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CAPFISH-Capture

MONTHLY STATISTICAL REPORT

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

September 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 September 2021 was conducted at 3 fish landing sites in Kampot and Sihanouk 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	23	5
Preah Sihanouk	Steung Hav	1	27
Preah Sihanouk	Tonum Rolok	1	27
Total		**25**	**59**

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	23	34.20	16.90		6.21	18.2%
Preah Sihanouk	Steung Hav	1	19.00				
Preah Sihanouk	Tonum Rolok	1	93.00				
	Overall	**25**	**35.94**	**20.32**		**7.11**	**19.8%**

Middle-scale vessels

Province	Landing site	Landings	Mean	SD		CL	ε
Kampot	Kampong Kandal	5	194.40	355.35		418.13	215.1%
Preah Sihanouk	Steung Hav	27	1,512.29	2,357.33		789.69	52.2%
Preah Sihanouk	Tonum Rolok	27	702.33	816.77		273.61	39.0%
	Overall	**59**	**1,029.95**	**1737.04**		**381.36**	**43.2%**

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

Table 3. Mean reported landed catch (kg) by gear and vessel class, with standard deviation, confidence limits and standard error.

Small-scale vessels

Gear name	Landings	Mean	SD		CL	ε
Boat seine net[1]	23	34.20	16.92		6.2	18.2%
Others	1	93.00				

Middle-scale vessels[2]

Gear name	Landings	Mean	SD		CL	ε
Boat seine net[1]	4	35.50	6.03		10.2	28.6%
Crab gillnet	1	21.00				
Fish gillnet	1	830.00				
Others	9	1,115.11	1,035.62		693.7	62.2%
Trawl	38	1,298.87	2,033.19		564.3	43.4%

[1] The CPUE for Beach 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	Sihanouk
Boat seine net	928.5	
Crab gillnet		21
Fish gillnet	830	
Others		10,129
Trawl		49,357

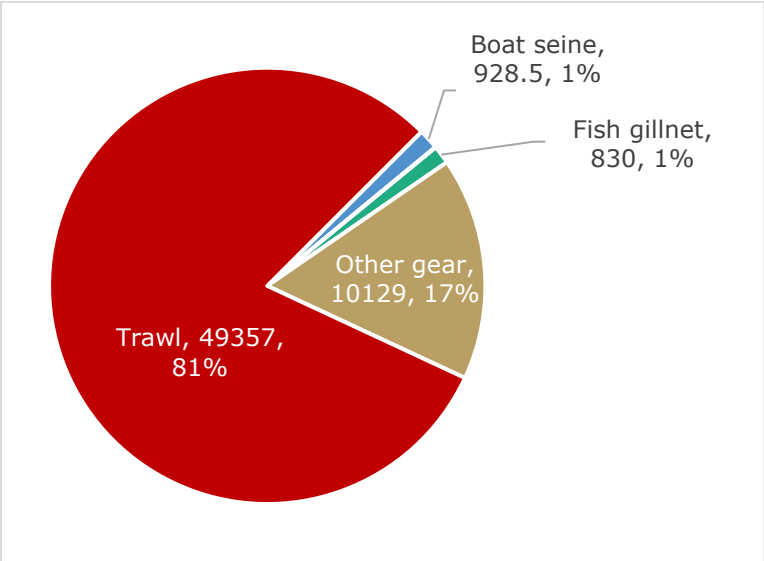

Figure 1. Contribution of main gear types to reported catch in sampled landings.

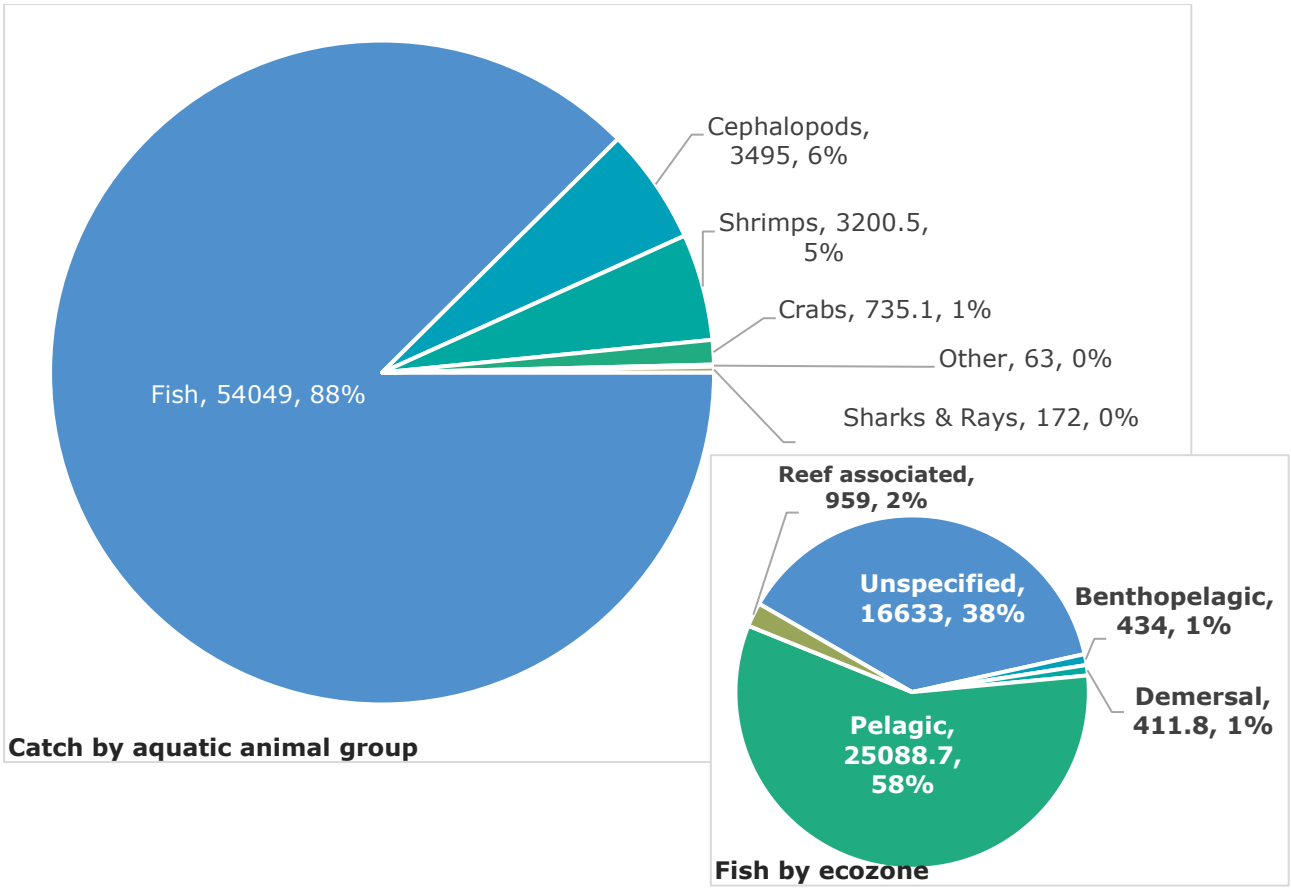

Figure 2. Contribution of main aquatic animal groups and for fish contribution of **fish ecotypes** to reported catch in sampled landings (not based on gear used to target species).

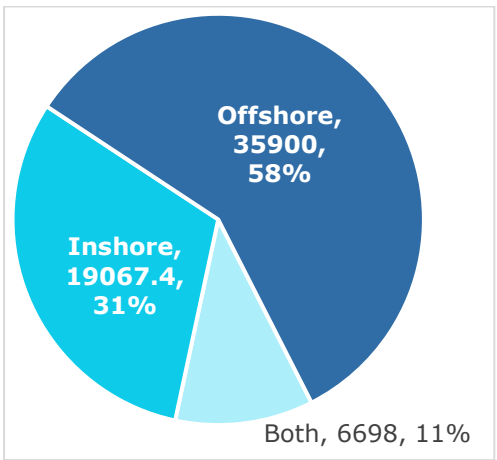

Figure 3. Contribution of main fishing zones to reported catch in sampled landings[1].

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

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	*Encrasicholina heteroloba*	Shorthead anchovy	28,788.2	46.6%	46.6%
2		trash fish	12,582	20.4%	67.0%
3	*Thunnus tonggol*	Longtail Tuna	3,010	4.9%	71.9%
4		Tuna	2,300	3.7%	75.6%
5	*Penaeus sp.*	Prawns nei	2,204.7	3.6%	79.2%
6		Squids nei	2,147	3.5%	82.7%
7	*Euthynnus affinis*	Mackerel tuna	2,005	3.2%	85.9%
8	*Sarda orientalis*	Striped bonito	810	1.3%	87.3%
9	*Portunus pelagicus*	Swimming crab	735.1	1.2%	88.4%
10	*Suborder Sepiina*	Cuttlefish	690	1.1%	89.6%
11		Octopus	658	1.1%	90.6%
12	*Scomberomorus commerson*	Narrowbarred Spanish mackerel	625	1.0%	91.6%
13	*Amblygaster leiogaster*	Smoothbelly sardine	600	1.0%	92.6%
14	*Rastrelliger brachysoma*	Short mackerel	591	1.0%	93.6%
15		Other fish nei	574	0.9%	94.5%
16	*Anodontostoma chacunda*	Chacunda gizzard shad	424	0.7%	95.2%
17	*Metapenaeus spp.*		407	0.7%	95.8%
18		Small mixed shrimp nei	286	0.5%	96.3%
19		Lizardfish	265	0.4%	96.7%
20		**Other species**	**2,012.6**	**3.3%**	
		Individual species	40,144	65.0%	52 species
		Species groups	21570.2	35.0%	16 groups
		Total reported catch	**61,714.2**		

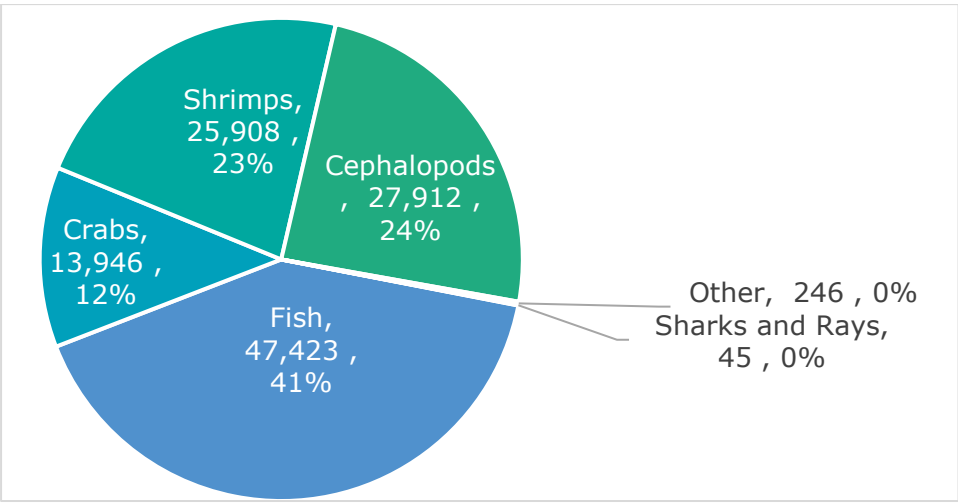

Figure 4. Total reported value (1000 Riel) in reported catch in sampled landings, by main aquatic animal group (Total value: 115,480,600 Riel).

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	*Encrasicholina heteroloba*	Shorthead anchovy	24,290	21.0%	1,110
2		Squids nei	23,160	20.1%	19,361
3	*Penaeus sp.*	Prawns nei	18,889	16.4%	13,520
4	*Portunus pelagicus*	Swimming crab	13,946	12.1%	22,564
5		trash fish	13,286	11.5%	1,088
6		Mantis shrimp	3,264	2.8%	118,333
7	*Penaeus monodon*	Giant tiger prawn	3,097	2.7%	24,069
8	*Rastrelliger brachysoma*	Short mackerel	2,996	2.6%	7,000
9	*Suborder Sepiina*	Cuttlefish	2,510	2.2%	12,120
10		Octopus	2,242	1.9%	12,173
11	*Anodontostoma chacunda*	Chacunda gizzard shad	1,854	1.6%	4,050
12		Other fish nei	1,421	1.2%	4,717
13	*Tylosurus acus melanotus*	Aguion needlefish	1,332	1.2%	74,000
14	*Metapenaeus spp.*		658	0.6%	23,718
15	*Siganus canaliculatus*	Whitespotted Spinefoot	364	0.3%	3,167
16	*Pampus argenteus*	Silver pomfret	267	0.2%	15,750
17	*Anampses geographicus*	Geographic wrasse	250	0.2%	5,000
18		Other catch nei	246	0.2%	5,333
19	*Thryssa hamiltonii*	Hamilton's thryssa	236	0.2%	4,000
20		**Other species**	1,172	1.0%	
	Total reported value by species		115,480		

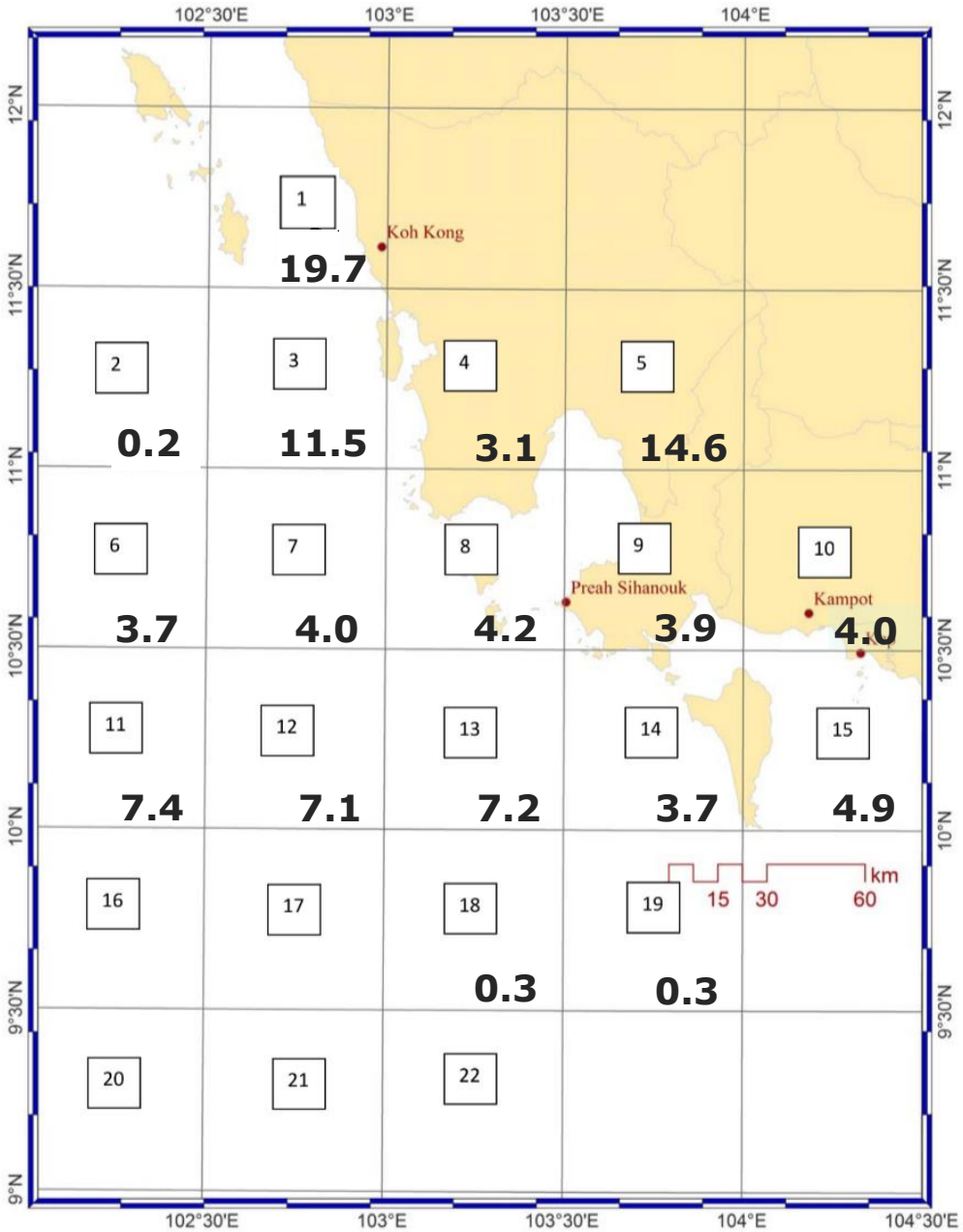

Figure 5. Contribution of fishing grid (%) to reported catch in sampled landings.