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Catch Monitoring Survey at Marine Landing Sites, Cambodia

MaFReDI Technical Report

July 2023

Marine Fisheries Research and Development Institute (MaFReDI)

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Abbreviations

CPUE	Catch per Unit Effort
EU	European Union
$\varepsilon\%$	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 July 2023 shows that Mackerel gillnet fishing has the highest Catch per Unit of Effort at 420.2 kg/fishing day, followed by middle-scale trawl (277.82 kg/day), fish trap (90.3 kg/day), fish gillnet (51 kg/day), and Octopus trap long line (38.9 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 53.2 kg and trawlers 12-18 meters reporting 542.8 kg/day.

A total of 31 individual species are recorded with *Encrasicholina heteroloba* (shorthead anchovie) contributing more than 65.1% of the total recorded catch for 224 landings of **156,138.3** kg. In general, fish contribute 80.7% of the total reported catch, followed by Cephalopods 5.8%, Shrimps 3.3% and crabs at 1.1%. In terms of value, Cephalopods contribute 29.3%, fish 41.1%, Crabs 9.6% and shrimp 14.8%. The total value of the reported catch is **450,228,000** Riels.

The total estimated catch for July 2023, is calculated at 7,830.4 MT, with most of it from trawl fishing (59.8%) and with small-scale fishing contributing more than 17%. The total value of the estimated catch, using the average reported price, is **32,496,110,000** KHR or US\$ **7,994,043**.

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 July 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 July 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 July

Data collection for July 2023 was conducted at 8 fishing landing sites, two in each coastal province (Table 1). Overall, landings for 48 small-scale vessels and 176 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	Vessel Class		Grand Total
		Small Scale	Middle Scale	
Kampot	Kampong Kandal		28	28
Kampot	Trapeang Ropov	16	12	28
Kep	Ampeng	12	16	28
Kep	Ou Krasar	6	22	28
Koh Kong	Oknha Lyon Phat	3	25	28
Koh Kong	Thmasar	8	20	28
Preah Sihanouk	Stueng Hav		28	28
Preah Sihanouk	Tumrup Rolok	3	25	28
Grand Total		48	176	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 ($\epsilon\%$) of the average CPUE. Mackerel Gillnet has the highest CPUE at 420.2 kg/fishing day, but has a very low accuracy and is not representative for the average catch. Trawl vessels catch an average of 277.8 kg/day), followed by fish trap (90.3 kg/day), fish gillnet (51 kg/day) and Octopus trap long line (38.9kg/day). The highest CPUE for small-scale fishing is found for fish gillnet (85.1 kg/day) and Octopus trap longline (45.2 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	$\epsilon\%$
Mackerel Gillnet	420.2	3	505.1	69.4%
Trawl	277.8	109	386.9	13.3%
Fish trap	90.3	4	13.8	7.6%
Fish gillnet	51.0	4	42.5	41.7%
Octopus trap longline	38.9	5	8.3	9.5%
Shrimp gillnet	33.0	2	5.4	11.5%
Crab trap	23.2	9	4.8	6.9%
Push net	21.5	2	3.5	11.6%
Centipede trap	18.1	6	15.7	35.4%
Crab gillnet	15.4	23	8.2	11.1%
Dragged basket for blood cockle	6.3	6	4.6	29.9%
Small-scale	CPUE	N	SD	$\epsilon\%$
Fish gillnet	58.1	16	27.4	11.8%
Octopus trap longline	45.2	3	4.1	5.3%
Push net	24.0	2	9.9	29.2%
Crab gillnet	16.7	11	5.1	9.1%
Crab trap	16.6	2	8.7	36.9%
Centipede trap	12.6	12	3.8	8.8%

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.

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 (**Error! Not a valid bookmark self-reference.**), with the CPUE for middle-scale trawlers 12-18 meter at over 542.8 kg/day, more than 10 times higher than for 6–12-meter trawlers at 53.2 kg/day.

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

Trawlers	CPUE	N	SD	ε%
Small-scale 6-12m	53.2	59	29.6	7.3%
Middle-scale 12-18m	542.8	50	443.2	11.5%

3. 3. Catch proportion by main gears

Trawlers have the highest contribution to the total reported catch, with 90% of the catch. Fish gillnets have the highest contribution to the reported catch for small-scale vessels. Middle-scale fisheries, contribute more than 98% of the total recorded catch, besides trawl fisheries, other middle-scale fishing gears contribute 8.30% of the reported catches. Small-scale fishing only contributes 2.2% of the total recorded fisheries yield.

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

Middle Scale (98.30%)	Catch (%)
Trawl	90.0%
Fish trap	2.6%
Mackerel Gillnet	2.1%
Halfbeak gillnet	1.3%
Octopus trap longline	0.7%
Fish gillnet	0.6%
Crab gillnet	0.3%
Squid tow longline	0.3%
Centipede trap	0.2%
Other gears	0.2%

Small Scale (2.2%)	Catch (%)
Fish gillnet	0.8%
Octopus trap longline	0.7%
Crab gillnet	0.6%
Other gears	0.1%

	Total	Kampot	Kep	Koh Kong	Preah Sihanouk
Trawl	140,596.9	0.9%	0.3%	19.2%	79.5%
Other middle-scale	13,096.6	43.2%	4.0%	46.4%	6.4%
Small-scale	2,444.8	38.2%	9.9%	42.0%	9.9%
Total	103,664.2	5.1%	0.8%	21.8%	72.3%

In addition, when considering the fisheries production by province, for July 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 combined only contributing 1.2%. 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 156,138.3 kg, fish dominate the total reported catch with almost 80.7% of total weight followed by Shellfish 8.5%, Cephalopods 5.8%, Shrimps at 3.3%, Crabs at 1.1% and unspecified species group at 0.6% (see Annex 1). Other species groups (sharks and rays), contribute only 0.4%.

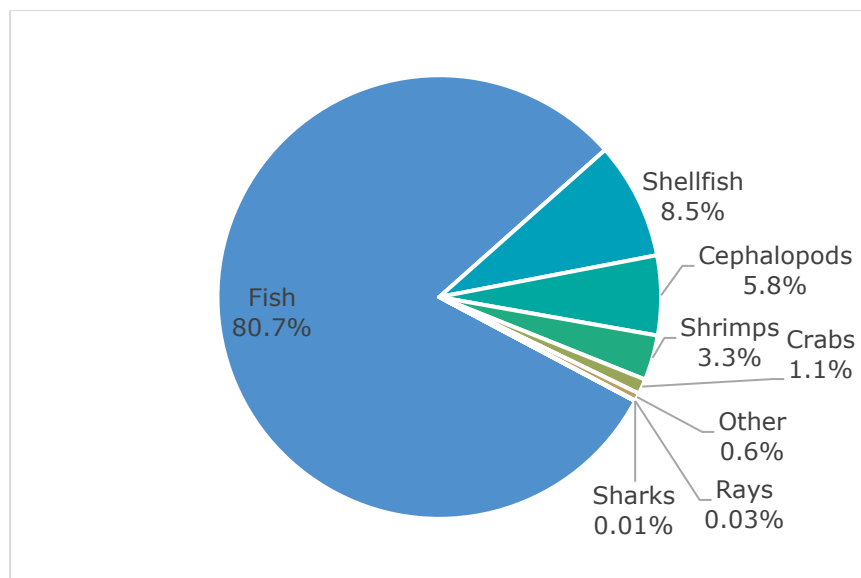


Figure 1. Catch composition by species group for all landings combined.

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

The total reported catch for July was 156,138 kg. The proportional catch by species is shown in Table 5. The most abundant species is the Shorthead anchovy (*Encrasicholina heteroloba*), which contributes 65.1% of the total reported catch. This is followed by a number of species groups, Shellfish (8.5%), Other fish (7%), Cephalopods (2.1%), Shrimps (1.6%) with trash fish (1.5%) and Swimming crab (*Portunus pelagicus*) with 1%. The top 20 species (and species groups) contribute 98.0% of the reported catch.

Table 5. Catch composition by species for all landings.

Scientific name	English Name	Khmer name	Catch (kg)	Catch (%)
<i>Encrasicholina heteroloba</i>	Shorthead anchovy	កាកឹម	101,600.0	65.1%
	Shellfish nei	ខ្យង មីក ក្តាមផ្សេងៗ	13,240.0	8.5%
	Other fish nei	ប្រភេទត្រីចំរុះ	10,937.5	7.0%
	Cephalopods (squids/cuttlefish)	ពពួកមីកស្នូកនិងមីកបំពង់	3,211.0	2.1%
	Shrimps nei	ពពួកបង្ហាគ្រប់ប្រភេទទាំងអស់	2,545.0	1.6%
	Squids nei	មីក	2,398.0	1.5%
	trash fish	ត្រីដី	2,309.0	1.5%
<i>Lutjanus bohar</i>	two-spot red snapper	ត្រីរាំងក៏យអុចពីរ	2,248.0	1.4%

Scientific name	English Name	Khmer name	Catch (kg)	Catch (%)
	Needlefish nei	ត្រីឆ្មោង	2,016.0	1.3%
<i>Rastrelliger kanagurta</i>	Indian mackerel	ត្រីកម្ពុជខ្លួនវែង	1,905.0	1.2%
	Octopus	មីកពីងពាង	1,860.1	1.2%
<i>Portunus pelagicus</i>	Swimming crab	ក្អាមសេះ	1,553.0	1.0%
<i>Metapenaeus spp.</i>		បង្កាឌីខាក់	1,079.5	0.7%
<i>Decapterus macrosoma</i>	Shortfin scad	ត្រីកម្ពុជឬត្រីឆ្មាធូ	1,001.0	0.6%
	Small mixed shrimp nei	តី	968.0	0.6%
<i>Anodontostoma chacunda</i>	Chacunda gizzard shad	ត្រីកម្រៃ	950.0	0.6%
	Octopus	ពពួកមីកពីងពាង	933.0	0.6%
	Other catch nei	ផ្សេងៗ	889.0	0.6%
<i>Epinephelus coioides</i>	Orange-spotted grouper	ត្រីតុកកែកៅ	668.0	0.4%
<i>Suborder Sepiina</i>	Cuttlefish	មីកស្លុក	666.9	0.4%
	Other species		3,160.3	2.0%
Grand total			156,138.3	

3.6. Species group contribution by landed value

The total reported value for July was 450,227,720 Riels, Fish contribute 41.1%, Cephalopods 29.3%, Shrimps 14.8% and Crabs 9.6%. Unspecified species groups contribute 1.4%, while Sharks, rays and shellfish contribute 0.26% of the total value (more details are included in Annex 2).

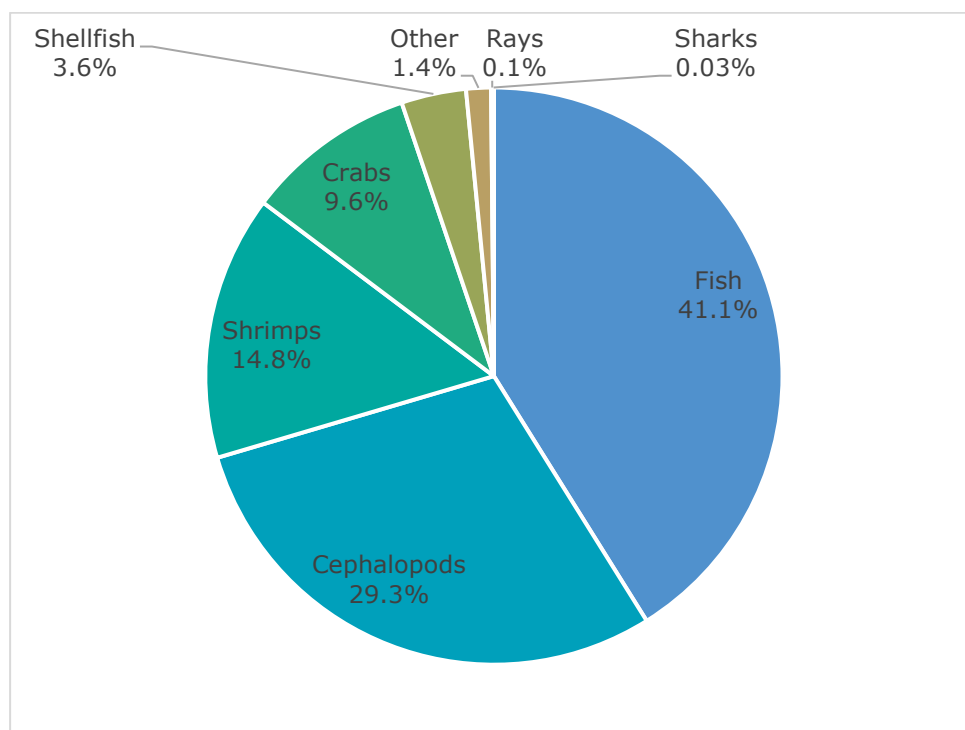


Figure 2. The value of the catch by main species groups for all landings

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

The total reported value for July was 450,228,000 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 Shorthead anchovy (18%), despite the low price of 800 Riel/kg, the high reported weight for anchovies ensures this has a high contribution to the total catch. The second most valuable are Cephalopods, with squids/cuttlefish contributing 10%. Cephalopods species groups are not well defined and are high value species, Squids, Octopus and Cuttlefish combined contribute more than 29% of the total value over 4 species groups. Swimming crabs (9%) and Shrimps nei (6%), also are important, either through their bulk or high prices. Other species, outside of the top 20 contribute 4.9% 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)
<i>Encrasicholina heteroloba</i>	Shorthead anchovy	81,280	18.1%	800
	Cephalopods (squids/cuttlefish)	46,600	10.4%	15,275
	Squids nei	44,258	9.8%	15,600
<i>Portunus pelagicus</i>	Swimming crab	42,049	9.3%	22,825
	Octopus	32,228	7.2%	10,800
	Shrimps (unsorted)	29,089	6.5%	9,150
	Other fish nei	28,845	6.4%	3,125
<i>Metapenaeus spp.</i>		23,660	5.3%	21,425
	Shellfish nei	14,133	3.1%	1,600
<i>Epinephelus coioides</i>	Orange-spotted grouper	13,295	3.0%	19,000
<i>Rastrelliger kanagurta</i>	Indian mackerel	12,325	2.7%	6,000
<i>Lutjanus argentimaculatus</i>	Mangrove red snapper	11,305	2.5%	17,000
<i>Lutjanus bohar</i>	two-spot red snapper	9,149	2.0%	3,775
<i>Suborder Sepiina</i>	Cuttlefish	8,883	2.0%	14,450
<i>Decapterus macrosoma</i>	Shortfin scad	8,010	1.8%	9,000
	Needlefish nei	7,116	1.6%	6,725
	Other catch nei	6,263	1.4%	13,125
<i>Penaeus sp.</i>	Prawns nei	5,973	1.3%	16,000
	Small mixed shrimp nei	3,797	0.8%	3,925
<i>Siganus canaliculatus</i>	Whitespotted Spinefoot	3,322	0.7%	5,600
	Other species	18,650	4.1%	
Grand Total		450,228		

The comparatively high reported catch and high proportion of low value anchovy, means that the average price is about 2884 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 classes¹, 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

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

extrapolation uses number of vessels for each vessel-gear category obtained from the 2018 vessel census, while assuming only 85% are operating².

The total calculated catch for July 2023, is 7,830 MT. As for the reported catch, by far the largest contribution to the total estimated catch is by trawlers, for a total of 59.8%, with small-scale vessels contributing almost 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	0	5.5	(7.0%)	5.0	27.5	775.2	21.3	0.3%
Small-scale 6-<12 meter	48	31.2	12.1%	15.8	493.0	2658	1,310.5	16.7%
Trawl 6-<12 meter	59	53.2	7.3%	19.6	1,040.1	952	990.1	12.6%
Trawl 12-18 meter	50	542.8	11.5%	19.3	10,454.2	339.15	3,545.5	45.3%
Trawl 18-<24 meter	0	220.8	(88.7%)	16.0	3,533.3	42.5	150.2	1.9%
Other gears 12-18 m	63	56.7	55.5%	13.3	757.6	1588.7	1,203.5	15.4%
Other gears 18-<24 m	4	327.5	69.0%	22.0	7,205.3	55.25	398.1	5.1%
Large-scale 24+ meter	0	1,340.7	(63.8%)	17.5	23,462.5	9	211.2	2.7%
July Total Estimated Catch							7,830.4	

While the values for ε%, for the CPUE for some of the vessel-gear categories are acceptable, in addition to vessels larger than 18 meters, the statistical precision for all middle-scale non-trawler vessels is insufficient. As a consequence, since these vessel-gear classes contribute more than 25% of the total estimated catch, there is limited confidence in the level of the estimated total catch for July and should only be considered indicative.

Using the average reported price, the total value of the estimated catch can be calculated as **32,496,110,000 KHR** or **US\$ 7,994,043**. 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.

² Based on information by FiAC staff

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

Species group	Total weight (kg)	Total weight% (kg)
Fish	125953.5	80.67%
Shellfish	13320.2	8.53%
Cephalopods	9069	5.81%
Shrimps	5128.8	3.28%
Crabs	1714.5	1.10%
Other	889	0.57%
Rays	52.8	0.03%
Sharks	10.5	0.01%
Grand Total	156,138.3	

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	450,227.7	
Average price	2,884 KHR/kg	

Annex 2. Catch contribution by gear type and province.

Gear Type	Koh Kong	Preah Sihanouk	Kampot	Kep	Grand Total (kg)
Trawl	19.2%	79.5%	0.9%	0.3%	140,596.9
Fish trap	85.1%	14.9%	-	-	4,035.0
Mackerel Gillnet	-	-	100.0%	-	3,350.0
Halfbeak gillnet	-	-	100.0%	-	2,000.0
Octopus trap longline	100.0%	-	-	-	1,970.0
Fish gillnet	45.8%	-	51.6%	2.6%	1,939.0
Crab gillnet	13.0%	47.0%	-	40.0%	877.6
Squid tow longline	100.0%	-	-	-	500.0
Centipede trap	14.7%	-	-	85.3%	408.0
Crab trap	-	-	100.0%	-	241.8
Push net	100.0%	-	-	-	91.0
Shrimp gillnet	13.2%	86.8%	-	-	76.0
Dragged basket blood cockle	100.0%	-	-	-	40.0
Ray bottom longline	-	-	-	100.0%	13.0
Grand Total	21.8%	72.3%	5.1%	0.8%	156,138.3

Annex 3. Calculated CPUE by province

Province	Vessel Class	Gear Type	Average CPUE	N	SD	ε%	
Kampot	Middle Scale	Crab trap	23.2	9	4.8	6.9%	
		Mackerel Gillnet	420.2	3	505.1	69.4%	
		Trawl	50.8	26	8.5	3.3%	
	Small Scale	Crab trap	16.6	2	8.7	36.9%	
		Fish gillnet	64.3	14	23.1	9.6%	
Kep	Middle Scale	Centipede trap	22.3	4	18.3	40.9%	
		Crab gillnet	16.4	15	7.4	11.7%	
		Fish gillnet	15.5	2	3.5	16.1%	
		Trawl	30.3	16	4.4	3.6%	
		Small Scale	Centipede trap	12.2	9	4.4	12.0%
			Crab gillnet	14.9	7	5.5	14.0%
Koh Kong	Middle Scale	Centipede trap	9.5	2	2.1	15.8%	
		Crab gillnet	13.6	7	10.4	28.8%	
		Dragged basket blood cockle	6.3	6	4.6	29.9%	
		Fish trap	95.4	3	11.3	6.9%	
		Octopus trap longline	38.9	5	8.3	9.5%	
		Push net	21.5	2	3.5	11.6%	
		Trawl	185.6	18	115.2	14.6%	
		Small Scale	Centipede trap	13.7	3	0.6	2.4%
			Octopus trap longline	45.2	3	4.1	5.3%
		Push net	24.0	2	9.9	29.2%	
Preah Sihanouk	Middle Scale	Shrimp gillnet	33.0	2	5.4	11.5%	
		Trawl	512.9	49	473.4	13.2%	
		Small Scale	Crab gillnet	20.2	3	1.9	5.4%

Annex 4. Species catch by province

Scientific name	Khmer name	English Name	Koh Kong	Preah Sihanouk	Kampot	Kep	Catch (kg)	Catch (%)
<i>Encrasicholina heteroloba</i>	កាកីម	Shorthead anchovy	-	100.0%	-	-	101,600.0	65.1%
	ខ្យង មីក ក្តាមផ្សេងៗ	Shellfish nei	100.0%	-	-	-	13,240.0	8.5%
	ប្រភេទត្រីចំរុះ	Other fish nei	63.9%	34.1%	0.9%	1.2%	10,937.5	7.0%
	ពពួកមីកស្នូកនិងមីកបំពង់	Cephalopods (squids/cuttlefish)	88.6%	10.6%	-	0.8%	3,211.0	2.1%
	ពពួកបង្កាគ្រប់ប្រភេទទាំងអស់	Shrimps nei	57.2%	42.8%	-	-	2,545.0	1.6%
	មីក	Squids nei	72.1%	27.7%	0.2%	-	2,398.0	1.5%
	ត្រីជី	trash fish	43.3%	52.2%	-	4.5%	2,309.0	1.5%
<i>Lutjanus bohar</i>	ត្រីអាំងក៏យអុចពីរ	two-spot red snapper	100.0%	-	-	-	2,248.0	1.4%
	ត្រីឆ្នោង	Needlefish nei	-	-	99.2%	0.8%	2,016.0	1.3%
<i>Rastrelliger kanagurta</i>	ត្រីកាម៉ុងខ្លួនវែង	Indian mackerel	-	-	100.0%	-	1,905.0	1.2%
	មីកពីងពាង	Octopus	80.6%	8.5%	9.1%	1.8%	1,860.1	1.2%
<i>Portunus pelagicus</i>	ក្តាមសេះ	Swimming crab	7.7%	43.7%	24.5%	24.1%	1,553.0	1.0%
<i>Metapenaeus spp.</i>	បង្កាឌីខាក់		12.0%	88.0%	-	-	1,079.5	0.7%
<i>Decapterus macrosoma</i>	ត្រីកាម៉ុងឬត្រីញ្ជូ	Shortfin scad	-	0.1%	99.9%	-	1,001.0	0.6%
	គី	Small mixed shrimp nei	-	100.0%	-	-	968.0	0.6%
<i>Anodontostoma chacunda</i>	ត្រីកាម៉យ	Chacunda gizzard shad	-	-	100.0%	-	950.0	0.6%
	ពពួកមីកពីងពាង		32.2%	67.8%	-	-	933.0	0.6%
	ផ្សេងៗ	Other catch nei	-	-	98.4%	1.6%	889.0	0.6%
<i>Epinephelus coioides</i>	ត្រីតុកកែកៅ	Orange-spotted grouper	98.1%	1.9%	-	-	668.0	0.4%
<i>Suborder Sepiina</i>	មីកស្នូក	Cuttlefish	-	83.3%	11.2%	5.5%	666.9	0.4%
<i>Lutjanus argentimaculatus</i>	ត្រីអាំងក៏យក្រហម	Mangrove red snapper	100.0%	-	-	-	665.0	0.4%
<i>Siganus canaliculatus</i>	ត្រីកន្តាំងក្រអូម	Whitespotted Spinefoot	66.6%	-	33.4%	-	661.0	0.4%
<i>Penaeus sp.</i>	បង្កា	Prawns nei	9.7%	35.3%	7.0%	48.1%	388.6	0.2%
	ត្រីកន្តាំង	Rabbitfish	100.0%	-	-	-	305.0	0.2%
	ត្រីអង្រែ	Barracuda	100.0%	-	-	-	150.0	0.1%
<i>Sargocentron rubrum</i>	ត្រីកាដី	Redcoat	100.0%	-	-	-	120.0	0.1%

Scientific name	Khmer name	English Name	Koh Kong	Preah Sihanouk	Kampot	Kep	Catch (kg)	Catch (%)
	ត្រីសេក	Parrot fish	-	-	49.1%	50.9%	106.0	0.1%
	បង្កងកណ្តុប	Mantis shrimp	8.7%	1.6%	89.7%	-	96.2	0.1%
	ពពួកក្តាម (រួមទាំងក្តាមសេះ ក្តាមថ្ម ក្តាមជ័រ ជាដើម)	Crabs nei	-	38.8%	-	61.2%	85.0	0.1%
<i>Sillago sihama</i>	ត្រីព្រលួស	Silver sillago	-	-	-	100.0%	72.0	0.0%
	ត្រីតូចិន	Lizardfish	71.4%	14.3%	14.3%	-	70.0	0.0%
	ត្រីក្រហម	squirrelfish	-	-	100.0%	-	50.0	0.0%
<i>Pseudorhombus arsius</i>	ត្រីអណ្តាតឆ្កែ	Large tooth flounder	2.1%	97.9%	-	-	48.0	0.0%
	ក្តាមផ្សេងៗ		-	-	-	100.0%	41.0	0.0%
<i>Anadara granosa</i>	គ្រែងឈាម	Blood cockle	100.0%	-	-	-	40.0	0.0%
	សប្បីសត្វ ពពួកខ្យង គ្រំ ងាវ	Mollusks nei	-	-	-	100.0%	38.2	0.0%
<i>Penaeus merguensis</i>	បង្កាប៉ារ៉ា	Banana shrimp	100.0%	-	-	-	35.0	0.0%
<i>Brevitrygon imbricata</i>	បំបែលមាន់	Scaly whiplay	-	-	-	100.0%	31.5	0.0%
<i>Portunus spp.</i>	ក្តាមសេះ	Swimming crabs	-	100.0%	-	-	23.0	0.0%
<i>Scomberomorus commerson</i>	ត្រីបេកាខ្មៅ ឬត្រីបេកាឆ្នុត	Narrowbarred Spanish mackerel	100.0%	-	-	-	20.0	0.0%
	បំបែល	Rays nei	-	53.8%	46.2%	-	17.3	0.0%
<i>Myrophis microchir</i>	អន្ទង់សមុទ្រ	Ordinary Snake eel	-	-	-	100.0%	16.0	0.0%
<i>Scomberomorus sp.</i>	ត្រីបេកា	Spanish mackerel species nei	-	100.0%	-	-	14.0	0.0%
<i>Penaeus monodon</i>	បង្កាខ្លីង	Giant tiger prawn	-	100.0%	-	-	11.5	0.0%
	ឆ្កាម	Sharks	-	100.0%	-	-	10.5	0.0%
<i>Alepes vari</i>	ត្រីកាហាវ	Herring scad	-	-	-	100.0%	10.0	0.0%
<i>Episesarma versicolor</i>	ក្តាមជ័រ	Violet vinegar crab	100.0%	-	-	-	9.0	0.0%
	អន្ទង់សមុទ្រ	Congers nei	-	-	-	100.0%	6.0	0.0%
	បង្កងប៉ាក		-	100.0%	-	-	5.0	0.0%
<i>Maculabatis gerrardi</i>	បំបែលអុជ	Whitespotted whiplay	-	-	-	100.0%	4.0	0.0%
<i>Scylla serrata</i>	ក្តាមថ្ម	Mud crab	100.0%	-	-	-	3.5	0.0%
<i>Sphyraena obtusata</i>	ត្រីអង្រែ	Obtuse barracuda	-	-	100.0%	-	3.0	0.0%

Scientific name	Khmer name	English Name	Koh Kong	Preah Sihanouk	Kampot	Kep	Catch (kg)	Catch (%)
<i>Pampus argenteus</i>	ត្រីចាបស	Silver pomfret	-	-	-	100.0%	3.0	0.0%
	ត្រាម បំបែល		-	-	100.0%	-	2.0	0.0%
Grand Total (kg)							156,138.3	