







June 2023

Marine Fisheries Research and Development Institute (MaFReDI)

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Abbreviations

CPUE Catch per Unit Effort EU European Union

ε% Relative Standard Error

FAO Food and Agriculture Organization

FCMAS Fish Catch Monitoring Assessment Survey

FiA Fisheries Administration

FiAC Fisheries Administration Cantonment

KHR Khmer Riel

MaFReDI Marine Fisheries Research and Development Institute

MT Metric Tons

nei not elsewhere included SD Standard Deviation US\$ United States Dollars

Executive Summary

The data for June 2023, shows that the CPUE of trawl fishing is the highest at 191.7 kg/fishing day, followed by middle-scale half-beak gillnet (101.2 kg/day), fish gillnet (78 kg/day) and Octopus trap long line (47 kg/day). There is a distinct difference in the CPUE for small and large trawlers, with trawlers of 6-12 meters reporting an average daily catch of 62.5 kg and trawlers 12-18 meters reporting 451 kg/day.

A total of 43 individual species are recorded with *Encrasicholina heteroloba* (shorthead anchovie) contributing more than 70% of the total recorded catch for 224 landings of **103,763** kg. In general, fish contribute 85% of the total reported catch, followed by Cephalopods 10%, Shrimps 2% and crabs at 1%. In terms of value, Cephalopods contribute 46%, fish 35%, Crabs 10% and shrimp 6%. The total value of the reported catch is **384,418,000** Riels.

The total estimated catch for June 2023, is calculated at 7,423 MT, with most of it from trawl fishing (66%) and with small-scale fishing contributing more than 17%. The total value of the estimated catch, using the average reported price, is **27,496,273,600** KHR or US\$ **6,706,408**.

1. Introduction

With technical assistance from FAO CAPFISH project under EU budget support, Marine Fisheries Research and Development Institute (MaFReDI) has been conducting scientific catch monitoring at landing site in four provinces since June 2021. The aim of the survey is to estimate the Catch per Unit of Effort (CPUE) in kg/fishing day, for the main fishing gears used, the monthly fishing effort, species catch and value, as well as the total estimated catch, from data collected at the main landing sites in Kampot, Kep, Koh Kong and Preah Sihanouk provinces. This report describes the main results for marine fish catch monitoring at national level in Cambodia for June 2023.

Additional details on findings for individual provinces based on priority needs and requests from fisheries administration cantonment (FiAC) are included in a number of annexes.

2. Methodology

The methodology, sampling design and survey form for the Fish Catch Monitoring Assessment Survey (FCMAS) is included in a manual, which is available from the FiA web-site:

Fisheries Administration (FiA) 2021. Manual for Fish Catch Monitoring Assessment for Marine Fisheries in Cambodia. Marine Fisheries Research and Development Institute of the Fisheries Administration, Phnom Penh, Cambodia. 38 pages.

3. RESULTS

3. 1. Number of vessels/landings recorded in June

Data collection for June 2023 was conducted at 8 fishing landing sites, two in each coastal province (Table 1). Overall, landings for 52 small-scale vessels and 172 middle-scale vessels were recorded. Middle-scale vessels includes vessels with a length 12-24 meter and all trawlers regardless of size, as well as all vessels operating blood cockle dragnet.

Table 1. Number of the landings recorded by province and landing site.

Province	Landings	Vesse	Grand Total	
Province	Lanungs	Small Scale	Middle Scale	Grand Total
Kampat	Kampong Kandal	1	27	28
Kampot	Trapeang Ropov	13	15	28
Кер	Ampeng	9	19	28
	Ou Krasar	5	23	28
Kah Kana	Oknha Lyon Phat	12	16	28
Koh Kong	Thmasar	10	18	28
Drook Cihanauk	Stueng Hav		28	28
Preah Sihanouk	Tumnup Rolok	2	26	28
Grand Total		52	172	224

All landing sites are covered for the same four consecutive survey days, recording the catches for seven random landings for each day, through a combination of interviews (recall survey) and trader/fisher records.

3. 2. Catch per Unit of Effort by main gears

As the FCMAS uses random sampling of landings, the number of records for fishing gears varies between months, but reflect the occurrence and frequency of gears used at the landing sites covered by the survey. Only gears with 2 or more observations, are included in Table 2, as this allows to assess the statistical accuracy by calculating the relative standard error (ε%) of the average CPUE. Trawling has the highest CPUE at 191.7 kg/fishing day, followed by middle-scale half-beak gillnet (101 kg/day), fish gillnet (78 kg/day), Mackerel gillnet (69.6 kg/day) and Octopus trap long line (46.8 kg/day). Small-scale gears with the highest CPUE are fish gillnet at 60.2 kg/day and Centipede trap (17.4 kg/day) and are largely comparable for the same gears used by middle-scale vessels.

Table 2. CPUE (kg/day) for main small- and middle-scale gears.

Middle Scale	CPUE	N	SD	ε%
Trawl	191.7	96	293.5	15.6%
Halfbeak gillnet	101.2	2	1.6	1.2%
Fish gillnet	78.0	5	26.8	15.4%
Mackerel Gillnet	69.6	2	42.9	43.6%
Octopus trap longline	46.8	10	12.5	8.4%
Shrimp gillnet	27.7	6	5.9	8.7%
Crab trap	22.1	10	6.3	9.0%
Crab gillnet	20.9	26	10.6	10.0%
Centipede trap	19.3	5	9.8	22.8%
Dragged basket for blood cockle	9.8	4	5.0	25.6%
Small-scale	CPUE	N	SD	ε%
Fish gillnet	60.2	13	42.5	19.6%
Centipede trap	17.4	12	4.3	7.1%
Bottom longline for Squid	15.5	11	21.6	42.1%
Crab gillnet	14.9	8	11.7	27.6%
Crab trap	13.9	2	1.6	8.3%

The value for $\epsilon\%$ indicates the statistical precision, or the expected margin of the estimated average CPUE around the real value of the CPUE. If the value for the $\epsilon\%$, is higher than 25%, this indicates that the estimated average value is not reliable and should not be used. As Table 2, shows this only is an issue for a few gears that have a high variation relative to the estimated CPUE, most likely caused by differences in the amount of gear deployed. For most gears, the statistical precision is acceptable.

Table 3. CPUE (kg/day) for trawlers by vessel size.

Trawlers	CPUE	N	SD	ε%
Small-scale 6-12m	62.5	63	113.1	22.8%
Middle-scale 12-18m	451.3	32	366.2	14.3%

Gears operated both by small- and middle-scale vessels see limited differences, except for active fishing gears like trawlers. The CPUE for trawlers sees a high difference between vessel size class (Table 3), with the CPUE for middle-scale trawlers 12-18 meter at over 450 kg/day, more than 7 times higher than for 6-12 meter trawlers at 62.5 kg/day.

3. 3. Catch proportion by main gears

Trawlers have the highest contribution to the total catch overall, with 85.8% of the reported catch by trawlers. Fish gillnet have the highest contribution to the total catch for small-scale vessels. Middle-scale fisheries, contribute more than 97% of the total recorded catch, besides trawlers, other middle-scale gears contribute 11.4% of the reported catches. Small-scale fishing only contributes 2.8% of the total recorded fisheries yield.

Table 4. Proportion of catch by main fishing gear for small-scale and middle-scale gears

Middle Scale (97.2%)	Catch (%)
Trawl	85.8%
Octopus trap longline	2.6%
Halfbeak gillnet	2.4%
Unspecified gears	1.9%
Mackerel Gillnet	1.5%
Encircling seine	0.8%
Fish gillnet	0.7%
Crab gillnet	0.6%
Crab trap	0.4%
Squid tow longline	0.2%
Shrimp gillnet	0.2%
Other gears	0.2%

Small Scale (2.8%)	Catch (%)
Fish gillnet	0.8%
Fish trap	0.7%
Bottom longline for Squid	0.6%
Centipede trap	0.2%
Other gears	0.5%

	Total	Kampot	Кер	Koh Kong	Preah Sihanouk
Trawl	88,987.7	0.9%	0.6%	7.3%	91.2%
Other middle-scale	11,803.5	42.7%	4.8%	32.2%	20.3%
Small-scale	2,873	26.7%	8.9%	53.9%	10.4%
Total	103,664.2	6.4%	1.3%	11.4%	80.9%

In addition, when considering the fisheries production by province, for June 2023, the vast majority of the trawl fisheries production is reported from Preah Sihanouk followed at considerable distance by Koh Kong, with Kampot and Kep only contributing 1.5%. Most of the production by other middle-scale fisheries is by Kampot and Koh Kong, with most of the small-scale production reported in Koh Kong (see for additional details Annex 3.

3.4. Species group catch contribution by landed weight

The total reported catch for all species group was 103,664.2 kg, fish dominate the total reported catch with almost 85% of total weight followed by Cephalopods 10.2%, Shrimps at 2.2%, Crabs at 1.4% and unspecified species group at 1.2% (see Annex 1). Other species groups (sharks, rays and shellfish), contribute only 0.4%.

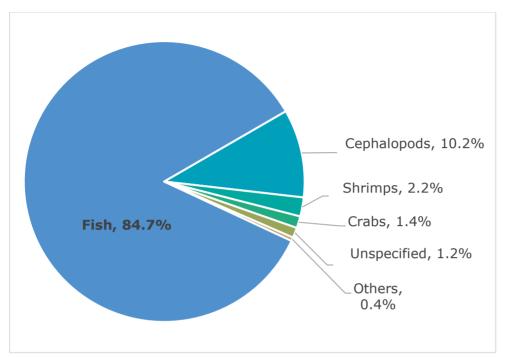


Figure 1. Catch composition by species group for all landings combined.

3.5. Species catch composition by reported catch weight for all landings

The total reported catch for June was 103,763 kg. The proportional catch by species is shown in Table 5. The most abundant species is the Shorthead anchovy (*Encrasicholina heteroloba*), which contributes 71.4% of the total reported catch. This is followed by a number of species groups, squids (5.7%), Other fish (4.7%), Octopus (2.7%) and trash fish (2.3%) and Black barred halfbeak (*Hemiramphus far*) with 1.4% and Swimming crab (*Portunus pelagicus*) with 1.2%. The top 20 species (and species groups) contribute 98.3% of the reported catch.

Table 5. Catch composition by species for all landings.

Scientific name	English Name	Khmer name	Catch (kg)	Catch (%)
Encrasicholina heteroloba	Shorthead anchovy	កាកឹម	74,100.0	71.4%
	Squids nei	មឹក	5,902.0	5.7%
	Other fish nei	ប្រភេទត្រីចំរុះ	4,891.0	4.7%
	Octopus	មឹកពីងពាង	2,844.0	2.7%
	trash fish	ត្រីជី	2,378.0	2.3%
Hemiramphus far	Blackbarred halfbeak	ត្រីផ្ទោងផ្កា	1,500.0	1.4%
Portunus pelagicus	Swimming crab	ក្ដាមសេះ	1,339.9	1.3%
	Other catch nei	ផ្សេងៗ	1,220.0	1.2%

	Cephalopods (squids/cuttlefish)	ពពួកមឹកស្នូកនិងមឹក បំពង់	1,099.9	1.1%
Anodontostoma chacunda	Chacunda gizzard shad	ត្រីកាម៉យ	1,093.0	1.1%
Penaeus sp.	Prawns nei	បង្គា	1,087.0	1.0%
	Needlefish nei	ត្រីផ្ទោង	932.0	0.9%
Suborder Sepiina	Cuttlefish	មឹកស្នុក	693.9	0.7%
Rastrelliger kanagurta	Indian mackerel	ត្រីកាម៉ុងខ្លួនវែង	600.0	0.6%
Metapenaeus spp.	Shrimps	បង្គាឱ់ខាក់	532.9	0.5%
		ត្រីផ្លាធូ ឫត្រីកាម៉ុង		
Rastrelliger brachysoma	Short mackerel	న్ని నిన్ని	450.0	0.4%
Siganus canaliculatus	Whitespotted Spinefoot	ត្រីកន្តាំងក្រអូម	437.0	0.4%
	Small mixed shrimp nei	គី	310.0	0.3%
Nemipterus furcosus	Forktailed Threadfin Bream	ត្រីក្រហមស្រកាទន់	300.0	0.3%
Decapterus maruadsi	Round scad	ត្រីកូនគុំ	300.0	0.3%
	Other species		1,752.6	1.7%
Grand total			103,763.2	

3.6. Species group contribution by landed value

The total reported value for June was 384,418,000 Riels, Cephalopods contribute 46.3%, Fish 34.8%, Crabs 9.6% and Shrimps 6.3%. Unspecified species groups contribute 2.1%, while Sharks, rays and shellfish contribute 1% of the total value (more details are included in Annex 2).

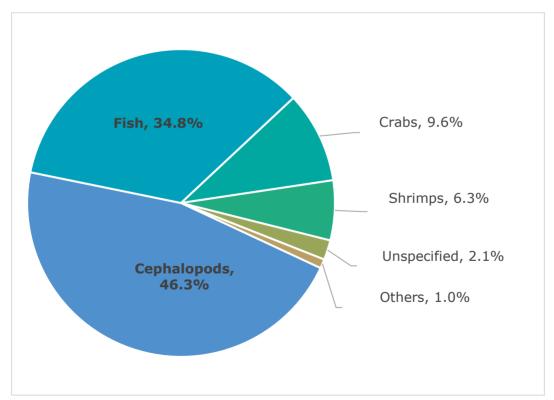


Figure 2. The value of the catch by main species groups for all landings

3.7. Species catch composition by reported catch value for all landings

The total reported value for June was 384,418,000 Riels for all species, the value and price for the top 20 species is shown in Table 6. The species (group) with the highest reported value is squids (30.1%), followed by Shorthead anchovy (17.3%), despite the low price of 875 Riel/kg, the high reported weight ensures this has a high contribution to the total catch. Besides a number of cephalopods species groups (Squids, Octopus and Cuttlefish), Swimming crabs (9.5%) and Cobia (5.2%), also are important, either through their bulk or high prices. Other fish (unspecified) contribute 3.2% of the total reported value.

Table 6. Total value (1000 Riel) by species for all landing

Species name	Common name	Value (1000 Riels)	Value (%)	Price (Riel/kg)
	Squids nei	115,760	30.1%	21,700
Encrasicholina heteroloba	Shorthead anchovy	66,400	17.3%	875
Portunus pelagicus	Swimming crab	36,349	9.5%	24,925
	Octopus	31,606	8.2%	10,750
Rachycentron canadum	Cobia	20,000	5.2%	80,000
	Cephalopods (squids/cuttlefish)	17,274	4.5%	13,600
Suborder Sepiina	Cuttlefish	13,191	3.4%	13,225
	Other fish nei	12,348	3.2%	3,100
Metapenaeus spp.		10,718	2.8%	18,300
Hemiramphus far	Blackbarred halfbeak	9,000	2.3%	6,000
	Other catch nei	7,958	2.1%	11,675
Penaeus sp.	Prawns nei	7,930	2.1%	13,100
Rastrelliger kanagurta	Indian mackerel	3,600	0.9%	6,000
Rastrelliger brachysoma	Short mackerel	3,600	0.9%	8,000
Epinephelus coioides	Orange-spotted grouper	3,500	0.9%	17,500
	Needlefish nei	3,396	0.9%	7,525
Siganus canaliculatus	Whitespotted Spinefoot	2,576	0.7%	4,325
Anodontostoma chacunda	Chacunda gizzard shad	2,057	0.5%	1,725
Decapterus maruadsi	Round scad	1,800	0.5%	6,000
	Shrimps nei	1,779	0.5%	9,325
	Other species	13,579	3.5%	
Grand Total		384,418		

The comparatively high proportion of low value anchovy in the reported catches, means that the average price is about 3705 KHR/kg.

3.8. Total calculated catch

The total estimated catch is calculated separately for a number of vessel-gear classes to reduce the variability in the observed CPUE. In view of the importance of trawl fisheries and high variability in CPUE which is closely related to vessel length and engine power, trawlers are separated into three size-based classes ¹, in addition to standard FiA vessel classes. Monthly vessel yield is based on independent estimates for the CPUE (average daily catch) and the monthly fishing days, while extrapolation uses number of vessels for each vessel-gear category obtained from the 2018 vessel census, while assuming only 85% are operating².

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¹ Trawl gears are not reported by type in the 2023 data

² Based on information by FiAC staff

The total calculated catch for June 2023, is 7,423.4 MT. As for the reported catch, by far the largest contribution to the total estimated catch is by trawlers, for a total of 66.6%, with small-scale vessels contributing more than 17%. Because of insufficient observations for some vessel-gear categories for individual months, the monthly total estimated catch calculation in **Error! Not a valid bookmark self-reference.**, is using the annual average values for the CPUE and Effort for Small-scale < 6-meter, Trawler 18-24 meter and Large-scale > 24 meter. Only a few landings for these vessel-gear classes are recorded over the year, the value for ε % therefore represents the annual values.

Table 7. Total estimated catch by main vessel gear categories.

Vessel-gear category	Recorded landings	CPUE	ε%	Effort	Monthly vessel yield (kg)	Active Vessels (85%)	Total Monthly yield (MT)	%Total
Very small<6 meter	1	5.5	(7.0%)	5.0	27.5	775.2	21.3	0.3%
Small-scale 6-<12 meter	51	28.3	15.2%	17.3	490.5	2658	1,303.8	17.6%
Trawl 6-<12 meter	63	62.5	22.8%	19.6	1,225.1	952.0	1,166.3	15.7%
Trawl 12-18 meter	32	451.3	14.3%	23.6	10,661.9	339.2	3,616.0	48.7%
Trawl 18-<24 meter	1	220.8	(88.7%)	16.0	3,533.3	42.5	150.2	2.0%
Other gears 12-18 m	75	32.9	9.2%	16.1	531.4	1588.7	844.2	11.4%
Other gears 18-<24 m	1	100.0	-	20.0	2,000.0	55.3	110.5	1.5%
Large-scale 24+ meter	0	1,340.7	(63.8%)	17.5	23,462.5	9.0	211.2	2.8%
June Total Estimated Catch							7,423.4	

While the values for ε %, for most of the vessel-gear categories is acceptable, even when taking annual estimates, the statistical precision for vessels larger than 18 meters is insufficient. However, since these vessel-gear classes contribute less than 6.3% to the total estimated catch, there is confidence that the total catch is close to the actual value.

Using the average reported price, the total value of the estimated catch can be calculated as **27,496,273,600** KHR or US\$ **6,706,408**. However, the uncertainty over how well the sample represents catches by middle-scale fishing, also applies here and the calculated value is only indicative of the actual value.

Annex 1. Catch composition by species group for all landing, by weight and value.

Species group	Total weight (kg)	Total weight% (kg)
Fish	87,899.0	84.7%
Cephalopods	10,539.8	10.2%
Shrimps	2,265.7	2.2%
Crabs	1,411.2	1.4%
Unspecified	1,220.0	1.2%
Shellfish	365.0	0.4%
Rays	60.5	0.1%
Sharks	2.0	0.0%
Grand Total	103,763.2	

Species Group	Total value (1000 Riels)	Total value (%)
Cephalopods	177,830	46.3%
Fish	133,885	34.8%
Crabs	36,887	9.6%
Shrimps	24,169	6.3%
Other	7,958	2.1%
Shellfish	2,929	0.8%
Rays	750	0.2%
Sharks	12	0.0%
Grand Total	384,420	
Average price	3,705 KHR/kg	

Annex 2. Catch contribution by gear type and province.

Gear Type	Koh Kong	Preah Sihanouk	Kampot	Кер	Grand Total
Trawl	7.3%	91.2%	0.9%	0.6%	88,987.7
Octopus trap longline	88.4%	11.6%	-	-	2,657.0
Halfbeak gillnet	-	-	100.0%	-	2,535.0
Others	-	100.0%	-	-	2,150.0
Mackerel Gillnet	-	-	100.0%	-	1,550.0
Fish gillnet	-	-	97.9%	2.1%	1,532.5
Encircling seine	100.0%	-	-	-	810.0
Bottom longline for Squid	100.0%	-	-	-	730.0
Fish trap	100.0%	-	-	-	730.0
Crab gillnet	23.9%	-	-	76.1%	688.1
Crab trap	46.4%	-	50.1%	3.5%	430.8
Centipede trap	23.3%	-	-	76.7%	332.3
Squid tow longline	77.4%	22.6%	-	-	310.0
Shrimp gillnet	-	100.0%	-	-	166.3
Dragged basket blood cockle	100.0%	-	-	-	39.0
Fish bottom longline	100.0%	-	-	-	10.0
Hand push net	-	-	100.0%	-	5.5
Multiple gears	-	-	100.0%	-	92.0
Grand Total	11.4%	80.9%	6.4%	1.3%	103,756.2

The multiple gears category includes landings using combinations of different types of trawl, fish gillnets and/or traps

Annex 3. Calculated CPUE by province

Province	Vessel Class	Gear Type	Average CPUE	N	SD	ε%
Kampot	Middle Scale	Crab trap	22.6	9	6.5	9.6%
		Fish gillnet	78.0	5	26.8	15.4%
		Halfbeak gillnet	101.2	2	1.6	1.2%
		Mackerel Gillnet	69.6	2	42.9	43.6%
		Trawl	34.2	23	15.3	9.3%
	Small Scale	Fish gillnet	68.2	11	41.2	18.2%
Кер	Middle Scale	Centipede trap	19.1	4	11.4	29.7%
		Crab gillnet	22.7	21	9.9	9.6%
		Trawl	31.2	17	5.0	3.9%
	Small Scale	Centipede trap	16.9	9	4.6	9.2%
		Crab gillnet	19.0	2	14.1	52.6%
		Fish gillnet	16.3	2	12.4	53.8%
Koh Kong	Middle Scale	Crab gillnet	13.2	5	10.8	36.6%
		Dragged basket for blood cockle	9.8	4	5.0	25.6%
		Octopus trap longline	45.7	8	13.9	10.8%
		Trawl	69.9	12	68.0	28.1%
	Small Scale	Bottom longline for Squid	15.5	11	21.6	42.1%
		Centipede trap	19.0	3	3.0	9.2%
	_	Crab gillnet	13.6	6	11.9	35.8%
			T			ı
Preah Sihanouk	Middle Scale	Octopus trap longline	51.2	2	1.6	2.3%
		Others	102.5	2	53.0	36.6%
		Shrimp gillnet	27.7	6	5.9	8.7%
		Trawl	369.3	44	359.4	14.7%

Annex 4. Species catch by province

Scientific Name	Khmer Name	English Name	Koh Kong	Preah Sihanouk	Kampot	Кер	Total (kg)	
Encrasicholina heteroloba	កាកឹម	Shorthead anchovy	0.0%	100.0%	0.0%	0.0%	74100.0	71.4%
	មឹក	Squids nei	80.0%	19.9%	0.1%	0.0%	5902.0	5.7%
	ប្រភេទត្រីចំរុះ	Other fish nei	40.9%	53.1%	3.6%	2.4%	4891.0	4.7%
	ត្រីជី	trash fish	1.7%	89.8%	0.0%	8.5%	2378.0	2.3%
	ពពួកមឹកពីងពាង	Octopus	99.5%	0.5%	0.0%	0.0%	2110.0	2.0%
Hemiramphus far	ត្រីផ្ទោងផ្កា	Blackbarred halfbeak	0.0%	0.0%	100.0%	0.0%	1500.0	1.4%
Portunus pelagicus	ក្ដាមសេះ	Swimming crab	24.4%	17.4%	22.4%	35.8%	1339.9	1.3%
	ផ្សេងៗ	Other catch nei	0.0%	0.0%	96.6%	3.4%	1220.0	1.2%
	ពពួកមឹកស្នុកនិងមឹកបំពង់	Cephalopods (squids/cuttlefish)	0.0%	98.5%	0.9%	0.5%	1099.9	1.1%
Anodontostoma chacunda	ត្រីកាម៉យ	Chacunda gizzard shad	0.0%	1.2%	98.8%	0.0%	1093.0	1.1%
Penaeus sp.	បង្គា	Prawns nei	21.9%	56.9%	1.8%	19.4%	1087.0	1.0%
	ត្រីផ្ទោង	Needlefish nei	0.0%	0.0%	96.6%	3.4%	932.0	0.9%
Suborder Sepiina	មឹកស្នុក	Cuttlefish	34.6%	55.8%	3.9%	5.8%	693.9	0.7%
Rastrelliger kanagurta	ត្រីកាម៉ុងខ្លួនវែង	Indian mackerel	0.0%	0.0%	100.0%	0.0%	600.0	0.6%
Metapenaeus spp.	បង្ហាឱ់ខាក់		13.8%	86.2%	0.0%	0.0%	532.9	0.5%
	មឹកពីង៣ង	Octopus	0.0%	74.8%	23.1%	2.1%	484.0	0.5%
Rastrelliger brachysoma	ត្រីផ្លាធូ ឫត្រីកាម៉ុងខ្លួនខ្លី	Short mackerel	11.1%	0.0%	88.9%	0.0%	450.0	0.4%
Siganus canaliculatus	ត្រីកន្តាំងក្រអូម	Whitespotted Spinefoot	80.1%	0.0%	19.9%	0.0%	437.0	0.4%
	គី	Small mixed shrimp nei	0.0%	100.0%	0.0%	0.0%	310.0	0.3%

Nemipterus furcosus	ត្រីក្រហមស្រកាទន់	Forktailed Threadfin Bream	100.0%	0.0%	0.0%	0.0%	300.0	0.3%
Decapterus maruadsi	ត្រីកូនគុំ	Round scad	100.0%	0.0%	0.0%	0.0%	300.0	0.3%
	ខ្យង ម៉ឹក ក្ដាមផ្សេងៗ	Shellfish nei	100.0%	0.0%	0.0%	0.0%	270.0	0.3%
(blank)	មឹកពីង៣ង	Octopus	100.0%	0.0%	0.0%	0.0%	250.0	0.2%
Rachycentron canadum	ត្រីផ្ទក់សមុទ្រ	Cobia	100.0%	0.0%	0.0%	0.0%	250.0	0.2%
	ពពួកបង្គាគ្រប់ប្រភេទទាំង អស់	Shrimps (unsorted)	0.0%	100.0%	0.0%	0.0%	239.0	0.2%
Rastrelliger faughni	ត្រីប៉ាឡាំង	Island mackerel	0.0%	0.0%	100.0%	0.0%	130.0	0.13%
Epinephelus coioides	ត្រីតុកកែកៅ	Orange-spotted grouper	100.0%	0.0%	0.0%	0.0%	100.0	0.10%
Nemipterus hexodon	ត្រីអាងគីមលី	Ornate treadfin bream	100.0%	0.0%	0.0%	0.0%	80.0	0.08%
Carangoides bajad	ត្រីឆៃកាម	Orangespotted trevally	100.0%	0.0%	0.0%	0.0%	60.0	0.06%
	បង្កងកណ្ដូប	Mantis shrimp	19.9%	3.4%	76.8%	0.0%	59.4	0.06%
	ត្រីសេក	Parrot fish	0.0%	0.0%	71.4%	28.6%	56.0	0.05%
	សប្បីសត្វ ពពួកខ្យង គ្រំ ងាវ	Mollusks nei	8.9%	0.0%	0.0%	91.1%	56.0	0.05%
	ត្រីក្តចិន	Lizardfish	0.0%	0.0%	100.0%	0.0%	50.0	0.05%
	ពពួកក្ដាម (រួមទាំងក្ដាមសេះ ក្ដាមថ្ម ក្ដាមជ័រ ជាដើម)	Crabs nei	0.0%	0.0%	0.0%	100.0%	41.0	0.04%
Anadara granosa	គ្រែងឈាម	Blood cockle	100.0%	0.0%	0.0%	0.0%	39.0	0.04%
Pseudorhombus arsius	ត្រីអណ្តាតឆ្កែ	Largetooth flounder	8.3%	77.8%	0.0%	13.9%	36.0	0.03%
	បបែល	Rays nei	0.0%	100.0%	0.0%	0.0%	34.0	0.03%
Brevitrygon imbricata	បបែលមាន់	Scaly whipray	0.0%	0.0%	0.0%	100.0%	23.5	0.02%
Myrophis microchir	អន្ទង់សមុទ្រ	Ordinary Snake eel	0.0%	0.0%	0.0%	100.0%	21.0	0.02%

Pampus argenteus	ត្រីចាបស	Silver pomfret	0.0%	0.0%	0.0%	100.0%	20.0	0.02%
Lactarius lactarius	ត្រីស្លឹកខ្នុរ	False trevally	0.0%	0.0%	100.0%	0.0%	20.0	0.02%
Penaeus monodon	បង្ហាខ្លឹង	Giant tiger prawn	0.0%	100.0%	0.0%	0.0%	19.0	0.02%
	បង្កងប៉ាក	Shrimps nei	0.0%	100.0%	0.0%	0.0%	18.4	0.02%
	ត្រីកិ	Pony fishes	0.0%	100.0%	0.0%	0.0%	18.0	0.02%
Sillago ingenuua	ត្រីព្រលួសធម្មតា	Bay sillago	0.0%	0.0%	0.0%	100.0%	10.0	0.01%
Episesarma versicolor	ក្ដាមជ័រ	Violet vinegar crab	100.0%	0.0%	0.0%	0.0%	10.0	0.01%
Diagramma pictum	ត្រីកាជី	Painted sweetlips	0.0%	0.0%	0.0%	100.0%	10.0	0.01%
Arius maculatus	ត្រីក្អុក	Spotted catfish	100.0%	0.0%	0.0%	0.0%	10.0	0.01%
	ក្ដាមផ្សេងៗ		0.0%	0.0%	0.0%	100.0%	10.0	0.01%
Cheilinus diagrammus	ត្រីសេកថ្ពាល់ឆ្នូត	Cheeklinedmaori wrasse	0.0%	0.0%	0.0%	100.0%	9.5	0.01%
Acanthurus sp.	ត្រីកាតាំង	Surgeonfish	50.0%	0.0%	50.0%	0.0%	6.0	0.01%
	ត្រីកន្តាំង	Rabbitfish	0.0%	100.0%	0.0%	0.0%	6.0	0.01%
Sillago sihama	ត្រីព្រលួស	Silver sillago	54.5%	0.0%	0.0%	45.5%	5.5	0.01%
Scylla serrata	ក្ដាមថ្ម	Mud crab	100.0%	0.0%	0.0%	0.0%	5.3	0.01%
Saurida undosquamis	ត្រីក្តចិនអុជខ្មៅ	Bushtooth lizarfish	0.0%	100.0%	0.0%	0.0%	5.0	0.005%
Portunus spp.	ក្ដាមសេះ	Swimming crabs	0.0%	0.0%	0.0%	100.0%	5.0	0.005%
Crenimugil seheli	ត្រីក្បក	Bluespot mullet	100.0%	0.0%	0.0%	0.0%	5.0	0.005%
Maculabatis gerrardi	បបែលអុជ	Whitespottted whipray	0.0%	0.0%	0.0%	100.0%	3.0	0.003%
Leiognathus leuciscus	ត្រីកិ	Whipfin ponyfish	0.0%	100.0%	0.0%	0.0%	3.0	0.003%
Decapterus macrosoma	ត្រីកាម៉ុងឬត្រីប្លាធូ	Shortfin scad	0.0%	100.0%	0.0%	0.0%	2.5	0.002%
Thryssa hamiltonii	ត្រីស្លឹកឬស្សី	Hamilton's thryssa	0.0%	100.0%	0.0%	0.0%	2.0	0.002%

Scomberomorus sp.	ត្រីបេកា	Spanish mackerel species nei	0.0%	100.0%	0.0%	0.0%	2.0	0.002%
	ឆ្លាម	Sharks	0.0%	100.0%	0.0%	0.0%	2.0	0.002%
Eleutheronema tetradactylum	ត្រីការ៉ាវ	Fourfinger threadfin	100.0%	0.0%	0.0%	0.0%	0.5	0.0001%
Grand Total							103,763.2	