

# Species Composition of Edible Crustaceans in Hirapsan Island of Mondragon, Northern Samar, Philippines

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**Abstract**— Hirapsan Island, Mondragon, Northern Samar is known for its abundance of marine resources specifically the crustacean species. This present descriptive study used the systematic technique with an aim to identify the species composition of edible crustaceans in the island of Hirapsan of the municipality of Mondragon, Northern Samar. Specifically, it identified the species composition of crustaceans present in Hirapsan island of Mondragon, Northern Samar; determined the most abundant species; described the distribution of crustaceans according to different habitats; assessed the crustacean species caught by different catching gears; and, analyzed the environmental parameters prevailing in the study areas.

Out of 24 crustacean species collected, the results revealed the crustacean species identified were under two (2) Orders: Decapoda and Stomatopoda; eleven (11) Families: Calappa, Calapidae, Carpiliidae, Oziidae, Palinuridae, Penaeidae, Pilumnidae, Polybiidae, Portunidae, Scyllaridae, Xanthidae, and Lysiosquillidae; and eighteen (18) Genus: Calappa, Carpilius, Eupilumnus, Panulirus, Penaeus, Pilumnus, Liocarcinus, Carupa, Charybdis, Portunus, Thalamita, Thranita, Puerulus, Parribus, Thenus, Altergatis, Euxanthus, and Lysioquilla, respectively.

The most abundant species was *Panulirus longepis*, and the least abundant were *Atergatis floridus*, *Carupa ohashii*, and *Puerulus sp.*

Twelve (12) species found in rocky area, 10 species in coral reef habitat, 4 species in mangrove area, 3 species in sandy habitat, and only one species in seagrass beds.

The most caught gear type was *Bentol*, and the least caught gear type was *Bobo*.

Based on the results of the study, the overall environmental conditions of the study sites were tolerable and suitable for the crustaceans to survive.

**Keywords**— Abundance, Catching Gears, Edible Crustaceans, Species Composition

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