)
Others	<i>Temnopleurus toreumaticus</i>	54495.4
Others	<i>Turritella terebra</i>	15401.8
Fish	<i>Sardinella albella</i>	9674.9
Crab	<i>Charybdis sp</i>	8820.8
Fish	<i>Thryssa kammalensis</i>	7533.8
Fish	<i>Ilisha elongata</i>	6520
Fish	<i>Leiognathus brevisrostris</i>	5424.6
Fish	<i>Nematalosa nasus</i>	4750.2
Fish	<i>Valamugil cunnesius</i>	4648.49
Fish	<i>Konosirus punctatus</i>	3352.4
Fish	<i>Thryssa hamiltonii</i>	3065.3
Fish	<i>Dasyatis bennettii</i>	3011.8
Others	<i>Siphonosoma sp</i>	2877.4
Fish	<i>Alepes djedaba</i>	2580.4
Fish	<i>Nuchequula nuchalis</i>	2359.8
Crab	<i>Parthenope sp</i>	2078.4
Fish	<i>Pampus argenteus</i>	1883.4
Fish	<i>Johnius belangerii</i>	1792.8
Fish	<i>Rhizoprionodon acutus</i>	1788.6
Fish	<i>Takifugu oblongus</i>	1502.1
Fish	<i>Gymnura japonica</i>	1368
Fish	<i>Collichthys lucidus</i>	1307.5
Others	<i>Tegillarca granosa</i>	1171.3
Crab	<i>Portunus pelagicus</i>	1087.2
Mantis shrimp	<i>Harpisquilla harpax</i>	953.2
Shrimp	<i>Alcockpenaeopsis hungerfordii</i>	918.3
Shrimp	<i>Fenneropenaeus merguensis</i>	858.7
Fish	<i>Trichiurus nanhaiensis</i>	744.6
Others	<i>Amphioctopus aegina</i>	733.3
Mantis shrimp	<i>Oratosquilla interrupta</i>	665.8
Fish	<i>Lagocephalus gloveri</i>	631.2
Fish	<i>Sebastiscus marmoratus</i>	593.3
Shrimp	<i>Metapenaeus affinis</i>	586.9
Crab	<i>Charybdis feriata</i>	563.3
Fish	<i>Dendrophysa russellii</i>	563.2
Fish	<i>Saurida tumbil</i>	562.5
Fish	<i>Polydactylus sextarius</i>	559.8
Fish	<i>Platycephalus indicus</i>	508
Crab	<i>Charybdis lucifera</i>	476.5
Fish	<i>Cynoglossus semilaevis</i>	430
Fish	<i>Arius maculatus</i>	429.8
Crab	<i>Portunus trituberculatus</i>	428.1
Fish	<i>Dasyatis zugei</i>	421.8
Mantis shrimp	<i>Oratosquilla oratoria</i>	338.1
Others	<i>Murex trapa</i>	300.8
Fish	<i>Ambassis gymnocephalus</i>	289.9
Fish	<i>Trypauchen vagina</i>	276.4
Fish	<i>Drepane punctata</i>	247.2
Fish	<i>Lutjanus russellii</i>	239.5
Others	<i>Loligo</i>	234.2
Fish	<i>Takifugu xanthopterus</i>	218.2
Fish	<i>Johnius macrorhynchus</i>	207
Shrimp	<i>Metapenaeus ensis</i>	181
Fish	<i>Stolephorus indicus</i>	165.4
Fish	<i>Epinephelus awoara</i>	164.9
Fish	<i>Trachicephalus uranoscopus</i>	163.5
Fish	<i>Pennahia anea</i>	132.4
Fish	<i>Plotosus lineatus</i>	132
Crab	<i>Paradorippe polita</i>	120.7
Fish	<i>Gerres limbatus</i>	120.4
Fish	<i>Inegocia japonica</i>	104.3
Fish	<i>Cynoglossus macrolepidotus</i>	97.6
Mantis shrimp	<i>Miyakella nepa</i>	93
Fish	<i>Vespicola trachinoides</i>	89.8
Fish	<i>Secutor ruconius</i>	84.8
Fish	<i>Takifugu alboplumbeus</i>	84.5
Fish	<i>Oxyurichthys tentacularis</i>	78.5
Fish	<i>Inegocia guttata</i>	78.4
Fish	<i>Sillago sihama</i>	73.1
Shrimp	<i>Solenocera crassicornis</i>	70.9
Shrimp	<i>Trachysalambria curvirostris</i>	70.2
Fish	<i>Larimichthys crocea</i>	68.5
Fish	<i>Apogonichthyoidea pseudotaeniatus</i>	65.2
Fish	<i>Psenopsis anomala</i>	60.8
Fish	<i>Arnoglossus tenuis</i>	60.6
Fish	<i>Saurida elongata</i>	57.1
Fish	<i>Halichoeres nigrescens</i>	48.6
Fish	<i>Nemipterus japonicus</i>	47.6
Others	<i>Pteroeides sparmanni</i>	47
Fish	<i>Acentrogobius caninus</i>	42.3
Fish	<i>Siganus canaliculatus</i>	40.5
Mantis shrimp	<i>Dictyosquilla foveolata</i>	36.8
Shrimp	<i>Metapenaeus joyneri</i>	34.3
Fish	<i>Sphyræna pinguis</i>	30.5
Others	<i>Sepiella inermis</i>	29
Fish	<i>Terapon jarbua</i>	27.5
Fish	<i>Hyporhamphus dussumieri</i>	24.7
Others	<i>Perna viridis</i>	21
Fish	<i>Solea ovata</i>	20.8
Crab	<i>Seulocia vittata</i>	19.8
Fish	<i>Upeneus sulphureus</i>	16.9
Crab	<i>Portunus sanguinolentus</i>	16.3
Fish	<i>Ostorhinchus fasciatus</i>	16.1
Others	<i>Bufo nana</i>	15.9
Fish	<i>Pseudorhombus levisquamis</i>	14.3
Fish	<i>Parachaeturichthys polynema</i>	12.5
Fish	<i>Cynoglossus puncticeps</i>	12.5
Fish	<i>Callionymus richardsonii</i>	12.3
Fish	<i>Ctenotrypauchen chinensis</i>	10.2
Shrimp	<i>Marsupenaeus japonicus</i>	9.6
Fish	<i>Minous monodactylus</i>	7.7

Fish	<i>Salanx ariakensis</i>	5.5
Fish	<i>Coilia nasus</i>	4.1
Fish	<i>Decapterus maruadsi</i>	3.3
Shrimp	<i>Alpheus sp</i>	2.4
	Total Yield	165523.59

Top 5 Dominant Species in Purse Seine, Gill Net and Handline Surveys

Species	Yield (g)
<i>Sardinella albella</i>	9674.9
<i>Thryssa kammalensis</i>	7114.8
<i>Ilisha elongata</i>	6520
<i>Konosirus punctatus</i>	3174.2
<i>Thryssa hamiltonii</i>	2998.2

Yield of Different Species from Different Survey Types

Purse Seine Dry

Species	Yield (g)
<i>Sardinella albella</i>	7902.9
<i>Thryssa kammalensis</i>	7008.7
<i>Ilisha elongata</i>	4537.3
<i>Valamugil cunnesius</i>	2551.39
<i>Konosirus punctatus</i>	2476.9
<i>Thryssa hamiltonii</i>	2239.1
<i>Gymnura japonica</i>	1368
<i>Alepes djedaba</i>	1210
<i>Collichthys lucidus</i>	1061.4
<i>Rhizoprionodon acutus</i>	707.3
<i>Leiognathus brevisrostris</i>	686.4
<i>Trichiurus nanhaiensis</i>	490
<i>Nematalosa nasus</i>	293.3
<i>Takifugu xanthopterus</i>	218.2
<i>Lagocephalus gloveri</i>	178.3
<i>Nuchequula nuchalis</i>	96.2
<i>Saurida tumbil</i>	76.6
<i>Ambassis gymnocephalus</i>	72.2
<i>Loligo</i>	55
<i>Stolephorus indicus</i>	48.3
Others	211.7

Purse Seine Wet

Species	Yield (g)
<i>Ilisha elongata</i>	1982.7
<i>Nematalosa nasus</i>	1980.8
<i>Sardinella albella</i>	1637.4
<i>Pampus argenteus</i>	1455.5
<i>Alepes djedaba</i>	1304.2
<i>Leiognathus brevisrostris</i>	690
<i>Thryssa hamiltonii</i>	583.4
<i>Charybdis sp</i>	256.9
<i>Trichiurus nanhaiensis</i>	254.6
<i>Turritella terebra</i>	223.3
<i>Valamugil cunnesius</i>	185.3
<i>Ambassis gymnocephalus</i>	175.9
<i>Konosirus punctatus</i>	164
<i>Collichthys lucidus</i>	132.5
<i>Loligo</i>	132.5
<i>Lagocephalus gloveri</i>	117.9
<i>Thryssa kammalensis</i>	106.1
<i>Stolephorus indicus</i>	72.9
<i>Larimichthys crocea</i>	68.5
<i>Portunus trituberculatus</i>	50.7
Others	150.5

Gill Net Dry

Species	Yield (g)
<i>Konosirus punctatus</i>	533.3
<i>Takifugu oblongus</i>	307.6
<i>Portunus pelagicus</i>	202
<i>Saurida tumbil</i>	187
<i>Thryssa hamiltonii</i>	175.7
<i>Dendrophysa russelii</i>	174.1
<i>Charybdis sp</i>	158.6
<i>Sardinella albella</i>	134.6
<i>Fenneropenaeus merguensis</i>	104.3
<i>Harpisquilla harpax</i>	82.7
<i>Leiognathus brevisrostris</i>	78.6
<i>Plotosus lineatus</i>	75
<i>Johnius belangerii</i>	72.8
<i>Alepes djedaba</i>	66.2
<i>Thryssa kammalensis</i>	56.8
<i>Secutor ruconius</i>	46.5
<i>Oratosquilla interrupta</i>	44.4
<i>Gerres limbatus</i>	26.5
<i>Trachicephalus uranoscopus</i>	23.5
<i>Oratosquilla oratoria</i>	23.2
Others	9

Gill Net Wet

Species	Yield (g)
<i>Temnopleurus toreumaticus</i>	867.3
<i>Charybdis sp</i>	790.9
<i>Rhizoprionodon acutus</i>	212.8
<i>Portunus pelagicus</i>	195.6
<i>Arius maculatus</i>	133.4
<i>Johnius belangerii</i>	128.4
<i>Apogonichthyoides pseudotaeniatus</i>	65.2
<i>Saurida elongata</i>	57.1
<i>Charybdis lucifera</i>	47.2
<i>Dendrophysa russelii</i>	37.8
<i>Cynoglossus macrolepidotus</i>	36.4
<i>Leiognathus brevisrostris</i>	34.8
<i>Stolephorus indicus</i>	24.2

Hand line Dry

Species	Yield (g)
<i>Sebastiscus marmoratus</i>	444.3
<i>Takifugu alboplumbeus</i>	84.5
<i>Dendrophysa russelii</i>	83.4
<i>Leiognathus brevisrostris</i>	60.2
<i>Sillago sihama</i>	32.1
<i>Nemipterus japonicus</i>	24.7

Hand line Wet

Species	Yield (g)
<i>Rhizoprionodon acutus</i>	868.5
<i>Lutjanus russelii</i>	239.5
<i>Sebastiscus marmoratus</i>	149
<i>Lagocephalus gloveri</i>	79.8
<i>Johnius macrorhynchus</i>	57.9
<i>Halichoeres nigrescens</i>	48.6
<i>Takifugu oblongus</i>	43.7
<i>Dendrophysa russelii</i>	27.8

Trawling Dry

Species	Yield (g)
<i>Temnopleurus toreumaticus</i>	14465.7
<i>Turritella terebra</i>	3798.8
<i>Dasyatis bennettii</i>	3011.8
<i>Nematalosa nasus</i>	2361.9
<i>Valamugil cunnesius</i>	1765.1
<i>Leiognathus brevisrostris</i>	1568.6
<i>Nuclia nuchalis</i>	1477.3
<i>Charybdis sp</i>	1215.2
<i>Tegillarca granosa</i>	1060.5
<i>Takifugu oblongus</i>	805.5
<i>Harpisquilla harpax</i>	726.8
<i>Siphonosoma sp</i>	655.4
<i>Amphioctopus aegina</i>	617.4
<i>Charybdis feriatus</i>	492.5
<i>Platycephalus indicus</i>	492
<i>Fenneropenaeus merguensis</i>	460.5
<i>Cynoglossus semilaevis</i>	430
<i>Polydactylus sextarius</i>	379.2
<i>Portunus trituberculatus</i>	377.4
<i>Thryssa kammalensis</i>	347.1
Others	4330.6

Trawling Wet

Species	Yield (g)
<i>Temnopleurus toreumaticus</i>	39139.4
<i>Turritella terebra</i>	11379.7
<i>Charybdis sp</i>	6399.2
<i>Leiognathus brevisrostris</i>	2306
<i>Siphonosoma sp</i>	2222
<i>Parthenope sp</i>	1925
<i>Johnius belangerii</i>	1486.5
<i>Nuclia nuchalis</i>	786.3
<i>Portunus pelagicus</i>	689.6
<i>Alcockpenaeopsis hungerfordii</i>	669.1
<i>Charybdis lucifera</i>	395.8
<i>Metapenaeus affinis</i>	356.1
<i>Takifugu oblongus</i>	345.3
<i>Oratosquilla interrupta</i>	327.6
<i>Murex trapa</i>	266
<i>Fenneropenaeus merguensis</i>	256.4
<i>Pampus argenteus</i>	151.1
<i>Johnius macrorhynchus</i>	149.1
<i>Valamugil cunnesius</i>	146.7
<i>Harpisquilla harpax</i>	143.7
Others	2333.3

Abundance of Different Species in The Brothers

Group	Species	Abundance
Fish	<i>Thryssa kammalensis</i>	733
Fish	<i>Sardinella albella</i>	414
Fish	<i>Alepes djedaba</i>	119
Fish	<i>Sebastiscus marmoratus</i>	79
Others	<i>Temnopleurus toreadicus</i> ☐	58
Fish	<i>Thryssa hamiltonii</i>	50
Fish	<i>Stolephorus indicus</i>	38
Fish	<i>Leiognathus brevis</i>	32
Fish	<i>Konosirus punctatus</i>	31
Fish	<i>Valamugil cunnesius</i>	26
Fish	<i>Amblygaster sirm</i>	25
Fish	<i>Siganus canaliculatus</i>	24
Fish	<i>Ambassis gymnocephalus</i>	18
Crab	<i>Charybdis lucifera</i>	18
Fish	<i>Sillago sihama</i>	18
Fish	<i>Leiognathus berbis</i>	16
Crab	<i>Charybdis sp</i>	10
Fish	<i>Trichiurus nanhaiensis</i>	10
Fish	<i>Secutor ruconius</i>	9
Shrimp	<i>Metapenaeus joyneri</i>	8
Fish	<i>Photopectoralis bindus</i>	8
Fish	<i>Ilisha elongata</i>	6
Fish	<i>Pampus argenteus</i>	6
Fish	<i>Dendrophysa russelii</i>	6
Fish	<i>Nematalosa nasus</i>	5
Fish	<i>Gerres limbatus</i>	5
Fish	<i>Johnius macrorhynchus</i>	5
Fish	<i>Nemipterus japonicus</i>	5
Fish	<i>Psenopsis anomala</i>	5
Fish	<i>Rhabdosargus sarba</i>	5
Crab	<i>Parthenope sp</i>	4
Mantis shrimp	<i>Harpisquilla harpax</i>	4
Fish	<i>Upeneus sulphureus</i>	4
Fish	<i>Rhynchopelates oxyrhynchus</i>	4
Fish	<i>Hyporhamphus dussumieri</i>	3
Fish	<i>Terapon jarbua</i>	3
Fish	<i>Epinephelus merra</i>	3
Fish	<i>Myersina filifer</i>	3
Shrimp	<i>Fenneropenaeus merguensis</i>	2
Others	<i>Loligo</i>	2
Fish	<i>Plotosus lineatus</i>	2
Fish	<i>Takifugu xanthopterus</i>	2
Fish	<i>Evynnis cardinalis</i>	2
Fish	<i>Paracentropogon rubripinnis</i>	2
Fish	<i>Monacanthus chinensis</i>	2
Fish	<i>Scomberoides lysan</i>	2
Fish	<i>Lethrinus haematopterus</i>	2
Fish	<i>Leiognathus equulus</i>	2
Fish	<i>Nuchequula nuchalis</i>	1
Fish	<i>Johnius belangerii</i>	1
Others	<i>Murex trapa</i>	1
Mantis shrimp	<i>Oratosquilla oratoria</i>	1
Crab	<i>Paradorippe polita</i>	1
Fish	<i>Lagocephalus gloveri</i>	1
Fish	<i>Pennahia anea</i>	1
Fish	<i>Arnoglossus tenuis</i>	1
Fish	<i>Ostorhinchus fasciatus</i>	1
Fish	<i>Platycephalus indicus</i>	1
Fish	<i>Epinephelus awoara</i>	1
Fish	<i>Pseudorhombus levisquamis</i>	1
Fish	<i>Halichoeres nigrescens</i>	1
Fish	<i>Coilia nasus</i>	1
Fish	<i>Epinephelus bruneus</i>	1
Fish	<i>Thamnaconus modestus</i>	1
Fish	<i>Atherinomorus lacunosus</i>	1
Fish	<i>Eleutheronema tetradactylum</i>	1
Fish	<i>Scomberomorus commerson</i>	1
Others	<i>Sepia andreana</i>	1
Fish	<i>Pelates quadrilineatus</i>	1
Fish	<i>Gerres japonicus</i>	1
Fish	<i>Parupeneus chrysopleuron</i>	1
Fish	<i>Sciaenops ocellatus</i>	1
Fish	<i>Scorpaenopsis neglecta</i>	1
Fish	<i>Encrasicholina heteroloba</i>	1

	Total Abundance	1866
	Total Number of Species	74

Top 5 Dominant Species in Purse Seine, Gill Net and Handline Surveys

Species	Abundance
<i>Thryssa kammalensis</i>	732
<i>Sardinella albella</i>	414
<i>Alepes djedaba</i>	119
<i>Sebastiscus marmoratus</i>	79
<i>Temnopleurus toreumaticus</i>	58

Abundance of Different Species from Different Survey Types

Purse Seine Dry

Species	Abundance
<i>Thryssa kammalensis</i>	449
<i>Sardinella albella</i>	95
<i>Thryssa hamiltonii</i>	47
<i>Alepes djedaba</i>	23
<i>Leiognathus berbis</i>	13
<i>Leiognathus brevirostris</i>	13
<i>Trichiurus nanhaiensis</i>	7
<i>Secutor ruconius</i>	7
<i>Konosirus punctatus</i>	7
<i>Stolephorus indicus</i>	6
<i>Psenopsis anomala</i>	5
<i>Pampus argenteus</i>	5
<i>Ambassis gymnocephalus</i>	4
<i>Valamugil cunnesius</i>	3
<i>Ilisha elongata</i>	3
<i>Upeneus sulphureus</i>	2
<i>Encrasicholina heteroloba</i>	1
<i>Charybdis sp</i>	1
<i>Fenneropenaeus merguensis</i>	1
<i>Ostorhinchus fasciatus</i>	1
Others	3

Gill Net Dry

Species	Abundance
<i>Siganus canaliculatus</i>	9
<i>Temnopleurus toreumaticus</i>	9
<i>Metapenaeus joyneri</i>	8
<i>Gerres limbatus</i>	5
<i>Dendrophysa russelii</i>	4
<i>Leiognathus brevirostris</i>	4
<i>Johnius macrorhynchus</i>	3
<i>Plotosus lineatus</i>	2
<i>Konosirus punctatus</i>	2
<i>Charybdis sp</i>	2
<i>Fenneropenaeus merguensis</i>	1
<i>Gerres japonicus</i>	1
<i>Pseudorhombus levisquamis</i>	1
<i>Thryssa kammalensis</i>	1
<i>Parupeneus chrysopleuron</i>	1
<i>Oratosquilla oratoria</i>	1
<i>Parthenope sp</i>	1
<i>Monacanthus chinensis</i>	1

Hand line Dry

Species	Abundance
<i>Sebastiscus marmoratus</i>	63
<i>Sillago sihama</i>	11
<i>Leiognathus brevirostris</i>	5
<i>Epinephelus bruneus</i>	1
<i>Nemipterus japonicus</i>	1
<i>Sciaenops ocellatus</i>	1

Purse Seine Wet

Species	Abundance
<i>Sardinella albella</i>	319
<i>Thryssa kammalensis</i>	283
<i>Alepes djedaba</i>	96
<i>Stolephorus indicus</i>	26
<i>Amblygaster sirm</i>	25
<i>Valamugil cunnesius</i>	23
<i>Konosirus punctatus</i>	19
<i>Ambassis gymnocephalus</i>	14
<i>Photopectoralis bindus</i>	8
<i>Nematalosa nasus</i>	5
<i>Leiognathus brevirostris</i>	4
<i>Ilisha elongata</i>	3
<i>Leiognathus berbis</i>	3
<i>Hyporhamphus dussumieri</i>	3
<i>Trichiurus nanhaiensis</i>	3
<i>Thryssa hamiltonii</i>	2
<i>Secutor ruconius</i>	2
<i>Scomberoides lysan</i>	2
<i>Upeneus sulphureus</i>	2
<i>Paradorippe polita</i>	1
Others	12

Gill Net Wet

Species	Abundance
<i>Temnopleurus toreumaticus</i>	49
<i>Charybdis lucifera</i>	18
<i>Siganus canaliculatus</i>	15
<i>Charybdis sp</i>	7
<i>Stolephorus indicus</i>	6
<i>Rhabdosargus sarba</i>	5
<i>Rhynchopelates oxyrhynchus</i>	4
<i>Harpisquilla harpax</i>	4
<i>Leiognathus brevirostris</i>	4
<i>Konosirus punctatus</i>	3
<i>Parthenope sp</i>	3
<i>Dendrophysa russelii</i>	2
<i>Paracentropogon rubripinnis</i>	2
<i>Johnius macrorhynchus</i>	2
<i>Leiognathus equulus</i>	2
<i>Johnius belangerii</i>	1
<i>Halichoeres nigrescens</i>	1
<i>Thryssa hamiltonii</i>	1
<i>Platycephalus indicus</i>	1
<i>Murex trapa</i>	1

Hand line Wet

Species	Abundance
<i>Sebastiscus marmoratus</i>	16
<i>Sillago sihama</i>	7
<i>Nemipterus japonicus</i>	4
<i>Terapon jarbua</i>	3
<i>Epinephelus merra</i>	3
<i>Myersina filifer</i>	3
<i>Lethrinus haematopterus</i>	2
<i>Leiognathus brevirostris</i>	2
<i>Scorpaenopsis neglecta</i>	1
<i>Epinephelus awoara</i>	1
<i>Nuchequula nuchalis</i>	1
<i>Evynnis cardinalis</i>	1
<i>Lagocephalus gloveri</i>	1
<i>Monacanthus chinensis</i>	1

Yield of Different Species in The Brothers

Group	Species	Yield (g)
Fish	<i>Sardinella albella</i>	3590.8
Fish	<i>Thryssa kammalensis</i>	3451.2
Fish	<i>Konosirus punctatus</i>	2293.5
Fish	<i>Sebastiscus marmoratus</i>	1954.3
Fish	<i>Siganus canaliculatus</i>	1214.3
Fish	<i>Alepes djedaba</i>	1102
Fish	<i>Sillago sihama</i>	1078.5
Crab	<i>Charybdis lucifera</i>	846.2
Others	<i>Temnopleurus toreumaticus</i> ☒	830.9
Fish	<i>Thryssa hamiltonii</i>	688.2
Fish	<i>Sciaenops ocellatus</i>	580
Fish	<i>Pampus argenteus</i>	549.3
Fish	<i>Leiognathus brevirostris</i>	466.4
Fish	<i>Epinephelus bruneus</i>	460
Fish	<i>Ilisha elongata</i>	399.4
Fish	<i>Johnius macrorhynchus</i>	389.7
Fish	<i>Rhynchopelates oxyrhynchus</i>	373.4
Fish	<i>Nematalosa nasus</i>	356.5
Fish	<i>Takifugu xanthopterus</i>	345.1
Fish	<i>Dendrophysa russelii</i>	306.9
Fish	<i>Epinephelus awoara</i>	287.6
Fish	<i>Monacanthus chinensis</i>	269.7
Fish	<i>Rhabdosargus sarba</i>	260.1
Fish	<i>Lethrinus haematopterus</i>	257.5
Fish	<i>Eleutheronema tetradactylum</i>	253.4
Fish	<i>Stolephorus indicus</i>	208.7
Fish	<i>Valamugil cunnesius</i>	198.5
Crab	<i>Charybdis sp</i>	186.7
Fish	<i>Gerres limbatus</i>	185.2
Fish	<i>Lagocephalus gloveri</i>	182.6
Mantis shrimp	<i>Harpisquilla harpax</i>	182.5
Fish	<i>Epinephelus merra</i>	181.6
Fish	<i>Terapon jarbua</i>	161.1
Fish	<i>Leiognathus berbis</i>	144.5
Fish	<i>Amblygaster sirm</i>	137.5
Fish	<i>Scomberomorus commerson</i>	137.4
Fish	<i>Nemipterus japonicus</i>	123.4
Fish	<i>Trichiurus nanhaiensis</i>	115.5
Fish	<i>Plotosus lineatus</i>	114.1
Fish	<i>Johnius belangerii</i>	101
Fish	<i>Psenopsis anomala</i>	99
Fish	<i>Gerres japonicus</i>	98.1
Shrimp	<i>Metapenaeus joyneri</i>	90.6
Crab	<i>Parthenope sp</i>	79.8
Fish	<i>Leiognathus equulus</i>	77.1
Fish	<i>Scorpaenopsis neglecta</i>	72.5
Fish	<i>Pseudorhombus levisquamis</i>	56.3
Fish	<i>Ambassis gymnocephalus</i>	55.1
Shrimp	<i>Fenneropenaeus merguensis</i>	54.4
Fish	<i>Myersina filifer</i>	48.7
Fish	<i>Secutor ruconius</i>	47.9
Fish	<i>Upeneus sulphureus</i>	46.6
Fish	<i>Halichoeres nigrescens</i>	41.9
Mantis shrimp	<i>Oratosquilla oratoria</i>	36.8
Fish	<i>Parupeneus chrysopleuron</i>	36.1
Fish	<i>Paracentropogon rubripinnis</i>	32.8
Fish	<i>Evynnis cardinalis</i>	31.9
Fish	<i>Hyporhamphus dussumieri</i>	30.7
Fish	<i>Platycephalus indicus</i>	26.8
Fish	<i>Photopectoralis bindus</i>	24.9
Fish	<i>Coilia nasus</i>	20.8
Fish	<i>Scomberoides lysan</i>	19.3
Fish	<i>Pennahia anea</i>	18.4
Others	<i>Loligo</i>	17.8
Others	<i>Murex trapa</i>	14.5
Fish	<i>Encrasicholina heteroloba</i>	14.3
Fish	<i>Ostorhinchus fasciatus</i>	13.1
Fish	<i>Atherinomorus lacunosus</i>	6.9
Fish	<i>Nuchequula nuchalis</i>	5.3

Fish	<i>Arnoglossus tenuis</i>	3.2
Fish	<i>Thamnaconus modestus</i>	3.2
Crab	<i>Paradorippe polita</i>	1.2
Fish	<i>Pelates quadrilineatus</i>	0.7
	Total Yield	26191.9

Top 5 Dominant Species in Purse Seine, Gill Net and Handline Surveys

Species	Yield (g)
<i>Sardinella albella</i>	3590.8
<i>Thryssa kammalensis</i>	3437.7
<i>Konosirus punctatus</i>	2293.5
<i>Sebastiscus marmoratus</i>	1954.3
<i>Siganus canaliculatus</i>	1214.3

Yield of Different Species from Different Survey Types

Purse Seine Dry

Species	Yield (g)
<i>Thryssa kammalensis</i>	2906
<i>Sardinella albella</i>	1147
<i>Alepes djedaba</i>	616.8
<i>Konosirus punctatus</i>	593.9
<i>Thryssa hamiltonii</i>	591.3
<i>Pampus argenteus</i>	522
<i>Takifugu xanthopterus</i>	286.3
<i>Leiognathus brevirostris</i>	184.5
<i>Ilisha elongata</i>	174.6
<i>Leiognathus berbis</i>	131.9
<i>Valamugil cunnesius</i>	102.3
<i>Trichiurus nanhaiensis</i>	99.8
<i>Psenopsis anomala</i>	99
<i>Secutor ruconius</i>	46.5
<i>Stolephorus indicus</i>	37.2
<i>Upeneus sulphureus</i>	29.5
<i>Ambassis gymnocephalus</i>	21.4
<i>Fenneropenaeus merguensis</i>	14.6
<i>Encrasicholina heteroloba</i>	14.3
<i>Ostorhinchus fasciatus</i>	13.1
Others	14.8

Purse Seine Wet

Species	Yield (g)
<i>Sardinella albella</i>	2443.8
<i>Konosirus punctatus</i>	1184.5
<i>Thryssa kammalensis</i>	531.7
<i>Alepes djedaba</i>	485.2
<i>Nematalosa nasus</i>	356.5
<i>Eleutheronema tetradactylum</i>	253.4
<i>Ilisha elongata</i>	224.8
<i>Amblygaster sirm</i>	137.5
<i>Scomberomorus commerson</i>	137.4
<i>Stolephorus indicus</i>	127.7
<i>Valamugil cunnesius</i>	96.2
<i>Thryssa hamiltonii</i>	60.6
<i>Takifugu xanthopterus</i>	58.8
<i>Leiognathus brevirostris</i>	38.3
<i>Ambassis gymnocephalus</i>	33.7
<i>Hyporhamphus dussumieri</i>	30.7
<i>Pampus argenteus</i>	27.3
<i>Photopectoralis bindus</i>	24.9
<i>Coilia nasus</i>	20.8
<i>Scomberoides lysan</i>	19.3
Others	94.3

Gill Net Dry

Species	Yield (g)
<i>Siganus canaliculatus</i>	424.1
<i>Konosirus punctatus</i>	230.5
<i>Dendrophysa russelii</i>	215.1
<i>Gerres limbatus</i>	185.2
<i>Johnius macrorhynchus</i>	184.2
<i>Temnopleurus toreumaticus</i>	176.9
<i>Plotosus lineatus</i>	114.1
<i>Gerres japonicus</i>	98.1
<i>Metapenaeus joyneri</i>	90.6
<i>Leiognathus brevirostris</i>	86.6
<i>Pseudorhombus levisquamis</i>	56.3
<i>Charybdis sp</i>	40.7
<i>Fenneropenaeus merguensis</i>	39.8
<i>Oratosquilla oratoria</i>	36.8
<i>Parupeneus chrysopleuron</i>	36.1
<i>Monacanthus chinensis</i>	24.7
<i>Thryssa kammalensis</i>	13.5
<i>Parthenope sp</i>	6.6

Gill Net Wet

Species	Yield (g)
<i>Charybdis lucifera</i>	846.2
<i>Siganus canaliculatus</i>	790.2
<i>Temnopleurus toreumaticus</i>	654
<i>Rhynchopelates oxyrhynchus</i>	373.4
<i>Konosirus punctatus</i>	284.6
<i>Rhabdosargus sarba</i>	260.1
<i>Johnius macrorhynchus</i>	205.5
<i>Harpioquilla harpax</i>	182.5
<i>Charybdis sp</i>	139.8
<i>Johnius belangerii</i>	101
<i>Dendrophysa russelii</i>	91.8
<i>Leiognathus equulus</i>	77.1
<i>Parthenope sp</i>	73.2
<i>Leiognathus brevirostris</i>	62.2
<i>Stolephorus indicus</i>	43.8
<i>Halichoeres nigrescens</i>	41.9
<i>Thryssa hamiltonii</i>	36.3
<i>Paracentropogon rubripinnis</i>	32.8
<i>Platycephalus indicus</i>	26.8
<i>Murex trapa</i>	14.5

Hand line Dry

Species	Yield (g)
<i>Sebastiscus marmoratus</i>	1547.5
<i>Sillago sihama</i>	734
<i>Sciaenops ocellatus</i>	580
<i>Epinephelus bruneus</i>	460
<i>Leiognathus brevirostris</i>	75.7
<i>Nemipterus japonicus</i>	48.3

Hand line Wet

Species	Yield (g)
<i>Sebastiscus marmoratus</i>	406.8
<i>Sillago sihama</i>	344.5
<i>Epinephelus awoara</i>	287.6
<i>Lethrinus haematopterus</i>	257.5
<i>Monacanthus chinensis</i>	245
<i>Lagocephalus gloveri</i>	182.6
<i>Epinephelus merra</i>	181.6
<i>Terapon jarbua</i>	161.1
<i>Nemipterus japonicus</i>	75.1
<i>Scorpaenopsis neglecta</i>	72.5
<i>Myersina filifer</i>	48.7
<i>Evynnis cardinalis</i>	27.2
<i>Leiognathus brevirostris</i>	19.1
<i>Nuchequula nuchalis</i>	5.3

Abundance of Different Species in Sha Chau and Lung Kwu Chau Marine Park

Group	Species	Abundance
Fish	<i>Nematalosa nasus</i>	603
Fish	<i>Sardinella albella</i>	525
Fish	<i>Collichthys lucidus</i>	332
Fish	<i>Valamugil cunnesius</i>	252
Fish	<i>Leiognathus brevisrostris</i>	125
Others	<i>Temnopleurus toreumaticus</i> ☒	96
Fish	<i>Thryssa hamiltonii</i>	88
Others	<i>Turritella terebra</i>	86
Fish	<i>Thryssa kammalensis</i>	80
Fish	<i>Ilisha elongata</i>	43
Fish	<i>Alepes djedaba</i>	35
Fish	<i>Ambassis gymnocephalus</i>	31
Shrimp	<i>Metapenaeus affinis</i>	31
Crab	<i>Charybdis sp</i>	28
Fish	<i>Coilia nasus</i>	25
Fish	<i>Stolephorus indicus</i>	24
Fish	<i>Johnius belangerii</i>	16
Fish	<i>Sebastiscus marmoratus</i>	15
Fish	<i>Terapon jarbua</i>	14
Fish	<i>Pampus argenteus</i>	13
Fish	<i>Dendrophysa russelii</i>	13
Fish	<i>Trichiurus nanhaiensis</i>	12
Fish	<i>Konosirus punctatus</i>	11
Fish	<i>Sillago sihama</i>	10
Fish	<i>Johnius macrorhynchus</i>	10
Shrimp	<i>Fenneropenaeus merguensis</i>	9
Fish	<i>Pennahia anea</i>	9
Fish	<i>Nuchequula nuchalis</i>	8
Fish	<i>Halichoeres nigrescens</i>	6
Fish	<i>Pampus nozawae</i>	6
Fish	<i>Gerres limbatus</i>	5
Fish	<i>Hyporhamphus dussumieri</i>	5
Mantis shrimp	<i>Oratosquilla oratoria</i>	5
Fish	<i>Ostorhinchus fasciatus</i>	5
Fish	<i>Secutor ruconius</i>	4
Others	<i>Loligo</i>	4
Mantis shrimp	<i>Oratosquillina interrupta</i>	4
Fish	<i>Takifugu oblongus</i>	4
Shrimp	<i>Metapenaeus joyneri</i>	3
Fish	<i>Upeneus sulphureus</i>	3
Fish	<i>Lagocephalus gloveri</i>	3
Fish	<i>Platycephalus indicus</i>	3
Fish	<i>Takifugu niphobles</i>	3
Crab	<i>Charybdis lucifera</i>	2
Fish	<i>Acentrogobius caninus</i>	2
Fish	<i>Salanx ariakensis</i>	2
Fish	<i>Otolithes ruber</i>	2
Fish	<i>Johnius dussumieri</i>	2
Fish	<i>Harpadon nehereus</i>	2
Fish	<i>Nemipterus japonicus</i>	1
Fish	<i>Psenopsis anomala</i>	1
Fish	<i>Rhabdosargus sarba</i>	1
Mantis shrimp	<i>Harpisquilla harpax</i>	1
Fish	<i>Rhynchopelates oxyrhynchus</i>	1
Fish	<i>Scomberoides lysan</i>	1
Crab	<i>Paradorippe polita</i>	1
Fish	<i>Atherinomorus lacunosus</i>	1
Shrimp	<i>Alcockpenaeopsis hungerfordii</i>	1
Fish	<i>Polydactylus sextarius</i>	1
Fish	<i>Vespicula trachinoides</i>	1
Crab	<i>Charybdis feriata</i>	1
Fish	<i>Saurida tumbil</i>	1
Fish	<i>Solea ovata</i>	1
Crab	<i>Portunus sanguinolentus</i>	1
Fish	<i>Minous monodactylus</i>	1
Fish	<i>Butis butis</i>	1
Fish	<i>Terapon theraps</i>	1
Fish	<i>Lepidotrigla punctipectoralis</i>	1
	Total Abundance	2638
	Total Number of Species	68

Top 5 Dominant Species in Purse Seine, Gill Net and Handline Surveys

Species	Abundance
<i>Nematalosa nasus</i>	603
<i>Sardinella albella</i>	523
<i>Collichthys lucidus</i>	330
<i>Valamugil cunnesius</i>	252
<i>Leiognathus brevisrostris</i>	125

Abundance of Different Species from Different Survey Types

Purse Seine Dry

Species	Abundance
<i>Nematalosa nasus</i>	595
<i>Sardinella melanura</i>	255
<i>Valamugil cunnesius</i>	182
<i>Thryssa kammalensis</i>	38
<i>Ilisha elongata</i>	31
<i>Thryssa hamiltonii</i>	28
<i>Collichthys lucidus</i>	27
<i>Coilia nasus</i>	17
<i>Nuchequula nuchalis</i>	8
<i>Leiognathus brevisrostris</i>	8
<i>Ambassis gymnocephalus</i>	7
<i>Pampus argenteus</i>	5
<i>Alepes djedaba</i>	4
<i>Loligo</i>	3
<i>Trichiurus nanhaiensis</i>	3
<i>Konosirus punctatus</i>	2
<i>Otolithes ruber</i>	1
<i>Psenopsis anomala</i>	1
<i>Charybdis sp</i>	1
<i>Polydactylus sextarius</i>	1
Others	4

Purse Seine Wet

Species	Abundance
<i>Collichthys lucidus</i>	303
<i>Sardinella melanura</i>	268
<i>Leiognathus brevisrostris</i>	98
<i>Turritella terebra</i>	86
<i>Valamugil cunnesius</i>	70
<i>Thryssa hamiltonii</i>	60
<i>Thryssa kammalensis</i>	41
<i>Metapenaeus affinis</i>	31
<i>Alepes djedaba</i>	30
<i>Ambassis gymnocephalus</i>	24
<i>Stolephorus indicus</i>	22
<i>Ilisha elongata</i>	12
<i>Trichiurus nanhaiensis</i>	9
<i>Pennahia anea</i>	9
<i>Coilia nasus</i>	8
<i>Pampus argenteus</i>	8
<i>Nematalosa nasus</i>	8
<i>Pampus nozawae</i>	6
<i>Hyporhamphus dussumieri</i>	5
<i>Secutor ruconius</i>	3
Others	28

Gill Net Dry

Species	Abundance
<i>Leiognathus brevisrostris</i>	16
<i>Dendrophysa russelii</i>	13
<i>Terapon jarbua</i>	9
<i>Oratosquilla oratoria</i>	5
<i>Fenneropenaeus merguensis</i>	5
<i>Johnius belangerii</i>	5
<i>Oratosquillina interrupta</i>	4
<i>Konosirus punctatus</i>	4
<i>Gerres limbatus</i>	3
<i>Takifugu niphobles</i>	2
<i>Acentrogobius caninus</i>	2
<i>Collichthys lucidus</i>	2
<i>Charybdis sp</i>	2
<i>Sardinella melanura</i>	2
<i>Halichoeres nigrescens</i>	2
<i>Lepidotrigla punctipectoralis</i>	1
<i>Alepes djedaba</i>	1
<i>Portunus sanguinolentus</i>	1
<i>Charybdis feriatius</i>	1
<i>Secutor ruconius</i>	1
Others	4

Gill Net Wet

Species	Abundance
<i>Temnopleurus toreumaticus</i>	95
<i>Charybdis sp</i>	22
<i>Konosirus punctatus</i>	4
<i>Stolephorus indicus</i>	2
<i>Platycephalus indicus</i>	1
<i>Johnius belangerii</i>	1
<i>Charybdis lucifera</i>	1
<i>Rhabdosargus sarba</i>	1
<i>Halichoeres nigrescens</i>	1
<i>Rhynchopelates oxyrhynchus</i>	1

Hand line Dry

Species	Abundance
<i>Sebastiscus marmoratus</i>	10
<i>Sillago sihama</i>	5
<i>Takifugu oblongus</i>	4
<i>Gerres limbatus</i>	2
<i>Terapon jarbua</i>	2
<i>Leiognathus brevisrostris</i>	1

Hand line Wet

Species	Abundance
<i>Johnius macrorhynchus</i>	10
<i>Johnius belangerii</i>	9
<i>Sebastiscus marmoratus</i>	5
<i>Sillago sihama</i>	5
<i>Terapon jarbua</i>	3
<i>Halichoeres nigrescens</i>	3
<i>Ostorhinchus fasciatus</i>	3
<i>Lagocephalus gloveri</i>	3
<i>Leiognathus brevisrostris</i>	2
<i>Johnius dussumieri</i>	2
<i>Butis butis</i>	1
<i>Takifugu niphobles</i>	1
<i>Platycephalus indicus</i>	1
<i>Otolithes ruber</i>	1
<i>Terapon theraps</i>	1

Abundance of Different Species in Sha Chau and Lung Kwu Chau Marine Park

Group	Species	Yield (g)
Fish	<i>Nematalosa nasus</i>	44477.5
Fish	<i>Sardinella albella</i>	6629.7
Fish	<i>Valamugil cunnesius</i>	5932.3
Fish	<i>Ilisha elongata</i>	4371.2
Fish	<i>Pampus argenteus</i>	3860
Fish	<i>Collichthys lucidus</i>	1793.3
Fish	<i>Leiognathus brevisrostris</i>	1310.4
Others	<i>Temnopleurus toreumaticus</i> ☒	1015
Fish	<i>Johnius belangerii</i>	970.9
Fish	<i>Thryssa hamiltonii</i>	918.1
Fish	<i>Konosirus punctatus</i>	817.7
Others	<i>Turritella terebra</i>	686.9
Fish	<i>Thryssa kammalensis</i>	527
Crab	<i>Charybdis sp</i>	524.8
Fish	<i>Trichiurus nanhaiensis</i>	522.4
Fish	<i>Halichoeres nigrescens</i>	515
Fish	<i>Sillago sihama</i>	505.9
Fish	<i>Johnius macrorhynchus</i>	502.8
Fish	<i>Terapon jarbua</i>	477
Fish	<i>Sebastiscus marmoratus</i>	428.9
Fish	<i>Otolithes ruber</i>	400.2
Fish	<i>Coilia nasus</i>	381.1
Fish	<i>Dendrophysa russelii</i>	363
Fish	<i>Takifugu oblongus</i>	255.5
Fish	<i>Alepes djedaba</i>	238.5
Shrimp	<i>Fenneropenaeus merguensis</i>	230.7
Fish	<i>Pampus nozawae</i>	219.2
Crab	<i>Charybdis feriata</i>	180
Fish	<i>Gerres limbatus</i>	170.1
Fish	<i>Takifugu niphobles</i>	128.3
Fish	<i>Stolephorus indicus</i>	107.2
Mantis shrimp	<i>Oratosquilla oratoria</i>	102.9
Fish	<i>Ambassis gymnocephalus</i>	94.3
Fish	<i>Platycephalus indicus</i>	92.1
Fish	<i>Polydactylus sextarius</i>	88
Fish	<i>Pennahia anea</i>	80.5
Fish	<i>Hyporhamphus dussumieri</i>	79
Mantis shrimp	<i>Oratosquilla interrupta</i>	77.8
Fish	<i>Nuchequula nuchalis</i>	77.3
Crab	<i>Portunus sanguinolentus</i>	73.6
Shrimp	<i>Metapenaeus affinis</i>	73.5
Fish	<i>Lagocephalus gloveri</i>	71.9
Fish	<i>Johnius dussumieri</i>	67.3
Fish	<i>Ostorhinchus fasciatus</i>	62.6
Fish	<i>Rhynchopelates oxyrhynchus</i>	58.6
Fish	<i>Rhabdosargus sarba</i>	58.3
Crab	<i>Charybdis lucifera</i>	57.9
Fish	<i>Acentrogobius caninus</i>	50.8
Others	<i>Loligo</i>	45.3
Fish	<i>Psenopsis anomala</i>	44
Fish	<i>Upeneus sulphureus</i>	19.5
Shrimp	<i>Metapenaeus joyneri</i>	18.3
Fish	<i>Secutor ruconius</i>	17.6
Mantis shrimp	<i>Harpisquilla harpax</i>	16.5
Fish	<i>Terapon theraps</i>	15.9
Fish	<i>Butis butis</i>	12.5
Fish	<i>Scomberoides lysan</i>	12.3
Crab	<i>Paradorippe polita</i>	8
Fish	<i>Atherinomorus lacunosus</i>	7.6
Fish	<i>Harpadon nehereus</i>	6.9
Fish	<i>Salanx ariakensis</i>	5.5
Fish	<i>Nemipterus japonicus</i>	4.2
Fish	<i>Minous monodactylus</i>	4.2
Fish	<i>Lepidotrigla punctipectoralis</i>	4.2
Fish	<i>Vespicola trachinoides</i>	3.6
Fish	<i>Saurida tumbil</i>	3.1
Fish	<i>Solea ovata</i>	2.4
Shrimp	<i>Alcockpenaeopsis hungerfordii</i>	1.9
	Total Yield	80980.5

Top 5 Dominant Species in Purse Seine, Gill Net and Handline Surveys

Species	Yield (g)
<i>Nematalosa nasus</i>	44477.5
<i>Sardinella albella</i>	6537.6
<i>Valamugil cunnesius</i>	5932.3
<i>Ilisha elongata</i>	4371.2
<i>Pampus argenteus</i>	3860

Yield of Different Species from Different Survey Types

Purse Seine Dry

Species	Yield (g)
<i>Nematalosa nasus</i>	44029.9
<i>Valamugil cunnesius</i>	5293.6
<i>Sardinella albella</i>	3889.3
<i>Ilisha elongata</i>	2749.4
<i>Collichthys lucidus</i>	1006.6
<i>Thryssa hamiltonii</i>	646.9
<i>Pampus argenteus</i>	464.4
<i>Thryssa kammalensis</i>	421
<i>Coilia nasus</i>	267.3
<i>Trichiurus nanhaiensis</i>	252.9
<i>Konosirus punctatus</i>	132.3
<i>Leiognathus brevisrostris</i>	118.1
<i>Otolithes ruber</i>	105.7
<i>Alepes djedaba</i>	103
<i>Polydactylus sextarius</i>	88
<i>Nuchequula nuchalis</i>	77.3
<i>Fenneropenaeus merguensis</i>	44.1
<i>Psenopsis anomala</i>	44
<i>Loligo</i>	35.7
<i>Ambassis gymnocephalus</i>	34.5
Others	46.5

Gill Net Dry

Species	Yield (g)
<i>Johnius belangerii</i>	387.2
<i>Dendrophysa russelii</i>	363
<i>Terapon jarbua</i>	354.1
<i>Leiognathus brevisrostris</i>	328.5
<i>Konosirus punctatus</i>	309.2
<i>Charybdis feriatus</i>	180
<i>Fenneropenaeus merguensis</i>	159.6
<i>Halichoeres nigrescens</i>	129.4
<i>Gerres limbatus</i>	119.9
<i>Oratosquilla oratoria</i>	102.9
<i>Takifugu niphobles</i>	96
<i>Sardinella albella</i>	92.1
<i>Oratosquillina interrupta</i>	77.8
<i>Portunus sanguinolentus</i>	73.6
<i>Charybdis sp</i>	64.9
<i>Collichthys lucidus</i>	63.3
<i>Acentrogobius caninus</i>	50.8
<i>Alepes djedaba</i>	31.8
<i>Charybdis lucifera</i>	29
<i>Harpisquilla harpax</i>	16.5
Others	34.3

Hand line Dry

Species	Yield (g)
<i>Sebastiscus marmoratus</i>	274.4
<i>Takifugu oblongus</i>	255.5
<i>Sillago sihama</i>	234.1
<i>Halichoeres nigrescens</i>	169.9
<i>Terapon jarbua</i>	71.2
<i>Gerres limbatus</i>	50.2
<i>Leiognathus brevisrostris</i>	21.1

Purse Seine Wet

Species	Yield (g)
<i>Pampus argenteus</i>	3395.6
<i>Sardinella albella</i>	2648.3
<i>Ilisha elongata</i>	1621.8
<i>Collichthys lucidus</i>	723.4
<i>Turritella terebra</i>	686.9
<i>Thryssa hamiltonii</i>	663.5
<i>Valamugil cunnesius</i>	638.7
<i>Nematalosa nasus</i>	447.6
<i>Leiognathus brevisrostris</i>	423.8
<i>Trichiurus nanhaiensis</i>	269.5
<i>Pampus nozawae</i>	219.2
<i>Coilia nasus</i>	113.8
<i>Alepes djedaba</i>	103.7
<i>Thryssa kammalensis</i>	97
<i>Stolephorus indicus</i>	89.7
<i>Pennahia anea</i>	80.5
<i>Hyporhamphus dussumieri</i>	79
<i>Metapenaeus affinis</i>	73.5
<i>Konosirus punctatus</i>	66.5
<i>Ambassis gymnocephalus</i>	59.8
Others	165.1

Gill Net Wet

Species	Yield (g)
<i>Temnopleurus toreumaticus</i>	998.3
<i>Charybdis sp</i>	411
<i>Konosirus punctatus</i>	309.7
<i>Platycephalus indicus</i>	73.5
<i>Halichoeres nigrescens</i>	62.4
<i>Rhynchopelates oxyrhynchus</i>	58.6
<i>Rhabdosargus sarba</i>	58.3
<i>Charybdis lucifera</i>	28.9
<i>Johnius belangerii</i>	25.8
<i>Stolephorus indicus</i>	17.5

Hand line Wet

Species	Yield (g)
<i>Johnius belangerii</i>	552.3
<i>Johnius macrorhynchus</i>	502.8
<i>Otolithes ruber</i>	294.5
<i>Sillago sihama</i>	271.8
<i>Sebastiscus marmoratus</i>	154.5
<i>Halichoeres nigrescens</i>	153.3
<i>Lagocephalus gloveri</i>	71.9
<i>Johnius dussumieri</i>	67.3
<i>Ostorhinchus fasciatus</i>	57.9
<i>Terapon jarbua</i>	51.7
<i>Takifugu niphobles</i>	32.3
<i>Leiognathus brevisrostris</i>	26.6
<i>Terapon theraps</i>	15.9
<i>Platycephalus indicus</i>	13.5
<i>Butis butis</i>	12.5