BIODIVERSITY OF KINGDOM ANIMALIA AT THE SONGJI RIVER IN SACHEON-CI, KOREA

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ABSTRACT

This study is to investigate the biodiversity of animal kingdoms at four regions on the SongjiRiver in Korea during 2015 season.Although this area was not wide, but the fauna were very diverse and the fauna at the Songji River during 2015 season was identified with a total of 153 taxa, representing six classes; Mammalia (mammals), Actinopterygii (bony fish), Aves (birds), Amphibia (amphibians), Reptilia (reptiles), and Cnidaria (invertebrates). Shannon-Weaver indices (H´) for birds and invertebrates at upper region were higher than those of low region.Berger-Parker's index (BPI) for reptiles/amphibianswas varied from 0.242 (Station D) to 0.333 (Station C). The values of ß-diversity for animals were varied from 0.210 for birdsto 0.250 for mammals. Although richness indices (R1-R2) for five animal kingdoms during seasons were different from each other, there were not shown significant differences ($p< 0.05$). Evenness indices (E1-E5) for five animal kingdoms were different from each other, however there were not shown significant differences ($p< 0.05$). For the community as a whole, the values of ß-diversity were the low (from 0.161 for St. D to 0.215 for St. A). Many artificial actions reduced the water's natural filtration action and eliminated the habitat of many animals.

Keywords: Animal kingdoms, biodiversity, richness indices,Shannon-Weaver indices, Songji River.