

## BIODIVERSITY OF KINGDOM ANIMALIA AT THE JUNGCHEON RIVER IN UIRYEONG-GUN, KOREA

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### ABSTRACT

This study is to investigate the biodiversity of animal kingdoms at four regions on the Jungcheon River in Korea. Ecosystems are essentially to understand functional systems and characterized by their dynamic within environments and organisms. Biodiversity is changing over time. The number of mammal species accounted for ten taxa for only four seasons within the studied areas. Invertebrates exhibited the greatest species diversity with 20 taxa identified, followed by birds (Aves) (17 taxa). There were twelve taxa of reptiles/amphibians (Sauropsida/Amphibia) at four sites for four seasons. Fish was represented by 13 taxa. Shannon-Weaver index ( $H'$ ) for mammals at upper region was higher than those of low region. This area is a forest area and is good for mammals.  $H'$  for birds also varied among the stations and season. Mean  $H'$  of diversity for birds was varied from 2.548 (St. D) to 2.742 (St. B). St. B was considerable high  $H'$  in birds, reptiles/amphibians, fish, and invertebrates. Berger-Parker's index (BPI) for mammals was varied from 0.172 (Station B) to 0.294 (Station D). St. A was considerable high BPI in reptiles/amphibians (0.323) and fish (0.333). The values of  $\beta$ -diversity for animals were varied from 0.164 for birds to 0.321 for fish. For the community as a whole, the values of  $\beta$ -diversity were the low.

**Keywords:** Berger-Parker's index, biodiversity, Jungcheon River, richness indices,  $\beta$ -diversity.