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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**

**MONTHLY STATISTICAL REPORT OF MARINE
FISHERIES PRODUCTION IN JULY 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 July 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	landings	Small Scale	Middle Scale
Koh Kong	Oknha Lyon Phat	3	25
Koh Kong	Thmasar	16	12
Preah Sihanouk	Stueng Hav		28
Preah Sihanouk	Tumnup Rolok		28
Kampot	Kampong Kandal		28
Kampot	Trapeang Ropov	17	11
Kep	Ampeng	7	21
Kep	Oukrasa	3	25
Grand total		46	178

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 July 2022.

Province	Landing Site	Gear	Small Scale		Middle Scale	
			Mean	ε%	Mean	ε%
Koh Kong	Thmasar	Centipede trap	6.6	28.3%	12.5	4.0%
Kep	Ampeng	Centipede trap	31.1	32.7%	14.8	20.8%
Kep	Oukrasa	Centipede trap			19.8	19.4%
Koh Kong	Thmasar	Crab gillnet	27.1	73.4%		
Sihanouk	Tumnup Rolok	Crab gillnet			261.6	4.1%
Kep	Oukrasa	Crab gillnet			15.4	15.1%
Koh Kong	Oknha Lyon Phat	Crab trap			700.0	21.8%
Kampot	Trapeang Ropov	Crab trap			22.6	14.5%

Province	Landing Site	Gear	Small Scale		Middle Scale	
			Mean	ε%	Mean	ε%
Kampot	Kampong Kandal	Fish gillnet			1,000.0	0.0%
Kampot	Trapeang Ropov	Fish gillnet	41.8	15.0%	25.7	24.8%
Kep	Oukrasa	Fish gillnet	14.3	40.4%		
Sihanouk	Tumnup Rolok	Mackerel Gillnet			1,015.4	8.1%
Kampot	Kampong Kandal	Mackerel Gillnet			750.0	33.3%
Koh Kong	Oknha Lyon Phat	Octopus trap longline			365.0	29.9%
Koh Kong	Thmasar	Others	2,100.0	71.4%		
Koh Kong	Thmasar	Push net	46.8	11.2%		
Koh Kong	Oknha Lyon Phat	Shrimp gillnet	97.5	2.6%	8,746.7	49.9%
Koh Kong	Oknha Lyon Phat	Trawl			4,263.5	54.5%
Koh Kong	Thmasar	Trawl			74.9	14.4%
Sihanouk	Stueng Hav	Trawl			715.7	7.2%
Sihanouk	Tumnup Rolok	Trawl			88.0	2.8%
Kep	Ampeng	Trawl			58.4	7.8%
Kampot	Kampong Kandal	Trawl (small vessel) ¹			85.0	63.4%
Koh Kong	Thmasar	Undulate Venus dragnet	585.0	3.0%		

ε% is the relative standard error, orange highlights indicate values that are statistically inaccurate 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	76.4%	22.2%		1.4%	73,129.0	56.5%
Shrimp gillnet	99.9%	0.1%		0.1%	26,471.5	20.5%
Mackerel Gillnet		82.6%	17.4%		8,608.0	6.7%
Others	92.6%		7.4%		5,400.0	4.2%
Fish gillnet			98.9%	1.1%	2,606.5	2.0%
Crab trap	89.7%		8.5%	1.8%	2,342.2	1.8%
Crab gillnet	2.5%	83.0%		14.6%	2,207.2	1.7%
Beach seine net			100.0%		1,954.0	1.5%
Undulate venus dragnet	100.0%				1,755.0	1.4%
Octopus trap longline	100.0%				1,660.0	1.3%
Fish trap	100.0%				1,270.0	1.0%
Shrimp gillnet 3 & Crab gillnet		100.0%			1,088.0	0.8%
Centipede trap	16.5%			83.5%	350.9	0.3%
Push net	100.0%				228.7	0.2%
Squid tow longline	96.8%			3.2%	62.0	0.05%
Crab gillnet 6 & Shrimp gillnet		100.0%			60.0	0.05%
Fish gillnet 41 & Mackerel Gillnet			100.0%		53.0	0.04%
Snail trap		100.0%			40.0	0.03%
Fish longline	53.8%		46.2%		19.5	0.02%
Mullet gillnet			100.0%		16.0	0.01%
Indian Threadfin Gillnet			100.0%		12.0	0.01%

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

Gear	Koh Kong	Preah Sihanouk	Kampot	Kep	Total kg	%Total
Blood cockle dragnet	100.0%				2.5	0.002%
Grand Total	73.1%	20.4%	5.2%	1.3%		

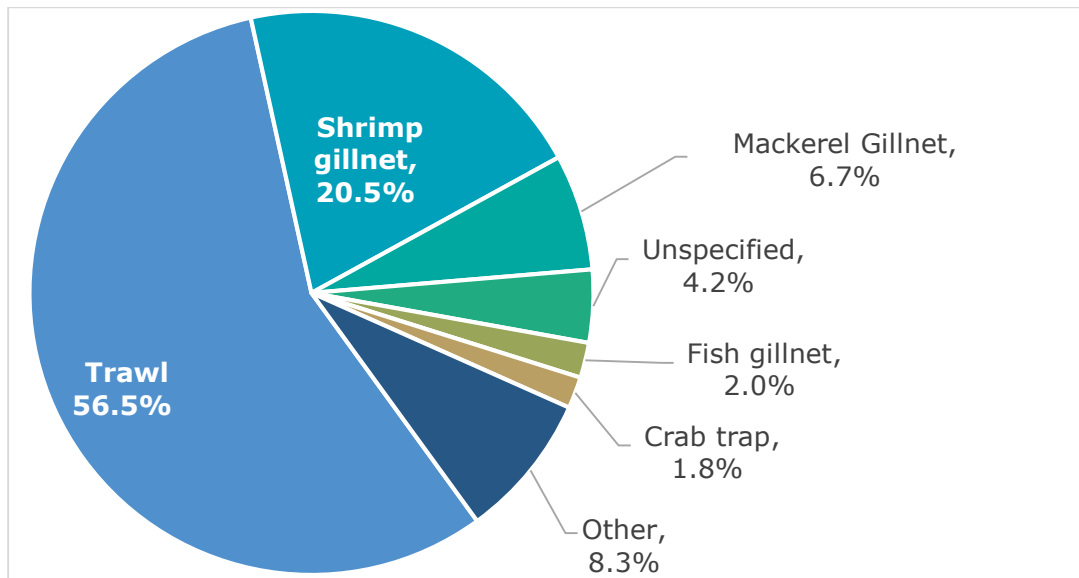


Figure 1. Contribution of main gear types to reported catch.

2.2. Catch and value by species

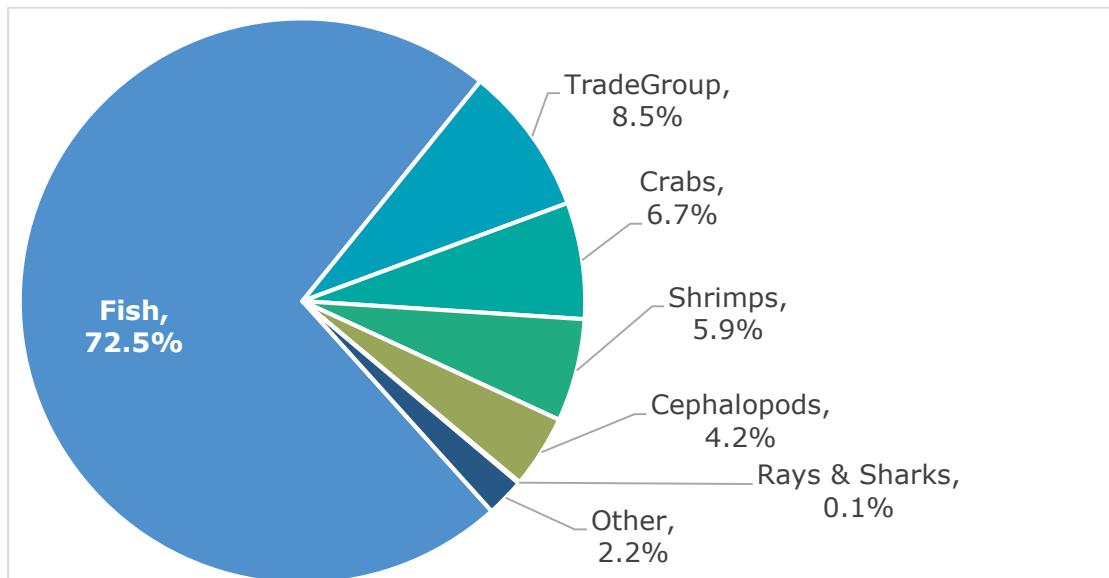


Figure 2. Contribution of main aquatic animal groups to reported catch (total reported weight: 145,847 kg).

Table 4. Top 20 reported species and species groups by weight

Scientific name	English Common	Catch (kg)	Catch%	
			%Catch	%Cum. ²
<i>Encrasicholina heteroloba</i>	Shorthead anchovy	36,656	25.1%	25.1%
	Other fish nei	30,036	20.6%	45.7%
<i>Metapenaeus spp.</i>		13,920	9.5%	55.3%
<i>Penaeus sp.</i>	Prawns nei	13,150	9.0%	64.3%
	Pony fishes	6,762	4.6%	68.9%
	trash fish	6,352	4.4%	73.3%
	7-Mollusks nei	5,986	4.1%	77.4%
<i>Portunus pelagicus</i>	Swimming crab	5,183	3.6%	80.9%
<i>Sargocentron rubrum</i>	Redcoat	4,210	2.9%	83.8%
<i>Rastrelliger brachysoma</i>	Short mackerel	3,876	2.7%	86.5%
	Other catch nei	3,386	2.3%	88.8%
<i>Scomberoides commersonianus</i>	Talang queenfish	2,130	1.5%	90.3%
	Octopus	1,792	1.2%	91.5%
<i>Leiognathus equulus</i>	Common ponyfish	1,655	1.1%	92.6%
<i>Decapterus macrosoma</i>	Shortfin scad	1,180	0.8%	93.4%
	Squids nei	1,155	0.8%	94.2%
<i>Suborder Sepiina</i>	Cuttlefish	1,028	0.7%	94.9%
	Needlefish nei	1,006	0.7%	95.6%
<i>Anodontostoma chacunda</i>	Chacunda gizzard shad	841	0.6%	96.2%
Other species		5,543	3.8%	100.0%
Total reported catch		145,847		

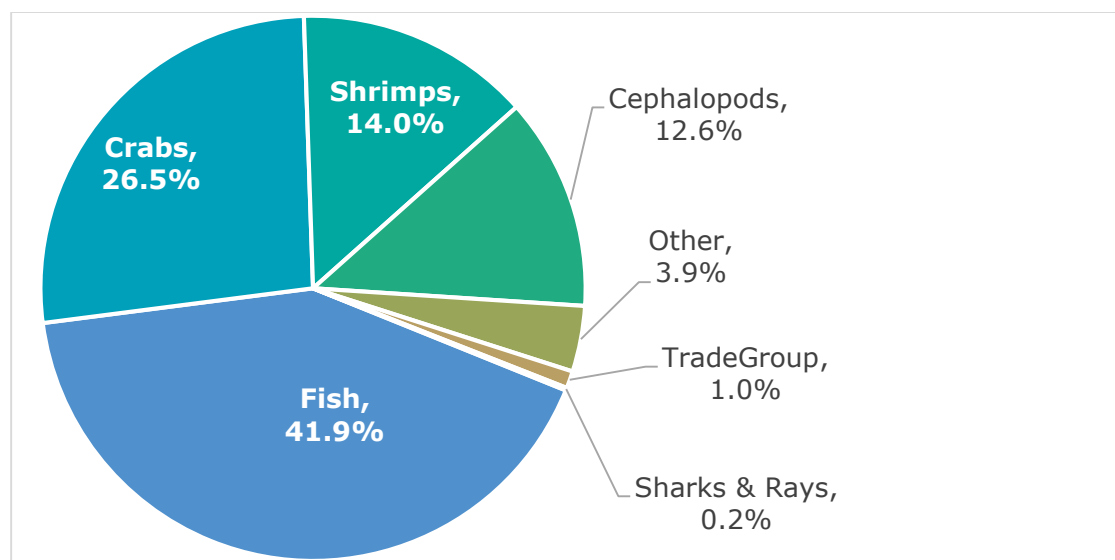


Figure 3. Proportion of total reported value (1000 Riel), by main aquatic animal group (Total reported value: 740,596,000 Riel).

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>Metapenaeus spp.</i>		171,451	23.2%	23.2%	14,000
<i>Portunus pelagicus</i>	Swimming crab	156,075	21.1%	44.2%	27,000
<i>Penaeus sp.</i>	Prawns nei	154,170	20.8%	65.0%	18,000
	Other fish nei	40,574	5.5%	70.5%	3,000
<i>Encrasicholina heteroloba</i>	Shorthead anchovy	29,948	4.0%	74.6%	1,000
<i>Rastrelliger brachysoma</i>	Short mackerel	25,165	3.4%	78.0%	6,000
	Octopus	24,357	3.3%	81.3%	12,000
	Squids nei	22,468	3.0%	84.3%	18,000
	Other catch nei	17,597	2.4%	86.7%	10,000
<i>Scomberoides commersonianus</i>	Talang queenfish	16,650	2.2%	88.9%	8,000
<i>Suborder Sepiina</i>	Cuttlefish	12,580	1.7%	90.6%	12,000
<i>Sargocentron rubrum</i>	Redcoat	6,304	0.9%	91.5%	1,000
	Pony fishes	5,359	0.7%	92.2%	1,000
	Mantis shrimp	5,181	0.7%	92.9%	86,000
<i>Epinephelus coioides</i>	Orange-spotted grouper	5,000	0.7%	93.6%	25,000
	Needlefish nei	4,538	0.6%	94.2%	6,000
	trash fish	4,062	0.5%	94.7%	1,000
<i>Penaeus monodon</i>	Giant tiger prawn	3,787	0.5%	95.2%	21,000
<i>Decapterus macrosoma</i>	Shortfin scad	3,606	0.5%	95.7%	2,000
Other species		31,724	4.3%	100.0%	
Total reported value (1000 Riels)		740,596			

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

Annex 1. Species catch by province for July 2022 (total reported catch: 145,847 kg).

Scientific name	English Common	Khmer Name	Kampot	Kep	Koh Kong	Sihanouk	Total	%Total
<i>Encrasicholina heteroloba</i>	Shorthead anchovy	កាកឹម			23,005.0	13,651.0	36,656	25.13%
	Other fish nei	ប្រភេទត្រីចំរុះ	1,186.0	254.0	25,900.0	2,696.0	30,036	20.59%
<i>Metapenaeus spp.</i>		បង្កាឌីខាក់			13,920.0		13,920	9.54%
<i>Penaeus sp.</i>	Prawns nei	បង្កា		238.0	12,283.0	629.0	13,150	9.02%
	Pony fishes	ត្រីកិ	62.0		6,100.0	600.0	6,762	4.64%
	trash fish	ត្រីជី		341.0	5,220.0	791.0	6,352	4.36%
	Mollusks nei	សប្បីសត្វ ពពូកខ្យង គ្រុំ ងាវ		31.0	5,955.0		5,986	4.10%
<i>Portunus pelagicus</i>	Swimming crab	ក្តាមសេះ	292.4	351.0	2,566.0	1,974.0	5,183	3.55%
<i>Sargocentron rubrum</i>	Redcoat	ត្រីកាជី	10.0		4,200.0		4,210	2.89%
<i>Rastrelliger brachysoma</i>	Short mackerel	ត្រីផ្កាធ្នូ ឬត្រីកាម៉ុង ខ្លួនខ្លី	1,384.0			2,492.0	3,876	2.66%
	Other catch nei	ផ្សេងៗ	3,277.0	98.0	11.0		3,386	2.32%
<i>Scomberoides commersonianus</i>	Talang queenfish	ត្រីកាឡាំង				2,130.0	2,130	1.46%
	Octopus	មីកពីងពាង	106.0	36.0	1,607.0	43.0	1,792	1.23%
<i>Leiognathus equulus</i>	Common ponyfish	ត្រីសំបោរហៀរ “មាន រំអិល”			1,655.0		1,655	1.13%

Scientific name	English Common	Khmer Name	Kampot	Kep	Koh Kong	Sihanouk	Total	%Total
<i>Decapterus macrosoma</i>	Shortfin scad	ត្រីកាម៉ុងឬត្រីល្វាធូ			80.0	1,100.0	1,180	0.81%
	Squids nei	មីក		32.0	1,045.7	77.0	1,155	0.79%
<i>Suborder Sepiina</i>	Cuttlefish	មីកស្លូក	28.0	40.0	931.0	29.0	1,028	0.70%
	Needlefish nei	ត្រីផ្ទេង	1,000.0	5.5			1,006	0.69%
<i>Anodontostoma chacunda</i>	Chacunda gizzard shad	ត្រីកាម៉យ	459.0			382.0	841	0.58%
<i>Crenimugil seheli</i>	Bluespot mullet	ត្រីក្បក	514.0		55.0		569	0.39%
	Lizardfish	ត្រីក្អម	100.0		280.0	75.0	455	0.31%
<i>Otolithes ruber</i>	Tigertooth Croaker	ត្រីចង្កូមបី			350.0		350	0.24%
<i>Decapterus maruadsi</i>	Round scad	ត្រីកូនគុំ				335.0	335	0.23%
<i>Siganus canaliculatus</i>	Whitespotted Spinefoot	ត្រីកន្ទាំងក្រអូម	20.0		300.0		320	0.22%
	squirrelfish	ត្រីក្រហម		13.0		305.0	318	0.22%
<i>Sardinella gibbosa</i>	goldstripe sardine	ត្រីគូន			300.0		300	0.21%
<i>Chirocentrus dorab</i>	Dorab wolf-herring	ត្រីស្រោមដាវ			210.0		210	0.14%
<i>Epinephelus coioides</i>	Orange-spotted grouper	ត្រីតុកកែកៅ			200.0		200	0.14%
<i>Lutjanus argentimaculatus</i>	Mangrove red snapper	ត្រីអាំងកឹយក្រហម			200.0		200	0.14%
	Rabbitfish	ត្រីកន្ទាំង	131.0	43.0			174	0.12%
<i>Penaeus monodon</i>	Giant tiger prawn	បង្កាខ្លាំង	1.0	44.5		125.0	171	0.12%
	Cephalopods (squids/cuttlefish)	ពពួកមីកស្លូកនិងមីកបំពង់		1.0	42.0	107.0	150	0.10%

Scientific name	English Common	Khmer Name	Kampot	Kep	Koh Kong	Sihanouk	Total	%Total
<i>Lutjanus russelli</i>	Russell's snapper	ត្រីបោះត្រា			150.0		150	0.10%
<i>Thryssa hamiltonii</i>	Hamilton's thryssa	ត្រីស្លឹកឫស្សី			120.0		120	0.08%
	Shrimps (all kinds of shrimps)	ពពួកបង្កាគ្រប់ប្រភេទទាំងអស់		93.0	22.0		115	0.08%
	Small mixed shrimp nei	គី			110.0		110	0.08%
	Other catch	ផ្សេងៗទៀត	100.0				100	0.07%
<i>Nemipterus japonicus</i>	Japanese threadfin bream	ត្រីជប៉ុនក្រហម	100.0				100	0.07%
	Crabs nei	ក្តាមផ្សេងៗ		96.0			96	0.07%
<i>Selaroides leptolepis</i>	Yellow stripe trevally	ត្រីឆ្មុតលឿង			85.0		85	0.06%
	Mantis shrimp	បង្កងកណ្តុប	52.8		0.7	28.5	82	0.06%
	Parrot fish	ត្រីសេក	27.0	36.0			63	0.04%
	Shellfish nei	ខ្យង មីក ក្តាមផ្សេងៗ		10.0		50.0	60	0.04%
<i>Lutjanus gibbus</i>	humpback red snapper	ត្រីឆ្មុតក្រហម			60.0		60	0.04%
<i>Penaeus merguensis</i>	Banana shrimp	បង្កាប៉ារ៉ា		24.0	23.5	10.0	58	0.04%
<i>Diagramma pictum</i>	Painted sweetlips	ត្រីកាដី			50.0		50	0.03%
<i>Nemipterus hexodon</i>	Ornate treadfin bream	ត្រីអាងគីមលី			50.0		50	0.03%
<i>Sarda orientalis</i>	Striped bonito	ត្រីឈាមស	50.0				50	0.03%
<i>Scomberomorus sp.</i>	Spanish mackerel species nei	ត្រីបេកា	3.0			37.0	40	0.03%
<i>Stolephorus indicus</i>	Indian anchovy	ត្រីក្រចកក្របី			40.0		40	0.03%

Scientific name	English Common	Khmer Name	Kampot	Kep	Koh Kong	Sihanouk	Total	%Total
<i>Brevitrygon imbricata</i>	Scaly whipray	បំបែលមាន់		1.0	30.0	7.0	38	0.03%
<i>Saurida undosquamis</i>	Bushtooth lizarfish	ត្រីក្អមចិនអុជខ្មៅ				37.0	37	0.03%
	Crabs (swimming crab, mud crab)	ពពួកក្តាម (រួមទាំង ក្តាមសេះ ក្តាមថ្ម ក្តាម ជ័រ ជាដើម)		31.0	4.0		35	0.02%
<i>Portunus spp.</i>	Swimming crabs	ក្តាមសេះ		4.0	1.0	30.0	35	0.02%
<i>Priacanthus tayenus</i>	Purple-spotted bigeye	ត្រីក្រហមភ្នែកលៀន			35.0		35	0.02%
<i>Karalla daura</i>	Goldstripe ponyfish	ត្រីសំបោរហៀរអិល			30.0		30	0.02%
<i>Sillago sihama</i>	Silver sillago	ត្រីព្រលួស		20.0			20	0.01%
<i>Lethrinus harak</i>	Thumbprint emperor	ត្រីបោះត្រា			13.0		13	0.01%
<i>Sphyraena obtusata</i>	Obtuse barracuda	ត្រីអង្រែ	6.0			7.0	13	0.01%
	Rays nei	បំបែល	3.0	9.5			13	0.01%
	Flounders and soles nei	ត្រីអណ្តាតឆ្កែ	10.5		0.5		11	0.01%
<i>Arius maculatus</i>	Spotted catfish	ត្រីក្អក	11.0				11	0.01%
<i>Eleutheronema tetradactylum</i>	Fourfinger threadfin	ត្រីកាវ៉ាវ	9.0	1.5			11	0.01%
	Snappers, jobfishes	ត្រីអាំងកឹយ		8.0			8	0.01%
<i>Parastromateus niger</i>	Black Pomfret	ត្រីចាបខ្មៅ			5.0	2.0	7	0.00%
<i>Scomberomorus lineolatus</i>	Streaked seerfish	ត្រីបេកា			7.0		7	0.00%

Scientific name	English Common	Khmer Name	Kampot	Kep	Koh Kong	Sihanouk	Total	%Total
<i>Acanthurus sp.</i>	Surgeonfish	ត្រីកាតាំង	5.0	1.5			7	0.00%
	Cutlassfish	ត្រីកុក	4.0				4	0.00%
<i>Megalaspis cordyla</i>	Torpedo scad	ត្រីកន្ទុយរឹង				4.0	4	0.00%
<i>Acanthurus lineatus</i>	Lined surgeonfish	ត្រីកាតាំងឆ្មុត			3.0		3	0.00%
<i>Pseudorhombus arsius</i>	Large-tooth flounder	ត្រីអណ្តាតស្តែ		3.0			3	0.00%
<i>Scylla serrata</i>	Mud crab	ក្តាមថ្ម	1.0	1.0	0.9		3	0.00%
<i>Anadara granosa</i>	Blood cockle	គ្រែងឈាម			2.5		3	0.00%
	4-Cephalopods (octopus)	ពពួកមីកពីងពាង		2.0			2	0.00%
	Barracuda	ត្រីអង្រែ				2.0	2	0.00%
	Emperors, scavengers nei	ត្រីគ្រាប់ខ្នុរ			2.0		2	0.00%
<i>Gazza minuta</i>	Toothpony	ត្រីសំបោរហៀរ "គ្មានរំអិល"			2.0		2	0.00%
<i>Polydactylus sexfilis</i>	Sixfinger threadfin	ត្រីកាវ៉ាព្រុយប្រាំមួយ				2.0	2	0.00%
	Lobster	បង្កងប៉ាក		1.5			2	0.00%
	Sharks and Rays	ប្រភេទត្រីជី(ពពួកមានតម្លៃថោក)	1.0				1	0.00%
<i>Atule mate</i>	Yellowtail scad	ត្រីកូនគុំ			1.0		1	0.00%
<i>Saurenchelys cancrivora</i>	Slender Sorcerer	ត្រីខ្លីងសមុទ្រ		1.0			1	0.00%