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**Programme for Sustainable and Inclusive Growth
in the Fisheries Sector: Capture Component
(CAPFISH-Capture)**

**Catch Monitoring Assessment Survey of Marine Fisheries Production
at Landing Sites in Cambodia**

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MONTHLY STATISTICAL REPORT OF MARINE FISHERIES PRODUCTION IN NOVEMBER 2022

Prepared: Marine Fisheries Research and Development Institute (MaFReDI)

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1. Introduction and methodology

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 November 2022 was conducted at 8 fish landing sites in all coastal provinces.

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

| Province | Landing site | Small Scale | Middle Scale |
|--------------------|-----------------|-------------|--------------|
| Koh Kong | Oknha Lyon Phat | 7 | 21 |
| Koh Kong | Thmasar | 15 | 13 |
| Preah Sihanouk | Stueng Hav | | 28 |
| Preah Sihanouk | Tumnup Rolok | | 28 |
| Kampot | Kampong Kandal | | 28 |
| Kampot | Trapeang Ropov | 15 | 13 |
| Kep | Ampeng | 7 | 21 |
| Kep | Oukrasa | 12 | 24 |
| Grand Total | | 56 | 176 |

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

2. Statistical tables and results

2.1. Reported catch by gear

Table 2. Mean reported catch in sampled landings (kg) for November 2022.

| Province | Landing site | Gear | Small scale | | Middle | |
|----------|----------------|----------------|-------------|-------|--------|-------|
| | | | Mean | ε% | Mean | ε% |
| Kep | Ampeng | Centipede trap | 11.5 | 13.9% | | |
| Kep | Oukrasa | Centipede trap | | | 32.8 | 6.4% |
| Koh Kong | Thmasar | Centipede trap | 8.7 | 10.2% | | |
| Kep | Oukrasa | Crab gillnet | 13.5 | 19.2% | 22.1 | 9.4% |
| Koh Kong | Thmasar | Crab gillnet | 8.2 | 6.1% | | |
| Sihanouk | Tumnup Rolok | Crab gillnet | | | 158.0 | 5.3% |
| Kampot | Trapeang Ropov | Crab trap | | | 23.4 | 8.9% |
| Kep | Oukrasa | Crab trap | 7.1 | 40.8% | 22.5 | 11.1% |
| Kampot | Trapeang Ropov | Fish gillnet | 53.0 | 8.2% | | |

| Province | Landing site | Gear | Small scale | | Middle | |
|----------|-----------------|-----------------------|-------------|-------|---------|-------|
| | | | Mean | ε% | Mean | ε% |
| Kep | Oukrasa | Fish gillnet | 20.9 | 32.6% | | |
| Koh Kong | Thmasar | Fish gillnet | | | 65.0 | 53.8% |
| Sihanouk | Tumnuv Rolok | Fish gillnet | | | 567.8 | 9.0% |
| Koh Kong | Oknha Lyon Phat | Fish trap | | | 765.0 | 43.8% |
| Kampot | Kampong Kandal | Mackerel Gillnet | | | 1,512.7 | 19.3% |
| Koh Kong | Oknha Lyon Phat | Octopus trap longline | | | 275.0 | 9.1% |
| Koh Kong | Thmasar | Octopus trap longline | | | 195.0 | 2.6% |
| Koh Kong | Thmasar | Other | | | 501.0 | 99.6% |
| Koh Kong | Thmasar | Push net | 21.3 | 42.0% | | |
| Sihanouk | Stueng Hav | Shrimp gillnet | | | 34.9 | 14.3% |
| Kampot | Kampong Kandal | Trawl ¹ | | | 49.5 | 12.0% |
| Kampot | Trapeang Ropov | Trawl | | | 50.6 | 11.5% |
| Kep | Ampeng | Trawl | | | 51.5 | 4.1% |
| Koh Kong | Oknha Lyon Phat | Trawl | | | 1,543.0 | 88.5% |
| Koh Kong | Thmasar | Trawl | | | 71.2 | 26.0% |
| Sihanouk | Stueng Hav | Trawl | | | 866.4 | 6.8% |
| Sihanouk | Tumnuv Rolok | Trawl | | | 106.4 | 4.1% |

ε% is the relative standard error, if higher than 30%, values are not statistically accurate and cannot be used; average catch without ε% are based on a single observation, are not representative for that gear and are not included in the table.

Table 2. Proportion of landings recorded for all gears by province, with contribution to recorded catch (kg).

| Gear | Koh Kong | Preah Sihanouk | Kampot | Kep | Total kg | %Total |
|-----------------------------------|--------------|----------------|--------------|-------------|----------|--------|
| Trawl | 29.9% | 60.7% | 5.6% | 3.8% | 26,738.2 | 56.3% |
| Halfbeak gillnet | 0.0% | 0.0% | 100.0% | 0.0% | 4,538.0 | 9.5% |
| Fish gillnet | 3.0% | 75.9% | 18.8% | 2.3% | 4,486.7 | 9.5% |
| Fish trap | 100.0% | 0.0% | 0.0% | 0.0% | 2,930.0 | 6.2% |
| Mackerel Gillnet | 32.5% | 15.7% | 51.8% | 0.0% | 2,317.0 | 4.9% |
| Crab gillnet | 4.0% | 71.8% | 0.0% | 24.1% | 1,595.5 | 3.4% |
| Fish gillnet and Fish hook | 0.0% | 0.0% | 100.0% | 0.0% | 1,145.0 | 2.4% |
| Unspecified gear | 92.5% | 0.0% | 0.0% | 7.5% | 1,090.0 | 2.3% |
| Octopus trap longline | 100.0% | 0.0% | 0.0% | 0.0% | 940.0 | 2.0% |
| Shrimp gillnet and Fish gillnet | 100.0% | 0.0% | 0.0% | 0.0% | 410.0 | 0.9% |
| Shrimp gillnet | 0.0% | 100.0% | 0.0% | 0.0% | 348.5 | 0.7% |
| Centipede trap | 11.4% | 0.0% | 0.0% | 88.6% | 324.7 | 0.7% |
| Squid tow longline | 100.0% | 0.0% | 0.0% | 0.0% | 250.0 | 0.5% |
| Crab trap | 0.0% | 0.0% | 69.2% | 30.8% | 192.3 | 0.4% |
| Push net | 100.0% | 0.0% | 0.0% | 0.0% | 94.5 | 0.2% |
| Fish gillnet and Mackerel gillnet | 100.0% | 0.0% | 0.0% | 0.0% | 80.0 | 0.2% |
| Grand Total | 31.0% | 45.2% | 19.7% | 4.1% | | |

¹ originally classified as 'beach seines', this was corrected during 2022, recording this gear as 'Trawl'

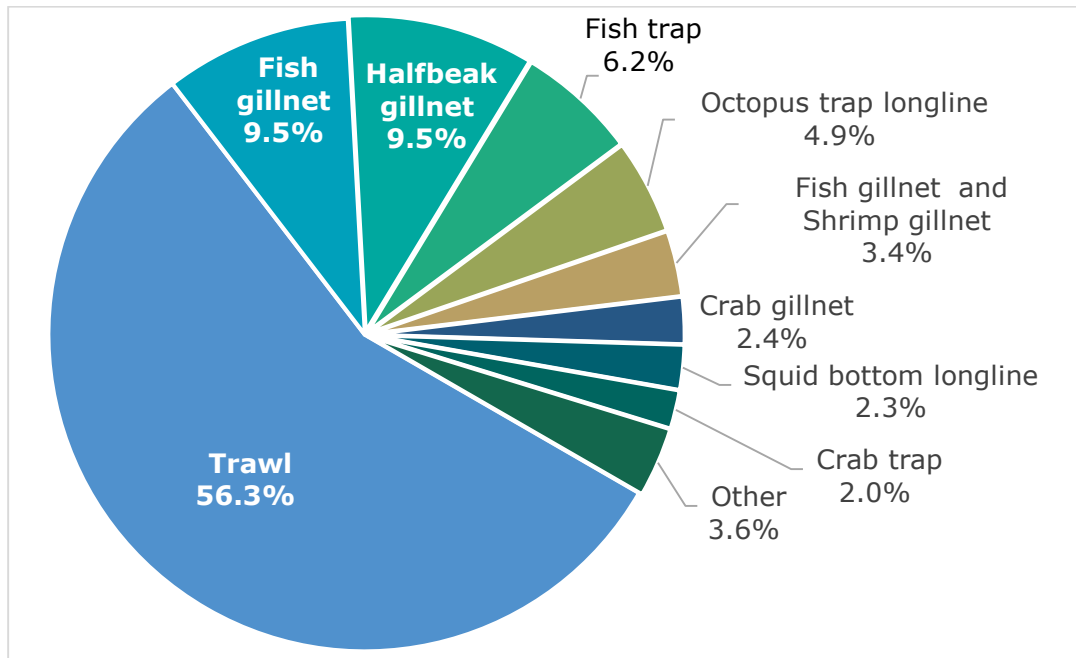


Figure 1. Contribution of main gear types to reported catch.

2.2. Catch and value by species

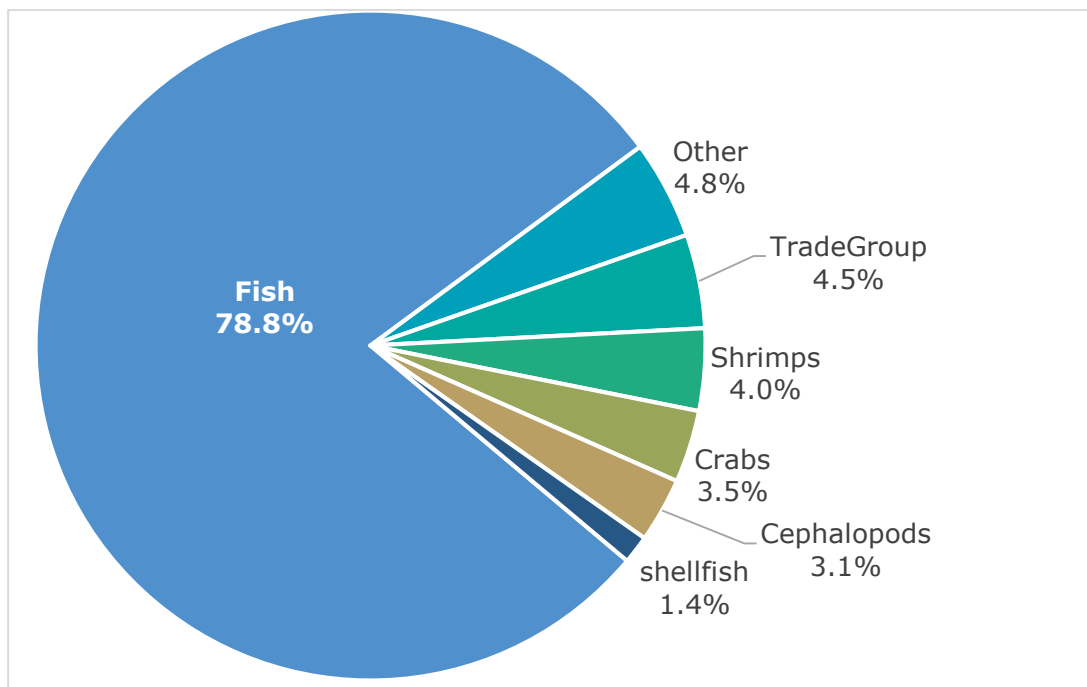


Figure 2. Contribution of main aquatic animal groups to reported catch (total reported weight: 57,568 kg).

Table 3. Top 20 reported species and species groups **by weight** (kg)

| Scientific name | English Common | Catch | Catch% | |
|------------------------------------|---------------------------------|---------------|--------|--------------------|
| | | | %Total | %Cum. ² |
| | Other fish nei | 17,348.0 | 30.1% | 30.1% |
| <i>Encrasicholina heteroloba</i> | Shorthead anchovy | 14,352.0 | 24.9% | 55.1% |
| | Needlefish nei | 3,500.0 | 6.1% | 61.2% |
| | Other catch nei | 2,726.0 | 4.7% | 65.9% |
| <i>Portunus pelagicus</i> | Swimming crab | 1,950.0 | 3.4% | 69.3% |
| <i>Penaeus sp.</i> | Prawns nei | 1,752.0 | 3.0% | 72.3% |
| <i>Rastrelliger brachysoma</i> | Short mackerel | 1,471.0 | 2.6% | 74.9% |
| <i>Decapterus macrosoma</i> | Shortfin scad | 1,333.0 | 2.3% | 77.2% |
| | Squids nei | 1,184.0 | 2.1% | 79.2% |
| | Mollusks nei | 1,118.0 | 1.9% | 81.2% |
| | trash fish | 1,069.0 | 1.9% | 83.0% |
| | Cephalopods (squids/cuttlefish) | 1,024.0 | 1.8% | 84.8% |
| <i>Hemiramphus far</i> | Black-barred halfbeak | 1,000.0 | 1.7% | 86.6% |
| <i>Anadara granosa</i> | Blood cockle | 780.0 | 1.4% | 87.9% |
| | squirrelfish | 776.0 | 1.4% | 89.3% |
| <i>Anodontostoma chacunda</i> | Chacunda gizzard shad | 738.0 | 1.3% | 90.5% |
| <i>Scomberoides commersonianus</i> | Talang queenfish | 555.0 | 1.0% | 91.5% |
| <i>Acanthurus sp.</i> | Surgeonfish | 500.0 | 0.9% | 92.4% |
| | Octopus | 460.0 | 0.8% | 93.2% |
| <i>Rastrelliger faughni</i> | Island mackerel | 400.0 | 0.7% | 93.9% |
| | other | 3,532.0 | 6.1% | 100.0% |
| Total reported catch | | 57,568 | | |

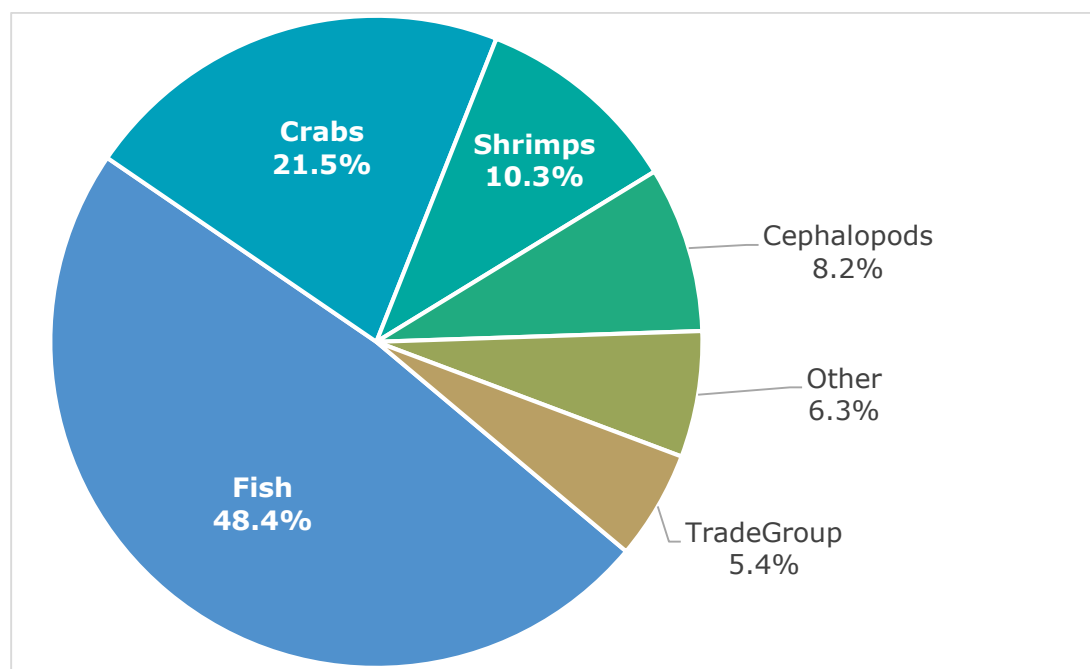


Figure 3. Proportion of total reported value (1000 Riel) in reported catch, by main aquatic animal group (Total reported value: 289,406,000 Riel).

² This represents the cumulative proportion, as a measure for the diversity of the catches.

Table 4. Top 20 reported species by value (1000 Riel) and average price/kg.

| Scientific name | English Common | Value (1000 Riel) | % Value | % Cum | Price (Riels/ Kg) |
|------------------------------------|---------------------------------|-------------------|---------|--------|-------------------|
| <i>Portunus pelagicus</i> | Swimming crab | 61,098 | 21.1% | 21.1% | 26,000 |
| | Other fish nei | 42,119 | 14.6% | 35.7% | 3,000 |
| | Needlefish nei | 27,000 | 9.3% | 45.0% | 8,000 |
| <i>Penaeus sp.</i> | Prawns nei | 17,529 | 6.1% | 51.1% | 19,000 |
| | Squids nei | 16,083 | 5.6% | 56.6% | 16,000 |
| | Other catch nei | 15,951 | 5.5% | 62.1% | 12,000 |
| <i>Encrasicholina heteroloba</i> | Shorthead anchovy | 13,241 | 4.6% | 66.7% | 1,000 |
| <i>Decapterus macrosoma</i> | Shortfin scad | 9,331 | 3.2% | 69.9% | 7,000 |
| | Cephalopods (squids/cuttlefish) | 7,990 | 2.8% | 72.7% | 11,000 |
| <i>Penaeus monodon</i> | Giant tiger prawn | 7,292 | 2.5% | 75.2% | 28,000 |
| <i>Rastrelliger brachysoma</i> | Short mackerel | 7,042 | 2.4% | 77.6% | 4,000 |
| <i>Hemiramphus far</i> | Blackbarred halfbeak | 6,000 | 2.1% | 79.7% | 6,000 |
| <i>Epinephelus coioides</i> | Orange-spotted grouper | 5,800 | 2.0% | 81.7% | 19,000 |
| | Octopus | 5,546 | 1.9% | 83.6% | 13,000 |
| <i>Scomberoides commersonianus</i> | Talang queenfish | 4,440 | 1.5% | 85.2% | 8,000 |
| | squirrelfish | 3,828 | 1.3% | 86.5% | 5,000 |
| | Mollusks nei | 3,542 | 1.2% | 87.7% | 11,000 |
| <i>Acanthurus sp.</i> | Surgeonfish | 3,500 | 1.2% | 88.9% | 7,000 |
| | Cephalopods (octopus) | 3,245 | 1.1% | 90.0% | 13,000 |
| <i>Rastrelliger faughni</i> | Island mackerel | 3,200 | 1.1% | 91.1% | 8,000 |
| Other species | | 25,630 | 8.9% | 100.0% | |
| Total reported catch | | 289,406 | | | |

Not all prices are reported by category, some market (commercial) price categories are included separately.

Annex1. Species catch by province for November 2022 (total reported catch: 57,568 kg)

| Scientific name | English Common | Khmer Name | Kampot | Kep | Koh Kong | Sihanouk | Total | Proportion |
|----------------------------------|---------------------------------|---------------------------------|---------|-------|----------|----------|--------|------------|
| | Other fish nei | ប្រភេទត្រីចំរុះ | 692.0 | 888.0 | 13,310.0 | 2,458.0 | 17,348 | 30.14% |
| <i>Encrasicholina heteroloba</i> | Shorthead anchovy | កាកឹម | 2.0 | | 2,100.0 | 12,250.0 | 14,352 | 24.93% |
| | Needlefish nei | ត្រីធ្នោង | 3,500.0 | | | | 3,500 | 6.08% |
| | Other catch nei | ផ្សេងៗ | 2,726.0 | | | | 2,726 | 4.74% |
| <i>Portunus pelagicus</i> | Swimming crab | ក្តាមសេះ | 246.6 | 472.0 | 54.0 | 1,177.5 | 1,950 | 3.39% |
| <i>Penaeus sp.</i> | Prawns nei | បង្កា | 314.6 | 5.2 | 371.5 | 1,061.0 | 1,752 | 3.04% |
| <i>Rastrelliger brachysoma</i> | Short mackerel | ត្រីផ្កាធុ ឬត្រីកាម៉ុងខ្លួនខ្លី | 884.0 | | 587.0 | | 1,471 | 2.56% |
| <i>Decapterus macrosoma</i> | Shortfin scad | ត្រីកាម៉ុងឬត្រីធ្នោង | | | | 1,333.0 | 1,333 | 2.32% |
| | Squids nei | មីក | 5.0 | 78.0 | 1,096.0 | 5.0 | 1,184 | 2.06% |
| | Mollusks nei | សប្បីសត្វ ពពួកខ្យង គ្រំ ងាវ | | 117.5 | 1,000.0 | | 1,118 | 1.94% |
| | trash fish | ត្រីជី | 110.0 | | 138.0 | 821.0 | 1,069 | 1.86% |
| | Cephalopods (squids/cuttlefish) | ពពួកមីកស្នូកនិងមីកបំពង់ | 7.0 | 5.0 | 100.0 | 912.0 | 1,024 | 1.78% |
| <i>Hemiramphus far</i> | Blackbarred halfbeak | ត្រីធ្នោងផ្កា | 1,000.0 | | | | 1,000 | 1.74% |

| Scientific name | English Common | Khmer Name | Kampot | Kep | Koh Kong | Sihanouk | Total | Proportion |
|------------------------------------|---------------------------------|---|--------|-------|----------|----------|-------|------------|
| <i>Anadara granosa</i> | Blood cockle | ត្រែងឈាម | | | | 780.0 | 780 | 1.35% |
| | squirrelfish | ត្រីក្រហម | | | | 776.0 | 776 | 1.35% |
| <i>Anodontostoma chacunda</i> | Chacunda gizzard shad | ត្រីកាម៉យ | 708.0 | | 10.0 | 20.0 | 738 | 1.28% |
| <i>Scomberoides commersonianus</i> | Talang queenfish | ត្រីកាឡាំង | | | | 555.0 | 555 | 0.96% |
| <i>Acanthurus sp.</i> | Surgeonfish | ត្រីកាតាំង | | | 500.0 | | 500 | 0.87% |
| | Octopus | មីកពីងពាង | 132.0 | 79.5 | 200.0 | 48.0 | 460 | 0.80% |
| <i>Rastrelliger faughni</i> | Island mackerel | ត្រីប៉ាឡាំង | 400.0 | | | | 400 | 0.69% |
| <i>Siganus canaliculatus</i> | Whitespotted Spinefoot | ត្រីកន្តាំងក្រអូម | 51.0 | | 330.0 | | 381 | 0.66% |
| <i>Nemipterus hexodon</i> | Ornate treadfin bream | ត្រីអាងគីមលី | | | 317.0 | | 317 | 0.55% |
| <i>Epinephelus coioides</i> | Orange-spotted grouper | ត្រីតុកកែកៅ | | | 300.0 | | 300 | 0.52% |
| | Cephalopods (octopus) | ពពួកមីកពីងពាង | 37.0 | | 190.0 | 57.0 | 284 | 0.49% |
| <i>Rastrelliger kanagurta</i> | Indian mackerel | ត្រីកាម៉ុងខ្លួនវែង | | | 20.0 | 250.0 | 270 | 0.47% |
| <i>Penaeus monodon</i> | Giant tiger prawn | បង្កាខ្លីង | 22.5 | 189.2 | | 42.0 | 254 | 0.44% |
| | Small mixed shrimp nei | គី | | 197.0 | | | 197 | 0.34% |
| | Crabs (swimming crab, mud crab) | ពពួកក្តាម (រួមទាំង ក្តាមសេះ ក្តាមថ្ម ក្តាម ជ័រ ជាដើម) | | 161.0 | 20.0 | | 181 | 0.31% |

| Scientific name | English Common | Khmer Name | Kampot | Kep | Koh Kong | Sihanouk | Total | Proportion |
|----------------------------------|-------------------------------|-----------------------------|--------|------|----------|----------|-------|------------|
| <i>Suborder Sepiina</i> | Cuttlefish | មីកស្នូក | 44.5 | 86.0 | 25.0 | | 156 | 0.27% |
| <i>Lutjanus argentimaculatus</i> | Mangrove red snapper | ត្រីអាំងតឹយក្រហម | | | 150.0 | | 150 | 0.26% |
| <i>Trichiurus lepturus</i> | Largehead hairtail | ត្រីកុកក្បាលធំ | | | 150.0 | | 150 | 0.26% |
| | Pony fishes | ត្រីកិ | | 8.0 | 115.0 | | 123 | 0.21% |
| | Rabbitfish | ត្រីកន្ទាំង | 107.0 | 1.0 | | | 108 | 0.19% |
| <i>scomberoides tala</i> | Barred queenfish | ត្រីកាឡាំង | | | | 107.0 | 107 | 0.19% |
| <i>Sargocentron rubrum</i> | Redcoat | ត្រីកាជី | | | 100.0 | | 100 | 0.17% |
| | Mantis shrimp | បង្កងកណ្តុប | 41.5 | | 28.1 | 11.0 | 81 | 0.14% |
| | Lizardfish | ត្រីក្តូចិន | | | 60.0 | | 60 | 0.10% |
| | Parrot fish | ត្រីសេក | 49.5 | 8.0 | | | 58 | 0.10% |
| <i>Scomberomorus commerson</i> | Narrowbarred Spanish mackerel | ត្រីបេកាខ្មៅ ឬត្រីបេកាឆ្នុត | | | 50.0 | | 50 | 0.09% |
| <i>Pseudorhombus arsius</i> | Large tooth flounder | ត្រីអណ្តាតវែង | | 2.0 | 3.0 | 42.0 | 47 | 0.08% |
| <i>Scylla serrata</i> | Mud crab | ក្តាមថ្ម | | 10.0 | 15.0 | | 25 | 0.04% |
| <i>Sillago ingenuua</i> | Bay sillago | ត្រីព្រលួសធម្មតា | | 25.0 | | | 25 | 0.04% |
| <i>Thalamita crenata</i> | Crenate swimming crab | ក្តាមថ្មខៀវ | | 20.0 | | | 20 | 0.03% |
| <i>Sillago sihama</i> | Silver sillago | ត្រីព្រលួស | 5.0 | 12.0 | | | 17 | 0.03% |

| Scientific name | English Common | Khmer Name | Kampot | Kep | Koh Kong | Sihanouk | Total | Proportion |
|------------------------------|------------------------------|-------------------|--------|------|----------|----------|-------|------------|
| | Crabs nei | ក្ដាមផ្សេងៗ | | 15.0 | | | 15 | 0.03% |
| <i>Chirocentrus dorab</i> | Dorab wolf-herring | ត្រីស្រោមដាវ | | | 10.0 | | 10 | 0.02% |
| <i>Scomberomorus sp.</i> | Spanish mackerel species nei | ត្រីបេកា | 10.0 | | | | 10 | 0.02% |
| | Lobster | បង្កងប៉ាក | 5.0 | 1.7 | 3.0 | | 10 | 0.02% |
| | Terapons | ត្រីត្រសក់ | 2.0 | 6.0 | | | 8 | 0.01% |
| <i>Saurida undosquamis</i> | Bushtooth lizardfish | ត្រីក្អមិសអុជខ្មៅ | | | | 5.0 | 5 | 0.01% |
| | Mullets | ត្រីក្បក | | | 3.0 | | 3 | 0.01% |
| <i>Hemigymnus fasciatus</i> | Barred thicklip | ត្រីសេកមាត់ក្រាស់ | 3.0 | | | | 3 | 0.01% |
| <i>Coris sp.</i> | Rainbow Wrasse | ត្រីក្រឹម | 2.0 | | | | 2 | 0.00% |
| <i>Brevitrygon imbricata</i> | Scaly whipray | បំបែលមាន់ | 0.5 | 1.0 | | | 2 | 0.00% |
| <i>Cheilinus trilobatus</i> | Tripletail wrasse | ត្រីសេកព្រុយបីកង់ | | 1.5 | | | 2 | 0.00% |
| | Rays nei | បំបែល | 1.0 | | | | 1 | 0.00% |
| <i>Cheilinus fasciatus</i> | Redbreasted wrasse | ត្រីសេកបង្កង់ | | 1.0 | | | 1 | 0.00% |
| <i>Stolephorus indicus</i> | Indian anchovy | ត្រីក្រចកក្របី | | 1.0 | | | 1 | 0.00% |
| <i>Penaeus merguensis</i> | Banana shrimp | បង្កាប៉ារ៉ា | 0.5 | | | | 1 | 0.00% |
| <i>Scarus ghobban</i> | Blue-barred parrotfish | ត្រីសេកស្រកាលឿង | 0.5 | | | | 1 | 0.00% |