



Food and Agriculture
Organization of the
United Nations



This programme is co-funded by
the European Union



Catch Monitoring Survey at Marine Landing Sites, Cambodia

MaFREDI Technical Report

© FAO/CAPPI/Isi - Capture, Marcel Kroese 2021

Decembre 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

Table of Content

List of tables.....	i
List of figures	ii
Acknowledgements.....	iii
Abbreviations	iii
Executive Summary	iv
1. Introduction	1
2. Methodology	1
3. RESULTS	1
3.1. <i>Number of vessels/landings recorded in December</i>	<i>1</i>
3.2. <i>Catch per Unit of Effort by main gears.....</i>	<i>2</i>
3.3. <i>Catch proportion by main gears.....</i>	<i>3</i>
3.4. <i>Species group catch contribution by landed weight</i>	<i>4</i>
3.5. <i>Species catch composition by reported catch weight for all landings</i>	<i>4</i>
3.6. <i>Species group contribution by landed value</i>	<i>5</i>
3.7. <i>Species catch composition by reported catch value for all landings</i>	<i>6</i>
3.8. <i>Total calculated catch</i>	<i>6</i>
Annex 1. Catch composition by species group for all landing, by weight and value.	8
Annex 2. Catch contribution by gear type and province.	9
Annex 3. Calculated CPUE by province	10
Annex 4. Total catch by Species	1

List of tables

<i>Table 1. Number of the landings recorded by province and landing site.</i>	<i>1</i>
<i>Table 2. CPUE (kg/day) for main small- and middle-scale gears.....</i>	<i>2</i>
<i>Table 3. CPUE (kg/day) for trawlers by vessel size</i>	<i>2</i>
<i>Table 4. Proportion of catch by main fishing gear for small-scale and middle-scale gears.....</i>	<i>3</i>
<i>Table 5. Catch composition by species for all landings.....</i>	<i>4</i>
<i>Table 6. Total value (1000 Riel) by species for all landing</i>	<i>6</i>

Table 7. Total estimated catch by main vessel gear categories. 7

List of figures

Figure 1. Catch composition by species group for all landings combined. 4

Figure 2. The value of the catch by main species groups for all landings 5

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 to 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 176.9 kg/fishing day, followed by middle-scale Mackerel gillnet (149.8 kg/day), Half-beak gillnet (126.2 kg/day), Octopus trap longlines (55.4 kg/day), Shrimp gillnet (35.5 kg/day), Fish gillnet (24.3 kg/day), Crab trap 20.8 kg/day) and Crab gillnet (19 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 56.1 kg and trawlers 12-18 meters reporting 391 kg/day.

A total of 48 individual species are recorded with the other fish nei contributing the largest amount of catch at 21.9% of the total recorded catch for 224 landings of **60,454.4** kg. The total value of the reported catch is **395,539,900** Riels. In general, fish contribute 58.8% of the total reported catch, followed by Cephalopods 14.7%, Shellfish 14.2%, Crab 5.3%, Shrimps 5% and other at 2%. In terms of value, Cephalopods contribute 35.6%, Fish 27%, Crabs 19.8%, Shrimp 10.7%, Shellfish 4.8%, and other 2.1%.

The total estimated catch for December 2023 is calculated at **6,170.9 MT**, with most of it from trawl fishing (58.5%) and with small-scale fishing contributing more than 16.9%. The total value of the estimated catch, using the average reported price, is **40,789,649,000 KHR** or **US\$ 9,948,695**.

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 December 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 December

Data collection for December 2023 was conducted at 8 fishing landing sites, two in each coastal province (Table 1). Overall, landings for 47 small-scale vessels and 177 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	1	27	28
	Trapeang Ropov	16	12	28
Kep	Ampeng	6	22	28
	Ou Krasar	8	20	28
Koh Kong	Oknha Lyon Phat	4	24	28
	Thmasar	11	17	28
Preah Sihanouk	Stueng Hav		28	28
	Tumnup Rolok	1	27	28
Grand Total		47	177	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 176.9 kg/fishing day, followed by middle-scale mackerel gillnet (149.8 kg/day), half-beak gillnet (126.2 kg/day), octopus trap longlines (55.4 kg/day), shrimp gillnet (37.5 kg/day), fish gillnet (24.3 kg/day), crab trap 20.8kg/day) and crab gillnet (19.0kg/day). CPUE for small-scale fishing is lower for the same gears used by middle-scale vessels, with the highest CPUE observed for mackerel gillnet at 62.5 kg/day, followed by fish gillnet 26.6 kg/day and Centipede trap (14.0 kg/day).

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

Middle Scale	Average CPUE	N	SD	$\epsilon\%$
Trawl	176.9	100	268.6	15.2%
Mackerel Gillnet	149.8	5	104.8	200.0%
Halfbeak gillnet	126.2	3	39.3	18.0%
Octopus trap longline	55.4	14	33.8	16.3%
Shrimp gillnet	37.5	13	6.1	4.5%
Fish gillnet	24.3	7	17.4	27.1%
Crab trap	20.8	10	7.8	11.9%
Crab gillnet	19.0	23	17.6	19.3%
Small Scale	Average CPUE	N	SD	$\epsilon\%$
Mackerel Gillnet	62.5	4	54.4	43.5%
Fish gillnet	26.6	15	13.0	12.6%
Centipede trap	14.0	8	10.9	27.4%
Crab trap	9.0	6	3.8	17.4%
Crab gillnet	5.5	10	3.5	20.4%

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 (with the exception of trawl, which has a high number of observations), 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	$\epsilon\%$
Small 6-<12 Trawl	56.1	63	87.2	19.6%
Middle 12-18 Trawl	391.0	36	342.0	14.6%

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 391 kg/day, more than 6 times higher than for 6–12-meter trawlers at 56.1 kg/day.

3. 3. Catch proportion by main gears

Trawlers always have the highest contribution to the total catch overall, with Mackerel gillnet the highest contribution to the total catch for small-scale vessels. Middle-scale fisheries, contribute more than 96.92% of the total recorded catch.

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

Middle Scale 96.9%	Total catch	Catch %
Trawl	41,431.4	68.54%
Mackerel Gillnet	5250	8.69%
Halfbeak gillnet	4200	6.95%
Octopus trap		
longline	3654	6.05%
Crab gillnet	1318.1	2.18%
Fish trap	1000	1.65%
Crab trap	751.1	1.24%
Shrimp gillnet	487.7	0.81%
Fish gillnet	372.7	0.62%
Squid trap	120	0.20%

Small Scale 3.1%	Total catch	Catch %
Mackerel Gillnet	810	1.34%
Fish gillnet	410	0.68%
Crab gillnet	355	0.59%
Centipede trap	112	0.2%
Other	172.9	0.3%

Gear type	Total	Kampot	Kep	Koh Kong	Preah Sihanouk
Trawl	41,431.4	2.2%	1.6%	52.7%	43.6%
Other middle-scale	17,153.6	42.5%	11.0%	30.9%	15.5%
Small-scale	1,859.9	24.6%	12.3%	46.9%	16.1%
Total	60,444.9	14.3%	4.6%	46.3%	34.8%

Trawl fisheries contributes by far, most of the reported catch, with 68.5% of the catch. With the other middle-scale fishing contributing another 28.4% of the reported catches. As a consequence, 97.2% of the reported catch is by middle-scale fisheries, with only 3.1% by small-scale fishing.

In addition, when considering the fisheries production by province, for December 2023, the vast majority of the trawl fisheries production is reported from Kph Kong and Preah Sihanouk, with Kampot and Kep only contributing 3.8%. 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 60,454.4 kg, fish dominate the total reported catch with almost 58.9% of total weight followed by Cephalopods 14.7%, shellfish 14.2%, crab 5.3% shrimp 5% (see Annex 1). Other species groups (sharks, rays and shellfish), contribute only 0.04%.

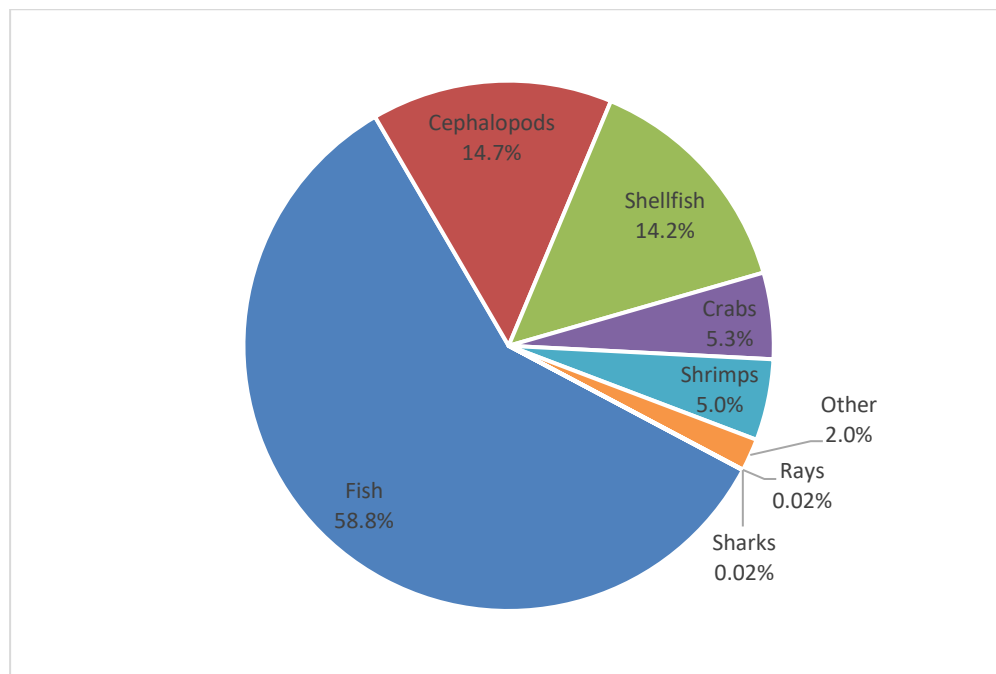


Figure 1. Catch composition by species group for all landings combined.

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

The total reported catch for December was 60,454.5 kg the proportion catch by species is shown in Table 5. The most abundant species is the other fish nei which contributes 21.89% of the total reported catch. This is followed by shellfish (14.1%), Short mackerel (6.1%) and a number of species groups, including squids, cephalopods and octopus, that are not well defined in the reported catches. Trash fish only contributes 4% of the reported catch, this represents a significant reduction from November. The top 20 species contribute 95.2% of the reported catch.

Table 5. Catch composition by species for all landings.

Species Name	Common Name	Khmer Name	Catch (kg)	Catch (%)
	Other fish nei	ប្រភេទត្រីចំរុះ	13,236	21.9%
	Shellfish nei	ខ្យង មីក ក្តាមផ្សេងៗ	8,538	14.1%
<i>Encrasicholina heteroloba</i>	Shorthead anchovy	កាកីម	8,430	13.9%
<i>Rastrelliger brachysoma</i>	Short mackerel	ត្រីឆ្មាធំ ឬត្រីកាម៉ុងខ្លួនខ្លី	3,708	6.1%
	Squids nei	មីក	3,146	5.2%
	Needlefish nei	ត្រីធ្មោង	2,705	4.5%
	Cephalopods (squids/cuttlefish)	ពពួកមីកស្នូកនិងមីកបំពង់	2,507	4.1%

Species Name	Common Name	Khmer Name	Catch (kg)	Catch (%)
	trash fish	ត្រីជី	2,441	4.0%
<i>Decapterus macrosoma</i>	Shortfin scad	ត្រីកម្ពុំឬត្រីប្លាធូ	2,051	3.4%
	Octopus nei	ពពួកមីកពីងពាង	2,030	3.4%
<i>Portunus pelagicus</i>	Swimming crab	ក្តាមសេះ	1,540	2.5%
<i>Portunus spp.</i>	Swimming crab nei	ក្តាមសេះ	1,301	2.2%
	Other catch nei	ផ្សេងៗ	1,191	2.0%
<i>Tylosurus acus melanotus</i>	Aguion needlefish	ត្រីធ្មោងព្រៃត្រូត	1,001	1.7%
	Octopus	មីកពីងពាង	915	1.5%
<i>Metapenaeus spp.</i>		បង្កាឌីខាក់	896	1.5%
	Shrimps nei	ពពួកបង្កាគ្រប់ប្រភេទ ទាំងអស់	551	0.9%
<i>Penaeus merguensis</i>	Banana shrimp	បង្កាប៉ារ៉ា	550	0.9%
<i>Penaeus sp.</i>	Prawns nei	បង្កា	518	0.9%
<i>Anodontostoma chacuda</i>	Chacunda gizzard shad	ត្រីកាម៉យ	325	0.5%
	Other species	ផ្សេងៗ	2,876.2	4.8%
Grand Total			60,454	

3.6. Species group contribution by landed value

The total reported value for December was 395,539,900 Riels, Cephalopods contribute 35.6%, Fish 27%, Crabs 19.8%, Shrimps 10.7%, shellfish 4.8%. Unspecified species groups contribute 2.1%, while Sharks and rays only contribute 0.05% of the total value (more details are included in Annex 2).

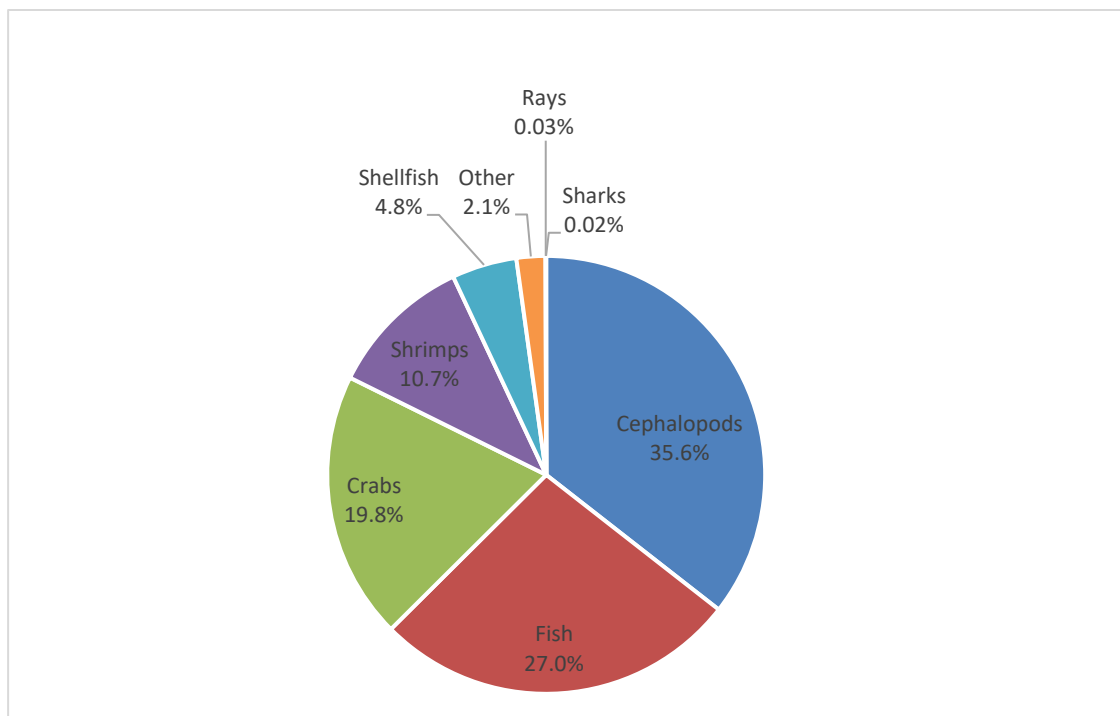


Figure 2. The value of the catch by main species groups for all landings

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

The total reported value and price for the top 20 species in December is shown in

Table 6. The species (group) with the highest reported value is Squid nei (14.6%), followed by Other fish nei (10.4%), Swimming crab 9.8%, (with other Swimming crabs, adding 9.0%), Cephalopods (squids and cuttlefish) 9.7% and Octopus (9.6%). The top 20 species contribute 95.2% of the reported value, with other other species contributing 4.8% 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)
	Squids nei	57,818	14.6%	14,525
	Other fish nei	41,182	10.4%	2,275
<i>Portunus pelagicus</i>	Swimming crab	38,935	9.8%	21,800
	Cephalopods (squids/cuttlefish)	38,302	9.7%	14,150
	Octopus	37,832	9.6%	12,325
<i>Portunus spp.</i>	Swimming crabs nei	35,615	9.0%	22,325
<i>Rastrelliger brachysoma</i>	Short mackerel	21,651	5.5%	4,650
	Shellfish nei	18,505	4.7%	2,800
<i>Metapenaeus spp.</i>		16,754	4.2%	21,375
	Needlefish nei	10,825	2.7%	4,600
<i>Penaeus sp.</i>	Prawns nei	10,007	2.5%	23,200
	Other catch nei	8,440	2.1%	13,350
<i>Decapterus macrosoma</i>	Shortfin scad	8,128	2.1%	3,250
<i>Penaeus merguensis</i>	Banana shrimp	7,525	1.9%	13,700
<i>Encrasicholina heteroloba</i>	Shorthead anchovy	6,744	1.7%	800
<i>Tylosurus acus melanotus</i>	Aguion needlefish	6,009	1.5%	9,500
	Cephalopods (squids/cuttlefish)	3,840	1.0%	32,000
	Crabs nei	2,908	0.7%	5,775
<i>Suborder Sepiina</i>	Cuttlefish	2,835	0.7%	12,000
	Shrimps (unsorted)	2,606	0.7%	4,525
	Other species	18,080	4.8%	
Grand Total		304,818		

The low reported catch for December, which is almost the same as recorded for November, low contribution by anchovies and conversely a higher proportion of more valuable species, means that the average reported fish price for December is the highest for 2023, at 6610 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 December 2023, is **6,170.9 MT**. As for the reported catch, by far the largest contribution to the total estimated catch is by trawlers, for a total of 58.6%, with small-scale vessels contributing more than 16.3%. Because of insufficient observations for some vessel-gear categories for individual months, the monthly total estimated catch calculation in Table 7, 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	47	20.9	16.1%	18.2	380.1	2658	1,010.2	16.4%
Trawl 6-<12 meter	63	56.1	19.6%	18.2	1,018.7	952	969.8	15.7%
Trawl 12-18 meter	36	391.0	14.6%	18.8	7,363.3	339.15	2,497.3	40.5%
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	38.3	13.4%	19.1	731.0	1588.7	1,161.3	18.8%
Other gears 18-<24 m	4	123.1	19.9%	22.0	2,708.6	55.25	149.7	2.4%
Large-scale 24+ meter	1	1,340.7	(63.8%)	17.5	23,462.5	9	211.2	3.4%
Total catch	223						6,170.9	

While the values for ε%, for most of the vessel-gear categories is acceptable, even when taking annual estimates, the statistical precision for trawlers larger than 18 meters and other vessels > 24 meters, is insufficient. However, since these vessel-gear classes contribute less than 5.9% 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 **40,789,649,000 KHR** or **US\$ 9,948,695**.

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

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 (%)
Fish	35,557	58.8%
Cephalopods	8,891	14.7%
Shellfish	8,614	14.2%
Crabs	3,183	5.3%
Shrimps	2,998	5.0%
Other	1,191	2.0%
Rays	11.5	0.02%
Sharks	10	0.02%
Grand Total	60,454.4	

Species Group	Total Value (1000 Riel)	Total Value (%)
Cephalopods	140,627	35.6%
Fish	106,787	27.0%
Crabs	78,192	19.8%
Shrimps	42,307	10.7%
Shellfish	18,983	4.8%
Other	8,440	2.1%
Rays	132	0.03%
Sharks	73	0.02%
Grand Total	395,540	
Average price	6610 KHR/kg	

Annex 2. Catch contribution by gear type and province.

Gear Type	Koh Kong	Preah Sihanouk	Kampot	Kep	Grand Total (kg)
Trawl	52.7%	43.6%	2.2%	1.6%	41,431.4
Mackerel Gillnet	24.1%	33.0%	42.9%	-	6,060.0
Halfbeak gillnet	-	-	100.0%	-	4,200.0
Octopus trap longline	55.7%	-	-	44.3%	3,654.0
Crab gillnet	58.1%	28.3%	-	13.5%	1,673.1
Fish trap	100.0%	-	-	-	1,000.0
Crab trap	72.0%	-	24.7%	3.2%	805.0
Fish gillnet	0.9%	-	87.9%	11.2%	782.7
Shrimp gillnet	-	100.0%	-	-	487.7
Squid trap	100.0%	-	-	-	120.0
Centipede trap	-	-	-	100.0%	112.0
Unspecified gears	-	-	-	100.0%	79.6
Trammel net for shrimp	-	-	100.0%	-	39.5
Siganus (Fish) gillnet	-	-	100.0%	-	0
Multiple gears	100.0%	-	-	-	9.5
Grand Total	46.3%	34.8%	14.3%	4.6%	60,454.5

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	VesselClass	GearType	Average CPUE	N	SD	ε%
Kampot	Middle Scale	Halfbeak gillnet	126.2	3	39.3	18.0%
		Trawl	39.0	23	7.9	4.2%
		Fish gillnet	27.8	5	19.7	31.7%
		Crab trap	21.0	7	7.1	12.8%
	Small Scale	Fish gillnet	30.5	11	12.1	12.0%
		Crab trap	10.7	4	3.5	16.3%
Kep	Middle Scale	Octopus trap longline	64.6	6	48.6	30.8%
		Trawl	30.2	22	5.0	3.5%
		Crab gillnet	19.3	11	8.5	13.3%
		Fish gillnet	15.4	2	6.6	30.3%
	Small Scale	Fish gillnet	19.0	3	9.5	29.0%
		Centipede trap	14.0	8	10.9	27.4%
		Crab trap	5.5	2	0.7	9.1%
Koh Kong	Middle Scale	Trawl	230.6	18	291.7	29.8%
		Mackerel Gillnet	96.7	3	90.7	54.2%
		Octopus trap longline	48.5	8	17.5	12.7%
		Crab trap	23.3	2	14.1	42.9%
		Crab gillnet	17.0	8	27.6	57.5%
	Small Scale	Mackerel Gillnet	62.5	4	54.4	43.5%
		Crab gillnet	4.4	9	1.2	9.0%
Preah Sihanouk	Middle Scale	Trawl	323.7	37	330.6	16.8%
		Shrimp gillnet	37.5	13	6.1	4.5%
		Crab gillnet	22.0	4	14.7	33.5%

Annex 4. Total catch by Species

Scientific name	English Name	Khmer name	Koh Kong	Preah Sihanouk	Kampot	Kep	Catch (kg)	Catch (%)
	Other fish nei	ប្រភេទត្រីផ្សេងៗ	79.1%	19.9%	0.6%	0.4%	13,235.5	21.9%
	Shellfish nei	ខ្យង មីក ក្តាមផ្សេងៗ	100.0%	0.0%	0.0%	0.0%	8,538.0	14.1%
<i>Encrasicholina heteroloba</i>	Shorthead anchovy	កាកីម	0.0%	100.0%	0.0%	0.0%	8,430.0	13.9%
<i>Rastrelliger brachysoma</i>	Short mackerel	ត្រីផ្កាធ្នូ ឬត្រីកាម៉ុងខ្លី	39.4%	0.0%	60.6%	0.0%	3,708.0	6.1%
	Squids nei	មីក	43.5%	54.9%	0.0%	1.7%	3,146.0	5.2%
	Needlefish nei	ត្រីឆ្កែង	0.0%	0.0%	99.8%	0.2%	2,705.0	4.5%
	Cephalopods (squids/cuttlefish)	ពពួកមីកស្រូវនិងមីកបំពង់	74.7%	25.3%	0.0%	0.0%	2,506.8	4.1%
	trash fish	ត្រីជី	1.2%	91.7%	0.2%	6.9%	2,441.0	4.0%
<i>Decapterus macrosoma</i>	Shortfin scad	ត្រីកាម៉ុងឬត្រីឆ្កែង	0.0%	100.0%	0.0%	0.0%	2,051.0	3.4%
	Octopus	ពពួកមីកពឹងពាង	0.0%	19.9%	0.3%	79.8%	2,030.0	3.4%
<i>Portunus pelagicus</i>	Swimming crab	ក្តាមសេះ	20.2%	44.2%	16.6%	19.1%	1,539.5	2.5%
<i>Portunus spp.</i>	Swimming crabs	ក្តាមសេះ	99.9%	0.0%	0.0%	0.1%	1,301.0	2.2%
	Other catch nei	ផ្សេងៗ	0.0%	0.0%	100.0%	0.0%	1,191.0	2.0%
<i>Tylosurus acus melanotus</i>	Aguion needlefish	ត្រីឆ្កែងត្រីត្រូត	0.0%	0.0%	99.9%	0.1%	1,000.7	1.7%
	Octopus	មីកពឹងពាង	82.0%	1.0%	15.8%	1.2%	915.0	1.5%
<i>Metapenaeus spp.</i>		បង្កាខ្លីតាក់	62.3%	36.6%	1.1%	0.0%	895.5	1.5%
	Shrimps (unsorted)	ពពួកបង្កាគ្រប់ប្រភេទទាំងអស់	0.0%	99.1%	0.0%	0.9%	551.0	0.9%
<i>Penaeus merguensis</i>	Banana shrimp	បង្កាប៉ារ៉ា	100.0%	0.0%	0.0%	0.0%	550.0	0.9%
<i>Penaeus sp.</i>	Prawns nei	បង្កា	19.9%	42.6%	1.2%	36.3%	518.2	0.9%
<i>Anodontostoma chacuda</i>	Chacunda gizzard shad	ត្រីកាម៉ុង	0.0%	100.0%	0.0%	0.0%	325.0	0.5%
	Small mixed shrimp nei	គី	0.0%	100.0%	0.0%	0.0%	314.0	0.5%
	Parrot fish	ត្រីសេក	0.0%	88.9%	11.1%	0.0%	270.0	0.4%
	squirrelfish	ត្រីក្រហម	0.0%	0.0%	100.0%	0.0%	250.0	0.4%
<i>Anodontostoma chacunda</i>	Chacunda gizzard shad	ត្រីកាម៉ុង	0.0%	0.0%	100.0%	0.0%	240.0	0.4%
	Crabs nei	ក្តាមផ្សេងៗ	55.9%	0.0%	0.0%	44.1%	214.5	0.4%
	Pony fishes	ត្រីកី	0.0%	75.0%	20.0%	5.0%	200.0	0.3%

Scientific name	English Namec	Khmer name	Koh Kong	Preah Sihanouk	Kampot	Kep	Catch (kg)	Catch (%)
<i>Suborder Sepiina</i>	Cuttlefish	មីកស្លុក	63.6%	23.1%	13.3%	0.0%	173.0	0.3%
	Snappers, jobfishes	ត្រីអាំងកឹយ	100.0%	0.0%	0.0%	0.0%	150.0	0.2%
<i>Siganus canaliculatus</i>	Whitespotted Spinefoot	ត្រីកន្តាំងក្រអូម	0.0%	0.0%	100.0%	0.0%	133.0	0.2%
	Cephalopods (squids/cuttlefish)	មីកហួយសាយ	100.0%	0.0%	0.0%	0.0%	120.0	0.2%
<i>Lutjanus gibbus</i>	humpback red snapper	ត្រីផ្កាត្រហាម	100.0%	0.0%	0.0%	0.0%	90.0	0.1%
	Mantis shrimp	បង្កងកណ្តុប	0.0%	17.8%	79.8%	2.4%	84.2	0.1%
<i>Crenimugil seheli</i>	Bluespot mullet	ត្រីក្បូក	0.0%	0.0%	100.0%	0.0%	80.0	0.1%
	Mollusks nei	សប្បីសត្វ ពពួកខ្យង ត្រី ងាវ	0.0%	14.3%	0.0%	85.7%	70.0	0.1%
<i>Penaeus monodon</i>	Giant tiger prawn	បង្កាខ្លីង	0.0%	0.0%	0.0%	100.0%	61.0	0.1%
<i>Megalaspis cordyla</i>	Torpedo scad	ត្រីកន្តុយអីង	0.0%	0.0%	96.2%	3.8%	53.0	0.1%
	Crabs (swimming/mud crab)	ពពួកក្តាម (រួមទាំងក្តាមសេះ ក្តាមថ្ម ក្តាមដំរី ជាដើម)	100.0%	0.0%	0.0%	0.0%	50.0	0.1%
<i>Scylla serrata</i>	Mud crab	ក្តាមថ្ម	14.0%	0.0%	0.0%	86.0%	46.5	0.1%
<i>Alepes vari</i>	Herring scad	ត្រីកាហាវ	0.0%	0.0%	0.0%	100.0%	30.0	0.0%
<i>Sillago aeolus</i>	Oriental sillago	ត្រីប្រលូសផ្កា	0.0%	0.0%	0.0%	100.0%	25.0	0.0%
	Shrimps nei	បង្កងប៉ាក	16.9%	78.9%	0.0%	4.2%	23.7	0.0%
<i>Albula neoguinaica</i>	Sharpjaw bonefish	ត្រីមកា	0.0%	0.0%	100.0%	0.0%	20.0	0.0%
<i>Episesarma sp.</i>	Vinegar crab	ក្តាមដំរី	0.0%	0.0%	0.0%	100.0%	18.0	0.0%
<i>Eleutheronema tetradactylum</i>	Fourfinger threadfin	ត្រីកាវ៉ាវ	41.2%	0.0%	58.8%	0.0%	17.0	0.0%
	Pomfrets	ត្រីចាប	100.0%	0.0%	0.0%	0.0%	15.0	0.0%
<i>Episesarma versicolor</i>	Violet vinegar crab	ក្តាមដំរី	100.0%	0.0%	0.0%	0.0%	12.0	0.0%
<i>Scarus ghobban</i>	Blue-barred parrotfish	ត្រីសេកស្រសការឿង	0.0%	0.0%	0.0%	100.0%	10.0	0.0%
	Lizardfish	ត្រីក្តូមីន	0.0%	100.0%	0.0%	0.0%	10.0	0.0%
	Drums and croakers nei	ត្រីចង្កូមមី	0.0%	0.0%	100.0%	0.0%	10.0	0.0%
<i>Lutjanus bohar</i>	two-spot red snapper	ត្រីអាំងកឹយអុចពីរ	0.0%	0.0%	100.0%	0.0%	8.0	0.0%
<i>Chiloscyllium griseum</i>	Grey bambooshark	ឆ្កាមគីត្តក់ឬឆ្កាមឆ្នួត	0.0%	0.0%	0.0%	100.0%	8.0	0.0%
<i>Sillago sihama</i>	Silver sillago	ត្រីប្រលូស	0.0%	0.0%	100.0%	0.0%	7.0	0.0%
<i>Diagramma pictum</i>	Painted sweetlips	ត្រីកាដី	0.0%	0.0%	100.0%	0.0%	7.0	0.0%
	Threadfins nei	ត្រីកាវ៉ាវ	0.0%	0.0%	100.0%	0.0%	7.0	0.0%
<i>Anadara granosa</i>	Blood cockle	រ៉ុត្តងឈាម	0.0%	0.0%	0.0%	100.0%	6.0	0.0%

Scientific name	English Namec	Khmer name	Koh Kong	Preah Sihanouk	Kampot	Kep	Catch (kg)	Catch (%)
<i>Maculabatis gerrardi</i>	Whitespotted whipray	បឺបលសាច់អុជ	0.0%	0.0%	100.0%	0.0%	5.0	0.0%
<i>Leiognathus smithhursti</i>	Smithhurst's ponyfish	ត្រីកិខ្លួនខ្លី	0.0%	0.0%	0.0%	100.0%	5.0	0.0%
<i>Brevitrygon imbricata</i>	Scaly whipray	បឺបលមាត់	0.0%	0.0%	0.0%	100.0%	5.0	0.0%
<i>Otolithes ruber</i>	Tigertooth Croaker	ត្រីចង្កូមបី	0.0%	0.0%	100.0%	0.0%	4.0	0.0%
<i>Nemipterus furcosus</i>	Forktailed Threadfin Bream	ត្រីក្រហមស្រកាទន់	0.0%	0.0%	0.0%	100.0%	4.0	0.0%
<i>Terapon jarbua</i>	Jarbua terapon	ត្រីត្រសក់កន្ទុយរែក	0.0%	0.0%	0.0%	100.0%	3.0	0.0%
<i>Rachycentron canadum</i>	Cobia	ត្រីផ្កក់សមុទ្រ	0.0%	0.0%	0.0%	100.0%	3.0	0.0%
<i>Saurenchelys cancrivora</i>	Slender Sorcerer	ត្រីខ្លីងសមុទ្រ	0.0%	0.0%	0.0%	100.0%	2.0	0.0%
<i>Pseudorhombus arsius</i>	Largetooth flounder	ត្រីអណ្តាតអ្នក	50.0%	0.0%	0.0%	50.0%	2.0	0.0%
<i>Chiloscyllium punctatum</i>	Brownbanded bambooshark	ឆ្កាមឆ្កា	0.0%	0.0%	100.0%	0.0%	2.0	0.0%
<i>Arius maculatus</i>	Spotted catfish	ត្រីកុក	0.0%	0.0%	100.0%	0.0%	2.0	0.0%
	Rays nei	បឺបល	0.0%	0.0%	100.0%	0.0%	1.5	0.0%
<i>Thalamita crenata</i>	Crenate swimming crab	ក្តាមថ្មឡៅ	0.0%	0.0%	0.0%	100.0%	1.0	0.0%
<i>Sphyræna obtusata</i>	Obtuse barracuda	ត្រីអង្ករ	0.0%	0.0%	0.0%	100.0%	1.0	0.0%
<i>Scomberomorus sp.</i>	Spanish mackerel species nei	ត្រីមេកា	0.0%	0.0%	100.0%	0.0%	1.0	0.0%
<i>Hemiramphus far</i>	Blackbarred halfbeak	ត្រីផ្កាងផ្កា	0.0%	0.0%	0.0%	100.0%	1.0	0.0%
	Flounders and soles nei	ត្រីអណ្តាតអ្នក	0.0%	0.0%	100.0%	0.0%	0.5	0.0%
<i>Stolephorus indicus</i>	Indian anchovy	ត្រីក្រចកក្របី	0.0%	100.0%	0.0%	0.0%	0.3	0.0%
			46.3%	34.8%	14.3%	4.6%	60454.4	