

## Identification of wintering birds of Yazd artificial wetland

Farideh Mahdianzadeh<sup>۱\*</sup>

Jalil Sarhangzadeh<sup>۲</sup>

Hojat Dehghan Dehnavi<sup>۳</sup>

۱. Master's Degree Graduate, Environmental Science, Habitats and Biodiversity, School of Environment, Faculty of Natural Resources, Yazd University, Yazd, Iran.

۲. Assistant Professor, School of Environment, Faculty of Natural Resources, Yazd University, Yazd, Iran.

۳. MSc. Environmental Sciences, Yazd Department of Education, Yazd, Iran.

\*Corresponding author:

faride.۲۱۲۷@gmail.com

Received date: ۲۰۲۰,۰۵,۱۲

Reception date: ۲۰۲۰,۰۶,۲۵

### 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 ۲۰۱۴, ۲۰۱۶, and ۲۰۱۷, were gathered and analyzed. In this study, ۴۸ bird species (۱۸ species of aquatic, ۱۸ species of waterside and ۱۲ species waterside) were identified. The highest numbers belonged to the *Fulica atra* (۵۲۸ individuals), *Sturnus vulgaris* (۵۰۰ individuals) and *Anas platyrhynchos* (۱۳۰ individuals) respectively. Among aquatic birds, the highest number of species were represented by the family of Scolopacidae (۶ species). Furthermore, the family of Rallidae represented the highest number (۵۳۱ individuals comprising of ۳ species). The highest and lowest numbers were ۲۷۵۰ and ۸۱۹ individuals in ۲۰۱۷ and ۲۰۱۶ respectively. The highest evenness was observed in ۲۰۱۶ (۰,۶۲) and the lowest in ۲۰۱۴ (۰,۳۹). The most diversity of Simpson and Shannon-Winer in ۲۰۱۶ were ۴,۳۲ 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.