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# **RESEARCH ARTICLE**

# SOME IMPORTANT MIGRATORY BIRDS OF ASAN BARRAGE WETLAND, DEHRADUN, UTTARAKHAND, INDIA

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#### **ARTICLE INFO**

#### ABSTRACT

As an Barrage has become first wetland from Uttarakhand, which is included in the prestigious Ramsar site list. This wetland is well known as a home of migratory birds and the present communication deals with some important of them.

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Asan Barrage, Wetland, Uttarakhand, Ramsar, Migratory, Communication, Important.

### **INTRODUCTION**

Asan Barrage a 444 hectare stretch. It is situated at the confluence of rivers Yamuna and Asan, and forms an important transition zone between riverine and forest ecosystems (Kumar *et al.*, 2018; RIS, 2020). It has been declared as "Wetland of International Importance" by the Ministry of Environment forests and climate change. Including it India has 75 Ramsar sites (PIB, 2020). Wetland is defined as a low laying area filled with water and provides a natural environment for a wide range of biodiversity (i.e. both flora and fauna) including birds (Bassi *et al.*, 2014). Here in the present article some important migratory birds are listed from this wetland of great importance.

## **MATERIAL AND METHODS**

The wetland was surveyed during the month of December, 2022. It is a small barrage which is located at northwest of Dehradun (Dakpathar) near Uttarakhand- Himachal border (Fig. 1) and is about 40 Kilometers away from heart of the Dehradun city at  $77^{\circ}39'56''$  Elongitude and  $30^{\circ}26'09''$  N latitude. The bird's diversity identified on the basis of relevant literature (Grimmet *et al.*, 2011; Balachandran *et al.*, 2018).

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Fig. 1. Location map of Asan barrage wetland, Dehradun (after Kumar *et al.*, 2018)

### **RESULTS AND DISCUSSION**

Based on the study it has been observed that almost all of them belong to class Anatidae and exhibits almost same pattern of feeding habits. Following observations have been made about them which are summarized in the Table 1.

#### Table 1. Some important migratory birds of Asan Barrage Ramsar site, Dehradun Uttarakhand

S.No.	Zoological Name	Common Name	Breeding Zone	Feeding Habit
1.	Anas acuta	Pintail	Great Britain and Northwest United	Seeds, rhizome of aquatic plants, small fishes and insects.
			States	
2.	Anas crecea	Common teal	Europe and Asia	Phytoplankton, small animals like snails and small fishes.
3.	Anas platyrhynchos	Mallard	Northern and Southern Hemispheres	Omnivorous, feed on plants like floating one.
4.	Aythya farina	Common pochard	Northern Europe and across the	Phytoplankton and small insects while floating on water.
			Palaearctic	
5.	Aythya fuligula	Tufled duck	Northern Europe	Molluscs, crustaceans, grayfish, snails, aquatic plants and
				insects.
6.	Fulica atra	Coot	South America, Europe and North	Plant debris, algae, seeds and fruits.
			America	
7.	Mareca penelope	Wigeon	Palaearctic and occasionally found in the	Phytoplankton and zooplankton, either in or out of the water
			Nearctic regions	such as duck sedge, duckweed and cattails.
8.	Mareca strepera	Gadwall	Northern areas of Europe and central	Feed on aquatic vegetation, weeds, seeds, shoots, roots,
			north America	tubers and leaves.
9.	Netta rufina	Red crested pochard	England	Phytoplankton, larvae and pupae present on rocks, aquatic
				animals, snails and crabs.
10.	Spatula clypeata	Shoveller	Europe and across Palearctic and across	Insects, crustaceans and seeds.
			most of North America	
11.	Tadorna ferruginea	Brahming duck	Northwest Africa and Ethiopia	Feed on grasses, young shoot of the plants, grains and
				aquatic plants. Small insects and molluscs



### CONCLUSION

Since the area is one of the attractions for bird watchers and ornithologists across the world. It is also a sensitive zone regarding climate change due to increase in tourism and construction in terms of development in the nearby areas, may cause ill effects such as increase in turbidity and change in pH of water. These effects may be responsible for the decline in the population of migratory birds. Seeing such sensitivity of the issue our government strict actions are highly required for the safeguard of the environment in the wetland area. Rules and regulations for tourism must be implemented at their real form to maintain sustainability in the area so that this treasure will remain spreading its beauty to its beholders.

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