

Investigation of Species Diversity of Wetland Birds in Township Poldokhtar

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Abstract

Protecting wetlands and the life in them requires recognizing the biodiversity of these ecosystems. Waterfowl and shorebirds that are ecologically dependent on wetlands are used as environmental indicators. This research was conducted in the winter of 2021 in order to investigate the species diversity of wetland birds in Poldakhter city. Half-winter census data for a period of 13 years (2009-2020) was received from the General Environment Department of Lorestan province. Simpson's photo index and Simpson's dominance were used to investigate the species diversity of Poldakhter wetland birds. During the statistical period under review in Poldokhtar wetlands, 10 orders out of 19 orders, 16 families out of 84 is and 60 species out of 545 species identified in Iran were counted and recorded, which were 52.6 percent of the order, 19.04 percent of the family and about 11 percent, respectively. Iranian bird species have lived in Poldokhtar wetlands. 68.3 percent of Poldokhtar wetland bird species are in the category of unprotected and normal species, 26.67 Percent in the category of protected and protected species and 5 Percent that include species. Vanellus gregarius, the world's highest conservation species (CR), and Aythya ferina, a vulnerable species (VU), Phoenicopterus minor, and Phoenicopterus minor Oak duck (Aythya nyroca) live in correct the endangered species (NT) category. In Poldokhtar wetlands, 53.3percent of birds were wintering birds, 30 percent were migratory birds, 8.3 percent were summering and hatching birds, 6.7 percent were normal (four seasons) and only 1.7 percent were summering birds without hatching. The results of the investigation of species diversity indicators of Poldakhter wetland birds showed that the year 2013 had the lowest species uniformity and the year 2018 had the highest amount of species diversity. Therefore, Poldakhtar wetlands are one of the important wetland habitats in the region and play an important role in the migration of waterfowl and wintering waterfowl.

Keywords: Wetland, Species diversity, Wetland, Birds, Species diversity, Biological, diversity, Township Poldokhtar.