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CAPFISH-Capture

MONTHLY STATISTICAL REPORT

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

August 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 August 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	17	11
Preah Sihanouk	Steung Hav		28
Preah Sihanouk	Tonum Rolok	4	24
Total		**21**	**63**

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	17	36.35	21.1		9.25	25.4%
Preah Sihanouk	Steung Hav						
Preah Sihanouk	Tonum Rolok	4	377.75	176.0		296.78	78.6%
	Overall		**101.38**	**154.5**		**59.74**	**58.9%**

Middle-scale vessels

Province	Landing site	Landings	Mean	SD		CL	ε
Kampot	Kampong Kandal	11	270.48	404.9		234.71	86.8%
Preah Sihanouk	Steung Hav	28	949.70	1,512.2		496.38	52.3%
Preah Sihanouk	Tonum Rolok	24	831.54	2,470.8		884.67	106.4%
	Overall		**786.09**	**1,829.5**		**388.07**	**49.4%**

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]	13	43.5	18.90		9.8	22.6%
Centipede fish trap	3	14.2	4.64		20.7	145.7%
Fish gillnet	2	99.3	125.51			
Others	1	550.0				
Squid net	2	386.5	164.76			

Middle-scale vessels[2]

Gear name	Landings	Mean	SD		CL	ε
Boat seine net[1]	7	44.2	21.11		17.4	39.3%
Crab gillnet	1	11.5				
Fish gillnet	1	1,800.0				
Mosquito net	4	666.5	465.92		785.5	117.9%
Others	2	309.0	196.58			
Shrimp gillnet	2	17.0	1.41			
Trawl	40	1,069.7	2,232.17		602.6	56.3%

[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	874.3	
Centipede fish trap	42.7	
Crab gillnet		11.5
Fish gillnet	10.5	1,988
Mosquito net	2,665.8	
Others		1,168
Shrimp gillnet		34
Squid net		773
Trawl		42,787

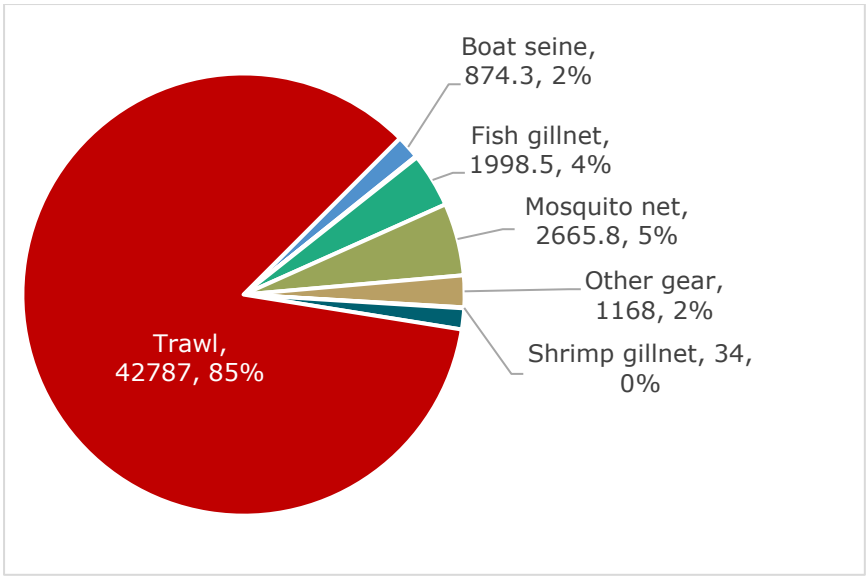

Figure 1. Contribution of main gear types to reported catch in sampled landings.

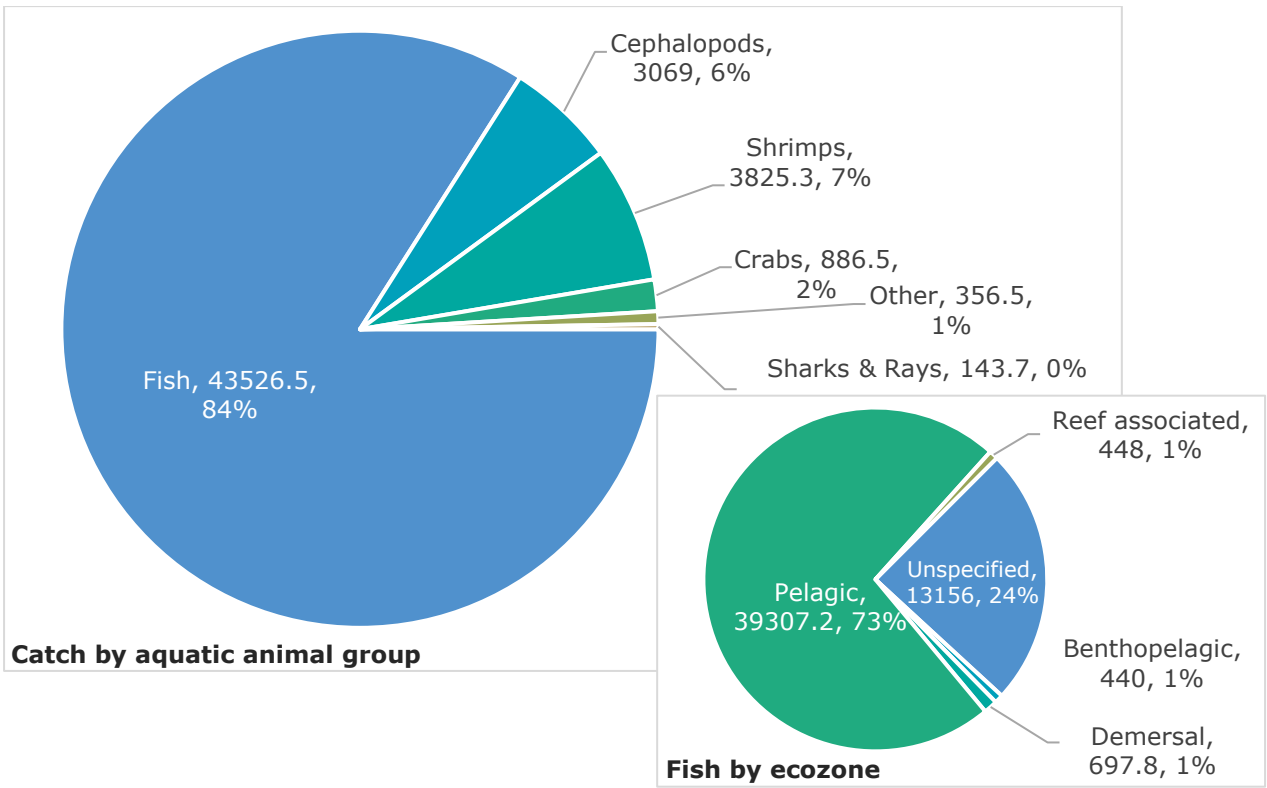

Figure 2. Contribution of main aquatic animal groups and for fish contribution of **fish ecotypes** to reported catch in sampled landings (not based on gear used to target species).

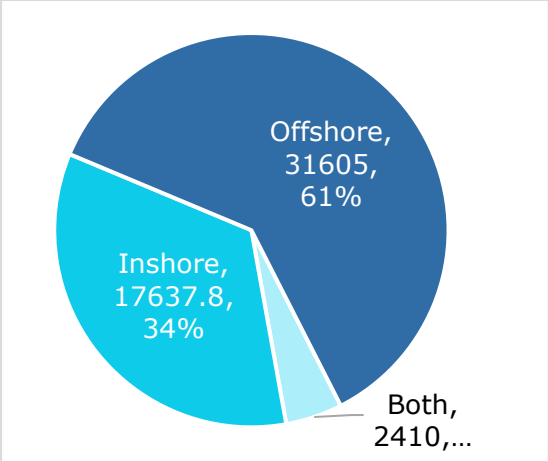

Figure 3. Contribution of main fishing zones to reported catch in sampled landings[1].

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	20,059.7	38.7%	38.7%
2		trash fish	12,587	24.3%	63.0%
3		Other fish nei	4,046	7.8%	70.8%
4	*Penaeus sp.*	Prawns nei	2,098	4.0%	74.9%
5		Squids nei	1,633.5	3.2%	78.0%
6		Tuna	1,400	2.7%	80.7%
7	*Scomberomorus commerson*	Narrowbarred Spanish mackerel	1,084	2.1%	82.8%
8	*Rastrelliger kanagurta*	Indian mackerel	1,051	2.0%	84.9%
9	*Penaeus merguiensis*	Banana shrimp	966	1.9%	86.7%
10	*Portunus pelagicus*	Swimming crab	864.5	1.7%	88.4%
11	*Suborder Sepiina*	Cuttlefish	742	1.4%	89.8%
12		Octopus	693.5	1.3%	91.2%
13	*Rastrelliger brachysoma*	Short mackerel	604	1.2%	92.3%
14	*Penaeus monodon*	Giant tiger prawn	548.8	1.1%	93.4%
15	*Selaroides leptolepis*	Yellow stripe trevally	507	1.0%	94.4%
16	*Scarus ghobban*	Blue-barred parrotfish	464	0.9%	95.3%
17		Other catch nei	350.5	0.7%	95.9%
18		Lizardfish	273	0.5%	96.5%
19	*Sarda orientalis*	Striped bonito	235.5	0.5%	96.9%
20		**Other species**	**1,599.5**	**3.1%**	
		Individual species	30,647	59.2%	49 species
		Species groups	21,160.5	40.8%	11 groups
		Total reported catch	**51,807.5**		

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

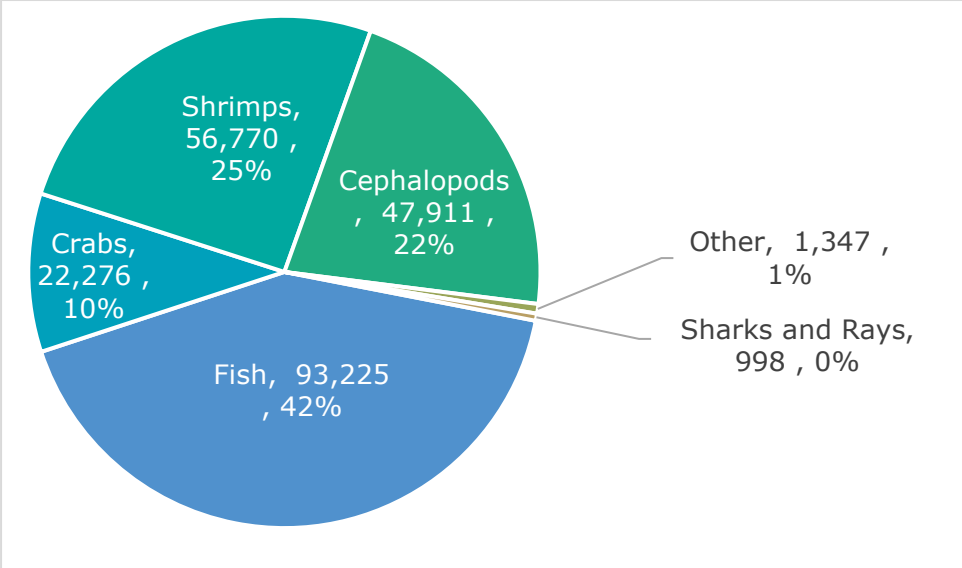

Figure 4. Total reported value (1000 Riel) in reported catch in sampled landings, by main aquatic animal group (Total value: 222,526,570 Riel).

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		Squids nei	32,404	14.6%	18,505
2	*Penaeus merguiensis*	Banana shrimp	22,347	10.0%	21,706
3	*Portunus pelagicus*	Swimming crab	21,753	9.8%	22,714
4	*Encrasicholina heteroloba*	Shorthead anchovy	19,022	8.5%	903
5	*Scomberomorus commerson*	Narrowbarred Spanish mackerel	16,946	7.6%	11,444
6		Other fish nei	15,979	7.2%	3,657
7	*Penaeus monodon*	Giant tiger prawn	15,255	6.9%	29,500
8	*Penaeus sp.*	Prawns nei	12,291	5.5%	10,835
9		trash fish	11,813	5.3%	663
10	*Rastrelliger kanagurta*	Indian mackerel	8,470	3.8%	9,600
11		Octopus	8,033	3.6%	11,708
12	*Suborder Sepiina*	Cuttlefish	7,474	3.4%	11,477
13		Mantis shrimp	4,227	1.9%	88,700
14	*Rastrelliger brachysoma*	Short mackerel	3,741	1.7%	8,900
15	*Sarda orientalis*	Striped bonito	3,338	1.5%	11,500
16		Tuna	3,200	1.4%	2,500
17	*Metapenaeus spp.*		2,300	1.0%	32,143
18		Lizardfish	1,769	0.8%	6,100
19	*Nemipterus furcosus*	Forktailed Threadfin Bream	1,400	0.6%	6,314
20		**Other species**	10,767	4.8%	
	Total reported value by species		222,529		

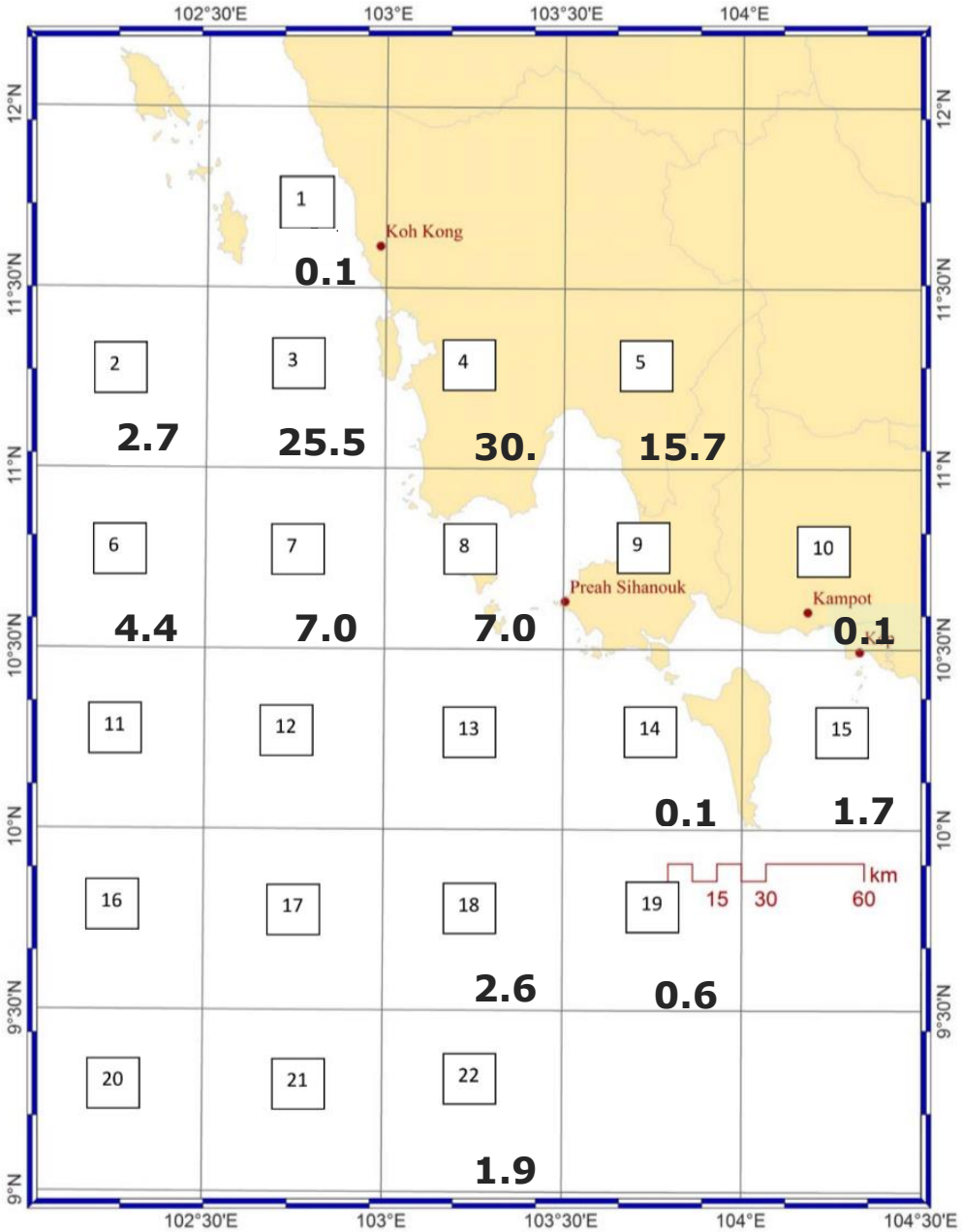

Figure 5. Contribution of fishing grid (%) to reported catch in sampled landings.