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**Programme for Sustainable and Inclusive Growth
in the Fisheries Sector: Capture Component
(CAPFISH-Capture)**

**Catch Monitoring Assessment Survey of Marine Fisheries Production
at Landing Sites in Cambodia**

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MONTHLY STATISTICAL REPORT OF MARINE FISHERIES PRODUCTION IN NOVEMBER 2022

Prepared: Marine Fisheries Research and Development Institute (MaFReDI)

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1. Introduction and methodology

MaFReDI, with technical assistance from FAO CAPFISH project under EU budget support, is currently piloting scientific catch monitoring at marine landing sites in the four coastal provinces in Cambodia. The aim is to obtain better information on catch and effort by marine fisheries in Cambodia, and to develop a sustainable catch monitoring methodology for implementation by provincial fisheries administrations, supported by MaFReDI. Coverage of landing sites and fishery sectors is gradually expanded, since the start of catch monitoring in July 2021. The current statistical report, provides preliminary analysis based on sample data and focuses on the main indicators that are covered by the catch monitoring sample survey. Therefore, the results do not represent final estimates and may be changed in future updates.

A description of the methodology can be found in: 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.

Data collection for November 2022 was conducted at 8 fish landing sites in all coastal provinces.

Table 1. Number of random selected landings recorded by vessel class and landing site.

Province	Landing site	Small Scale	Middle Scale
Koh Kong	Oknha Lyon Phat	7	21
Koh Kong	Thmasar	15	13
Preah Sihanouk	Stueng Hav		28
Preah Sihanouk	Tumnup Rolok		28
Kampot	Kampong Kandal		28
Kampot	Trapeang Ropov	15	13
Kep	Ampeng	7	21
Kep	Oukrasa	12	24
Grand Total		56	176

Middle-scale vessels includes vessel length 12-24 and all trawlers regardless of size, as well as all vessels operating blood cockle dragnet.

2. Statistical tables and results

2.1. Reported catch by gear

Table 2. Mean reported catch in sampled landings (kg) for November 2022.

Province	Landing site	Gear	Small scale		Middle	
			Mean	ε%	Mean	ε%
Kep	Ampeng	Centipede trap	11.5	13.9%		
Kep	Oukrasa	Centipede trap			32.8	6.4%
Koh Kong	Thmasar	Centipede trap	8.7	10.2%		
Kep	Oukrasa	Crab gillnet	13.5	19.2%	22.1	9.4%
Koh Kong	Thmasar	Crab gillnet	8.2	6.1%		
Sihanouk	Tumnup Rolok	Crab gillnet			158.0	5.3%
Kampot	Trapeang Ropov	Crab trap			23.4	8.9%
Kep	Oukrasa	Crab trap	7.1	40.8%	22.5	11.1%
Kampot	Trapeang Ropov	Fish gillnet	53.0	8.2%		

Province	Landing site	Gear	Small scale		Middle	
			Mean	ε%	Mean	ε%
Kep	Oukrasa	Fish gillnet	20.9	32.6%		
Koh Kong	Thmasar	Fish gillnet			65.0	53.8%
Sihanouk	TumnuP Rolok	Fish gillnet			567.8	9.0%
Koh Kong	Oknha Lyon Phat	Fish trap			765.0	43.8%
Kampot	Kampong Kandal	Mackerel Gillnet			1,512.7	19.3%
Koh Kong	Oknha Lyon Phat	Octopus trap longline			275.0	9.1%
Koh Kong	Thmasar	Octopus trap longline			195.0	2.6%
Koh Kong	Thmasar	Other			501.0	99.6%
Koh Kong	Thmasar	Push net	21.3	42.0%		
Sihanouk	Stueng Hav	Shrimp gillnet			34.9	14.3%
Kampot	Kampong Kandal	Trawl ¹			49.5	12.0%
Kampot	Trapeang Ropov	Trawl			50.6	11.5%
Kep	Ampeng	Trawl			51.5	4.1%
Koh Kong	Oknha Lyon Phat	Trawl			1,543.0	88.5%
Koh Kong	Thmasar	Trawl			71.2	26.0%
Sihanouk	Stueng Hav	Trawl			866.4	6.8%
Sihanouk	TumnuP Rolok	Trawl			106.4	4.1%

ε% is the relative standard error, if higher than 30%, values are not statistically accurate and cannot be used; average catch without ε% are based on a single observation, are not representative for that gear and are not included in the table.

Table 2. Proportion of landings recorded for all gears by province, with contribution to recorded catch (kg).

Gear	Koh Kong	Preah Sihanouk	Kampot	Kep	Total kg	%Total
Trawl	29.9%	60.7%	5.6%	3.8%	26,738.2	56.3%
Halfbeak gillnet	0.0%	0.0%	100.0%	0.0%	4,538.0	9.5%
Fish gillnet	3.0%	75.9%	18.8%	2.3%	4,486.7	9.5%
Fish trap	100.0%	0.0%	0.0%	0.0%	2,930.0	6.2%
Mackerel Gillnet	32.5%	15.7%	51.8%	0.0%	2,317.0	4.9%
Crab gillnet	4.0%	71.8%	0.0%	24.1%	1,595.5	3.4%
Fish gillnet and Fish hook	0.0%	0.0%	100.0%	0.0%	1,145.0	2.4%
Unspecified gear	92.5%	0.0%	0.0%	7.5%	1,090.0	2.3%
Octopus trap longline	100.0%	0.0%	0.0%	0.0%	940.0	2.0%
Shrimp gillnet and Fish gillnet	100.0%	0.0%	0.0%	0.0%	410.0	0.9%
Shrimp gillnet	0.0%	100.0%	0.0%	0.0%	348.5	0.7%
Centipede trap	11.4%	0.0%	0.0%	88.6%	324.7	0.7%
Squid tow longline	100.0%	0.0%	0.0%	0.0%	250.0	0.5%
Crab trap	0.0%	0.0%	69.2%	30.8%	192.3	0.4%
Push net	100.0%	0.0%	0.0%	0.0%	94.5	0.2%
Fish gillnet and Mackerel gillnet	100.0%	0.0%	0.0%	0.0%	80.0	0.2%
Grand Total	31.0%	45.2%	19.7%	4.1%		

¹ originally classified as 'beach seines', this was corrected during 2022, recording this gear as 'Trawl'

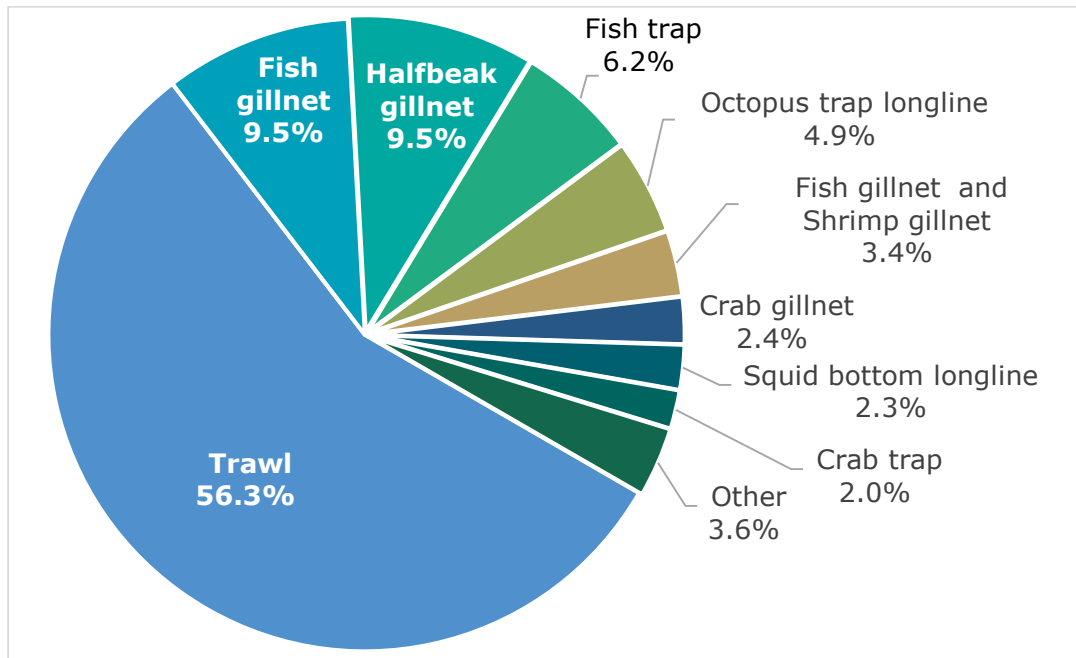


Figure 1. Contribution of main gear types to reported catch.

2.2. Catch and value by species

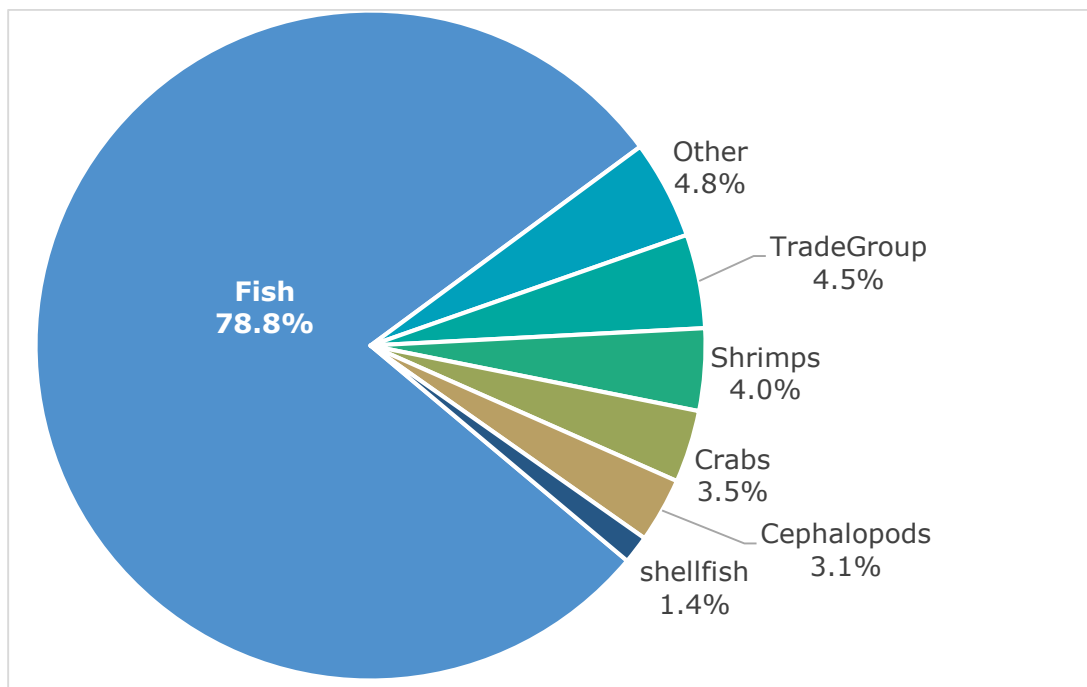


Figure 2. Contribution of main aquatic animal groups to reported catch (total reported weight: 57,568 kg).

Table 3. Top 20 reported species and species groups by weight (kg)

Scientific name	English Common	Catch	Catch%	
			%Total	%Cum. ²
	Other fish nei	17,348.0	30.1%	30.1%
<i>Encrasicholina heteroloba</i>	Shorthead anchovy	14,352.0	24.9%	55.1%
	Needlefish nei	3,500.0	6.1%	61.2%
	Other catch nei	2,726.0	4.7%	65.9%
<i>Portunus pelagicus</i>	Swimming crab	1,950.0	3.4%	69.3%
<i>Penaeus sp.</i>	Prawns nei	1,752.0	3.0%	72.3%
<i>Rastrelliger brachysoma</i>	Short mackerel	1,471.0	2.6%	74.9%
<i>Decapterus macrosoma</i>	Shortfin scad	1,333.0	2.3%	77.2%
	Squids nei	1,184.0	2.1%	79.2%
	Mollusks nei	1,118.0	1.9%	81.2%
	trash fish	1,069.0	1.9%	83.0%
	Cephalopods (squids/cuttlefish)	1,024.0	1.8%	84.8%
<i>Hemiramphus far</i>	Black-barred halfbeak	1,000.0	1.7%	86.6%
<i>Anadara granosa</i>	Blood cockle	780.0	1.4%	87.9%
	squirrelfish	776.0	1.4%	89.3%
<i>Anodontostoma chacunda</i>	Chacunda gizzard shad	738.0	1.3%	90.5%
<i>Scomberoides commersonianus</i>	Talang queenfish	555.0	1.0%	91.5%
<i>Acanthurus sp.</i>	Surgeonfish	500.0	0.9%	92.4%
	Octopus	460.0	0.8%	93.2%
<i>Rastrelliger faughni</i>	Island mackerel	400.0	0.7%	93.9%
	other	3,532.0	6.1%	100.0%
Total reported catch		57,568		

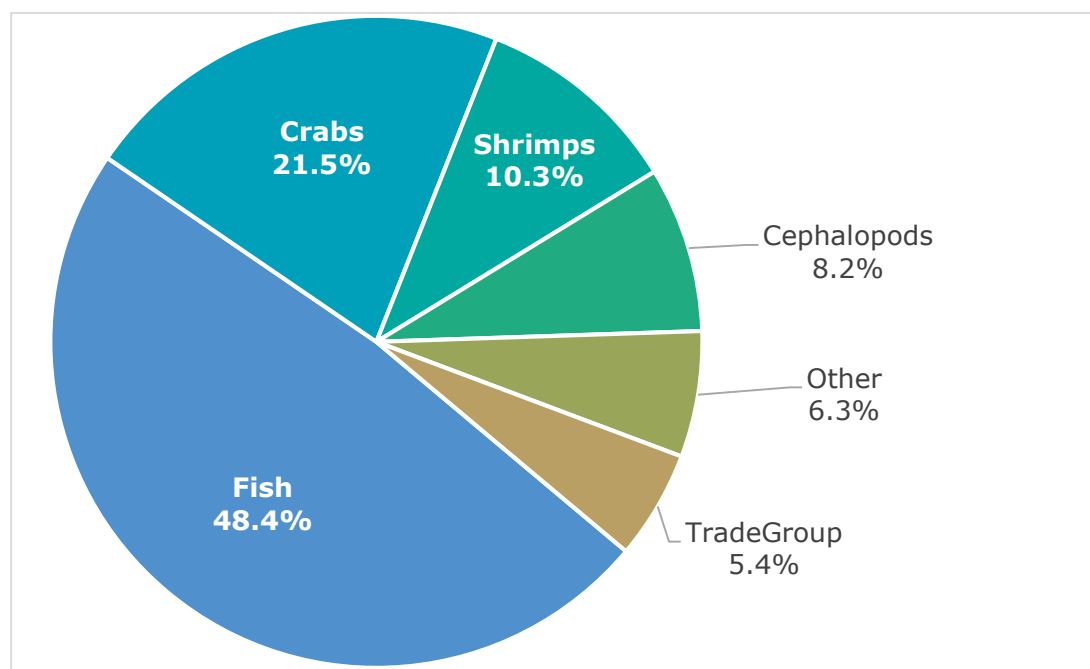


Figure 3. Proportion of total reported value (1000 Riel) in reported catch, by main aquatic animal group (Total reported value: 289,406,000 Riel).

² This represents the cumulative proportion, as a measure for the diversity of the catches.

Table 4. Top 20 reported species by value (1000 Riel) and average price/kg.

Scientific name	English Common	Value (1000 Riel)	% Value	%Cum	Price (Riels/ Kg)
<i>Portunus pelagicus</i>	Swimming crab	61,098	21.1%	21.1%	26,000
	Other fish nei	42,119	14.6%	35.7%	3,000
	Needlefish nei	27,000	9.3%	45.0%	8,000
<i>Penaeus sp.</i>	Prawns nei	17,529	6.1%	51.1%	19,000
	Squids nei	16,083	5.6%	56.6%	16,000
	Other catch nei	15,951	5.5%	62.1%	12,000
<i>Encrasicholina heteroloba</i>	Shorthead anchovy	13,241	4.6%	66.7%	1,000
<i>Decapterus macrosoma</i>	Shortfin scad	9,331	3.2%	69.9%	7,000
	Cephalopods (squids/cuttlefish)	7,990	2.8%	72.7%	11,000
<i>Penaeus monodon</i>	Giant tiger prawn	7,292	2.5%	75.2%	28,000
<i>Rastrelliger brachysoma</i>	Short mackerel	7,042	2.4%	77.6%	4,000
<i>Hemiramphus far</i>	Blackbarred halfbeak	6,000	2.1%	79.7%	6,000
<i>Epinephelus coioides</i>	Orange-spotted grouper	5,800	2.0%	81.7%	19,000
	Octopus	5,546	1.9%	83.6%	13,000
<i>Scomberoides commersonianus</i>	Talang queenfish	4,440	1.5%	85.2%	8,000
	squirrelfish	3,828	1.3%	86.5%	5,000
	Mollusks nei	3,542	1.2%	87.7%	11,000
<i>Acanthurus sp.</i>	Surgeonfish	3,500	1.2%	88.9%	7,000
	Cephalopods (octopus)	3,245	1.1%	90.0%	13,000
<i>Rastrelliger faughni</i>	Island mackerel	3,200	1.1%	91.1%	8,000
Other species		25,630	8.9%	100.0%	
Total reported catch		289,406			

Not all prices are reported by category, some market (commercial) price categories are included separately.

Annex1. Species catch by province for November 2022 (total reported catch: 57,568 kg)

Scientific name	English Common	Khmer Name	Kampot	Kep	Koh Kong	Sihanouk	Total	Proportion
	Other fish nei	ប្រភេទត្រីចំរុះ	692.0	888.0	13,310.0	2,458.0	17,348	30.14%
<i>Encrasicholina heteroloba</i>	Shorthead anchovy	កាកឹម	2.0		2,100.0	12,250.0	14,352	24.93%
	Needlefish nei	ត្រីធ្មោង	3,500.0				3,500	6.08%
	Other catch nei	ផ្សេងៗ	2,726.0				2,726	4.74%
<i>Portunus pelagicus</i>	Swimming crab	ក្តាមសេះ	246.6	472.0	54.0	1,177.5	1,950	3.39%
<i>Penaeus sp.</i>	Prawns nei	បង្កា	314.6	5.2	371.5	1,061.0	1,752	3.04%
<i>Rastrelliger brachysoma</i>	Short mackerel	ត្រីផ្កាធុ ឬត្រីកាម៉ុងខ្ពស់	884.0		587.0		1,471	2.56%
<i>Decapterus macrosoma</i>	Shortfin scad	ត្រីកាម៉ុងឬត្រីធ្មោង				1,333.0	1,333	2.32%
	Squids nei	មីក	5.0	78.0	1,096.0	5.0	1,184	2.06%
	Mollusks nei	សប្បីសត្វ ពពួកខ្យង គ្រុំ ងាវ		117.5	1,000.0		1,118	1.94%
	trash fish	ត្រីជី	110.0		138.0	821.0	1,069	1.86%
	Cephalopods (squids/cuttlefish)	ពពួកមីកស្នូកនិងមីកបំពង់	7.0	5.0	100.0	912.0	1,024	1.78%
<i>Hemiramphus far</i>	Blackbarred halfbeak	ត្រីធ្មោងផ្កា	1,000.0				1,000	1.74%

Scientific name	English Common	Khmer Name	Kampot	Kep	Koh Kong	Sihanouk	Total	Proportion
<i>Anadara granosa</i>	Blood cockle	ត្រែងឈាម				780.0	780	1.35%
	squirrelfish	ត្រីក្រហម				776.0	776	1.35%
<i>Anodontostoma chacunda</i>	Chacunda gizzard shad	ត្រីកាម៉យ	708.0		10.0	20.0	738	1.28%
<i>Scomberoides commersonianus</i>	Talang queenfish	ត្រីកាឡាំង				555.0	555	0.96%
<i>Acanthurus sp.</i>	Surgeonfish	ត្រីកាតាំង			500.0		500	0.87%
	Octopus	មីកពីងពាង	132.0	79.5	200.0	48.0	460	0.80%
<i>Rastrelliger faughni</i>	Island mackerel	ត្រីប៉ាឡាំង	400.0				400	0.69%
<i>Siganus canaliculatus</i>	Whitespotted Spinefoot	ត្រីកន្តាំងក្រអូម	51.0		330.0		381	0.66%
<i>Nemipterus hexodon</i>	Ornate treadfin bream	ត្រីអាងគីមលី			317.0		317	0.55%
<i>Epinephelus coioides</i>	Orange-spotted grouper	ត្រីតុកកែកៅ			300.0		300	0.52%
	Cephalopods (octopus)	ពពួកមីកពីងពាង	37.0		190.0	57.0	284	0.49%
<i>Rastrelliger kanagurta</i>	Indian mackerel	ត្រីកាម៉ុងខ្លួនវែង			20.0	250.0	270	0.47%
<i>Penaeus monodon</i>	Giant tiger prawn	បង្កាខ្លីង	22.5	189.2		42.0	254	0.44%
	Small mixed shrimp nei	គី		197.0			197	0.34%
	Crabs (swimming crab, mud crab)	ពពួកក្តាម (រួមទាំង ក្តាមសេះ ក្តាមថ្ម ក្តាម ជ័រ ជាដើម)		161.0	20.0		181	0.31%

Scientific name	English Common	Khmer Name	Kampot	Kep	Koh Kong	Sihanouk	Total	Proportion
<i>Suborder Sepiina</i>	Cuttlefish	មីកស្នូក	44.5	86.0	25.0		156	0.27%
<i>Lutjanus argentimaculatus</i>	Mangrove red snapper	ត្រីអាំងតឹយក្រហម			150.0		150	0.26%
<i>Trichiurus lepturus</i>	Largehead hairtail	ត្រីកុកក្បាលធំ			150.0		150	0.26%
	Pony fishes	ត្រីកិ		8.0	115.0		123	0.21%
	Rabbitfish	ត្រីកន្ទាំង	107.0	1.0			108	0.19%
<i>scomberoides tala</i>	Barred queenfish	ត្រីកាឡាំង				107.0	107	0.19%
<i>Sargocentron rubrum</i>	Redcoat	ត្រីកាជី			100.0		100	0.17%
	Mantis shrimp	បង្កងកណ្តុប	41.5		28.1	11.0	81	0.14%
	Lizardfish	ត្រីក្តូចិន			60.0		60	0.10%
	Parrot fish	ត្រីសេក	49.5	8.0			58	0.10%
<i>Scomberomorus commerson</i>	Narrowbarred Spanish mackerel	ត្រីបេកាខ្មៅ ឬត្រីបេកាឆ្នុត			50.0		50	0.09%
<i>Pseudorhombus arsius</i>	Large tooth flounder	ត្រីអណ្តាតវែង		2.0	3.0	42.0	47	0.08%
<i>Scylla serrata</i>	Mud crab	ក្តាមថ្ម		10.0	15.0		25	0.04%
<i>Sillago ingenuua</i>	Bay sillago	ត្រីព្រលួសធម្មតា		25.0			25	0.04%
<i>Thalamita crenata</i>	Crenate swimming crab	ក្តាមថ្មខៀវ		20.0			20	0.03%
<i>Sillago sihama</i>	Silver sillago	ត្រីព្រលួស	5.0	12.0			17	0.03%

Scientific name	English Common	Khmer Name	Kampot	Kep	Koh Kong	Sihanouk	Total	Proportion
	Crabs nei	ក្ដាមផ្សេងៗ		15.0			15	0.03%
<i>Chirocentrus dorab</i>	Dorab wolf-herring	ត្រីស្រោមដាវ			10.0		10	0.02%
<i>Scomberomorus sp.</i>	Spanish mackerel species nei	ត្រីបេកា	10.0				10	0.02%
	Lobster	បង្កងប៉ាក	5.0	1.7	3.0		10	0.02%
	Terapons	ត្រីត្រសក់	2.0	6.0			8	0.01%
<i>Saurida undosquamis</i>	Bushtooth lizardfish	ត្រីក្អមិសអុជខ្មៅ				5.0	5	0.01%
	Mullets	ត្រីក្បក			3.0		3	0.01%
<i>Hemigymnus fasciatus</i>	Barred thicklip	ត្រីសេកមាត់ក្រាស់	3.0				3	0.01%
<i>Coris sp.</i>	Rainbow Wrasse	ត្រីក្រឹម	2.0				2	0.00%
<i>Brevitrygon imbricata</i>	Scaly whipray	បំបែលមាន់	0.5	1.0			2	0.00%
<i>Cheilinus trilobatus</i>	Tripletail wrasse	ត្រីសេកព្រុយបីកង់		1.5			2	0.00%
	Rays nei	បំបែល	1.0				1	0.00%
<i>Cheilinus fasciatus</i>	Redbreasted wrasse	ត្រីសេកបង្កង់		1.0			1	0.00%
<i>Stolephorus indicus</i>	Indian anchovy	ត្រីក្រចកក្របី		1.0			1	0.00%
<i>Penaeus merguensis</i>	Banana shrimp	បង្កាប៉ារ៉ា	0.5				1	0.00%
<i>Scarus ghobban</i>	Blue-barred parrotfish	ត្រីសេកស្រកាលឿង	0.5				1	0.00%