



Food and Agriculture
Organization of the
United Nations



This programme is co-funded by
the European Union



**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**

**MONTHLY STATISTICAL REPORT OF MARINE
FISHERIES PRODUCTION IN DECEMBER 2022**

Prepared: Marine Fisheries Research and Development Institute (MaFREDI)

This publication was produced with the financial support of the European Union. Its contents are the sole responsibility of Fisheries Administration and do not necessarily reflect the views of the European Union

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 December 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 | landings | Small Scale | Middle Scale |
|--------------------|-----------------|-------------|--------------|
| Koh Kong | Oknha Lyon Phat | 9 | 18 |
| Koh Kong | Thmasar | 16 | 12 |
| Preah Sihanouk | Stueng Hav | | 28 |
| Preah Sihanouk | Tumnup Rolok | 11 | 17 |
| Kampot | Kampong Kandal | 6 | 22 |
| Kampot | Trapeang Ropov | 16 | 12 |
| Kep | Ampeng | 1 | 27 |
| Kep | Oukrasa | 5 | 23 |
| Grand Total | | 64 | 159 |

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 December 2022.

| Province | Landing site | Gear | Small Scale | | Middle Scale | |
|----------|-----------------|---------------------------|-------------|-------|--------------|-------|
| | | | Mean | ε% | Mean | ε% |
| Koh Kong | Thmasar | Blood cockle dragnet | | | 5.0 | 20.0% |
| Koh Kong | Oknha Lyon Phat | Bottom longline for Squid | | | 300.0 | 0.0% |
| Koh Kong | Thmasar | Centipede trap | 5.1 | 70.8% | | |
| Kep | Oukrasa | Crab gillnet | | | 18.3 | 13.3% |
| Koh Kong | Thmasar | Crab gillnet | 4.8 | 19.0% | 5.1 | 18.0% |
| Sihanouk | Tumnup Rolok | Crab gillnet | 170.9 | 17.2% | 182.3 | 11.4% |
| Kampot | Trapeang Ropov | Crab trap | | | 21.6 | 1.1% |
| Kep | Oukrasa | Crab trap | 7.0 | 42.9% | 39.6 | 19.4% |
| Kampot | Trapeang Ropov | Fish gillnet | 108.1 | 17.7% | 70.0 | 28.6% |

| Province | Landing site | Gear | Small Scale | | Middle Scale | |
|----------|-----------------|-----------------------|-------------|-------|--------------|-------|
| | | | Mean | ε% | Mean | ε% |
| Kep | Oukrasa | Fish gillnet | 22.5 | 23.1% | | |
| Koh Kong | Thmasar | Fish gillnet | | | 23.5 | 70.2% |
| Sihanouk | Tumnup Rolok | Fish gillnet | | | 822.0 | 17.5% |
| Koh Kong | Oknha Lyon Phat | Fish trap | | | 1,125.0 | 15.6% |
| Kampot | Kampong Kandal | Halfbeak gillnet | | | 1,750.5 | 14.3% |
| Koh Kong | Oknha Lyon Phat | Mackerel Gillnet | 50.0 | 20.0% | 42.6 | 18.5% |
| Koh Kong | Oknha Lyon Phat | Octopus trap longline | 195.0 | 28.2% | 306.7 | 13.1% |
| Kep | Ampeng | Other | 6.3 | 10.1% | | |
| Koh Kong | Thmasar | Push net | 33.5 | 25.4% | 26.0 | 92.3% |
| Sihanouk | Stueng Hav | Shrimp gillnet | | | 20.2 | 17.7% |
| Kep | Ampeng | Squid tow longline | | | 16.5 | 9.1% |
| Kampot | Kampong Kandal | Trawl ¹ | | | 32.4 | 8.1% |
| Kampot | Trapeang Ropov | Trawl | | | 47.8 | 4.5% |
| Kep | Ampeng | Trawl | | | 34.3 | 3.6% |
| Koh Kong | Oknha Lyon Phat | Trawl | | | 4,500.0 | 77.8% |
| Koh Kong | Thmasar | Trawl | | | 52.9 | 0.8% |
| Sihanouk | Stueng Hav | Trawl | | | 2,227.9 | 31.9% |
| Sihanouk | Tumnup Rolok | Trawl | | | 100.0 | 9.8% |

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 | 16.2% | 78.7% | 2.2% | 2.9% | 42,965.5 | 65.5% |
| Mackerel Gillnet | 7.2% | | 92.0% | 0.8% | 5,705.0 | 8.7% |
| Fish gillnet | 56.6% | 32.5% | 8.8% | 2.1% | 4,664.3 | 7.1% |
| Shrimp gillnet | 96.1% | 3.9% | | | 4,558.0 | 6.9% |
| Halfbeak gillnet | | | 100.0% | | 3,118.0 | 4.8% |
| Crab gillnet | 4.7% | 63.8% | | 31.5% | 1,237.0 | 1.9% |
| Spanish mackerel gillnet | 100.0% | | | | 600.0 | 0.9% |
| Octopus trap longline | 100.0% | | | | 500.0 | 0.8% |
| Crab trap | 3.5% | | 58.6% | 37.8% | 282.8 | 0.4% |
| Squid trap | 100.0% | | | | 260.0 | 0.4% |
| Centipede trap | 27.9% | | | 72.1% | 259.5 | 0.4% |
| Crab gillnet & Shrimp gillnet | | 100.0% | | | 247.5 | 0.4% |
| Snail trap | 100.0% | | | | 246.0 | 0.4% |
| Siganus (Fish) gillnet | | | 100.0% | | 215.0 | 0.3% |
| Shrimp gillnet & Crab gillnet | | 100.0% | | | 201.0 | 0.3% |
| Push net | 100.0% | | | | 188.8 | 0.3% |
| Siganus (Fish) & Halfbeak gillnet | | | 100.0% | | 130.0 | 0.2% |
| Crab, Fish & Shrimp gillnet | | 100.0% | | | 81.0 | 0.1% |
| Indian Threadfin Gillnet | | | 100.0% | | 70.0 | 0.1% |

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

| Gear | Koh Kong | Preah Sihanouk | Kampot | Kep | Total kg | %Total |
|---------------------------|--------------|----------------|--------------|-------------|----------|---------------|
| Unspecified gear | 100.0% | | | | 20.0 | 0.0% |
| Hand push net | | | | 100.0% | 17.0 | 0.0% |
| Bottom longline for Squid | | | 100.0% | | 10.0 | 0.0% |
| Grand Total | 24.9% | 56.2% | 15.7% | 3.2% | | 100.0% |

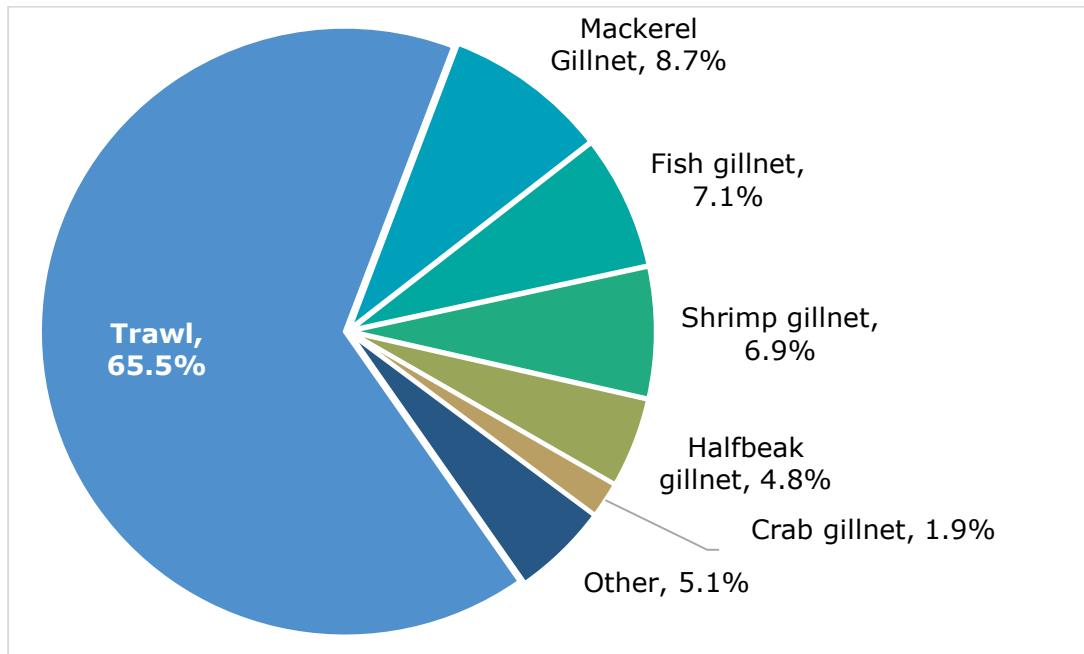


Figure 1. Contribution of main gear types to reported catch.

2.2. Catch and value by species

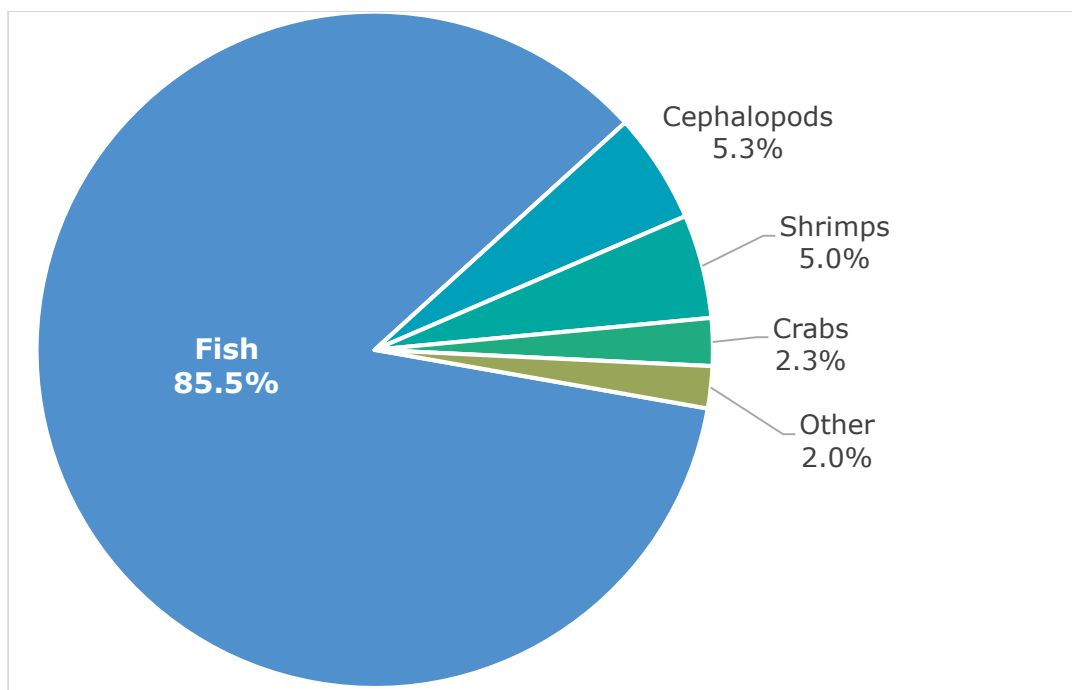


Figure 2. Contribution of main aquatic animal groups to reported catch (total reported weight: 80,366 kg).

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

| Scientific name | English Common | Catch | Catch% | |
|----------------------------------|---------------------------------|---------------|---------|---------------------|
| | | | % Total | % Cum. ² |
| | Trash fish | 27,125 | 33.8% | 33.8% |
| | Other fish nei | 23,626 | 29.4% | 63.2% |
| <i>Decapterus macrosoma</i> | Shortfin scad | 4,643 | 5.8% | 68.9% |
| <i>Encrasicholina heteroloba</i> | Shorthead anchovy | 4,532 | 5.6% | 74.6% |
| <i>Penaeus sp.</i> | Prawns nei | 3,388 | 4.2% | 78.8% |
| | Needlefish nei | 3,160 | 3.9% | 82.7% |
| | Squids nei | 2,886 | 3.6% | 86.3% |
| <i>Rastrelliger brachysoma</i> | Short mackerel | 1,810 | 2.3% | 88.6% |
| <i>Portunus pelagicus</i> | Swimming crab | 1,768 | 2.2% | 90.8% |
| <i>Sardinella gibbosa</i> | goldstripe sardine | 1,070 | 1.3% | 92.1% |
| | Other catch nei | 1,040 | 1.3% | 93.4% |
| | Octopus | 859 | 1.1% | 94.5% |
| <i>Anodontostoma chacunda</i> | Chacunda gizzard shad | 843 | 1.0% | 95.5% |
| <i>Rastrelliger kanagurta</i> | Indian mackerel | 695 | 0.9% | 96.4% |
| <i>Suborder Sepiina</i> | Cuttlefish | 484 | 0.6% | 97.0% |
| | Rabbitfish | 293 | 0.4% | 97.3% |
| <i>Penaeus monodon</i> | Giant tiger prawn | 270 | 0.3% | 97.7% |
| | Crabs (swimming crab, mud crab) | 263 | 0.3% | 98.0% |
| | Small mixed shrimp nei | 223 | 0.3% | 98.3% |
| <i>Megalaspis cordyla</i> | Torpedo scad | 215 | 0.3% | 98.5% |
| Other species | | 1,173 | 1.5% | 100.0% |
| Total reported catch | | 80,366 | | |

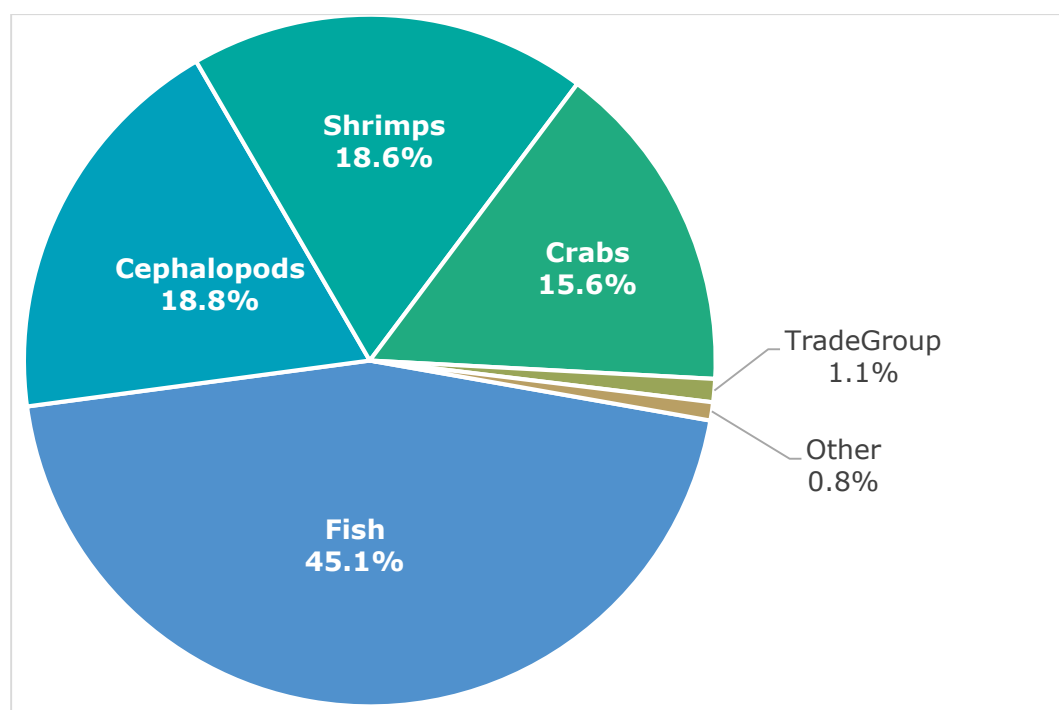


Figure 3. Proportion of total reported value (1000 Riel), by main aquatic animal group (Total reported value: 361,400,000 Riel).

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) |
|------------------------------------|---------------------------------|-------------------|--------|--------|-------------------|
| | Other fish nei | 71,198 | 19.7% | 19.7% | 4,000 |
| <i>Penaeus sp.</i> | Prawns nei | 57,579 | 15.9% | 35.6% | 20,000 |
| <i>Portunus pelagicus</i> | Swimming crab | 55,403 | 15.3% | 51.0% | 26,000 |
| | Squids nei | 48,832 | 13.5% | 64.5% | 14,000 |
| <i>Decapterus macrosoma</i> | Shortfin scad | 26,875 | 7.4% | 71.9% | 6,000 |
| | trash fish | 19,162 | 5.3% | 77.2% | 1,000 |
| | Needlefish nei | 15,660 | 4.3% | 81.5% | 8,000 |
| <i>Suborder Sepiina</i> | Cuttlefish | 9,907 | 2.7% | 84.3% | 16,000 |
| | Octopus | 9,037 | 2.5% | 86.8% | 13,000 |
| <i>Sardinella gibbosa</i> | goldstripe sardine | 6,350 | 1.8% | 88.5% | 6,000 |
| <i>Rastrelliger brachysoma</i> | Short mackerel | 6,263 | 1.7% | 90.3% | 4,000 |
| <i>Penaeus monodon</i> | Giant tiger prawn | 4,184 | 1.2% | 91.4% | 20,000 |
| <i>Rastrelliger kanagurta</i> | Indian mackerel | 4,040 | 1.1% | 92.6% | 9,000 |
| | Mantis shrimp | 3,575 | 1.0% | 93.5% | 59,000 |
| <i>Encrasicholina heteroloba</i> | Shorthead anchovy | 3,312 | 0.9% | 94.5% | 1,000 |
| <i>Anodontostoma chacunda</i> | Chacunda gizzard shad | 2,747 | 0.8% | 95.2% | 3,000 |
| | Cephalopods (squids/cuttlefish) | 2,460 | 0.7% | 95.9% | 14,000 |
| | Other catch nei | 2,350 | 0.7% | 96.6% | 4,000 |
| <i>Scomberoides commersonianus</i> | Talang queenfish | 1,990 | 0.6% | 97.1% | 10,000 |
| | Rabbitfish | 1,643 | 0.5% | 97.6% | 5,000 |
| Other species | | 8,834 | 2.4% | 100.0% | |
| Total reported value | | 361,400 | | | |

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

Annex 1. Species catch by province for December 2022 (total reported catch: 80,366 kg)

| Scientific name | English Common | Khmer Name | Kampot | Kep | Koh Kong | Sihanouk | Total | %Total |
|---------------------------|-----------------------|---------------------------------|---------|-------|----------|----------|--------|--------|
| | trash fish | ត្រីជី | 40.0 | 166.0 | 17.0 | 26,902.0 | 27,125 | 33.75% |
| | Other fish nei | ប្រភេទត្រីចំរុះ | 2,772.0 | 760.0 | 17,320.0 | 2,774.0 | 23,626 | 29.40% |
| Decapterus macrosoma | Shortfin scad | ត្រីកាម៉ុងឬត្រីឆ្មាតូ | 3,423.0 | | | 1,220.0 | 4,643 | 5.78% |
| Encrasicholina heteroloba | Shorthead anchovy | កាកឹម | | | | 4,532.0 | 4,532 | 5.64% |
| Penaeus sp. | Prawns nei | បង្កា | 354.9 | 19.0 | 1,554.1 | 1,459.5 | 3,388 | 4.22% |
| | Needlefish nei | ត្រីធ្មោង | 3,160.0 | | | | 3,160 | 3.93% |
| | Squids nei | មីក | 5.0 | | 2,866.7 | 14.0 | 2,886 | 3.59% |
| Rastrelliger brachysoma | Short mackerel | ត្រីឆ្មាតូ ឬត្រីកាម៉ុងខ្លួនខ្លី | 140.0 | | 1,670.0 | | 1,810 | 2.25% |
| Portunus pelagicus | Swimming crab | ក្តាមសេះ | 204.3 | 536.0 | 39.0 | 989.0 | 1,768 | 2.20% |
| Sardinella gibbosa | goldstripe sardine | ត្រីគុន | | | | 1,070.0 | 1,070 | 1.33% |
| | Other catch nei | ផ្សេងៗ | 1,040.0 | | | | 1,040 | 1.29% |
| | Octopus | មីកពឹងពាង | 95.8 | 48.6 | 690.0 | 25.0 | 859 | 1.07% |
| Anodontostoma chacunda | Chacunda gizzard shad | ត្រីកាម៉យ | 143.0 | | | 700.0 | 843 | 1.05% |
| Rastrelliger kanagurta | Indian mackerel | ត្រីកាម៉ុងខ្លួនវែង | | 45.0 | 400.0 | 250.0 | 695 | 0.86% |
| Suborder Sepiina | Cuttlefish | មីកស្លុក | 27.5 | 53.5 | 242.0 | 161.0 | 484 | 0.60% |
| | Rabbitfish | ត្រីកន្តាំង | 281.0 | 12.0 | | | 293 | 0.36% |
| Penaeus monodon | Giant tiger prawn | បង្កាខ្លីង | 28.0 | 241.7 | | | 270 | 0.34% |

| Scientific name | English Common | Khmer Name | Kampot | Kep | Koh Kong | Sihanouk | Total | %Total |
|-----------------------------|---------------------------------|---|--------|-------|----------|----------|-------|--------|
| | Crabs (swimming crab, mud crab) | ពពួកក្តាម (រួមទាំងក្តាមសេះ ក្តាមថ្ម ក្តាមជ័រ ជាដើម) | | 256.8 | 6.0 | | 263 | 0.33% |
| | Small mixed shrimp nei | គី | | 222.7 | | | 223 | 0.28% |
| Megalaspis cordyla | Torpedo scad | ត្រីកន្ទុយវីង | | | | 215.0 | 215 | 0.27% |
| Scomberoides commersonianus | Talang queenfish | ត្រីកាឡាំង | | | | 199.0 | 199 | 0.25% |
| | Cephalopods (squids/cuttlefish) | ពពួកមីកស្តូកនិងមីកបំពង់ | 8.0 | 57.0 | | 94.0 | 159 | 0.20% |
| | squirrelfish | ត្រីក្រហម | 100.0 | | | | 100 | 0.12% |
| | Mantis shrimp | បង្កងកណ្តុប | 51.5 | | 10.0 | 20.0 | 82 | 0.10% |
| | Emperors, scavengers nei | ត្រីគ្រាប់ខ្នុរ | 70.0 | | | | 70 | 0.09% |
| Brevitrygon imbricata | Scaly whipray | បបែលមាន់ | | 5.0 | 50.0 | 9.0 | 64 | 0.08% |
| Scomberomorus sp. | Spanish mackerel species nei | ត្រីបេកា | 52.0 | | | | 52 | 0.06% |
| Pseudorhombus arsius | Largetooth flounder | ត្រីអណ្តាតឆ្កែ | 0.5 | 1.0 | 50.0 | | 52 | 0.06% |
| | Lizardfish | ត្រីក្តូចិន | 50.0 | | | | 50 | 0.06% |
| | Parrot fish | ត្រីសេក | 36.0 | 5.0 | | | 41 | 0.05% |
| | Mollusks nei | សប្បីសត្វ ពពួកខ្យង គ្រី ងាវ | | 39.5 | | | 40 | 0.05% |
| Eleutheronema tetradactylum | Fourfinger threadfin | ត្រីកាវ៉ាវ | 30.8 | | | | 31 | 0.04% |
| | Pony fishes | ត្រីកិ | 30.0 | | | | 30 | 0.04% |
| Episesarma versicolor | Violet vinegar crab | ក្តាមជ័រ | | | 30.0 | | 30 | 0.04% |

| Scientific name | English Common | Khmer Name | Kampot | Kep | Koh Kong | Sihanouk | Total | %Total |
|-------------------------|--------------------------------|-----------------------------|--------|-----|----------|----------|-------|--------|
| Scylla serrata | Mud crab | ក្ដាមថ្មី | | 2.0 | 27.5 | | 30 | 0.04% |
| | Shrimps (all kinds of shrimps) | ពពួកបង្កាគ្រប់ប្រភេទទាំងអស់ | 20.0 | | | | 20 | 0.02% |
| Penaeus merguensis | Banana shrimp | បង្កាប៉ារ៉ា | | | | 20.0 | 20 | 0.02% |
| Arius maculatus | Spotted catfish | ត្រីក្អក | | | 19.0 | | 19 | 0.02% |
| Decapterus russelli | Slender scad | ត្រីកន្ទុយវែង | | | | 17.0 | 17 | 0.02% |
| | Cephalopods (octopus) | ពពួកមីកពីងពាង | 13.0 | | | | 13 | 0.02% |
| Gerres oyena | Common silverbidy | ត្រីដូរអង្ករ | 13.0 | | | | 13 | 0.02% |
| | Rays nei | បែបល | | 7.0 | | | 7 | 0.01% |
| | Lobster | បង្កងប៉ាក | 6.5 | | | | 7 | 0.01% |
| Diagramma pictum | Painted sweetlips | ត្រីកាជី | | 6.0 | | | 6 | 0.01% |
| Sillago sihama | Silver sillago | ត្រីព្រលួស | 5.0 | | | | 5 | 0.01% |
| Metapenaeus spp. | | បង្កាឌីខាក់ | 4.0 | | | | 4 | 0.00% |
| Rachycentron canadum | Cobia | ត្រីផ្ទុក់សមុទ្រ | | 4.0 | | | 4 | 0.00% |
| Sepioteuthis lessoniana | Bigfin reef squid | មីកហួយសាយ | | | | 4.0 | 4 | 0.00% |
| Paralichthys olivaceus | Olive flounder | ត្រីអណ្ដាតឆ្មៃ | | 2.0 | 1.0 | | 3 | 0.00% |
| Acentrogobius caninus | Tropical sand goby | ត្រីត្រងោល/ ត្រីដំឡូង | 1.0 | | | | 1 | 0.00% |
| Portunus spp. | Swimming crabs | ក្ដាមសេះ | | | | 1.0 | 1 | 0.00% |
| Scarus ghobban | Blue-barred parrotfish | ត្រីសេកស្រកាលឿង | | | 1.0 | | 1 | 0.00% |
| Terapon jarbua | Jarbua terapon | ត្រីត្រសក់កន្ទុយឆែក | | | 1.0 | | 1 | 0.00% |

