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Catch Monitoring Survey at Marine Landing Sites, Cambodia

MaFReDI Technical Report

September 2023

Marine Fisheries Research and Development Institute (MaFReDI)

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Abbreviations

CPUE	Catch per Unit Effort
EU	European Union
ε%	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 September 2023 shows that Trawl fishing has the highest Catch per Unit of Effort at 218.8 kg/fishing day, followed by middle- Mackerel Gillnet (171.8 kg/day), Halfbeak gillnet (87.7 kg/day), Octopus trap longline (77.9 kg/day), Shrimp gillnet (55.5 kg/day), Fish gillnet (28.5 kg/day) and Crab trap (15.9 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 80.8 kg and trawlers 12-18 meters reporting 411.4 kg/day.

A total of 30 individual species are recorded with *Encrasicholina heteroloba* contributing more than 34.2% of the total recorded catch for 224 landings of **99,649** kg. In general, fish contribute 82% of the total reported catch, followed by Cephalopods 9.2%, Shrimps 5.5% and Crabs at 1.4%. In terms of value, Cephalopods contribute 34.3%, Fish 34.3%, Crabs 9.6.9% and shrimp 19.6%. The total value of the reported catch is **379,786,000** Riels.

The total estimated catch for September 2023, is calculated at 6,820 MT, with most of it from trawl fishing (63.7%) and with small-scale fishing contributing more than 17.5%. The total value of the estimated catch, using the average reported price, ==**25,991,020,000** KHR or US$ **6,339,273**==.

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 September 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 September

Data collection for September 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 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	Landings	Vessel Class		Grand Total
		Small Scale	Middle Scale	
Kampot	Kampong Kandal	3	25	28
	Trapeang Ropov	18	10	28
Kep	Ampeng	11	17	28
	Ou Krasar	5	23	28
Koh Kong	Oknha Lyon Phat	1	27	28
	Thmasar	10	18	28
Preah Sihanouk	Stueng Hav		28	28
	Tumnup Rolok		28	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 (ε%) of the average CPUE. Trawl has the highest CPUE at 218.8 kg/fishing day, followed by Mackerel Gillnet (171.8 kg/day), Halfbeak gillnet (87.7 kg/day), Octopus trap longline (77.9 kg/day), Shrimp gillnet (55.5 kg/day), and Fish gillnet (28.5 kg/day). The highest CPUE for small-scale fishing is for Mullet gillnet (41.0 kg/day) and Fish gillnet (31.3 kg/day). The CPUE for gears used both by small- and middle-scale vessels, is very similar.

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

Middle Scale	CPUE	N	SD	ε%
Trawl	218.8	99	283.3	13.0%
Mackerel Gillnet	171.8	12	87.8	14.8%
Halfbeak gillnet	87.7	3	84.9	**55.8%**
Octopus trap longline	77.9	11	76.5	**29.6%**
Shrimp gillnet	55.5	7	5.5	3.8%
Fish gillnet	28.5	2	26.2	**64.9%**
Crab trap	15.9	11	4.6	8.7%
Crab gillnet	15.6	28	7.4	8.9%
Centipede trap	13.5	2	3.5	18.5%
Small-scale	CPUE	N	SD	ε%
Mullet gillnet	41.0	2	8.5	14.6%
Fish gillnet	31.3	18	20.1	15.1%
Centipede trap	15.9	13	8.3	14.5%
Crab trap	14.7	2	0.4	2.0%
Crab gillnet	8.3	10	4.4	16.8%

The value for ε% 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 ε%, 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.

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

Trawlers	CPUE	N	SD	ε%
Small-scale 6-12m	80.8	59	120.3	19.4%
Middle-scale 12-18m	411.4	39	326.8	12.7%

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 411.4 kg/day, more than 5 times higher than for 6–12-meter trawlers at 80.8 kg/day.

3. 3. Catch proportion by main gears

Trawlers have the highest contribution to the total reported catch, with 74.4% of the catch. Fish gillnet the highest contribution to the total catch for small-scale vessels. Middle-scale fisheries, contribute more than 97% of the total recorded catch, besides trawl fisheries, other middle-scale fishing gears contribute 23.1% of the reported catches. Small-scale fishing only contributes 2.5% of the total recorded fisheries yield.

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

Middle Scale (97.5%)	Catch (%)
Trawl	74.4%
Mackerel Gillnet	14.9%
Octopus trap longline	3.4%
Unspecified gears	2.0%
Halfbeak gillnet	1.7%
Crab gillnet	0.5%
Shrimp gillnet	0.4%
Crab trap	0.2%
Other gears	0.1%

Small Scale (2.5%)	Catch (%)
Mackerel Gillnet	1.2%
Fish gillnet	0.6%
Octopus trap longline	0.3%
Centipede trap	0.2%
Others	0.2%

	Total	Kampot	Kep	Koh Kong	Preah Sihanouk
Trawl	74,113	1.4%	0.7%	21.7%	76.3%
Other middle-scale	23,057.1	24.3%	2.0%	33.3%	40.3%
Small-scale	2,478.9	75.3%	7.9%	16.9%	0.0%
Total	99,649	8.5%	1.2%	24.3%	66.1%

In addition, when considering the fisheries production by province, for September 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 only contributing 2.1%. Most of the production by other middle-scale fisheries is by Preah Sihanouk and Koh Kong, with most of the small-scale production reported in 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 99,649.5 kg, fish dominate the total reported catch with almost 82% of total weight followed by Cephalopods 9.2%, Shrimps at 5.5%, Crabs at 1.4% and unspecified species group at 0.14% (see Annex 1). Other species groups (sharks and rays), contribute only 0.05%.
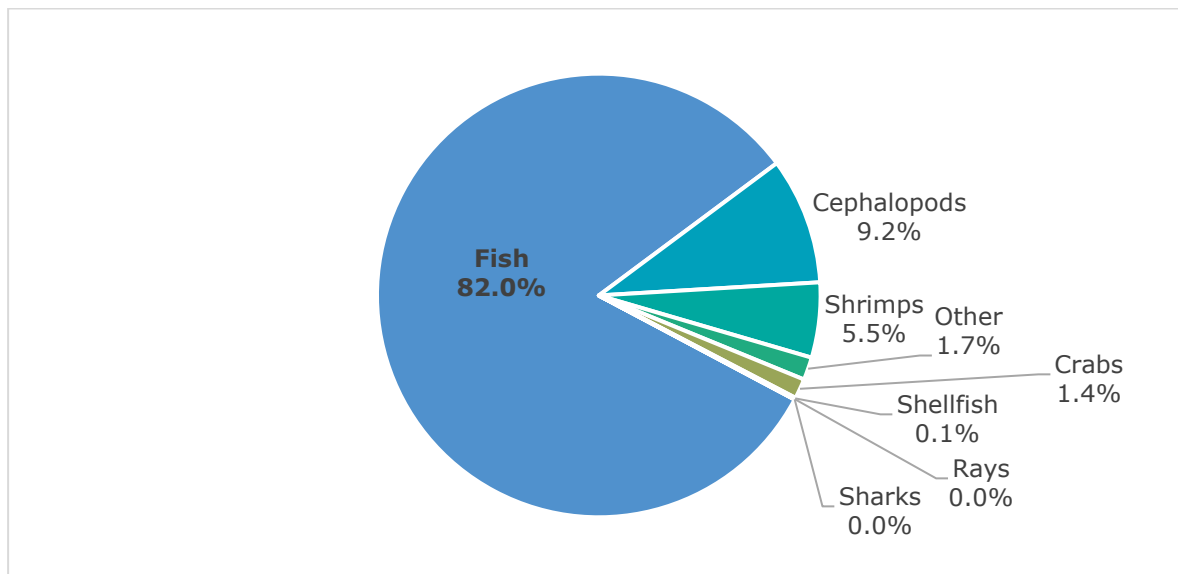
Figure 1. Catch composition by species group for all landings combined.

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

The total reported catch for September was 99,649 kg the proportion catch by species is shown in Table 5. There are 30 unique species reported in the recorded catch. The most abundant species is the Shorthead anchovy (*Encrasicholina heteroloba*), which contributes 34.2% of the total reported catch. This is followed by a number of species groups, trash fish. (17%), Other fish nei (11.5%), Short mackerel (8.3%) and Shortfin scad (4.8%) and Octopus with 4.2% and other catch nei with 1.7 %. The top 20 species contribute 98.2% of the reported catch.

Table 5. Catch composition by species for all landings.

Scientific name	English Name	Khmer name	Catch (kg)	Catch (%)
Encrasicholina heteroloba	Shorthead anchovy	កាកឺម	34,090.0	34.2%
	trash fish	ត្រីជី	16,978.0	17.0%
	Other fish nei	ប្រភេទត្រីចំរុះ	11,430.5	11.5%
Rastrelliger brachysoma	Short mackerel	ត្រីផ្លាធូ ឬត្រីកាម៉ុងខ្លួនខ្លី	8,237.5	8.3%
Decapterus macrosoma	Shortfin scad	ត្រីកាម៉ុងឬត្រីប្លាធូ	4,754.0	4.8%
	Octopus	មឹកពើងពាង	4,159.0	4.2%
	Squids nei	មឹក	2,374.5	2.4%
Penaeus sp.	Prawns nei	បង្គា	1,978.0	2.0%
	Needlefish nei	ត្រីផ្ទោង	1,670.0	1.7%
	Other catch nei	ផ្សេងៗ	1,656.5	1.7%
	Octopus	ពពួកមឹកពើងពាង	1,616.0	1.6%
scomberoides tala	Barred queenfish	ត្រីកាឡ្យាំង	1,500.0	1.5%
Portunus pelagicus	Swimming crab	ក្តាមសេះ	1,261.9	1.3%

Scientific name	English Name	Khmer name	Catch (kg)	Catch (%)
	Small mixed shrimp nei	គ្គី	1,221.0	1.2%
Metapenaeus spp.		បង្គាថ្មីខាក់	1,166.0	1.2%
Rastrelliger kanagurta	Indian mackerel	ត្រីកាម៉ុងខ្លួនវែង	855.0	0.9%
	Shrimps nei	ពពួកបង្គាគ្រប់ប្រភេទ ទាំងអស់	807.0	0.8%
Scomberoides commersonianus	Talang queenfish	ត្រីកាឡ្បាំង	800.0	0.8%
Anodontostoma chacunda	Chacunda gizzard shad	ត្រីកាម៉័យ	555.0	0.6%
Suborder Sepiina	Cuttlefish	មឹកស្ពក	538.0	0.5%
	Other species	ប្រភេទផ្សេងទៀត	1,231.1	1.2%
Grand total			**99,649.0**	

3.6. Species group contribution by landed value

The total reported value for September was 379,786,180 Riels, Fish contribute 34.3%, Shrimps 19.6% Cephalopods 34.3%, and Crabs 9.6%. Unspecified species groups contribute 1.8%, while Sharks, rays and shellfish contribute 0.11% of the total value (more details are included in Annex 2).
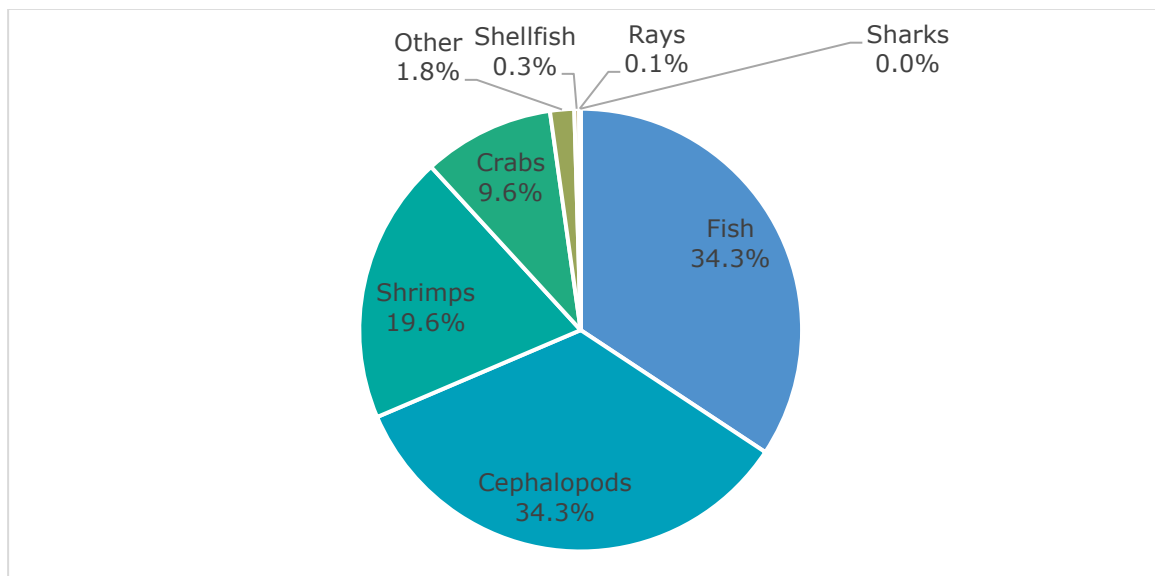
Figure 2. The value of the catch by main species groups for all landings

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

The total reported value for September was 379,786,000 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 (19.3%), followed by Squids nei (10%) and Swimming crab (9.3%). Short mackerel (7.8%), Metapenaeus (6.2%), other fish nei (6.4%) 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 3.1% 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	73,474	19.3%	12,725
	Squids nei	37,923	10.0%	18,100
Portunus pelagicus	Swimming crab	35,347	9.3%	25,350
Rastrelliger brachysoma	Short mackerel	29,512	7.8%	4,100
Metapenaeus spp.		28,528	7.5%	24,850
	Other fish nei	24,440	6.4%	2,600
Penaeus sp.	Prawns nei	23,728	6.2%	17,450
Decapterus macrosoma	Shortfin scad	19,870	5.2%	4,825
Encrasicholina heteroloba	Shorthead anchovy	17,587	4.6%	525
	Cephalopods (squids/cuttlefish)	9,862	2.6%	16,000
	Shrimps (unsorted)	9,550	2.5%	12,775
	trash fish	9,258	2.4%	700
scomberoides tala	Barred queenfish	9,000	2.4%	6,000
Suborder Sepiina	Cuttlefish	8,927	2.4%	16,375
	Needlefish nei	8,139	2.1%	6,925
	Other catch nei	6,698	1.8%	15,050
	Small mixed shrimp nei	4,884	1.3%	4,000
Rastrelliger kanagurta	Indian mackerel	4,240	1.1%	4,400
Scomberoides commersonianus	Talang queenfish	3,600	0.9%	4,500
	Shrimps nei	3,260	0.9%	80,800
	Other species	11,961	3.1%	
Grand Total		**379,786**		

Due in part to the large proportion of low value fish caught (anchovies and Trash fish), the average price of the reported landed catch in September is 3811 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 classes[1], 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 operating[2].

The total calculated catch for September 2023, is 6,820 MT. As for the reported catch, by far the largest contribution to the total estimated catch is by trawlers, for a total of 63.7%, with small-scale vessels contributing more than 15%. Because of insufficient observations for some vessel-gear categories for individual months, the monthly total estimated catch calculation in **Error! Not a**

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[1] Trawl gears are not reported by detailed trawl gear type in the 2023 data
[2] Based on information by FiAC staff

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	30.0	23.2%	13.2	395.5	2658	1,051.1	15.4%
Trawl 6-<12 meter	59	80.8	19.4%	19.0	1,535.7	952	1,462.0	21.4%
Trawl 12-18 meter	39	411.4	12.7%	19.6	8,047.8	339.15	2,729.4	40.0%
Trawl 18-<24 meter	0	220.8	(88.7%)	16.0	3,533.3	42.5	150.2	2.2%
Other gears 12-18 m	66	48.9	15.5%	14.1	690.3	1588.7	1,096.7	16.1%
Other gears 18-<24 m	11	112.3	31.0%	15.8	1,776.7	55.25	98.2	1.4%
Large-scale 24+ meter	1	1,340.7	(63.8%)	17.5	23,462.5	9	211.2	3.1%
September Total Estimated Catch								**6,820.0**

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% 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 **25,991,020,000** KHR or US$ **6,339,273**[3].

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[3] Using standard exchange rate of 4100 KHR/US$

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

Species group	Total weight (kg)	Total weight% (kg)
Fish	8,1757	82.04%
Cephalopods	9,197.5	9.23%
Shrimps	5,454.1	5.47%
Other	1,656.5	1.66%
Crabs	1,443.9	1.45%
Shellfish	89.5	0.09%
Rays	31.5	0.03%
Sharks	19	0.02%
Grand Total	**99,649**	

Species Group	Total value (1000 Riels)	Total value (%)
Fish	130,251	34.30%
Cephalopods	130,186	34.28%
Shrimps	74,514	19.62%
Crabs	36,387	9.58%
Other	6,698	1.76%
Shellfish	1,323	0.35%
Rays	318	0.08%
Sharks	117	0.03%
Grand Total	**379,786**	
Average price	**3811 KHR/kg**	

Annex 2. Catch contribution by gear type and province.

GearType	Koh Kong	Preah Sihanouk	Kampot	Kep	Grand Total (kg)
Trawl	21.7%	76.3%	1.4%	0.7%	74,113.0
Mackerel Gillnet	28.5%	51.0%	20.5%	-	16,075.0
Octopus trap longline	91.8%	8.2%	-	-	3,640.0
Others	-	-	100.0%	-	2,000.0
Halfbeak gillnet	-	21.2%	78.8%	-	1,650.0
Fish gillnet	2.4%	-	96.9%	-	621.0
Crab gillnet	11.8%	8.2%	-	80.0%	609.0
Shrimp gillnet	1.3%	98.7%	-	-	393.7
Centipede trap	39.8%	-	-	60.2%	233.5
Crab trap	3.0%	-	81.9%	15.1%	231.8
Mullet gillnet	-	-	100.0%	-	82.0
Grand Total	**24.3%**	**66.1%**	**8.5%**	**1.2%**	**99,649.0**

Annex 3. Calculated CPUE by province

Province	Vessel Class	Gear Type	Average CPUE	N	SD	ε%
Kampot	**Middle Scale**	Crab trap	17.8	9	1.4	2.6%
		Mackerel Gillnet	105.0	2	7.1	4.8%
		Trawl	48.9	21	23.7	10.6%
	Small Scale	Crab trap	14.7	2	0.4	2.0%
		Fish gillnet	34.7	16	18.8	13.5%
		Mullet gillnet	41.0	2	8.5	14.6%
Kep	**Middle Scale**	Crab gillnet	17.8	22	6.6	8.0%
		Trawl	31.1	16	4.6	3.7%
	Small Scale	Centipede trap	13.0	10	6.1	14.9%
		Crab gillnet	12.2	5	2.3	8.4%
Koh Kong	**Middle Scale**	Crab gillnet	6.7	5	3.0	20.0%
		Mackerel Gillnet	140.7	6	64.3	18.7%
		Octopus trap longline	85.9	9	83.0	**32.2%**
		Trawl	197.9	22	278.6	**30.0%**
	Small Scale	Centipede trap	25.7	3	7.6	17.0%
		Crab gillnet	4.5	5	1.2	11.8%
Preah Sihanouk	**Middle Scale**	Halfbeak gillnet	38.8	2	1.8	3.2%
		Mackerel Gillnet	251.8	4	89.0	17.7%
		Octopus trap longline	41.7	2	11.8	20.0%
		Shrimp gillnet	55.5	7	5.5	3.8%
		Trawl	394.6	40	312.5	12.5%

Annex 4 Species catch by province

Scientific name	English Name	Khmer name	Koh Kong	Preah Sihanouk	Kampot	Kep	Catch (kg)	Catch (%)
Encrasicholina heteroloba	Shorthead anchovy	កាកើម	-	100.0%	-	-	34,090.0	34.2%
	trash fish	ត្រីជី	29.9%	69.3%	-	0.8%	16,978.0	17.0%
	Other fish nei	ប្រភេទត្រីចំរុះ	62.2%	33.1%	4.0%	0.7%	11,430.5	11.5%
Rastrelliger brachysoma	Short mackerel	ត្រីផ្លាធូ ឬត្រីកាម៉ុងខ្លួនខ្លី	45.1%	54.6%	0.2%	-	8,237.5	8.3%
Decapterus macrosoma	Shortfin scad	ត្រីកាម៉ុងឬត្រីឆ្នាធូ	-	71.6%	28.4%	-	4,754.0	4.8%
	Octopus	មឹកពីងពង	76.1%	21.7%	1.5%	0.7%	4,159.0	4.2%
	Squids nei	មឹក	74.8%	22.6%	2.6%	-	2,374.5	2.4%
Penaeus sp.	Prawns nei	បង្គា	20.4%	69.5%	0.4%	9.7%	1,978.0	2.0%
	Needlefish nei	ត្រីផ្ទោង	-	21.0%	78.0%	1.0%	1,670.0	1.7%
	Other catch nei	ផ្សេងៗ	-	-	99.9%	0.1%	1,656.5	1.7%
		ពពួកមឹកពីងពង	-	100.0%	-	-	1,616.0	1.6%
scomberoides tala	Barred queenfish	ត្រីកាឡ្វាំង	-	-	100.0%	-	1,500.0	1.5%
Portunus pelagicus	Swimming crab	ក្តាមសេះ	8.8%	35.3%	20.3%	35.6%	1,261.9	1.3%
	Small mixed shrimp nei	គី	-	100.0%	-	-	1,221.0	1.2%
Metapenaeus spp.		បង្គាឆ្ងខាក់	18.8%	81.2%	-	-	1,166.0	1.2%
Rastrelliger kanagurta	Indian mackerel	ត្រីកាម៉ុងខ្លូនវែង	6.4%	-	93.6%	-	855.0	0.9%
	Shrimps (unsorted)	ពពួកបង្គាគ្រប់ប្រភេទទាំងអស់	85.1%	14.9%	-	-	807.0	0.8%
Scomberoides commersonianus	Talang queenfish	ត្រីកាឡ្វាំង	100.0%	-	-	-	800.0	0.8%
Anodontostoma chacunda	Chacunda gizzard shad	ត្រីកាម៉យ	-	-	100.0%	-	555.0	0.6%

Scientific name	English Name	Khmer name	Koh Kong	Preah Sihanouk	Kampot	Kep	Catch (kg)	Catch (%)
Suborder Sepiina	Cuttlefish	មឹកស្នួក	-	91.1%	3.0%	5.9%	538.0	0.5%
	Cephalopods (squids/cuttlefish)	ពពួកមឹកស្នួកនិងមឹកបំពង់	62.9%	37.1%	-	-	510.0	0.5%
Sardinella gibbosa	goldstripe sardine	ត្រីគួន	100.0%	-	-	-	260.0	0.3%
	Crabs nei	ក្តាមផ្សេងៗ	41.4%	-	-	58.6%	145.0	0.1%
	Lizardfish	ត្រីក្តចិន	23.1%	-	76.9%	-	130.0	0.1%
Siganus canaliculatus	Whitespotted Spinefoot	ត្រីកន្ថ្លាំងក្រអូម	-	-	100.0%	-	126.0	0.1%
Penaeus merguiensis	Banana shrimp	បង្គាប៉ាវ៉ា	100.0%	-	-	-	120.0	0.1%
	Mollusks nei	សប្បើសត្ត ពពួកខ្យង គ្រំដារវ	0.0%	22.3%	0.0%	77.7%	89.5	0.1%
	Mantis shrimp	បង្គងកណ្ណប	30.2%	-	69.8%	-	89.4	0.1%
	Parrot fish	ត្រីសេក	60.2%	-	18.1%	21.7%	83.0	0.1%
	Shrimps nei	បង្គងប៉ាក	24.8%	71.1%	-	4.1%	72.7	0.1%
	Barracuda	ត្រីអព្ជ្រែ	100.0%	-	-	-	70.0	0.1%
	Rabbitfish	ត្រីកន្ថ្លាំង	-	-	100.0%	-	50.0	0.1%
Eleutheronema tetradactylum	Fourfinger threadfin	ត្រីកាវ៉ារ	3.2%	-	96.8%	-	46.5	0.0%
Episesarma versicolor	Violet vinegar crab	ក្តាមជ័រ	100.0%	-	-	-	30.0	0.0%
Crenimugil seheli	Bluespot mullet	ត្រីក្ប្យក	-	-	100.0%	-	27.0	0.0%
Arius maculatus	Spotted catfish	ត្រីក្ុក	100.0%	-	-	-	24.0	0.0%
	Rays nei	បប៉ែល	-	71.4%	28.6%	-	21.0	0.0%
Chiloscyllium griseum	Grey bambooshark	ឆ្លាមគីង្កក់ឬឆ្លាមឆ្នូត	-	-	-	100.0%	19.0	0.0%

Scientific name	English Name	Khmer name	Koh Kong	Preah Sihanouk	Kampot	Kep	Catch (kg)	Catch (%)
	Congers nei	អន្ទង់សមុទ្រ	-	-	-	100.0%	15.0	0.0%
	Mullets	ត្រីក្បុក	-	-	100.0%	-	14.0	0.0%
Scomberomorus commerson	Narrowbarred Spanish mackerel	ត្រីបេកាខ្មៅ ឬត្រីបេកាឆ្នូត	100.0%	-	-	-	13.0	0.0%
Brevitrygon imbricata	Scaly whipray	បបែលមាន់	-	4.8%	-	95.2%	10.5	0.0%
Scylla serrata	Mud crab	ក្តាមថ្ម	100.0%	-	-	-	7.0	0.0%
Epinephelus amblycephalus	Banded grouper	ត្រីតុកកែខ្លា	-	-	-	100.0%	5.5	0.0%
Scomberomorus sp.	Spanish mackerel species nei	ត្រីបេកា	-	-	100.0%	-	5.0	0.0%
Sillago sihama	Silver sillago	ត្រីព្រលួស	-	-	100.0%	-	4.0	0.0%
	Flounders and soles nei	ត្រីអណ្ដាតឆ្កែ	100.0%	-	-	-	3.0	0.0%
Pampus argenteus	Silver pomfret	ត្រីចាបស	-	-	-	100.0%	3.0	0.0%
	Pony fishes	ត្រីកិ	-	-	100.0%	-	2.0	0.0%
	Morray eels nei	អន្ទង់សមុទ្រ	-	-	-	100.0%	2.0	0.0%
Pseudorhombus arsius	Largetooth flounder	ត្រីអណ្ដាតឆ្កែ	100.0%	-	-	-	2.0	0.0%
Acanthurus sp.	Surgeonfish	ត្រីកាតាំង	-	-	100.0%	-	2.0	0.0%
Grand Total			**24.3%**	**66.1%**	**8.5%**	**1.2%**	**99,649.0**	