INVENTORY OF AQUATIC BIRDS WITH SPECIAL REFERENCE TO URBAN AND DESERT WETLANDS, NORTH-WESTERN GUJARAT, INDIA

Sonali Patel and Nishith Dharaiya

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Abstract: Wetlands assume great significance as they hold 0.5% of all fresh water that circulates through the global hydrological cycle and sustains all life. Birds are always considered as the best indicators of wetlands. Bird counts and inventories are the significant components for monitoring a wetland. The present study was carried out as a part of a wetland monitoring programme during 2011 - 2012 in the scattered wetlands of arid and semi-arid land including the saline deserts of Kachchh, the north-western part of Gujarat, India. All of the 34 wetlands of the region have been surveyed, out of which 18 (53%) were urban wetlands and 16 (47%) were desert wetlands. Birds were observed by the direct visual count method. Data was classified according to family and residential status. A total of 92 species of aquatic and wetland obligatory birds were observed belonging to 21 families and 59 genera. The study shows that the desert wetlands revealed the higher congregation of 81 bird species due to the low biotic pressure and more availability of food to wintering waterfowl. Monitoring of migratory birds through regular bird counts and regulation of human activities in such wetlands were suggested for conservation of wetland obligatory birds and the management of wetland habitats in the region.

Keywords: arid zone, migratory birds, monitoring, urban wetland

Introduction:

All the aquatic birds of wild species, which are ecologically dependent on water are called wetland birds or waterfowl (Campbell and Lack 1985). According to this categorization, 273 species fall under the category waterfowls in India (Ali and Ripley 1983). Wetland birds are a good biological indicator of the human environment reflecting the health of the natural ecosystem and giving early warning of harmful

Sonali Patel and **Nishith Dharaiya:** Department of Life Science Hemchandracharya North Gujarat University Patan (Gujarat), India - 384 265 e-mail: Sonali Patel: es.sonali@gmail.com Nishith Dharaiya: nadharaiya@gmail.com changes. Migratory birds and their assemblage with other components of wetland may also provide several ideas for better wetland monitoring and management.

Wetlands assume great significance as they hold 0.5% of all fresh water that circulates through the global hydrological cycle and sustains all life. Wetlands perform key ecosystem functions that maintain the ecological integrity of wetland ecosystems. They provide a wildlife habitat, recharge ground water and deep aquifers, recycle nutrients, ameliorate downstream flooding, protect water quality and produce biomass (Ullah and Faulkner 2006). Wetlands also filter, clean and store water, and act like kidneys for other ecosystems. These wetlands also provide habitat to the large number of local and migratory waterfowls as

well as animals. These serve as well a number of important environmental functions. Urban wetland is highly degraded; nevertheless, ecologically it may still be providing a residual ecological service like flood storage or water quality improvement at moderate or greater levels (Gamble et al. 2007).

Many studies have been carried out on wetlands especially on wetland birds and their role in sustaining the aquatic ecosystems. The region of Gujarat of western India falls on the migratory route of many migratory birds migrating from Himalayas, Bangladesh etc. Due to the considerable congregation of migratory birds, two wetlands in Gujarat state, the Thole Lake of Mehsana district and Nalsarovar of Surendranagar district have been declared bird sanctuaries. Patel et al. (2007) have undergone a comparative study of avifaunal composition in these two bird sanctuaries and found a significant impact of the migratory bird community on the wetland ecosystem.

Apart from these sanctuaries, other areas of North eastern Gujarat also receive a significant number of migratory waterfowls. The present inventory has been carried out in Patan district of Gujarat. The land configuration of Patan district is semi arid to arid with some very important wetlands in the saline desert area. The important wetlands are visited regularly by migratory waterfowls. Being a semi arid zone, water scarcity has also encouraged people to build village ponds and check dams as a watershed management and conservation process. Such water bodies also provide habitats for a variety of resident and migratory water birds (Gajera et al. 2007).

The basic objective of this study was to identify such important water bodies in the district and prepare baseline data of the bird species with their residential status and feeding preference.

Materials and methods:

The study has been conducted in Patan district, located in the northern Gujarat between 20° 41' to 23° 55' North latitudes and 71° 31' to 72° 20' East longitude. The district is composed of seven sub districts (taluka), viz. Santalpur, Patan, Chanasma, Harij, Sami, Radhanpur and Sidhpur. We selected a total of 34 wetlands from the entire district for the survey (Fig. 1). The area of Patan district is semi arid to arid with some highly saline lands adjoining the Little Rann of Kachchh. The total geographical area of the district is around 5600 sq. km. The climate is typically a desert type with temperature ranging from 7 °C in winter and up to 45 °C in summer. The average rainfall recorded in the district is around 600 mm. According to the space application center (SAC) of ISRO, the major wetland categories in the district are Mud flats, Rivers/Streams. Reservoirs and Tanks/Ponds. The present study has been carried out in 34 wetlands in the urban and desert areas of Patan district. These wetlands are known to have a high number of migratory and resident waterfowls.

All the 34 wetlands were selected for data collection and visited during the migratory season during 2011-2012. Both desert and urban wetlands were regularly visited and the observations were recorded in the mornings between 6:00hrs to 9:00hrs and in the evenings between 16:00hrs to 18:00hrs. The birds were observed using 10 x 45 binoculars and a spotting scope. The species were counted by direct visual counts (Bhuva and Soni 1998) and identified using the standard reference book (Ali and Ripley 2011) to prepare a check list of the birds so that it serve as a baseline data for further study.

The species were also categorized into resident, migratory and resident-migratory status and their feeding guilds were recorded through standard references (Ali and Ripley 2011; Mukherjee 1995) to know the dependency of avifauna on the wetland and surroundings. Data analyses include the classification of bird species according to their family, migratory status and conservation status, which is compared for both urban and desert wetlands.



Figure no. 1 Map showing Patan district and the selected wetlands for survey

Results and discussion:

The present study is a preliminary survey of a long-term wetland monitoring programme (Asian Water Bird Census Programme) and it will continue for the next three years. In a preliminary study for the first year, we recorded a total of 92 species of wetland obligatory birds belonging to 21 different families and 59 genera (Tab. 1, Annexes).

Out of 34 wetlands surveyed 18 (52.94%) were categorized as urban wetlands as they are located in an urban area and used exclusively for domestic purposes, and 16 (47.06%) were categorized as desert wetland according to their location in the study area (Tab. 2).

The previous studies in the study area (Patel et al. 2007; Patel et al. 2008; Gajera et al. 2009) and some other records have suggested that Anatidae, Ardeidae, Scolopacidae, Accipitridae, Threskiornithidae and Recurvirostridae families are represented in the wetlands of arid to semi arid areas of Gujarat.

Table no. 2Number of wetlands classifiedaccording to their location

Total	Urban	Desert
wetlands	wetlands	Wetlands
34	18	16

In the present study, the Anatidae family has been reported as having the highest number of species in both urban and desert wetlands, followed by Ardeidae and Scolopacidae; however several other families are represented by either one or two species in the study sites (Fig. 2). Figure 2 also shows that 32 species have been found common to both urban and desert wetlands; whereas 49 species have been recorded wetlands. exclusively in desert The residential status of all recorded waterfowls

reveals that 46% of bird species are resident-migratory (Fig. 3). migratory, 43% are resident and 11% are



Figure no. 2 Family wise classification of aquatic birds recorded in urban and desert wetlands

Figure no. 3 Residential status of aquatic birds in the study area



■ Migatory ■ Resident ■ Resident-Migratory

Compared to the urban wetlands the congregation of water birds has been found more in desert wetlands due to less human disturbance as the urban wetlands in the study area are mainly used by villagers for various domestic purposes like bathing, washing of clothes, cattle bathing, fishing etc (Fig. 4). Some urban wetlands are also used for farming of water caltrop (*Trapa natans*) (locally called Shingada) and this might be

causing disturbance to the birds. The higher congregation of migratory water birds in desert wetlands (46%) reflects the importance of these wetlands for migratory waterfowls.

The wetlands in saline desert have displayed high productivity that provides ample food resources for macrofauna as well as the aquatic birds. Desert wetlands in the

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area support high number of prey and omnivorous bird species (Tab. 3).

Salinity in the water of desert wetlands increases in the post monsoon season resulting in higher primary productivity and macroinvertebrates in the wetlands attracting more numbers of birds (Gajera et al. 2012). High primary productivity and salinity enable the growth of aquatic plants, phytoplanktons and aquatic macrofauna (Rajesh et al. 2002).

Table no. 3	Feeding	guilds	of	aquatic	birds
in urban and dese	rt wetlan	ds			

		Species	
		Urban	Desert
nce		Wetlands	Wetlands
ere	Carnivores	27	51
refe	Herbivores	3	2
ЦĞ	Omnivores	13	28





Urban Wetlands Desert Wetlands

Conclusions:

Wetlands in the arid areas of Gujarat support a considerable number of resident and migratory water bird species. The desert wetlands show the high species richness compared with that of the urban water bodies due to more availability of food resources, less disturbance and high primary productivity. We highlight 10% of all the recorded bird species as threatened to nearly threatened as per the IUCN red list (ver. 3.1). 40% of the total are migratory and vulnerable species recorded from the desert wetlands during the study period. Hence, it is

also suggested that such wetlands need further attention with special emphasis on monitoring the migratory birds and lake productivity for better conservation and management practice.

Rezumat:

INVENTARUL PĂSĂRILOR ACVATICE CU REFERIRE LA ZONELE UMEDE URBANE ȘI ARIDE DIN NORD-VESTUL GUJARATULUI, INDIA

Mlaștinile au o mare semnificație deoarece ele detin 0.5% din totalul de apă dulce care circulă prin ciclul hidrologic global și susține întreaga viață. Păsările sunt întotdeauna considerate drept cei mai buni indicatori ai zonelor umede. Recensământul si inventarierea păsărilor sunt componente importante în monitorizarea unei zone umede. Prezentul studiu reprezintă o parte dintr-un program de monitorizare a zonelor umede, realizat între anii 2011-2012 în ecosistemele acvatice dispersate în tinuturile aride și semi-aride, incluzând și deșerturile saline de la Kachchh, din partea de nord-vest a Gujaratului, India. Toate cele 34 de ecosisteme acvatice ale regiunii au fost monitorizate, dintre care 18 (53%) sunt reprezentate de zone umede urbane și 16 (47%) zone umede desertice. Păsările au fost observate prin metoda de numărare vizuală directă. Datele au fost clasificate potrivit cu apartenența la o familie taxonomică și cu statutul rezidențial. Au fost semnalate un total de 92 de specii de păsări acvatice și specifice zonelor umede, apartinând la 21 de familii și 59 de genuri. Studiul indică faptul că ecosistemele acvatice desertice prezintă o concentrație de 81 specii de păsări ca urmare a unei presiuni biotice scăzute și a disponibilității unei mai mari resurse de hrană pentru păsările de apă pe timpul iernii. Monitorizarea păsărilor migratoare prin recensăminte regulate și reglementarea activităților antropice în astfel de zone umede, au fost sugerate pentru conservarea ecosistemelor acvatice în care păsările sunt prezente, precum și a managementului habitatelor acvatice din zonă.

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Annexes:

Table no. 1	Checklist of the birds recorded during the study period in the study area

1Little GrebeTachybaptus ruficollis2Great Crested GrebePodiceps cristatus3Black-necked GrebePodiceps nigricollis4Great White PelicanPelecanus onocrotalus5Dalmatian PelicanPelecanus crispus*6Great CormorantPhalacrocorax carbo7Indian CormorantPhalacrocorax fuscicollis8Little CormorantMicrocarbo niger9Oriental DarterAnhinga melanogaster**10Black-crowned Night-heronNycticorax nycticorax11Indian Pond-heronArdea grayii12Purple HeronArdea cinerea13Grey HeronArdea cinerea14Cattle EgretEgretta garzetta15Little EgretArdea intermedia16Intermediate EgretArdea alba17Great White EgretArdea alba18Yellow BitternIxobrychus sinensis19Black-headed IbisThreskiornis melanocephalus**21Asian OpenbillAnastomus oscitans22Black-headed IbisPlegadis falcinellus24Red-naped IbisPlegadis falcinellus25Glossy IbisPlegadis falcinellus26Eurasian SpoonbillPlatalea leucorodia27American FlamingoPhoenicopterus ruber28Lesser Whistling-duckDendrocygna javanica29Greylag GooseAnser anser30Rudy ShelduckTadorna ferruginea31African Comb Duck </th <th>No.</th> <th>Common name</th> <th>Scientific name</th>	No.	Common name	Scientific name
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11Indian Pond-heronArdeola grayii12Purple HeronArdea purpurea13Grey HeronArdea cinerea14Cattle EgretBubulcus ibis15Little EgretEgretta garzetta16Intermediate EgretArdea alba17Great White EgretArdea alba18Yellow BitternIxobrychus sinensis19Black BitternIxobrychus flavicollis20Painted StorkMycteria leucocephala**21Asian OpenbillAnastomus oscitans22Black-necked StorkEphippiorhynchus asiaticus**23Black-headed IbisThreskiornis melanocephalus24Red-naped IbisPlegadis falcinellus25Glossy IbisPlegadis falcinellus26Eurasian SpoonbillPlatalea leucorodia27American FlamingoPhoenicopterus ruber28Lesser Whistling-duckDendrocygna javanica29Greylag GooseAnser anser30Ruddy ShelduckTadorna ferruginea31African Comb DuckSarkidiornis melanotos32Eurasian WigeonMareca strepera34Common TealAnas crecca35MallardAnas poecilorhyncha37Northern PintailAnas acuta38GarganeySpatula querquedula39Northern ShovelerSpatula clypeata40Red-Crested PochardNetta rufina41Common PochardAythya ferina*	10	Black-crowned Night-heron	Nycticorax nycticorax
12Purple HeronArdea purpurea13Grey HeronArdea cinerea14Cattle EgretBubulcus ibis15Little EgretEgretta garzetta16Intermediate EgretArdea alba17Great White EgretArdea alba18Yellow BitternIxobrychus sinensis19Black BitternIxobrychus flavicollis20Painted StorkMycteria leucocephala**21Asian OpenbillAnastomus oscitans22Black-necked StorkEphippiorhynchus asiaticus**23Black-headed IbisThreskiornis melanocephalus24Red-naped IbisPseudibis papillosa25Glossy IbisPlegadis falcinellus26Eurasian SpoonbillPlatalea leucorodia27American FlamingoPhoenicopterus ruber28Lesser Whistling-duckDendrocygna javanica29Greylag GooseAnser anser30Ruddy ShelduckTadorna ferruginea31African Comb DuckSarkidiornis melanotos32Eurasian WigeonMareca strepera34Common TealAnas poecilorhyncha37Northern PintailAnas acuta38GarganeySpatula querquedula39Northern ShovelerSpatula querquedula39Northern ShovelerSpatula clypeata40Red-Crested PochardNetta rufina41Common PochardAythya ferina*	11	Indian Pond-heron	Ardeola grayii
13Grey HeronArdea cinerea14Cattle EgretBubulcus ibis15Little EgretEgretta garzetta16Intermediate EgretArdea alba17Great White EgretArdea alba18Yellow BitternIxobrychus sinensis19Black BitternIxobrychus flavicollis20Painted StorkMycteria leucocephala**21Asian OpenbillAnastomus oscitans22Black-necked StorkEphippiorhynchus asiaticus**23Black-headed IbisThreskiornis melanocephalus24Red-naped IbisPseudibis papillosa25Glossy IbisPlegadis falcinellus26Eurasian SpoonbillPlatalea leucorodia27American FlamingoPhoenicopterus ruber28Lesser Whistling-duckDendrocygna javanica29Greylag GooseAnser anser30Ruddy ShelduckTadorna ferruginea31African Comb DuckSarkidiornis melanotos32Eurasian WigeonMareca penelope33GadwallMareca strepera34Common TealAnas platyrhynchos36Indian Spot-billed DuckAnas platyrhynchos37Northern PintailAnas acuta38GarganeySpatula querquedula39Northern ShovelerSpatula querquedula39Northern ShovelerSpatula clypeata40Red-Crested PochardNetta rufina41Common PochardAythya ferina* </td <td>12</td> <td>Purple Heron</td> <td>Ardea purpurea</td>	12	Purple Heron	Ardea purpurea
14Cattle EgretBubulcus ibis15Little EgretEgretta garzetta16Intermediate EgretArdea intermedia17Great White EgretArdea alba18Yellow BitternIxobrychus sinensis19Black BitternIxobrychus flavicollis20Painted StorkMycteria leucocephala**21Asian OpenbillAnastomus oscitans22Black-necked StorkEphippiorhynchus asiaticus**23Black-necked StorkEphippiorhynchus asiaticus**24Red-naped IbisPseudibis papillosa25Glossy IbisPlegadis falcinellus26Eurasian SpoonbillPlatalea leucorodia27American FlamingoPhoenicopterus ruber28Lesser Whistling-duckDendrocygna javanica29Greylag GooseAnser anser30Ruddy ShelduckTadorna ferruginea31African Comb DuckSarkidiornis melanotos32Eurasian WigeonMareca strepera34Common TealAnas crecca35MallardAnas poecilorhyncha37Northern PintailAnas acuta38GarganeySpatula querquedula39Northern ShovelerSpatula clypeata40Red-Crested PochardNetta rufina41Common PochardAythya ferina*	13	Grey Heron	Ardea cinerea
15Little EgretEgretta garzetta16Intermediate EgretArdea intermedia17Great White EgretArdea alba18Yellow BitternIxobrychus sinensis19Black BitternIxobrychus flavicollis20Painted StorkMycteria leucocephala**21Asian OpenbillAnastomus oscitans22Black-necked StorkEphippiorhynchus asiaticus**23Black-headed IbisThreskiornis melanocephalus24Red-naped IbisPseudibis papillosa25Glossy IbisPlegadis falcinellus26Eurasian SpoonbillPlatalea leucorodia27American FlamingoPhoenicopterus ruber28Lesser Whistling-duckDendrocygna javanica29Greylag GooseAnser anser30Ruddy ShelduckTadorna ferruginea31African Comb DuckSarkidiornis melanotos32Eurasian WigeonMareca strepera34Common TealAnas crecca35MallardAnas poecilorhyncha37Northern PintailAnas acuta38GarganeySpatula querquedula39Northern ShovelerSpatula clypeata40Red-Crested PochardNetta rufina41Common PochardAythya ferina*	14	Cattle Egret	Bubulcus ibis
16Intermediate EgretArdea intermedia17Great White EgretArdea alba18Yellow BitternIxobrychus sinensis19Black BitternIxobrychus flavicollis20Painted StorkMycteria leucocephala**21Asian OpenbillAnastomus oscitans22Black-necked StorkEphippiorhynchus asiaticus**23Black-neaded IbisThreskiornis melanocephalus24Red-naped IbisPseudibis papillosa25Glossy IbisPlegadis falcinellus26Eurasian SpoonbillPlatalea leucorodia27American FlamingoPhoenicopterus ruber28Lesser Whistling-duckDendrocygna javanica29Greylag GooseAnser anser30Ruddy ShelduckTadorna ferruginea31African Comb DuckSarkidiornis melanotos32Eurasian WigeonMareca strepera34Common TealAnas crecca35MallardAnas crecca36Indian Spot-billed DuckAnas poecilorhyncha37Northern PintailAnas acuta38GarganeySpatula querquedula39Northern ShovelerSpatula clypeata40Red-Crested PochardNetta rufina41Common PochardAythya ferina*	15	Little Egret	Egretta garzetta
17Great White EgretArdea alba18Yellow BitternIxobrychus sinensis19Black BitternIxobrychus flavicollis20Painted StorkMycteria leucocephala**21Asian OpenbillAnastomus oscitans22Black-necked StorkEphippiorhynchus asiaticus**23Black-neaded IbisThreskiornis melanocephalus24Red-naped IbisPseudibis papillosa25Glossy IbisPlegadis falcinellus26Eurasian SpoonbillPlatalea leucorodia27American FlamingoPhoenicopterus ruber28Lesser Whistling-duckDendrocygna javanica29Greylag GooseAnser anser30Ruddy ShelduckTadorna ferruginea31African Comb DuckSarkidiornis melanotos32Eurasian WigeonMareca strepera34Common TealAnas crecca35MallardAnas platyrhynchos36Indian Spot-billed DuckAnas poecilorhyncha37Northern PintailAnas acuta38GarganeySpatula querquedula39Northern ShovelerSpatula clypeata40Red-Crested PochardNetta rufina41Common PochardAythya ferina*	16	Intermediate Egret	Ardea intermedia
18Yellow BitternIxobrychus sinensis19Black BitternIxobrychus flavicollis20Painted StorkMycteria leucocephala**21Asian OpenbillAnastomus oscitans22Black-necked StorkEphippiorhynchus asiaticus**23Black-necked StorkEphippiorhynchus asiaticus**24Red-naped IbisThreskiornis melanocephalus25Glossy IbisPlegadis falcinellus26Eurasian SpoonbillPlatalea leucorodia27American FlamingoPhoenicopterus ruber28Lesser Whistling-duckDendrocygna javanica29Greylag GooseAnser anser30Ruddy ShelduckTadorna ferruginea31African Comb DuckSarkidiornis melanotos32Eurasian WigeonMareca penelope33GadwallMareca strepera34Common TealAnas platyrhynchos36Indian Spot-billed DuckAnas poecilorhyncha37Northern PintailAnas acuta38GarganeySpatula querquedula39Northern ShovelerSpatula clypeata40Red-Crested PochardNetta rufina41Common PochardAythya ferina*	17	Great White Egret	Ardea alba
19Black BitternIxobrychus flavicollis20Painted StorkMycteria leucocephala**21Asian OpenbillAnastomus oscitans22Black-necked StorkEphippiorhynchus asiaticus**23Black-headed IbisThreskiornis melanocephalus24Red-naped IbisPseudibis papillosa25Glossy IbisPlegadis falcinellus26Eurasian SpoonbillPlatalea leucorodia27American FlamingoPhoenicopterus ruber28Lesser Whistling-duckDendrocygna javanica29Greylag GooseAnser anser30Ruddy ShelduckTadorna ferruginea31African Comb DuckSarkidiornis melanotos32Eurasian WigeonMareca strepera34Common TealAnas platyrhynchos36Indian Spot-billed DuckAnas poecilorhyncha37Northern PintailAnas acuta38GarganeySpatula querquedula39Northern ShovelerSpatula clypeata40Red-Crested PochardNetta rufina41Common PochardAythya ferina*	18	Yellow Bittern	Ixobrychus sinensis
20Painted StorkMycteria leucocephala**21Asian OpenbillAnastomus oscitans22Black-necked StorkEphippiorhynchus asiaticus**23Black-headed IbisThreskiornis melanocephalus24Red-naped IbisPseudibis papillosa25Glossy IbisPlegadis falcinellus26Eurasian SpoonbillPlatalea leucorodia27American FlamingoPhoenicopterus ruber28Lesser Whistling-duckDendrocygna javanica29Greylag GooseAnser anser30Ruddy ShelduckTadorna ferruginea31African Comb DuckSarkidiornis melanotos32Eurasian WigeonMareca strepera34Common TealAnas crecca35MallardAnas poecilorhyncha36Indian Spot-billed DuckAnas acuta38GarganeySpatula querquedula39Northern ShovelerSpatula clypeata40Red-Crested PochardNetta rufina41Common PochardAythya ferina*	19	Black Bittern	Ixobrychus flavicollis
21Asian OpenbillAnastomus oscitans22Black-necked StorkEphippiorhynchus asiaticus**23Black-headed IbisThreskiornis melanocephalus24Red-naped IbisPseudibis papillosa25Glossy IbisPlegadis falcinellus26Eurasian SpoonbillPlatalea leucorodia27American FlamingoPhoenicopterus ruber28Lesser Whistling-duckDendrocygna javanica29Greylag GooseAnser anser30Ruddy ShelduckTadorna ferruginea31African Comb DuckSarkidiornis melanotos32Eurasian WigeonMareca strepera34Common TealAnas crecca35MallardAnas poecilorhyncha37Northern PintailAnas acuta38GarganeySpatula querquedula39Northern ShovelerSpatula clypeata40Red-Crested PochardNetta rufina41Common PochardAythya ferina*	20	Painted Stork	Mycteria leucocephala**
22Black-necked StorkEphippiorhynchus asiaticus**23Black-headed IbisThreskiornis melanocephalus24Red-naped IbisPseudibis papillosa25Glossy IbisPlegadis falcinellus26Eurasian SpoonbillPlatalea leucorodia27American FlamingoPhoenicopterus ruber28Lesser Whistling-duckDendrocygna javanica29Greylag GooseAnser anser30Ruddy ShelduckTadorna ferruginea31African Comb DuckSarkidiornis melanotos32Eurasian WigeonMareca strepera34Common TealAnas crecca35MallardAnas poecilorhyncha36Indian Spot-billed DuckAnas acuta38GarganeySpatula querquedula39Northern ShovelerSpatula clypeata40Red-Crested PochardNetta rufina41Common PochardAythya ferina*	21	Asian Openbill	Anastomus oscitans
23Black-headed IbisThreskiornis melanocephalus24Red-naped IbisPseudibis papillosa25Glossy IbisPlegadis falcinellus26Eurasian SpoonbillPlatalea leucorodia27American FlamingoPhoenicopterus ruber28Lesser Whistling-duckDendrocygna javanica29Greylag GooseAnser anser30Ruddy ShelduckTadorna ferruginea31African Comb DuckSarkidiornis melanotos32Eurasian WigeonMareca strepera34Common TealAnas crecca35MallardAnas platyrhynchos36Indian Spot-billed DuckAnas acuta38GarganeySpatula querquedula39Northern PintailAnas acuta39Northern ShovelerSpatula clypeata40Red-Crested PochardNetta rufina41Common PochardAythya ferina*	22	Black-necked Stork	Ephippiorhynchus asiaticus**
24Red-naped IbisPseudibis papillosa25Glossy IbisPlegadis falcinellus26Eurasian SpoonbillPlatalea leucorodia27American FlamingoPhoenicopterus ruber28Lesser Whistling-duckDendrocygna javanica29Greylag GooseAnser anser30Ruddy ShelduckTadorna ferruginea31African Comb DuckSarkidiornis melanotos32Eurasian WigeonMareca penelope33GadwallMareca strepera34Common TealAnas crecca35MallardAnas poecilorhyncha37Northern PintailAnas acuta38GarganeySpatula querquedula39Northern ShovelerSpatula clypeata40Red-Crested PochardNetta rufina41Common PochardAythya ferina*	23	Black-headed Ibis	Threskiornis melanocephalus
25Glossy IbisPlegadis falcinellus26Eurasian SpoonbillPlatalea leucorodia27American FlamingoPhoenicopterus ruber28Lesser Whistling-duckDendrocygna javanica29Greylag GooseAnser anser30Ruddy ShelduckTadorna ferruginea31African Comb DuckSarkidiornis melanotos32Eurasian WigeonMareca penelope33GadwallMareca strepera34Common TealAnas crecca35MallardAnas poecilorhyncha37Northern PintailAnas acuta38GarganeySpatula querquedula39Northern ShovelerSpatula clypeata40Red-Crested PochardNetta rufina41Common PochardAythya ferina*	24	Red-naped Ibis	Pseudibis papillosa
26Eurasian SpoonbillPlatalea leucorodia27American FlamingoPhoenicopterus ruber28Lesser Whistling-duckDendrocygna javanica29Greylag GooseAnser anser30Ruddy ShelduckTadorna ferruginea31African Comb DuckSarkidiornis melanotos32Eurasian WigeonMareca penelope33GadwallMareca strepera34Common TealAnas crecca35MallardAnas poecilorhyncha36Indian Spot-billed DuckAnas acuta38GarganeySpatula querquedula39Northern ShovelerSpatula clypeata40Red-Crested PochardNetta rufina41Common PochardAythya ferina*	25	Glossy Ibis	Plegadis falcinellus
27American FlamingoPhoenicopterus ruber28Lesser Whistling-duckDendrocygna javanica29Greylag GooseAnser anser30Ruddy ShelduckTadorna ferruginea31African Comb DuckSarkidiornis melanotos32Eurasian WigeonMareca penelope33GadwallMareca strepera34Common TealAnas crecca35MallardAnas poecilorhyncha36Indian Spot-billed DuckAnas acuta38GarganeySpatula querquedula39Northern ShovelerSpatula clypeata40Red-Crested PochardNetta rufina41Common PochardAythya ferina*	26	Eurasian Spoonbill	Platalea leucorodia
28Lesser Whistling-duckDendrocygna javanica29Greylag GooseAnser anser30Ruddy ShelduckTadorna ferruginea31African Comb DuckSarkidiornis melanotos32Eurasian WigeonMareca penelope33GadwallMareca strepera34Common TealAnas crecca35MallardAnas platyrhynchos36Indian Spot-billed DuckAnas poecilorhyncha37Northern PintailAnas acuta38GarganeySpatula querquedula39Northern ShovelerSpatula clypeata40Red-Crested PochardNetta rufina41Common PochardAythya ferina*	27	American Flamingo	Phoenicopterus ruber
29Greylag GooseAnser anser30Ruddy ShelduckTadorna ferruginea31African Comb DuckSarkidiornis melanotos32Eurasian WigeonMareca penelope33GadwallMareca strepera34Common TealAnas crecca35MallardAnas platyrhynchos36Indian Spot-billed DuckAnas poecilorhyncha37Northern PintailAnas acuta38GarganeySpatula querquedula39Northern ShovelerSpatula clypeata40Red-Crested PochardNetta rufina41Common PochardAythya ferina*	28	Lesser Whistling-duck	Dendrocygna javanica
30Ruddy ShelduckTadorna ferruginea31African Comb DuckSarkidiornis melanotos32Eurasian WigeonMareca penelope33GadwallMareca strepera34Common TealAnas crecca35MallardAnas platyrhynchos36Indian Spot-billed DuckAnas poecilorhyncha37Northern PintailAnas acuta38GarganeySpatula querquedula39Northern ShovelerSpatula clypeata40Red-Crested PochardNetta rufina41Common PochardAythya ferina*	29	Greylag Goose	Anser anser
31African Comb DuckSarkidiornis melanotos32Eurasian WigeonMareca penelope33GadwallMareca strepera34Common TealAnas crecca35MallardAnas platyrhynchos36Indian Spot-billed DuckAnas poecilorhyncha37Northern PintailAnas acuta38GarganeySpatula querquedula39Northern ShovelerSpatula clypeata40Red-Crested PochardNetta rufina41Common PochardAythya ferina*	30	Ruddy Shelduck	Tadorna ferruginea
32Eurasian WigeonMareca penelope33GadwallMareca strepera34Common TealAnas crecca35MallardAnas platyrhynchos36Indian Spot-billed DuckAnas poecilorhyncha37Northern PintailAnas acuta38GarganeySpatula querquedula39Northern ShovelerSpatula clypeata40Red-Crested PochardNetta rufina41Common PochardAythya ferina*	31	African Comb Duck	Sarkidiornis melanotos
33GadwallMareca strepera34Common TealAnas crecca35MallardAnas platyrhynchos36Indian Spot-billed DuckAnas poecilorhyncha37Northern PintailAnas acuta38GarganeySpatula querquedula39Northern ShovelerSpatula clypeata40Red-Crested PochardNetta rufina41Common PochardAythya ferina*	32	Eurasian Wigeon	Mareca penelope
34Common TealAnas crecca35MallardAnas platyrhynchos36Indian Spot-billed DuckAnas poecilorhyncha37Northern PintailAnas acuta38GarganeySpatula querquedula39Northern ShovelerSpatula clypeata40Red-Crested PochardNetta rufina41Common PochardAythya ferina*	33	Gadwall	Mareca strepera
35MallardAnas platyrhynchos36Indian Spot-billed DuckAnas poecilorhyncha37Northern PintailAnas acuta38GarganeySpatula querquedula39Northern ShovelerSpatula clypeata40Red-Crested PochardNetta rufina41Common PochardAythya ferina*	34	Common Teal	Anas crecca
36Indian Spot-billed DuckAnas poecilorhyncha37Northern PintailAnas acuta38GarganeySpatula querquedula39Northern ShovelerSpatula clypeata40Red-Crested PochardNetta rufina41Common PochardAythya ferina*	35	Mallard	Anas platyrhynchos
37Northern PintailAnas acuta38GarganeySpatula querquedula39Northern ShovelerSpatula clypeata40Red-Crested PochardNetta rufina41Common PochardAythya ferina*	36	Indian Spot-billed Duck	Anas poecilorhyncha
38GarganeySpatula querquedula39Northern ShovelerSpatula clypeata40Red-Crested PochardNetta rufina41Common PochardAythya ferina*	37	Northern Pintail	Anas acuta
39Northern ShovelerSpatula clypeata40Red-Crested PochardNetta rufina41Common PochardAythya ferina*	38	Garganey	Spatula querquedula
40Red-Crested PochardNetta rufina41Common PochardAythya ferina*	39	Northern Shoveler	Spatula clypeata
41 Common Pochard Aythya ferina*	40	Red-Crested Pochard	Netta rufina
	41	Common Pochard	Aythya ferina*

42	Ferruginous Duck	Aythya nyroca**
43	Tufted Duck	Aythya fuligula
44	Common Crane	Grus grus
45	Sarus Crane	Grus antigone*
46	Demoiselle Crane	Anthropoides virgo
47	White-breasted Waterhen	Amaurornis phoenicurus
48	Common Moorhen	Gallinula chloropus
49	Purple Swamphen	Porphyrio porphyrio
50	Common Coot	Fulica atra
51	Black-winged Stilt	Himantopus himantopus
52	Yellow-wattled Lapwing	Vanellus malarbaricus
53	White-tailed Lapwing	Vanellus leucurus
54	Red-wattled Lapwing	Vanellus indicus
55	Grey Plover	Pluvialis squatarola
56	Little Ringed Plover	Charadrius dubius
57	Black-tailed Godwit	Limosa limosa**
58	Bar-tailed Godwit	Limosa lapponica**
59	Far Eastern Curlew	Numenius madagascariensis***
60	Spotted Redshank	Tringa erythropus
61	Common Redshank	Tringa totanus
62	Marsh Sandpiper	Tringa stagnatilis
63	Common Greenshank	Tringa nebularia
64	Common Sandpiper	Actitis hypoleucos
65	Great Knot	Calidris tenuirostris ***
66	Dunlin	Calidris alpina
67	Curlew Sandpiper	Calidris ferruginea**
68	Ruff	Calidris pugnax
69	Pallas's Gull	Larus ichthyaetus
70	Little Gull	Hydrocoloeus minutus
71	Brown-headed Gull	Larus brunnicephalus
72	Black-headed Gull	Larus ridibundus
73	Common Gull-billed Tern	Gelochelidon nilotica
74	Caspian Tern	Hydroprogne caspia
75	River Tern	Sterna aurantia**
76	Little Tern	Sternula albifrons
77	Brahminy Kite	Haliastur indus
78	Pallas's Fish-eagle	Haliaeetus leucoryphus*
79	Pallid Harrier	Circus macrourus**
80	Western Marsh-harrier	Circus aeruginosus
81	Greater Spotted Eagle	Clanga clanga*
82	Stork-billed Kingfisher	Pelargopsis capensis
83	White-breasted Kingfisher	Halcyon smyrnensis
84	Black-capped Kingfisher	Halcyon pileata
85	Pied Kingfisher	Ceryle rudis
86	Wire-tailed Swallows	Hirundo smithii
87	Grey Wagtail	Motacilla cinerea
88	Bluethroat	Luscinia svecica
89	Black-winged Kite	Elanus caeruleus
90	Rufous-tailed Shrike	Lanius isabellinus
91	Black Kite	Milvus migrans
92	Green-backed Heron	Butorides striata

Note: * Vulnerable; ** Near Threatened; *** Endangered (IUCN Red List Ver. 3.1).

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