FLORA AND SPECIES DIVERSITY OF RIPARIAN ZONES AT JUNGSEONPO RIVER, SACHEON-CI PROVINCE, KOREA

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ABSTRACT

This study was carried out on Jungseonpo River, located at Sacheon-ci, Gyeongsangnam-do province in Korea. The aim of this study was to analyze the flora and species diversity of this river. Samples with quadrats are taken using a standard sampling unit of some kind. According to the existing phytosociological data, 25 families, 51 genera, 44 species, 6 varieties, and one form have been identified at the upper region. The total transformed Braun-Blanquet value and r-NCD at upper area were 152 and 1,688.9, respectively. Shannon diversity index (H') was varied from 0.65 (trees) to 3.30 (forbs). For the community as a whole, richness of trees was very low (0.91). The value of mean cover-abundance was total 9.6. The middle region was a total of 81 taxa, including 27 families, 64 genera, 74 species, 6 varieties, and one form. The low region was a total of 77 taxa, including 21 families, 58 genera, 72 species, four varieties, and one form. Naturalized plants were 27 species. When Jaccard's Index of Similarity (ISj) were applied to Jungseonpo River, the most similar sites were middle and low areas (ISj = 58.1%). The percent of naturalized plant species and urbanization index were 40.8% and 8.9%, respectively

Keywords: Braun-Blanquet, Jungseonpo River, naturalized plants, Shannon diversity index.