CAPFISH-Capture
MONTHLY STATISTICAL REPORT

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

July 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 July 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	26	8
Preah Sihanouk	Steung Hav		28
Preah Sihanouk	Tonum Rolok		28
Total		**26**	**64**

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	26	51.81	26.63		9.11	17.6%
Preah Sihanouk	Steung Hav						
Preah Sihanouk	Tonum Rolok						
	Overall	26	51.81	26.63		9.11	17.6%

Middle-scale vessels

Province	Landing site	Landings	Mean	SD		CL	ε
Kampot	Kampong Kandal	8	399.13	653.64		480.07	120.3%
Preah Sihanouk	Steung Hav	28	819.04	835.62		274.29	33.5%
Preah Sihanouk	Tonum Rolok	28	595.36	1,284.60		421.67	70.8%
	Overall	64	668.69	1,037.12		218.18	32.6%

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]	26	51.8	26.63		9.1	17.6%

Middle-scale vessels

Gear name	Landings	Mean	SD		CL	ε
Boat seine net[1]	6	48.83	12.49		11.9	24.4%
Fish gillnet	2	1,450.00	212.13			
Shrimp gillnet	1	709.00				
Trawl[2]	54	707.33	1,099.82		253.0	35.8%

[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	1640	
Fish gillnet	2900	
Shrimp gillnet		709
Trawl		38196

Boat seine, 1640, 4%

Fish gillnet, 2900, 7%

Shrimp gillnet, 709, 1%

Trawl, 38196, 88%
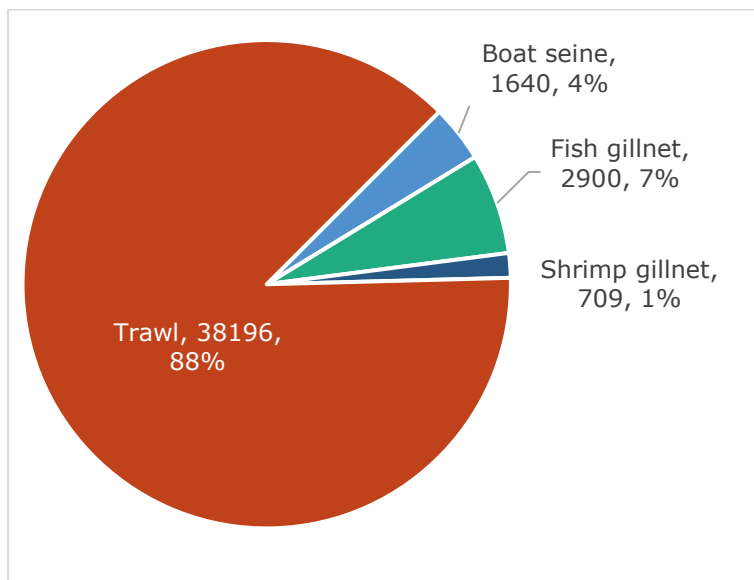
Figure 1. Contribution of main gear types to reported catch in sampled landings.

Catch by aquatic animal group

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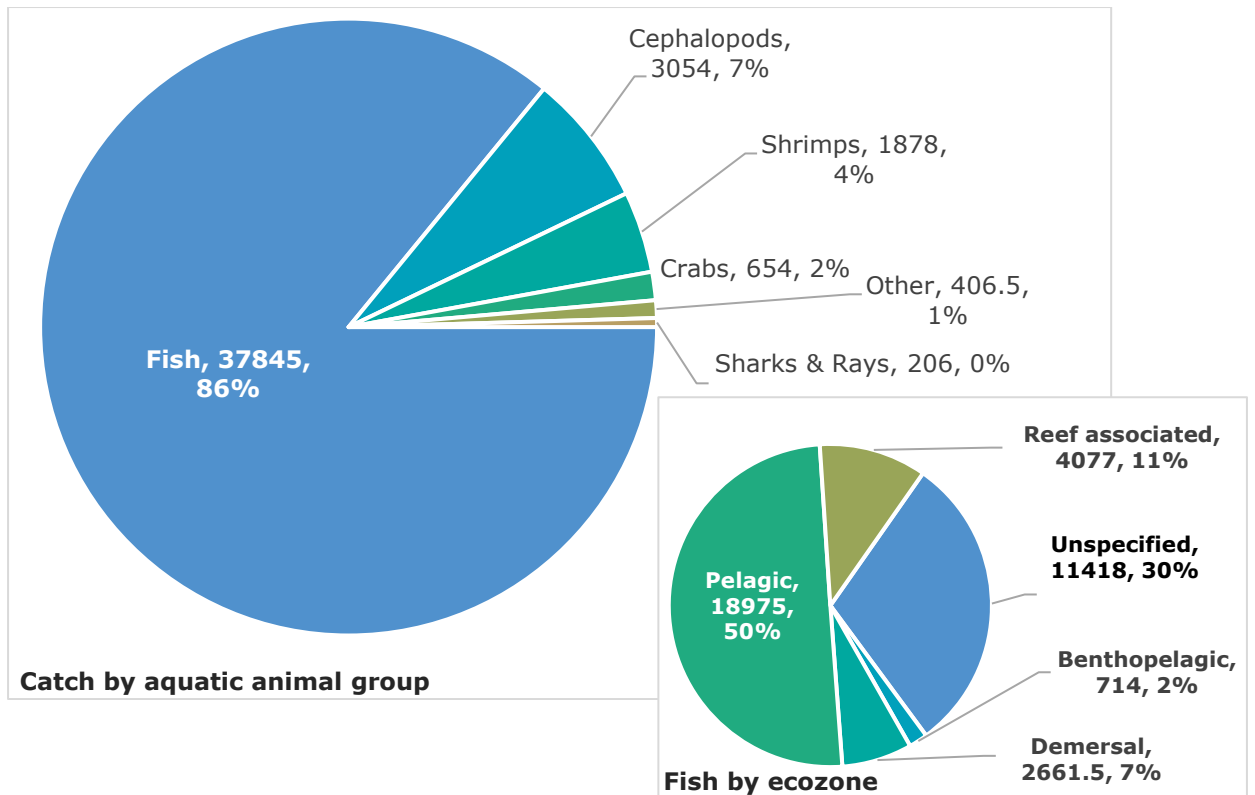
Figure 2. Contribution of main aquatic animal groups and for fish contribution of **fish ecotypes** to reported catch in sampled landings (not based on gear used to target species).
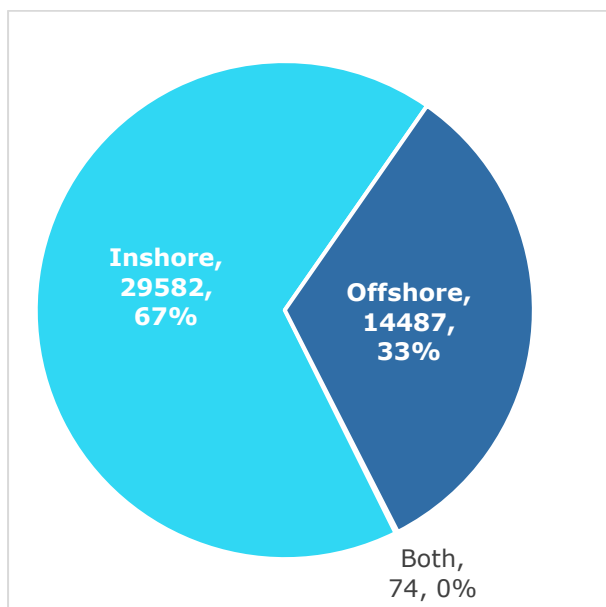

Figure 3. Contribution of main fishing zones to reported catch in sampled landings[1].

[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	18,088	41.1%	41.1%
2		trash fish	8,124	18.4%	59.5%
3		Other fish nei	3,294	7.5%	67.0%
4	*Hemiramphus far*	Blackbarred halfbeak	2,900	6.6%	73.6%
5		Squids nei	1,830	4.2%	77.7%
6	*Gazza minuta*	Toothpony	1,180	2.7%	80.4%
7	*Terapon jarbua*	Jarbua terapon	1,141	2.6%	83.0%
8	*Suborder Sepiina*	Cuttlefish	668	1.5%	84.5%
9	*Metapenaeus spp.*		651	1.5%	86.0%
10		Octopus	556	1.3%	87.3%
11	*Portunus pelagicus*	Swimming crab	536	1.2%	88.5%
12	*Penaeus merguiensis*	Banana shrimp	476	1.1%	89.6%
13	*Penaeus sp.*	Prawns nei	453	1.0%	90.6%
14	*Trichiurus lepturus*	Largehead hairtail	400	0.9%	91.5%
15		Other catch nei	382	0.9%	92.4%
16	*Thryssa hamiltonii*	Hamilton's thryssa	320	0.7%	93.1%
17		Lizardfish	261	0.6%	93.7%
18	*Lethrinus harak*	Thumbprint emperor	225	0.5%	94.2%
19	*Acanthurus lineatus*	Lined surgeonfish	217	0.5%	94.7%
20		Other species	2,343	5.3%	
		Individual species	29,253	66.4%	54 species
		Species groups	14,791	33.6%	12 groups
		Total reported catch	**44,044**		
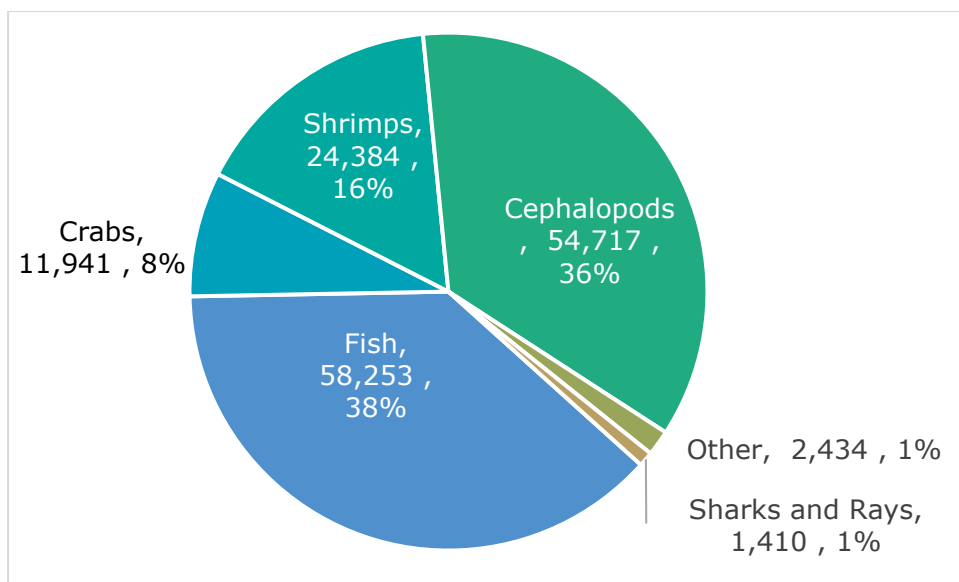
Figure 4. Total reported value (1000 Riel) in reported catch in sampled landings, by main aquatic animal group (Total value: 153,137,450 Riel).

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	41,598	27.2%	19,445
2	*Encrasicholina heteroloba*	Shorthead anchovy	15,273	10.0%	858
3	*Hemiramphus far*	Blackbarred halfbeak	13,050	8.5%	4,500
4	*Metapenaeus spp.*		11,415	7.5%	19,077
5	*Portunus pelagicus*	Swimming crab	11,180	7.3%	18,821
6		Other fish nei	10,368	6.8%	3,547
7		trash fish	7,568	4.9%	693
8	*Suborder Sepiina*	Cuttlefish	6,753	4.4%	10,338
9	*Penaeus merguiensis*	Banana shrimp	6,664	4.4%	19,423
10		Octopus	6,366	4.2%	11,490
11	*Penaeus monodon*	Giant tiger prawn	3,979	2.6%	29,310
12		Other catch nei	1,884	1.2%	5,655
13	*Penaeus sp.*	Prawns nei	1,651	1.1%	4,133
14	*Lethrinus harak*	Thumbprint emperor	1,494	1.0%	4,125
15	*Terapon jarbua*	Jarbua terapon	1,199	0.8%	1,750
16	*Gazza minuta*	Toothpony	1,102	0.7%	725
17	*Nemipterus furcosus*	Forktailed Threadfin Bream	988	0.6%	6,083
18	*Acanthurus lineatus*	Lined surgeonfish	863	0.6%	3,750
19		Lizardfish	773	0.5%	3,150
20		**Other species**	8,972	5.9%	
	Total reported value by species		153,140		
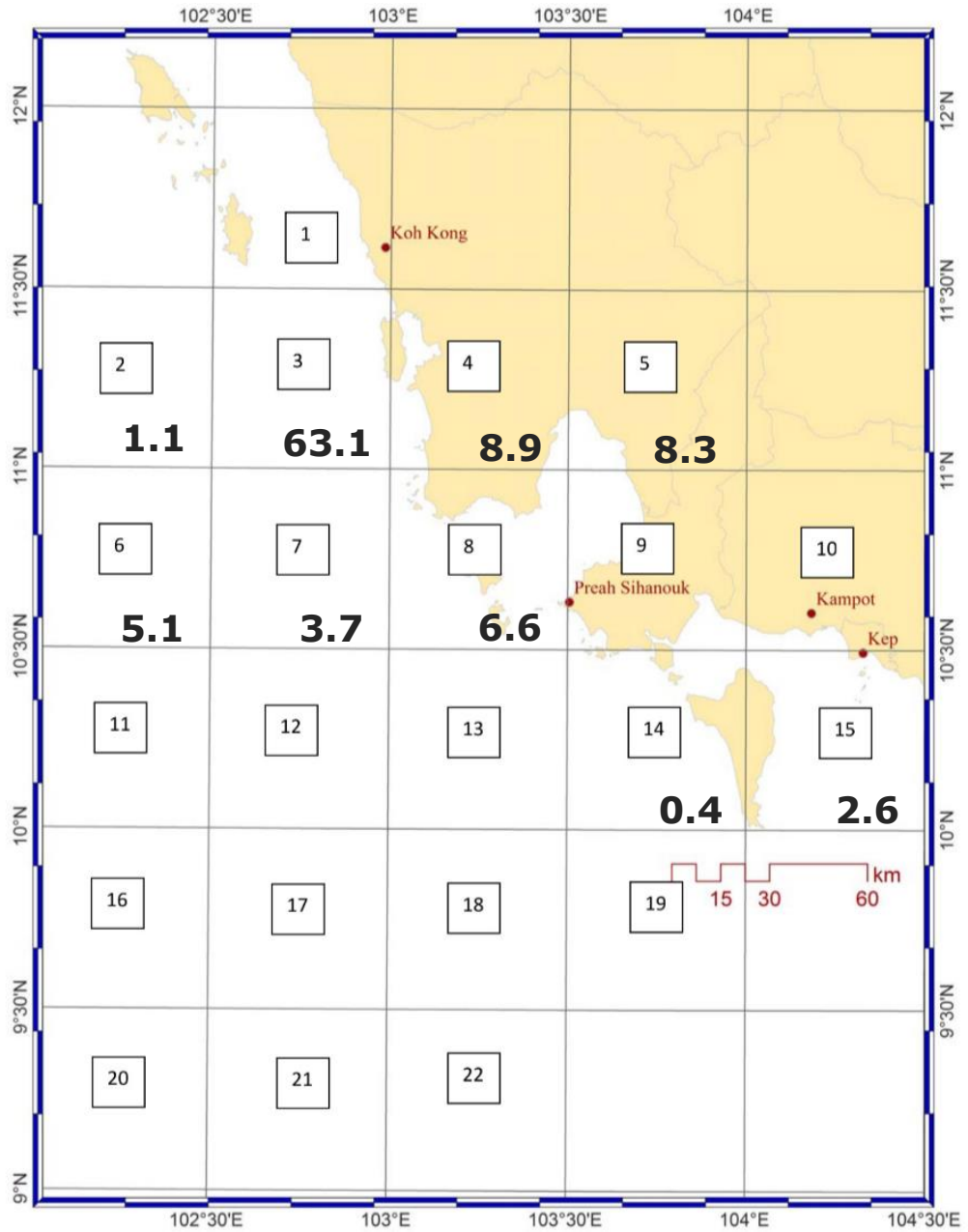
Figure 5. Contribution of fishing grid (%) to reported catch in sampled landings.