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Catch Monitoring Survey at Marine Landing Sites, Cambodia

MaFReDI Technical Report

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November 2023

Marine Fisheries Research and Development Institute (MaFReDI)

This publication was produced with the financial support of the European Union. Its contents are the sole responsibility of Fisheries Administration and do not necessarily reflect the views of the European Union

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Acknowledgements

This report was prepared with financial support from the EU Cambodia Programme for Sustainable and Inclusive Growth in the Fisheries Sector programme (CAPFISH). The author would like to express their gratitude to the FAO CAPFISH-Capture project in supporting the development of the methodology and general support for training and advise on data collection and analysis. The author also thanks the MaFReDI data collector team for their hard work for field data collection and data entry as well as providing additional contributions for interpreting the information. The author also thanks local authorities in different level during the field work.

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 CPUE of trawl fishing is the highest at 161 kg/fishing day, followed by middle-scale Mackerel gillnet (157.3 kg/day), octopus trap longlines (48.9 kg/day), shrimp gillnet (44.3 kg/day), fish gillnet (44 kg/day) and lowest is centipede trap (12kg/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 54.9 kg and trawlers 12-18 meters reporting 370 kg/day.

A total of 29 individual species are recorded with other fish nei contributing more than 17.5% of the total recorded catch for 224 landings of **60,651.7** kg. In general, fish contribute 75% of the total reported catch, followed by Cephalopods 12.4%, Shrimps 5% and Crabs at 2.8%. In terms of value, Cephalopods contribute 33.9%, Fish 32.8%, Crabs 13.5% and shrimp 15%. The total value of the reported catch is **304,818,000** Riels.

The total estimated catch for November 2023 is calculated at **6,204.3** MT with most of it from trawl fishing (60%) and with small-scale fishing contributing more than 14.16%. The total value of the estimated catch, using the average reported price, is **31,182,811,800** KHR or US\$ **7,605,564**.

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 November 2023.

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

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 November 2023 was conducted at 8 fishing landing sites, two in each coastal province (Table 1). Overall, landings for 45 small-scale vessels and 179 middle-scale vessels were recorded. Middle-scale vessels includes vessel length 12-24 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	Landing Site	Vessel Class		Grand Total
		Small Scale	Middle Scale	
Kampot	Kampong Kandal	3	25	28
	Trapeang Ropov	14	14	28
Kep	Ampeng	7	21	28
	Ou Krasar	7	21	28
Koh Kong	Oknha Lyon Phat	1	27	28
	Thmasar	13	15	28
Preah Sihanouk	Stueng Hav		28	28
	Tumnup Rolok		28	28
Grand Total		45	179	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. Trawling has the highest CPUE at 161.0 kg/fishing day, followed by middle-scale mackerel gillnet (157 kg/day), octopus longline (48.9 kg/day), shrimp gillnet (44.3 kg/day), fish gillnet (44.0 kg/day), crab trap (20.9 kg/day) crab gillnet (18.3 kg/day) and centipede trap 12.0 kg/day). CPUE for small-scale fishing generally is lower for the same gears used by middle-scale vessels, except for centipede traps.

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

Middle scale gear type	CPUE	N	SD	$\epsilon\%$
Trawl	161.0	98	246.4	15.5%
Mackerel Gillnet	157.3	9	74.0	15.7%
Octopus trap longline	48.9	14	19.3	10.5%
Shrimp gillnet	44.3	12	5.6	3.6%
Fish gillnet	44.0	3	29.5	38.7%
Crab trap	20.9	12	8.5	11.7%
Crab gillnet	18.3	23	11.0	12.5%
Centipede trap	12.0	3	2.6	12.7%
Small scale gear type	CPUE	N	SD	$\epsilon\%$
Fish gillnet	37.5	12	16.2	12.4%
Centipede trap	17.0	10	11.5	21.4%
Crab trap	10.5	6	5.4	21.1%
Crab gillnet	3.7	12	2.8	21.6%

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 fish gillnets that has a high variation relative to the estimated CPUE, most likely caused by differences in the amount of gear deployed. For trawlers, despite a very high variation, the statistical precision of the average CPUE is statistically acceptable, as it is for almost all other gears.

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

Trawler	CPUE	N	SD	$\epsilon\%$
Small 6-<12 Trawl	54.9	65	73.5	16.6%
Middle 12-18 Trawl	370.0	33	324.5	15.3%

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 370 kg/day, more than 7 times higher than for 6–12-meter trawlers at 54.9 kg/day.

3.3. Catch proportion by main gears.

Trawlers always have the highest contribution to the total catch overall, with fish gillnet the highest contribution to the total catch for small-scale vessels. Middle-scale fisheries, contribute more than 98.29% of the total recorded catch.

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

Middle Scale 98.3%	Total Catch	Catch%
Trawl	36,214.7	59.9%
Mackerel Gillnet	14,015	23.2%
Octopus trap longline	3,919	6.5%
Unspecified gears	2,000	3.3%
Halfbeak gillnet	1,400	2.3%
Crab gillnet	867	1.4%
Shrimp gillnet	531.5	0.9%
Crab trap	303.8	0.5%
Fish gillnet	132	0.2%
Other gears	82	0.1%

Small Scale 1.7%	Total Catch	Catch%
Fish gillnet	575	1.0%
Centipede trap	170	0.3%
Mackerel Gillnet	130	0.2%
Other gears	161.2	0.3%

Gear type	Total	Kampot	Kep	Koh Kong	Preah Sihanouk
Trawl	36,214.7	2.7%	1.7%	42.6%	53.0%
Other middle-scale	23,250.3	26.0%	3.4%	34.9%	35.7%
Small-scale	1,036.2	61.2%	19.9%	18.9%	0.0%
Total	60,501.2	12.6%	2.7%	39.2%	45.5%

Trawl fisheries contributes by far most of the reported catch, with 59.86% of the catch. With the other middle-scale fishing contributing another 19.2% of the reported catches. Consequently, 98.3% of the reported catch is by middle-scale fisheries, with only 1.7% by small-scale fishing.

In addition, when considering the fisheries production by province, for November 2023, the vast majority of the trawl fisheries production is reported from Preah Sihanouk followed closely by Koh Kong, with Kampot and Kep only contributing 4.4%. Most of the production by other middle-scale fisheries is almost equally distributed over Kampot, Sihanouk and Koh Kong, with most of the small-scale production reported for Kampot (see for additional details Annex 3).

3.4. Species group catch contribution by landed weight.

The total reported catch for all species (or group) was 60,651.7 kg, fish dominate the total reported catch by weight, with almost 75% of total weight followed by Cephalopods 12.2%, Shrimps at 5%, Crabs at 3% and unspecified species group at 2% (see Annex 1). Other species groups (sharks, rays and shellfish), contribute only 0.03%.

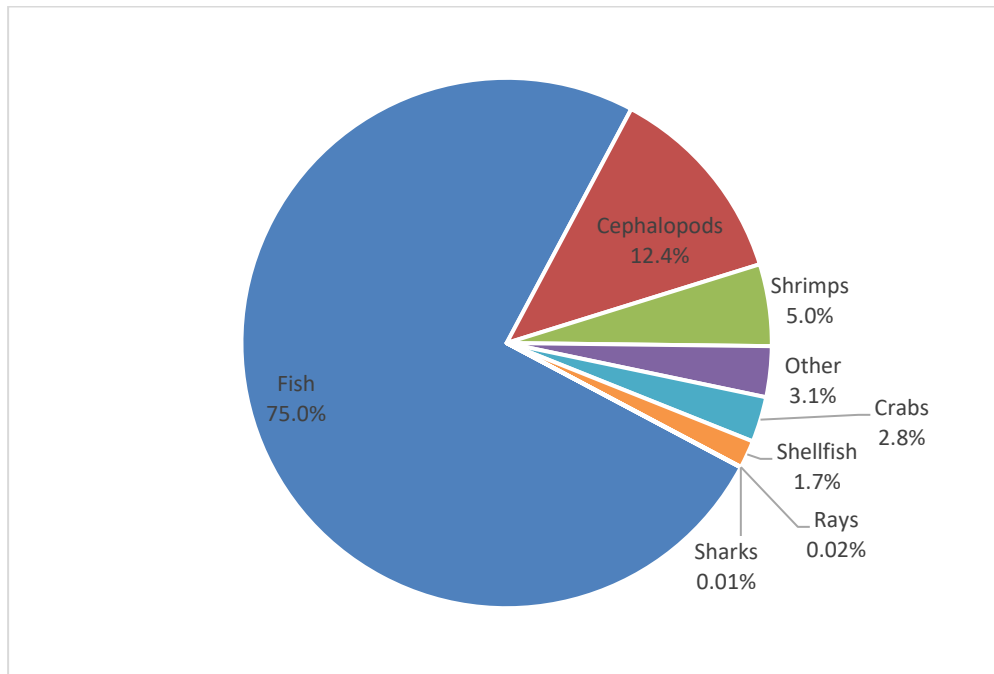


Figure 1. Catch composition by species group for all landings combined.

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

The species contribution to the total reported catch for November 2023 is shown in Table 5. The most abundant category is other fish nei contributes 17.5%, followed closely by Shorthead anchovy (*Encrasicholina heteroloba*), which contributes 17.4% of the total reported catch. This is followed by several species' groups, Trash fish (12.3%), short fin scads 11.5%, Short mackerel (7%) and Octopus (5.6%) and squid nei with (3.3 %) and Swimming crab (*Portunus pelagicus*) with 2.5%. The top 20 species contribute 95.7% of the reported catch.

Table 5. Catch composition by species for all landings

Scientific name	English Name	Khmer name	Catch (kg)	Catch (%)
	Other fish nei	ប្រភេទត្រីចំរុះ	10,632.0	17.5%
<i>Encrasicholina heteroloba</i>	Shorthead anchovy	កាកឹម	10,530.0	17.4%
	Trash fish	ត្រីដី	7,431.0	12.3%
<i>Decapterus macrosoma</i>	Shortfin scad	ត្រីកាម៉ុងឬត្រីឆ្មាតូ	7,005.0	11.5%
<i>Rastrelliger brachysoma</i>	Short mackerel	ត្រីឆ្មាតូ ឬត្រីកាម៉ុងខ្លួនខ្លី	4,227.0	7.0%
	Octopus	មីកពីងពាង	3,411.0	5.6%
	Squids nei	មីក	2,018.0	3.3%
	Other catch nei	ផ្សេងៗ	1,876.1	3.1%
<i>Rastrelliger faughni</i>	Island mackerel	ត្រីប៉ាឡាំង	1,700.0	2.8%
<i>Portunus pelagicus</i>	Swimming crab	ក្តាមសេះ	1,508.3	2.5%
	Needlefish nei	ត្រីធ្មោង	1,463.0	2.4%
	Cephalopods (Octopus)	ពពួកមីកពីងពាង	1,117.0	1.8%

<i>Penaeus sp.</i>	Prawns nei	បង្កា	869.6	1.4%
	Cephalopods (squids/cuttlefish)	ពពួកមីកស្លុកនិង មីកបំពង់	841.5	1.4%
	Shellfish nei	ខ្យង មីក ក្តាមផ្សេងៗ	830.0	1.4%
	Shrimps nei	ពពួកបង្កាគ្រប់ ប្រភេទទាំងអស់	821.0	1.4%
<i>Scomberoides commersonianus</i>	Talang queenfish	ត្រីកាឡាំង	807.0	1.3%
<i>Anodontostoma chacunda</i>	Chacunda gizzard shad	ត្រីកាម៉យ	526.0	0.9%
<i>Metapenaeus spp.</i>		បង្កាឱខាត់	445.5	0.7%
<i>Penaeus merguensis</i>	Banana shrimp	បង្កាប៉ារ៉ា	416.0	0.7%
	Other species		2,176.7	4.3%
Grand total			60,651.7	

3.6. Species group contribution by landed value.

The total reported value for November was 304,817,900 Riels, Cephalopods contribute 33.9%, Fish 32.8%, Crabs 13.5%, and Shrimps 15%. Unspecified species contribute 3.7% and Sharks and Rays combined only contribute 0.04% of the total value (more details are included in Annex 2).

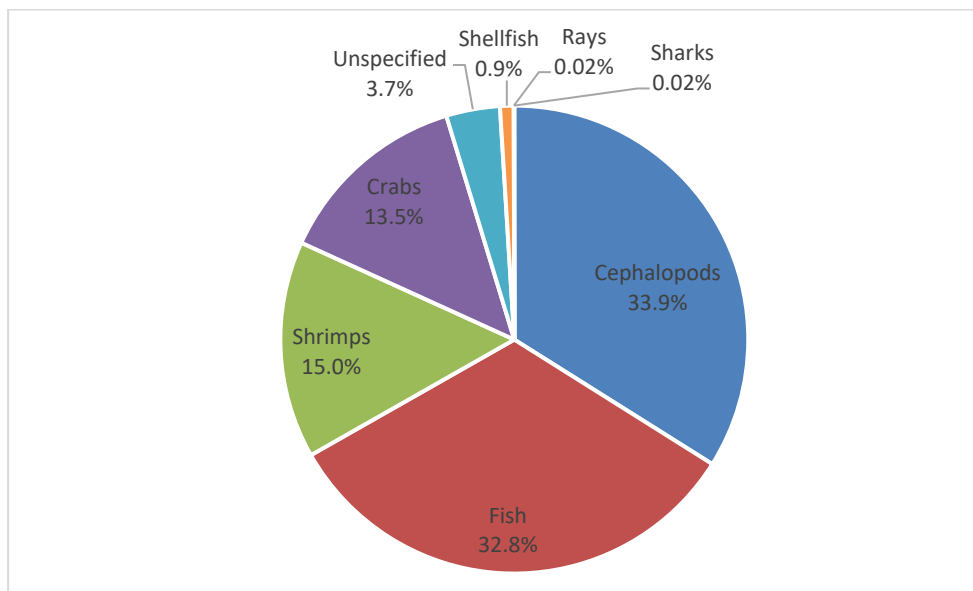


Figure 2. The value of the catch by main species groups for all landings

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

The total reported value for November was 304,818,000 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 Octopus (13.4%), followed by Swimming crab (13.1%). Squids nei (10.6%), Shortfin scad (8.5%), Other fish nei (7.1%) and Short mackerel (5.3%), Cephalopods (squids/cuttlefish) (4.7%), other fish nei (3.7%) and Prawns nei (6.2%) are also important. The low price for Shorthead anchovy (4.6%), means that despite the large reported catches, it doesn't contribute a lot of value to the catches. The highest price by far is for shrimps nei, which seems to include a number of sorted shrimp species,

for which the species isn't recorded. Other species, outside the top 20 contribute 5.6% of the total reported value.

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

Scientific name	English Name	Value (1000 Riels)	Value (%)	Price (Riel/kg)
	Octopus	54,105	17.7%	11,800
<i>Portunus pelagicus</i>	Swimming crab	39,828	13.1%	23,500
	Squids nei	32,328	10.6%	19,125
<i>Decapterus macrosoma</i>	Shortfin scad	25,780	8.5%	4,750
	Other fish nei	21,620	7.1%	2,300
<i>Rastrelliger brachysoma</i>	Short mackerel	16,143	5.3%	4,500
	Cephalopods (squids/cuttlefish)	14,354	4.7%	15,325
<i>Penaeus sp.</i>	Prawns nei	14,238	4.7%	19,350
	Other catch nei	11,314	3.7%	15,575
<i>Metapenaeus spp.</i>		8,581	2.8%	21,500
<i>Encrasicholina heteroloba</i>	Shorthead anchovy	8,424	2.8%	800
	Shrimps (unsorted)	7,941	2.6%	8,150
<i>Rastrelliger faughni</i>	Island mackerel	7,800	2.6%	5,000
<i>Penaeus merguensis</i>	Banana shrimp	7,133	2.3%	19,500
	Needlefish nei	6,504	2.1%	8,450
	Trash fish	4,408	1.4%	700
<i>Scomberoides commersonianus</i>	Talang queenfish	3,656	1.2%	6,250
	Shrimps nei	3,500	1.1%	110,600
	Mantis shrimp	2,697	0.9%	41,225
<i>Suborder Sepiina</i>	Cuttlefish	2,652	0.9%	17,050
	Octopus	54,105	17.7%	11,800
	Other species	11,814	3.9%	
Grand Total		304,818		

The low reported catch for November, low contribution by anchovies and conversely a higher proportion of more valuable species, means that the average price is about 5026 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 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 November 2023, is **6,204.3** MT. As for the reported catch, by far the largest contribution to the total estimated catch is by trawlers, for a total of 60.7%, with small-scale vessels contributing more than 14.9%. Because of insufficient observations for some vessel-gear

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

² Based on information by FiAC staff

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	45	19.8	13.6%	17.6	347.5	2658	923.8	14.9%
Trawl 6-<12 meter	65	54.9	16.6%	20.2	1,105.5	952	1,052.4	17.0%
Trawl 12-18 meter	33	370.0	15.3%	20.4	7,556.0	339.15	2,562.6	41.3%
Trawl 18-<24 meter	0	220.8	(88.7%)	16.0	3,533.3	42.5	150.2	2.4%
Other gears 12-18 m	73	39.8	12.9%	18.5	735.7	1588.7	1,168.8	18.8%
Other gears 18-<24 m	8	113.2	25.5%	18.3	2,065.3	55.25	114.1	1.8%
Large-scale 24+ meter	0	1,340.7	(63.8%)	17.5	23,462.5	9	211.2	3.4%
Total catch							6,204.3	

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 7.7% 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 **31,182,811,800 KHR** or **US\$ 7,605,564**.

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

Species Group	Total Weight (kg)	Total Weight (%)
Fish	45,496	75.0%
Cephalopods	7,527	12.4%
Shrimps	3,027	5.0%
Other	1,876	3.1%
Crabs	1,681	2.8%
Shellfish	1,026	1.7%
Rays	11	0.02%
Sharks	9	0.01%
Grand Total	60,652	

Species Group	Total value (1000 Riels)	Total Value (%)
Cephalopods	103,439,000	33.9%
Fish	100,105,800	32.8%
Shrimps	45,776,200	15.0%
Crabs	41,197,400	13.5%
Other	11,313,500	3.7%
Shellfish	2,867,000	0.9%
Rays	72,000	0.02%
Sharks	47,000	0.02%
Grand Total	304,817.9	
Average price	5026 KHR/kg	

Annex 2. Catch contribution by gear type and province.

Gear Type	Koh Kong	Preah Sihanouk	Kampot	Kep	Grand Total (kg)
Trawl	42.6%	53.0%	2.7%	1.7%	36,214.7
Mackerel Gillnet	32.7%	51.3%	16.0%	0.0%	14,145.0
Octopus trap longline	90.9%	0.0%	0.0%	9.1%	3,919.0
Unspecified gears	0.0%	0.0%	100.0%	0.0%	2,000.0
Halfbeak gillnet	0.0%	0.0%	100.0%	0.0%	1,400.0
Crab gillnet	10.4%	56.0%	0.0%	33.6%	934.2
Fish gillnet	0.7%	0.0%	95.8%	3.5%	707.0
Shrimp gillnet	0.0%	100.0%	0.0%	0.0%	531.5
Crab trap	1.1%	0.0%	84.7%	14.2%	366.8
Centipede trap	0.0%	0.0%	0.0%	100.0%	206.0
Spanish mackerel gillnet	0.0%	0.0%	0.0%	100.0%	29.0
Fish bottom longline	0.0%	0.0%	100.0%	0.0%	20.0
Trammel net for shrimp	0.0%	0.0%	100.0%	0.0%	17.0
Mullet gillnet	0.0%	0.0%	0.0%	100.0%	11.0
Multiple gears	2.3%	0.0%	97.7%	0.0%	150.5
Grand Total	39.2%	45.5%	12.6%	2.7%	60,501.2

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	Mackerel Gillnet	75.5	2	11.1	10.4%
		Fish gillnet	53.5	2	34.6	45.8%
		Trawl	45.8	21	15.0	7.1%
		Crab trap	21.1	11	8.9	12.7%
	Small Scale	Fish gillnet	40.5	11	13.1	9.8%
	Crab trap	14.7	3	4.2	16.4%	
Kep	Middle Scale	Octopus trap longline	33.7	3	6.6	11.4%
		Trawl	31.1	20	2.8	2.0%
		Crab gillnet	21.1	13	8.2	10.7%
		Centipede trap	12.0	3	2.6	12.7%
	Small Scale	Centipede trap	17.0	10	11.5	21.4%
	Crab trap	7.5	2	0.7	6.7%	
Koh Kong	Middle Scale	Mackerel Gillnet	153.0	5	57.0	16.7%
		Trawl	111.6	19	101.5	20.9%
		Octopus trap longline	53.0	11	19.7	11.2%
		Crab gillnet	6.7	6	4.0	24.4%
	Small Scale	Crab gillnet	3.2	11	2.1	19.8%
Preah Sihanouk	Middle Scale	Trawl	317.6	38	333.0	17.0%
		Mackerel Gillnet	250.0	2	0.0	0.0%
		Shrimp gillnet	44.3	12	5.6	3.6%
		Crab gillnet	26.5	4	14.1	26.6%

Annex 2. Species catch by province

Scientific name	English Name	Khmer name	Koh Kong	Preah Sihanouk	Kampot	Kep	Catch (kg)	Catch (%)
	Other fish nei	ប្រភេទត្រីចំរុះ	67.0%	31.2%	0.6%	1.2%	10,632.0	17.5%
<i>Encrasicholina heteroloba</i>	Shorthead anchovy	កាកឹម	0.0%	100.0%	0.0%	0.0%	10,530.0	17.4%
	trash fish	ត្រីជី	56.3%	41.1%	0.3%	2.3%	7,431.0	12.3%
<i>Decapterus macrosoma</i>	Shortfin scad	ត្រីកាម៉ុងឬត្រីដ្ឋាតូ	0.0%	92.8%	7.2%	0.0%	7,005.0	11.5%
<i>Rastrelliger brachysoma</i>	Short mackerel	ត្រីផ្កាតូ ឬត្រីកាម៉ុងខ្លួនខ្លី	90.3%	0.0%	9.7%	0.0%	4,227.0	7.0%
	Octopus	មីកពឹងពាង	92.6%	2.4%	4.3%	0.8%	3,411.0	5.6%
	Squids nei	មីក	75.3%	24.7%	0.0%	0.0%	2,018.0	3.3%
	Other catch nei	ផ្សេងៗ	0.0%	0.0%	100.0%	0.0%	1,876.1	3.1%
<i>Rastrelliger faughni</i>	Island mackerel	ត្រីប៉ាឡាំង	0.0%	0.0%	100.0%	0.0%	1,700.0	2.8%
<i>Portunus pelagicus</i>	Swimming crab	ក្តាមសេះ	6.8%	44.1%	20.5%	28.5%	1,508.3	2.5%
	Needlefish nei	ត្រីធ្នោង	0.0%	0.0%	99.1%	0.9%	1,463.0	2.4%
	Octopus	ពពួកមីកពឹងពាង	0.0%	68.2%	0.0%	31.8%	1,117.0	1.8%
<i>Penaeus sp.</i>	Prawns nei	បង្កា	29.9%	38.9%	0.0%	31.2%	869.6	1.4%
	Cephalopods (squids/cuttlefish)	ពពួកមីកស្នូកនិងមីកបំពង់	36.8%	62.2%	1.0%	0.0%	841.5	1.4%
	Shellfish nei	Shellfish. ខ្យង មីក ក្តាមផ្សេងៗ	100.0%	0.0%	0.0%	0.0%	830.0	1.4%
	Shrimps (unsorted)	ពពួកបង្កាគ្រប់ប្រភេទទាំងអស់	46.3%	53.7%	0.0%	0.0%	821.0	1.4%
<i>Scomberoides commersonianus</i>	Talang queenfish	ត្រីកាឡាំង	99.1%	0.0%	0.0%	0.9%	807.0	1.3%
<i>Anodontostoma chacunda</i>	Chacunda gizzard shad	ត្រីកាម៉យ	0.0%	0.0%	98.9%	1.1%	526.0	0.9%
<i>Metapenaeus spp.</i>		បង្កាខ្ចីខាក់	34.3%	64.5%	1.1%	0.0%	445.5	0.7%
<i>Penaeus merguensis</i>	Banana shrimp	បង្កាប៉ារ៉ា	99.8%	0.0%	0.0%	0.2%	416.0	0.7%
	squirrelfish	ត្រីក្រហម	0.0%	0.0%	100.0%	0.0%	350.0	0.6%
	Small mixed shrimp nei	គី	0.0%	100.0%	0.0%	0.0%	287.0	0.5%
<i>Sardinella gibbosa</i>	goldstripe sardine	ត្រីតូន	98.2%	0.0%	0.0%	1.8%	275.0	0.5%
<i>Siganus canaliculatus</i>	Whitespotted Spinefoot	ត្រីកន្តាំងក្រអូប	0.0%	0.0%	100.0%	0.0%	205.0	0.3%
	Mollusks nei	Molluscs ស្បៀសតូ ពពួកខ្យង ត្រី ដាវ	0.0%	95.9%	0.0%	4.1%	193.0	0.3%
<i>Suborder Sepiina</i>	Cuttlefish	មីកស្នូក	71.9%	0.0%	8.6%	19.4%	139.0	0.2%
	Mantis shrimp	បង្កាដកណ្តុប	15.8%	0.0%	84.2%	0.0%	117.0	0.2%

Scientific name	English Name	Khmer name	Koh Kong	Preah Sihanouk	Kampot	Kep	Catch (kg)	Catch (%)
	Crabs nei	ក្តាមផ្សេងៗ	18.7%	0.0%	0.0%	81.3%	107.0	0.2%
	Parrot fish	ត្រីសេក	56.8%	0.0%	36.4%	6.8%	88.0	0.1%
	Shrimps nei	បង្កងប៉ាក	70.9%	27.0%	0.0%	2.1%	70.5	0.1%
	Barracuda	ត្រីអង្រែ	100.0%	0.0%	0.0%	0.0%	70.0	0.1%
<i>Alepes vari</i>	Herring scad	ត្រីកាហាវ	0.0%	0.0%	0.0%	100.0%	45.0	0.1%
	Crabs (swimming/mud crab)	ពពួកក្តាម (រួមទាំងក្តាមសេះ ក្តាមថ្ម ក្តាមជ័រ ជាដើម)	100.0%	0.0%	0.0%	0.0%	32.0	0.1%
	Lizardfish	ត្រីក្តូចិន	100.0%	0.0%	0.0%	0.0%	30.0	0.0%
<i>Eleutheronema tetradactylum</i>	Fourfinger threadfin	ត្រីកាវ៉ាវ	36.8%	0.0%	63.2%	0.0%	17.4	0.0%
<i>Episesarma versicolor</i>	Violet vinegar crab	ក្តាមជ័រ	100.0%	0.0%	0.0%	0.0%	16.5	0.0%
	Flounders and soles nei	ត្រីអណ្តាតភ្លែត	0.0%	0.0%	100.0%	0.0%	15.0	0.0%
<i>Scomberomorus commerson</i>	Narrowbarred Spanish mackerel	ត្រីបេកាខ្មៅ ឬត្រីបេកាឆ្មុក	23.1%	0.0%	76.9%	0.0%	13.0	0.0%
	Congers nei	អន្ទង់សមុទ្រ	0.0%	0.0%	0.0%	100.0%	12.0	0.0%
<i>Portunus spp.</i>	Swimming crabs	ក្តាមសេះ	0.0%	72.7%	27.3%	0.0%	11.0	0.0%
<i>Rastrelliger kanagurta</i>	Indian mackerel	ត្រីកាម៉ុងខ្លួនវែង	100.0%	0.0%	0.0%	0.0%	10.0	0.0%
<i>Megalaspis cordyla</i>	Torpedo scad	ត្រីកន្ទុយវែង	0.0%	0.0%	100.0%	0.0%	10.0	0.0%
<i>Karalla daura</i>	Goldstripe ponyfish	ត្រីសំបោរហៀរអិល	100.0%	0.0%	0.0%	0.0%	10.0	0.0%
	Pony fishes	ត្រីកី	0.0%	0.0%	100.0%	0.0%	10.0	0.0%
<i>Chiloscyllium griseum</i>	Grey bambooshark	ឆ្កាមក្តីដុកឬឆ្កាមឆ្កុក	0.0%	0.0%	0.0%	100.0%	9.0	0.0%
<i>Scomberomorus sp.</i>	Spanish mackerel species nei	ត្រីបេកា	0.0%	0.0%	75.0%	25.0%	8.0	0.0%
<i>Brevitrygon imbricata</i>	Scaly whipray	បបែលមាន់	0.0%	0.0%	0.0%	100.0%	6.0	0.0%
<i>Scylla serrata</i>	Mud crab	ក្តាមថ្ម	100.0%	0.0%	0.0%	0.0%	5.8	0.0%
<i>Sillago sihama</i>	Silver sillago	ត្រីព្រលួស	0.0%	0.0%	100.0%	0.0%	5.0	0.0%
	Rays nei	បបែល	0.0%	0.0%	100.0%	0.0%	5.0	0.0%
		ដាវចំរុះ	0.0%	0.0%	100.0%	0.0%	3.0	0.0%
	Terapons	ត្រីត្រសក់	0.0%	0.0%	100.0%	0.0%	1.0	0.0%
<i>Pseudorhombus arsius</i>	Large tooth flounder	ត្រីអណ្តាតភ្លែត	100.0%	0.0%	0.0%	0.0%	0.5	0.0%
Grand Total			39.1%	45.3%	12.9%	2.7%	60,651.7	