Identification of wintering birds of Yazd artificial wetland

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Abstract

In the present study, the wintering birds of the artificial wetlands of Yazd province in ۱۳۹۳, ۱۳۹۵ and ۱۳۹۶ were studied. This study is one of the first studies conducted with the aim of preventing the drying process of the wetland by emphasizing on maintaining water rights and protection of migratory birds in the artificial wetland of Yazd. Data from winter and autumn counts which were carried out in ۲۰۱٤, ۲۰۱٦, and ۲۰۱۷, were gathered and analyzed. In this study, ٤۸ bird species (۱۸ species of aquatic, ۱۸ species of waterside and ۱۲ species waterside) were identified. The highest numbers belonged to the *Fulica atra* (٥۲۸ individuals), *Sturnus vulgaris* (٥۰۰ individuals) and *Anas platyrhynchos* (۱۳۰ individuals) respectively. Among aquatic birds, the highest number of species were represented by the family of Scolopacidae (٦ species). Furthermore, the family of Rallidae represented the highest number (٥۳۱ individuals comprising of ۳ species). The highest and lowest numbers were ۲۷٥۰ and ۸۱۹ individuals in ۲۰۱۷ and ۲۰۱٦ respectively. The highest evenness was observed in ۲۰۱٦ (۰,٦۲) and the lowest in ۲۰۱٤ (۰,۳۹). The most diversity of Simpson and Shannon-Winer in ۲۰۱٦ were ٤,۳۲ and ۲,۰۱ respectively. This study has shown that the artificial wetland of Yazd, in addition to protecting and maintaining water birds, is also important for the conservation and providing habitats for terrestrial birds and thus protecting it should be of utmost importance.

Keywords: Species Diversity, Population, Migratory birds, artificial wetland of Yazd.

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