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CAPFISH-Capture

MONTHLY STATISTICAL REPORT

Monthly Statistical Report for Scientific Catch Monitoring
Survey at Marine Landing Sites in Cambodia

October 2021

By Marine Fisheries Research and Development Institute

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MaFReDI, with technical assistance from FAO CAPFISH project under EU budget support, is currently piloting scientific catch monitoring at marine landing sites in the four coastal provinces in Cambodia. The aim is to obtain better information on catch and effort by marine fisheries in Cambodia, and to develop a sustainable catch monitoring methodology for implementation by provincial fisheries administrations, supported by MaFReDI. Coverage of landing sites and fishery sectors is gradually expanded, since the start of catch monitoring in July 2021. The current statistical report, provides preliminary analysis based on sample data and focuses on the main indicators that are covered by the catch monitoring sample survey. Therefore, the results do not represent final estimates and may be changed in future updates.

A description of the methodology can be found in: Fisheries Administration (FiA). 2021. Manual for Fish Catch Monitoring Assessment for Marine Fisheries in Cambodia. Marine Fisheries Research and Development Institute of the Fisheries Administration, Phnom Penh, Cambodia. 38 pages.

Data collection for October 2021 was conducted at 5 fish landing sites in Kampot, Preah Sihanouk and Koh Kong provinces.

Table 1. Number of random selected landings recorded by vessel class and landing site.

Province	Landing Site	Small-Scale	Middle-Scale
Kampot	Kampong Kandal	18	10
Kampot	Trapang Ropov	13	15
Koh Kong	Oknha Lyon Phat ¹	2	26
Preah Sihanouk	Steung Hav		28
Preah Sihanouk	Tonum Rolok	1	27
Total		34	106

Middle-scale vessels includes vessel length 12-24 and all trawlers regardless of size, as well as all vessels operating blood cockle dragnet

Table 2. Mean reported catch in sampled landings (kg), by landing site, and vessel class, with standard deviation, 90% confidence level and standard error.

Small-scale vessels

Province	Landing site	Landings	Mean	SD	CL	ε
Kampot	Kampong Kandal	18	40.33	13.71	5.81	14.4%
Kampot	Trapang Ropov	13	48.01	29.81	15.45	32.2%
Koh Kong	Oknha Lyon Phat	2	55.00	0.00		
Preah Sihanouk	Steung Hav					
Preah Sihanouk	Tonum Rolok	1	258.00			
	Overall		50.53	42.25	12.46	24.7%

¹ This covers landing sites on both sides of the Meteuk river in Mondol Seima district and Khemarak Phoumin Municipality, with main focus on Oknha Lyon Phat landing site

Middle-scale vessels

Province	Landing site	Landings	Mean	SD	CL	ε
Kampot	Kampong Kandal	10	178.75	195.70	121.31	67.9%
Kampot	Trapang Ropov	15	30.51	35.54	16.82	55.1%
Koh Kong	Oknha Lyon Phat	26	2903.50	4396.11	1504.25	51.8%
Preah Sihanouk	Steung Hav	28	544.88	806.29	264.66	48.6%
Preah Sihanouk	Tonum Rolok	27	191.38	187.36	62.76	32.8%
Overall			926.04	2,468.65	475.43	51.3%

SD is Standard Deviation; CL is Confidence Limits; ε is Standard Error

Table 3. Mean reported catch in sampled landings (kg) by gear and vessel class, with standard deviation, confidence limits with 90% confidence level and standard error.

Small-scale vessels

Gear name	Landings	Mean	SD	CL	ε
Boat seine net ¹	20	39.84	13.50	5.4	13.5%
Crab trap	2	18.18	6.33		
Fish gillnet	12	73.75	63.63	34.8	47.2%

Middle-scale vessels²

Gear name	Landings	Mean	SD	CL	E
Anchovy seine net	5	10,880.00	2,280.52	2683.4	24.7%
Boat seine net ¹	6	47.08	26.78	25.5	54.2%
Crab gillnet	1	17.00			
Crab trap	14	120.40	216.71	107.1	89.0%
Fish gillnet	14	201.64	266.11	131.5	65.2%
Fish trap	2	1,115.00	21.21		
Octopus trap longline	1	500.00			
Others	10	1,322.80	2,693.16	1669.4	126.2%
Shrimp gillnet	4	281.25	225.33	379.9	135.1%
Squid tow longline	1	200.00			
Trawl	46	470.30	660.04	165.3	35.2%

¹ The CPUE for Boat seine nets is the mean catch, vessels operating this gear only go on single day fishing trips

² The CPUE (catch per fishing gear day) cannot be accurately calculated for middle-scale trawlers as the number of fishing days is not recorded

Table 4. Reported catch in sampled landings (kg) by gear and province.

Gear type	Kampot	Koh Kong	Sihanouk
Anchovy seine net		54,400	
Trawl		1,420	20,214
Others		13,080	148
Fish gillnet	2,294	1,156	258
Fish trap		2,230	
Crab trap	222	1,500	
Shrimp gillnet		1,115	10
Boat seine net	1,079		

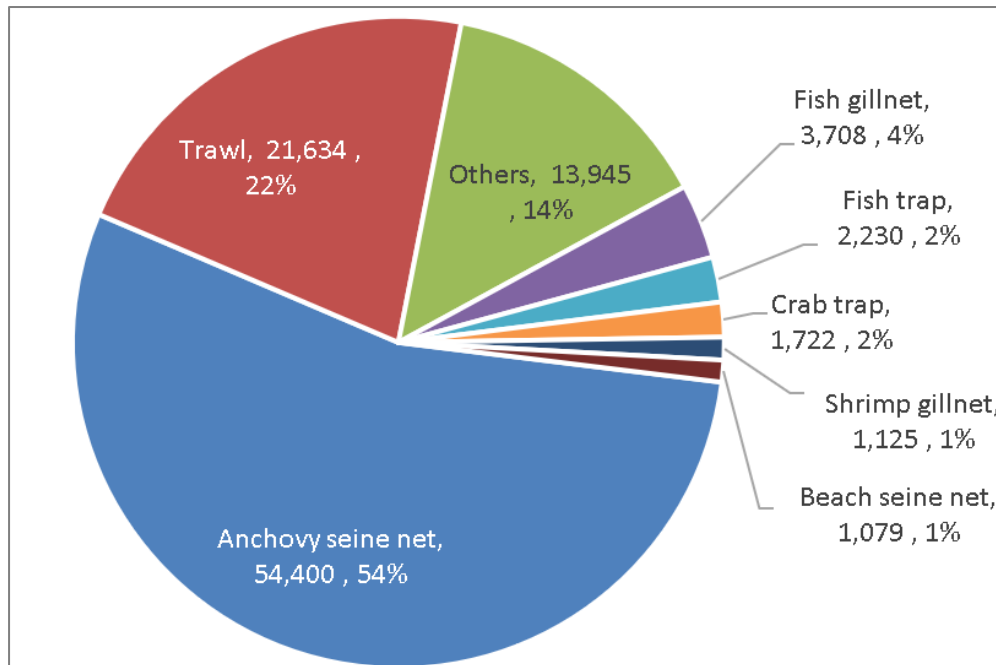
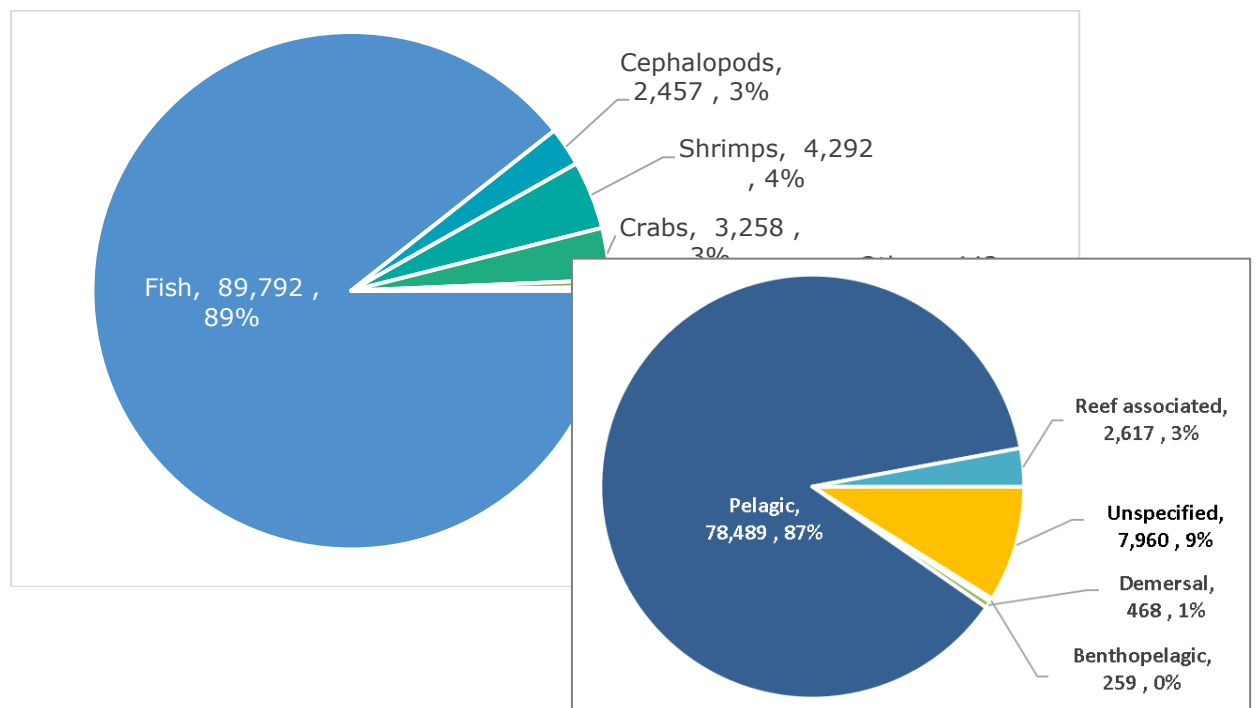


Figure 1. Contribution of main gear types to reported catch in sampled landings.



Fish by ecozone

Figure 2. Contribution of main aquatic animal groups and for fish contribution of **fish ecotypes** to reported catch in sampled landings (not based on gear used to target species).

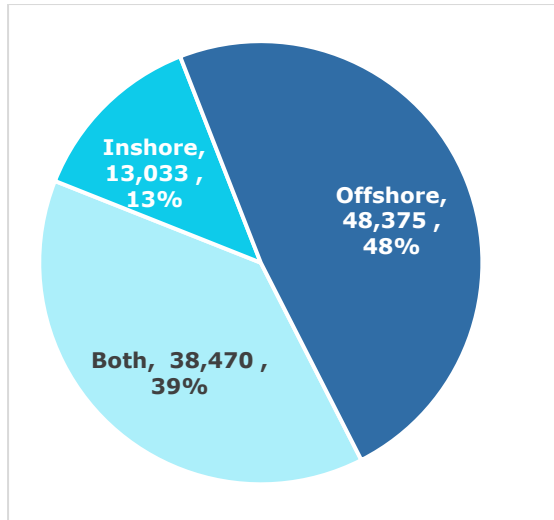


Figure 3. Contribution of main fishing zones to reported catch in sampled landings².

Table 5. Top 20 reported species and species groups **by weight** in reported catch in sampled landings, with reported weight and proportion of catch by individual species and species groups.

	Scientific name	English Common	Catch (kg)	Catch contribution	
				Proportion	Cumulative
1	<i>Encrasicholina heteroloba</i>	Shorthead anchovy	64,050	60.9%	60.9%
2		trash fish	5,671	5.4%	66.3%
3	<i>Portunus pelagicus</i>	Swimming crab	3,238	3.1%	69.4%
4	<i>Sardinella gibbosa</i>	goldstripe sardine	3,000	2.9%	72.2%
5	<i>Thryssa hamiltonii</i>	Hamilton's thryssa	3,000	2.9%	75.1%
6	<i>Selaroides leptolepis</i>	Yellow stripe trevally	2,400	2.3%	77.4%
7		Other fish nei	2,204	2.1%	79.4%
8	<i>Penaeus merguensis</i>	Banana shrimp	2,001	1.9%	81.3%
9	<i>Atule mate</i>	Yellowtail scad	1,550	1.5%	82.8%
10	<i>Stolephorus indicus</i>	Indian anchovy	1,500	1.4%	84.2%
11	<i>Metapenaeus spp.</i>		1,262	1.2%	85.4%
12	<i>Rastrelliger kanagurta</i>	Indian mackerel	1,155	1.1%	86.5%
13		Octopus	956	0.9%	87.5%
14		Squids nei	796	0.8%	88.2%
15	Suborder Sepiina	Cuttlefish	706	0.7%	88.9%
16	<i>Decapterus maruadsi</i>	Round scad	702	0.7%	89.5%
17	<i>Siganus canaliculatus</i>	Whitespotted Spinefoot	541	0.5%	90.1%
18	<i>Decapterus macrosoma</i>	Shortfin scad	525	0.5%	90.6%
19	<i>Crenimugil seheli</i>	Bluespot mullet	500	0.5%	91.0%
20		Other species	4,713	4.5%	
		Individual species	93,696	89.1%	47 species
		Species groups	11,486	10.9%	22 groups
		Total reported catch	105,182		

² Not all catch is attributed to a grid location or fishing zone, total included is less than total reported catch in landings sampled.

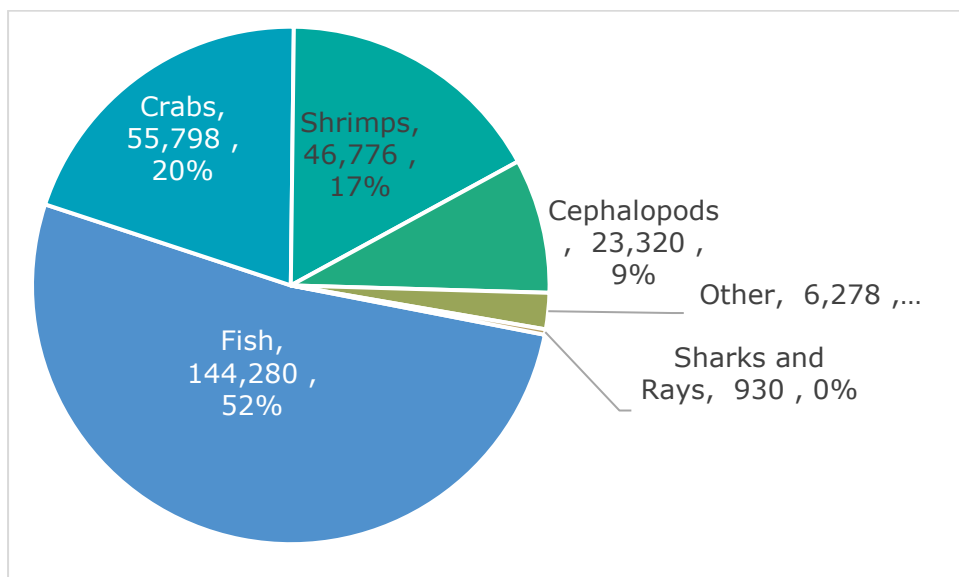


Figure 4. Total reported value (1000 Riel) in reported catch in sampled landings, by main aquatic animal group (Total value: 284,589,000 Riel).

Table 6. Top 20 reported species **by value** (1000 Riel) in reported catch in sampled landings, with reported value, proportion of catch by individual species and species groups and average price/kg.

	Scientific name	English Common	Value (1000 Riel)	Value proportion	Average Price (Riel)
1	<i>Encrasicholina heteroloba</i>	Shorthead anchovy	78,710	28.4%	967
2	<i>Portunus pelagicus</i>	Swimming crab	55,388	20.0%	20,233
3	<i>Penaeus merguensis</i>	Banana shrimp	29,015	10.5%	14,200
4		Squids nei	13,975	5.0%	27,667
5	<i>Metapenaeus spp.</i>		10,600	3.8%	21,667
6		Octopus	7,815	2.8%	12,439
7		trash fish	7,396	2.7%	1,516
8		Other fish nei	7,348	2.6%	2,609
9	<i>Atule mate</i>	Yellowtail scad	6,175	2.2%	3,750
10		Other catch nei	5,604	2.0%	26,387
11	<i>Decapterus macrosoma</i>	Shortfin scad	5,240	1.9%	9,600
12	<i>Hemiramphus far</i>	Blackbarred halfbeak	4,000	1.4%	10,000
13	<i>Thryssa hamiltonii</i>	Hamilton's thryssa	3,900	1.4%	1,300
14	<i>Sardinella gibbosa</i>	goldstripe sardine	3,900	1.4%	1,300
15	<i>Penaeus sp.</i>	Prawns nei	3,498	1.3%	23,594
16	<i>Lutjanus argentimaculatus</i>	Mangrove red snapper	3,200	1.2%	17,500
17	<i>Epinephelus coioides</i>	Orange-spotted grouper	3,150	1.1%	22,500
18	<i>Selaroides leptolepis</i>	Yellow stripe trevally	2,950	1.1%	1,200
19	<i>Rastrelliger kanagurta</i>	Indian mackerel	2,865	1.0%	3,822
20		Other species	22,654	8.2%	
	Total reported value by species		277,381		

Not all value is reported by species, some commercial (trade) groups are stated separately

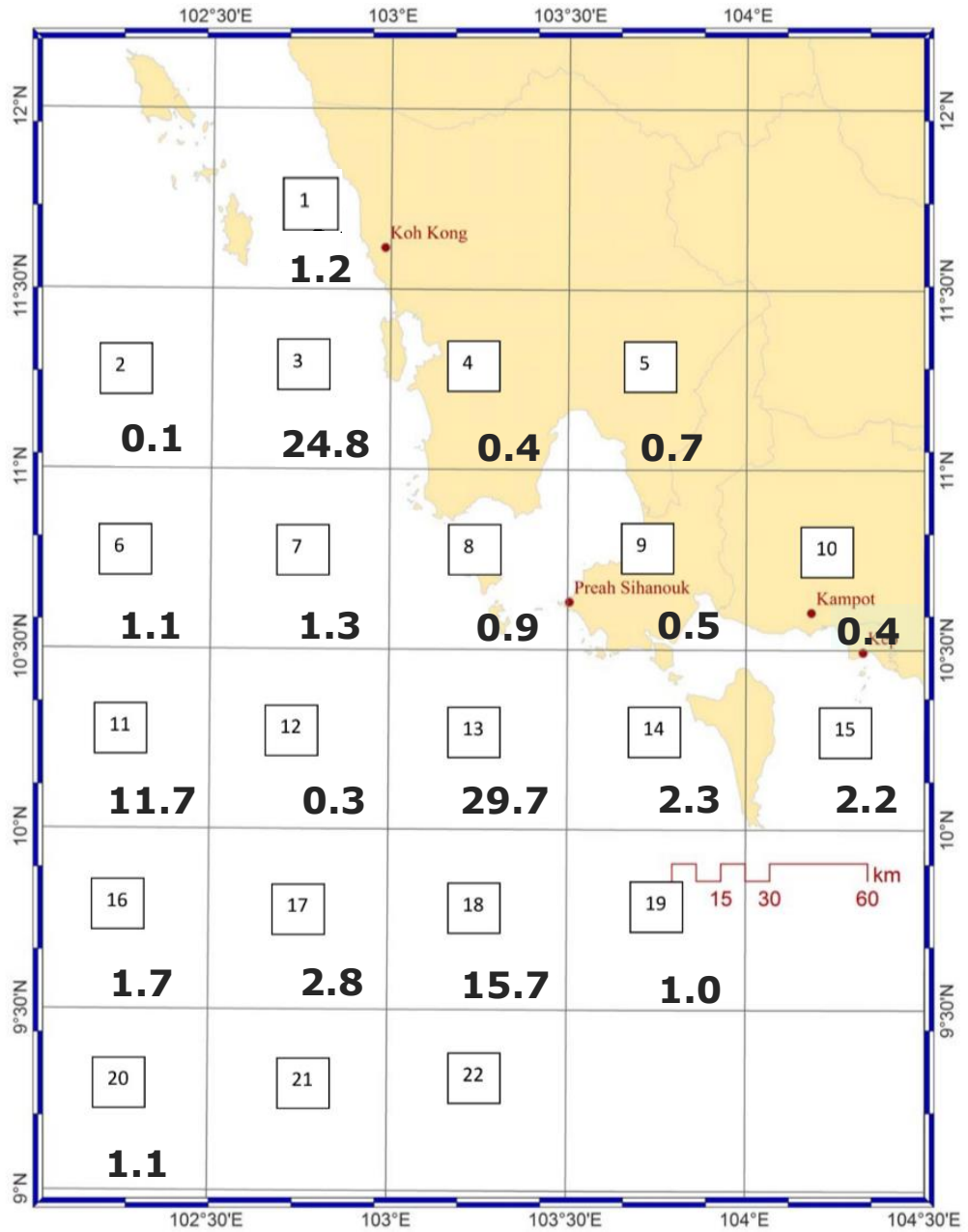


Figure 5. Contribution of fishing grid (%) to reported catch in sampled landings.