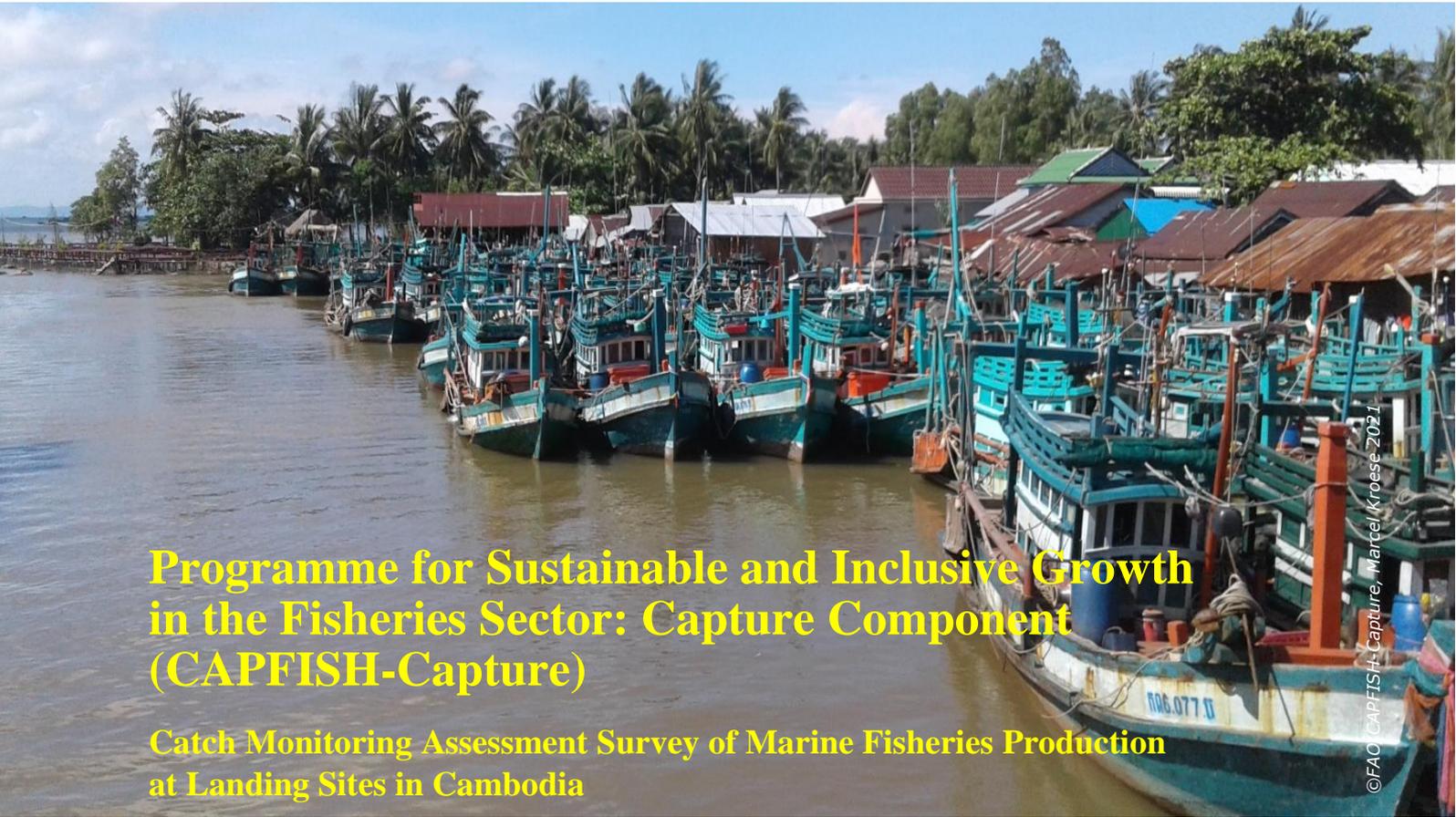




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**Programme for Sustainable and Inclusive Growth
in the Fisheries Sector: Capture Component
(CAPFISH-Capture)**

**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 JUNE 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 June 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	17	11
Preah Sihanouk	Stueng Hav		28
Preah Sihanouk	Tumnup Rolok		28
Kampot	Kampong Kandal		28
Kampot	Trapeang Ropov	19	9
Kep	Ampeng		28
Kep	Oukrasa	8	20
Grand Total		51	173

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 June 2022.

Province	Landing site	Gear	Small Scale		Middle Scale	
			Mean	ε%	Mean	ε%
Kep	Oukrasa	Centipede trap			25.0	59.9%
Kampot	Trapeang Ropov	Crab gillnet			12.5	60.0%
Kep	Oukrasa	Crab gillnet			17.7	18.7%
Koh Kong	Thmasar	Crab gillnet	12.0	75.0%	6.5	69.2%
Kampot	Trapeang Ropov	Crab trap	13.8	30.9%	19.5	3.1%
Kep	Oukrasa	Crab trap			58.3	59.0%
Koh Kong	Oknha Lyon Phat	Crab trap			972.5	39.4%
Kampot	Kampong Kandal	Fish gillnet			1500.0	0.0%
Kampot	Trapeang Ropov	Fish gillnet	36.1	14.2%	96.0	45.8%

Province	Landing site	Gear	Small Scale		Middle Scale	
			Mean	ε%	Mean	ε%
Kep	Oukrasa	Fish gillnet	8.3	14.4%		
Koh Kong	Thmasar	Octopus trap longline			206.7	25.2%
Kampot	Trapeang Ropov	Others	12.0	4.8%		
Koh Kong	Thmasar	Others	806.9	36.3%	752.0	20.2%
Koh Kong	Thmasar	Push net	57.5	23.6%		
Sihanouk	Stueng Hav	Shrimp gillnet			21.0	4.8%
Sihanouk	Stueng Hav	Snail trap			50.0	0.0%
Koh Kong	Thmasar	Snail trap			49.0	38.8%
Kep	Ampeng	Trawl			54.5	6.5%
Koh Kong	Oknha Lyon Phat	Trawl			1240.0	38.3%
Sihanouk	Stueng Hav	Trawl			1253.2	29.3%
Sihanouk	Tumnup Rolok	Trawl			88.0	4.4%
Kampot	Kampong Kandal	Trawl (small vessel) ¹			42.9	4.3%

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 3. 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	36.9%	59.9%		3.2%	47,053.5	65.2%
Others	99.5%		0.5%		7,042.5	9.8%
Crab trap	92.6%		2.5%	4.9%	4,200.4	5.8%
Fish gillnet		6.5%	92.7%	0.9%	3,951.0	5.5%
Mackerel Gillnet	0.8%	99.2%			3,325.0	4.6%
Halfbeak gillnet	3.6%		96.4%		1,567.0	2.2%
Octopus trap longline	95.8%			4.2%	1,420.0	2.0%
Fish trap	100.0%				1,175.0	1.6%
Trawl (small vessel)			98.4%	1.6%	1,091.0	1.5%
Push net	100.0%				390.7	0.5%
Squid tow longline	100.0%				250.0	0.3%
Crab gillnet	15.8%		14.1%	70.1%	234.6	0.3%
Centipede trap	5.2%			94.8%	105.5	0.1%
Snail trap		100.0%			100.0	0.1%
Snail trap & Octopus trap longline	100.0%				98.0	0.1%
Crab gillnet & Shrimp gillnet		72.9%	27.1%		96.0	0.1%
Shrimp gillnet		100.0%			42.0	0.1%
Capture by hand				100.0%	30.0	0.04%
Ray bottom longline				100.0%	25.0	0.03%
Fish gillnet & Fish hook				100.0%	12.5	0.02%
Spear	100.0%				5.5	0.01%
Fish gillnet & Fish longline				100.0%	2.5	0.003%
Grand Total	43.8%	44.2%	8.9%	3.0%		

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

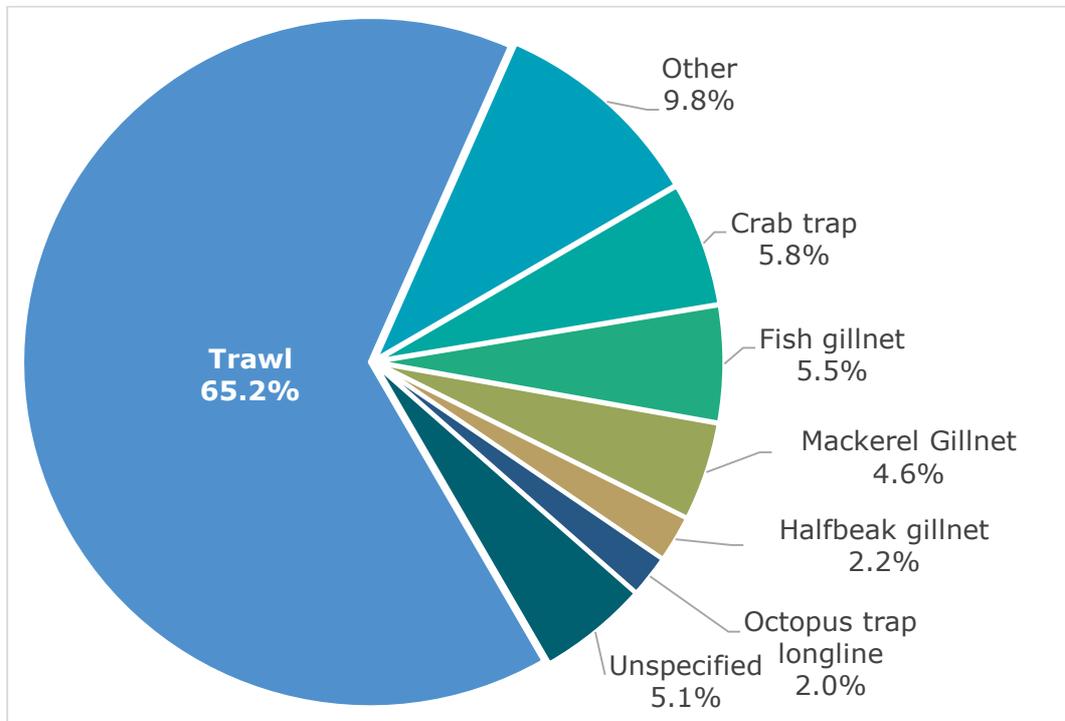


Figure 1. Contribution of main gear types to reported catch.

2.2. Catch and value by species

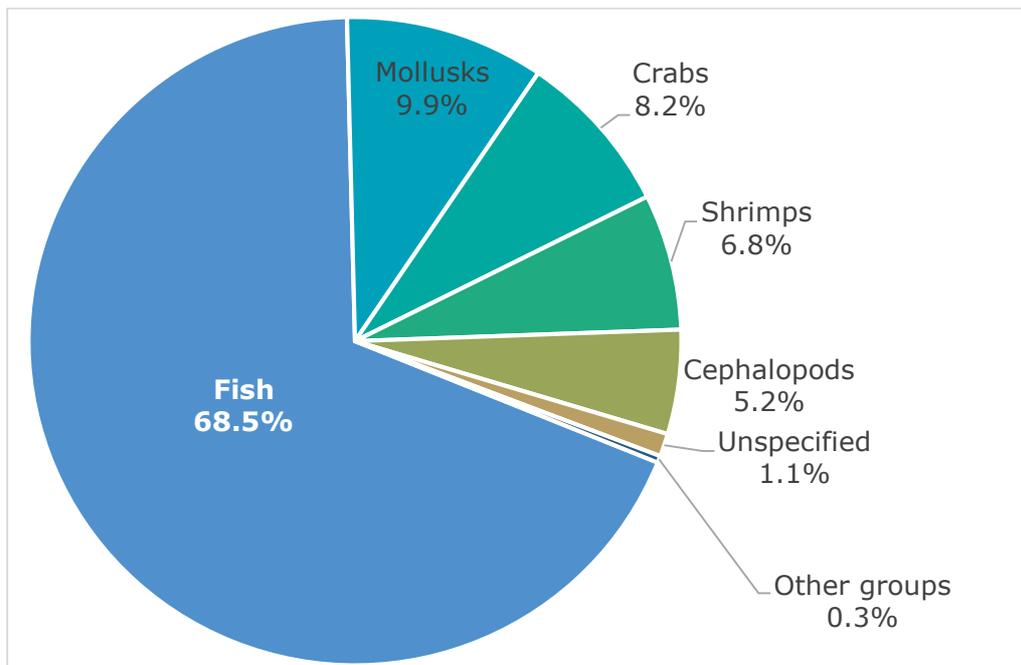


Figure 2. Contribution of main aquatic animal groups to reported catch (total reported catch: 72,460.7 kg).

Table 4. Top 20 reported species and species groups **by weight** (kg)

Scientific name	English Common	Catch (kg)	Catch%	
			%Catch	%Cum. ²
<i>Encrasicholina heteroloba</i>	Shorthead anchovy	24,040.0	33.2%	33.2%
	Other fish nei	9,650.5	13.3%	46.5%
	Mollusks nei	7,161.5	9.9%	56.4%
	trash fish	5,978.0	8.2%	64.6%
<i>Portunus pelagicus</i>	Swimming crab	5,522.1	7.6%	72.2%
	Needlefish nei	4,554.0	6.3%	78.5%
	Squids nei	2,374.0	3.3%	81.8%
<i>Decapterus macrosoma</i>	Shortfin scad	2,365.0	3.3%	85.1%
<i>Metapenaeus spp.</i>		2,183.0	3.0%	88.1%
<i>Penaeus merguensis</i>	Banana shrimp	1,205.5	1.7%	89.8%
<i>Penaeus sp.</i>	Prawns nei	1,190.4	1.6%	91.4%
<i>Scomberoides commersonianus</i>	Talang queenfish	1,155.0	1.6%	93.0%
	Octopus	852.0	1.2%	94.2%
	Other catch nei	828.0	1.1%	95.3%
	Pony fishes	520.0	0.7%	96.0%
<i>Anodontostoma chacunda</i>	Chacunda gizzard shad	472.0	0.7%	96.7%
<i>Suborder Sepiina</i>	Cuttlefish	365.5	0.5%	97.2%
<i>Episesarma sp.</i>	Vinegar crab	226.0	0.3%	97.5%
	Cephalopods (squids/cuttlefish)	173.1	0.2%	97.7%
	Shellfish nei	158.0	0.2%	97.9%
Other species		1,487.1	2.1%	100.0%
Total reported catch		72,460.7		

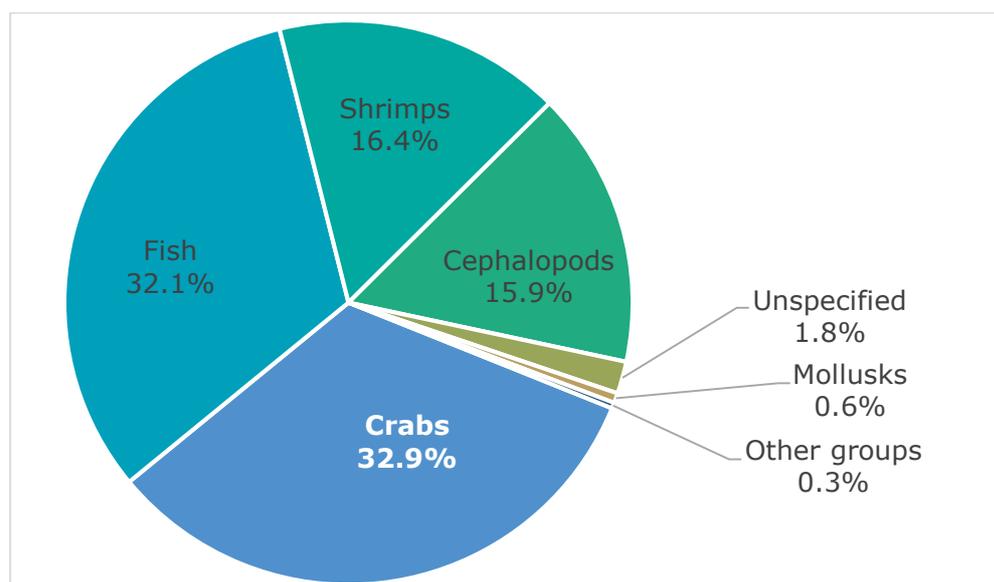


Figure 3. Proportion of total reported value (1000 Riel), by main aquatic animal group (total value: 352,856,000 Riel).

² This represents the cumulative proportion, as a measure for the resource dependency/diversity of the fishery.

Table 5. 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	113,899	32.3%	32.3%	22,000
	Squids nei	40,425	11.5%	43.7%	17,000
<i>Encrasicholina heteroloba</i>	Shorthead anchovy	33,311	9.4%	53.2%	1,500
<i>Metapenaeus spp.</i>		27,814	7.9%	61.1%	17,500
	Other fish nei	20,875	5.9%	67.0%	4,000
	Needlefish nei	18,732	5.3%	72.3%	7,500
<i>Decapterus macrosoma</i>	Shortfin scad	17,773	5.0%	77.3%	7,500
<i>Penaeus sp.</i>	Prawns nei	13,797	3.9%	81.2%	21,000
<i>Scomberoides commersonianus</i>	Talang queenfish	9,818	2.8%	84.0%	8,500
	Octopus	9,552	2.7%	86.7%	12,500
<i>Penaeus merguensis</i>	Banana shrimp	8,762	2.5%	89.2%	7,000
	Other catch nei	6,502	1.8%	91.1%	10,500
<i>Penaeus monodon</i>	Giant tiger prawn	4,721	1.3%	92.4%	22,500
<i>Suborder Sepiina</i>	Cuttlefish	4,392	1.2%	93.6%	12,500
	trash fish	3,650	1.0%	94.7%	500
	Mantis shrimp	2,119	0.6%	95.3%	29,500
	Mollusks nei	2,013	0.6%	95.8%	7,500
	Cephalopods (squids/cuttlefish)	1,599	0.5%	96.3%	9,500
	Sea basses and groupers	1,310	0.4%	96.7%	15,500
<i>Anodontostoma chacunda</i>	Chacunda gizzard shad	978	0.3%	96.9%	2,500
Other species		10,764	3.1%	100.0%	
Total reported value		352,806			

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

Annex 1. Species catch by province for June 2022 (total reported catch: 72,461 kg)

Scientific name	English Common	Khmer Name	Kampot	Kep	Koh Kong	Sihanouk	Total	%Total
<i>Encrasicholina heteroloba</i>	Shorthead anchovy	កាកឹម				24,040.0	24,040	33.18%
	Other fish nei	ប្រភេទត្រីចំរុះ	256.0	18.0	8,357.0	1,019.5	9,651	13.32%
	Mollusks nei	សប្បីសត្វ ពពួកខ្យង ត្រំ ងាវ		19.5	7,142.0		7,162	9.88%
	trash fish	ត្រីដី	65.0	368.0	4,960.0	585.0	5,978	8.25%
<i>Portunus pelagicus</i>	Swimming crab	ក្តាមសេះ	254.4	257.0	4,910.2	100.5	5,522	7.62%
	Needlefish nei	ត្រីធ្នោង	4,500.0	22.0	32.0		4,554	6.28%
	Squids nei	មីក	7.0	13.0	1,900.0	454.0	2,374	3.28%
<i>Decapterus macrosoma</i>	Shortfin scad	ត្រីកាម៉ុងឬត្រីប្លាតូ				2,365.0	2,365	3.26%
<i>Metapenaeus spp.</i>		បង្កាឌីខាក់	20.0		2,109.0	54.0	2,183	3.01%
<i>Penaeus merguensis</i>	Banana shrimp	បង្កាប៉ារ៉ា		35.0	582.0	588.5	1,206	1.66%
<i>Penaeus sp.</i>	Prawns nei	បង្កា	10.0	195.0	222.0	763.4	1,190	1.64%
<i>Scomberoides commersonianus</i>	Talang queenfish	ត្រីកាឡាំង				1,155.0	1,155	1.59%
	Octopus	មីកពីងពាង	37.0	88.0	605.0	122.0	852	1.18%
	Other catch nei	ផ្សេងៗ	443.0		385.0		828	1.14%
	Pony fishes	ត្រីកិ	20.0			500.0	520	0.72%
<i>Anodontostoma chacunda</i>	Chacunda gizzard shad	ត្រីកាម៉យ	442.0	20.0		10.0	472	0.65%
<i>Suborder Sepiina</i>	Cuttlefish	មីកស្តុក	61.0	33.5	230.0	41.0	366	0.50%

<i>Episesarma</i> sp.	Vinegar crab	ក្តាមជ័រ		226.0			226	0.31%
	Cephalopods (squids/cuttlefish)	ពពួកមឹកស្លូកនិងមឹកបំពង់			94.0	79.1	173	0.24%
	Shellfish nei	ខ្យង មឹក ក្តាមផ្សេងៗ		140.0		18.0	158	0.22%
	Small mixed shrimp nei	តី		135.0			135	0.19%
<i>Penaeus monodon</i>	Giant tiger prawn	បង្កាខ្លីង		78.0	46.0		124	0.17%
<i>Siganus canaliculatus</i>	Whitespotted Spinefoot	ត្រីកន្តាំងក្រអូម	88.0		30.0		118	0.16%
	Sea basses and groupers	ត្រីតុកកែក			90.0		90	0.12%
<i>Rastrelliger brachysoma</i>	Short mackerel	ត្រីផ្កាធ្ម ឬត្រីកាម៉ុងខ្លួនខ្លី	81.0				81	0.11%
	Mantis shrimp	បង្កងកណ្តុប	67.1	5.0		8.0	80	0.11%
<i>Episesarma versicolor</i>	Violet vinegar crab	ក្តាមជ័រ		70.0			70	0.10%
	Parrot fish	ត្រីសែក		66.0			66	0.09%
	Lizardfish	ត្រីក្តូចិន			40.0	20.0	60	0.08%
<i>Acanthurus</i> sp.	Surgeonfish	ត្រីកាតាំង	40.0	19.0			59	0.08%
<i>Crenimugil seheli</i>	Bluespot mullet	ត្រីក្បក	9.5	12.0	31.0		53	0.07%
<i>Gerres abbreviatus</i>	Deepbody silverbidy	ត្រីដូរអង្ករ		50.0			50	0.07%
<i>Portunus spp.</i>	Swimming crabs	ក្តាមសេះ		38.0	1.0		39	0.05%
	Breams	ត្រីក្រហម ឬត្រីឆ្មតពីរ		37.0			37	0.05%
	Rabbitfish	ត្រីកន្តាំង		33.0			33	0.05%
<i>Brevitrygon imbricata</i>	Scaly whipray	បែលមាន់			28.0	4.0	32	0.04%
	mixed coral reef fish nei	ត្រីផ្កាថ្មចំរុះ		30.0			30	0.04%
<i>Eleutheronema tetradactylum</i>	Fourfinger threadfin	ត្រីកាវ៉ាវ	25.0	3.5			29	0.04%

	Crabs (swimming crab, mud crab)	ពពួកក្តាម (រួមទាំងក្តាមសេះ ក្តាមថ្ម ក្តាមជ័រ ជាដើម)		18.0	5.5	3.0	27	0.04%
	Rays nei	បបែល		26.0			26	0.04%
<i>Sphyræna obtusata</i>	Obtuse barracuda	ត្រីអង្រែ			25.0		25	0.03%
<i>Epinephelus coioides</i>	Orange-spotted grouper	ត្រីតុកកែកៅ		5.0	18.0		23	0.03%
<i>Ellochelon vaigiensis</i>	Squartetail Mullet	ត្រីក្បូកខ្នុក			21.0		21	0.03%
	Snappers, jobfishes	ត្រីរាំងក៏យ		21.0			21	0.03%
<i>Lethrinus harak</i>	Thumbprint emperor	ត្រីបោះត្រា		20.0			20	0.03%
	Crabs nei	ក្តាមផ្សេងៗ		15.0			15	0.02%
<i>Chiloscyllium griseum</i>	Grey bambooshark	ឆ្កាបគីងកំបូឆ្កាបឆ្កាត		13.0			13	0.02%
<i>Sillago sihama</i>	Silver sillago	ត្រីព្រលួស	2.0	10.0			12	0.02%
<i>Scylla serrata</i>	Mud crab	ក្តាមថ្ម		5.0	6.0		11	0.02%
<i>Anadara granosa</i>	Blood cockle	គ្រែងឈាម			10.5		11	0.01%
<i>Rastrelliger kanagurta</i>	Indian mackerel	ត្រីកាម៉ុងខ្លួនវែង	10.0				10	0.01%
<i>Arius maculatus</i>	Spotted catfish	ត្រីក្អក			10.0		10	0.01%
<i>Lutjanus russelli</i>	Russell's snapper	ត្រីបោះត្រា			8.0		8	0.01%
<i>Leiognathus equulus</i>	Common ponyfish	ត្រីសំបោរហៀរ "មានរំអិល"			6.0		6	0.01%
<i>Pseudorhombus arsius</i>	Largetooth flounder	ត្រីអណ្តាតផ្តែ		6.0			6	0.01%
<i>Lactarius lactarius</i>	False trevally	ត្រីស្លឹកខ្នុរ		5.0			5	0.01%
	Trevallies	ត្រីកាំកូច		5.0			5	0.01%
<i>Panna microdon</i>	Panna croaker	ត្រីប្រម៉ា		5.0			5	0.01%
	Flounders and soles nei	ត្រីអណ្តាតផ្តែ		5.0			5	0.01%

<i>Saurenhelys cancrivora</i>	Slender Sorcerer	ត្រីខ្លីងសមុទ្រ		3.0			3	0.00%
	Lobster	បង្កងប៉ាក	3.0				3	0.00%
	Sharks and Rays	ប្រភេទត្រីជី(ពពួកមានតម្លៃថោក)		3.0			3	0.00%
	Threadfins nei	ត្រីកាវ៉ាវ		2.5			3	0.00%
<i>Otolithes ruber</i>	Tigertooth Croaker	ត្រីចង្កូមបី				2.0	2	0.00%
	Drums and croakers nei	ត្រីចង្កូមបី	1.0				1	0.00%
	Emperors, scavengers nei	ត្រីគ្រាប់ខ្នុរ	1.0				1	0.00%
	Congers nei	អន្ទង់សមុទ្រ	1.0				1	0.00%
	Cephalopods	មីកហួយសាយ				1.0	1	0.00%
<i>Acanthurus lineatus</i>	Lined surgeonfish	ត្រីកាតាំងឆ្មុត	0.5				1	0.00%