

Avian diversity along with Hanuman Langur troops in and around Jodhpur, Rajasthan

This note is an observation of avian diversity in Jodhpur, Rajasthan and the nearby area along with different sites of unimale bisexual troops of Hanuman Langur. A series of transects were laid in Jodhpur and nearby area for the survey of population dynamic and behavioural studies on Hanuman Langurs *Semnopithecus entellus*. Simultaneously, the bird diversity was also recorded during the field work. Birds were recorded by visual encounter and road transect survey protocols. For achieving the goals of

present study surveys were carried out from February 2017 to December 2018. For proper and reliable documentation, photographs of the birds were taken whenever possible. The species identification was based on field guides (Ali 1996; Grimmett et al. 1998).

During the study, a total of 112 species of birds belonging to 44 families were noted of which 95 species of birds are present, followed by 17 winter visitors (Fig.1). The maximum number of birds were observed

from family Accipitridae (10 species) followed by Ardeidae and Anatidae (7 species), Sturnidae and Motacillidae (6 species), Muscicapidae (5 species), Rallidae, Scolopacidae, Columbidae, Timaliidae and Corvidae (4 species in each) and Cuculidae, Alecdinidae and Hirundinidae (3 species in each), respectively. Twelve families with two species and 18 families were represented by single species each. Details of bird species, abundance status, conservation status are in Table 1.

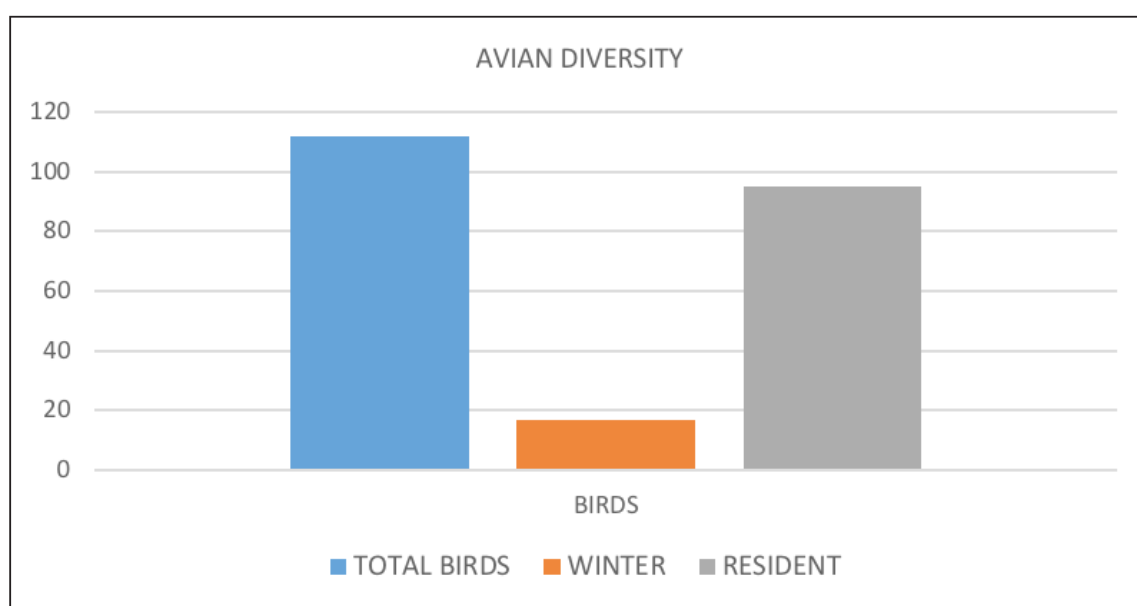


Fig. 1. Avian diversity status near Jodhpur during study period.

Table 1. Avian fauna observed in and around Jodhpur, Rajasthan, India.

	Name	Scientific Name	Habitat	Abundance	Residential status	Conservation Status
	Family-Podicipedidae					
1	Little Grebe	<i>Tachybaptus ruficollis</i>	WM/UA	C	Resident	LC
	Family-Phalacrocoracidae					
2	Large Cormorant	<i>Phalacrocorax carbo</i>	WM	NC	Resident	LC
3	Little Cormorant	<i>Phalacrocorax niger</i>	WM	C	Resident	LC
	Family-Ardeidae					
4	Grey Heron	<i>Ardea cinerea</i>	WM	NC	Resident	LC
5	Purple Heron	<i>Ardea purpurea</i>	WM	NC	Resident	LC
6	Indian Pond Heron	<i>Ardeo lagrayii</i>	WM	MC	Resident	LC
7	Cattle Egret	<i>Bubulcus ibis</i>	WM	MC	Resident	LC
8	Large Egret	<i>Casmerodius albus</i>	WM	NC	Resident	LC
9	Intermediate Egret	<i>Egretta intermedia</i>	WM	NC	Resident	LC
10	Little Egret	<i>Egretta garzetta</i>	WM/AF/ UA	C	Resident	LC
	Family-Ciconiidae					
11	Painted Stork	<i>Mycteria leucocephala</i>	WM	C	Winter	NT
12	Woolly-necked Stork	<i>Ciconia episcopus</i>	WM	R	Winter	VU
	Family-Threskiornithidae					
13	Black Ibis	<i>Pseudibis papillosa</i>	WM/AF	NC	Resident	LC
14	Eurasian Spoonbill	<i>Platalea leucorodia</i>	WM/AF	R	Winter	LC
	Family-Phoenicopteridae					
15	Greater Flamingo	<i>Phoenicopterus roseus</i>	WM	C	Winter	LC
	Family-Anatidae					
16	Northern Pintail	<i>Anas acuta</i>	WM	C	Winter	LC
17	Common Teal	<i>Anas crecca</i>	WM	MC	Resident	LC
18	Spot-billed Duck	<i>Anas poecilorhyncha</i>	WM	MC	Resident	LC
19	Northern Shoveler	<i>Anas clypeata</i>	WM	NC	Winter	LC
20	Common Pochard	<i>Aythya ferina</i>	WM	C	Resident	VU
21	Cotton Pygmy Goose	<i>Nettapus coromandelianus</i>	WM	R	Winter	LC
22	Comb Duck	<i>Sairkidiornis melanotos</i>	WM	NC	Resident	LC
	Family-Accipitridae					
23	Black-shouldered Kite	<i>Elanus axillaris</i>	AF/FA/UA	C	Resident	LC
24	Shikra	<i>Accipiter badius</i>	AF/FA/UA	MC	Resident	LC
25	Long-legged Buzzard	<i>Buteo rufinus</i>	FA	R	Resident	LC
26	Himalayan Griffon	<i>Gyps himalayensis</i>	FA	R	Resident	NT
27	Eurasian Griffon	<i>Gyps fulvus</i>	FA	R	Resident	LC
28	Cinereous Vulture	<i>Aegypius monachus</i>	FA	R	Resident	NT

	Name	Scientific Name	Habitat	Abundance	Residential status	Conservation Status
29	Red-headed Vulture	<i>Sarcogyps calvus</i>	FA	R	Winter	CR
30	Long-billed Vulture	<i>Gyps indicus</i>	FA	R	Resident	CR
31	Egyptian Vulture	<i>Neophron percnopterus</i>	AF/FA/UA	NC	Resident	EN
32	Short-toed Snake-Eagle	<i>Circaetus gallicus</i>	AF/FA/UA	NC	Winter	LC
	Family-Falconidae					
33	Kestrel	<i>Falco tinnunculus</i>	AF/FA	NC	Winter	LC
	Family-Phasianidae					
34	Grey Francolin	<i>Francolinus pondicerianus</i>	AF/FA	MC	Resident	LC
35	Indian Peafowl	<i>Pavo cristatus</i>	AF/FA/UA	C	Resident	LC
	Family-Gruidae					
36	Demoiselle Crane	<i>Anthropoides virgo</i>	WM/AF	MC	Winter	LC
	Family-Rallidae					
37	White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	WM	C	Resident	LC
38	Common Moorhen	<i>Gallinula chloropus</i>	WM	MC	Resident	LC
39	Purple Swampphen	<i>Porphyrio porphyrio</i>	WM	MC	Resident	LC
40	Common Coot	<i>Fulica atra</i>	WM	MC	Resident	LC
	Family-Jacaniidae					
41	Pheasant-tailed Jacana	<i>Hydrophasianus chirurgus</i>	WM	NC	Winter	LC
42	Bronze-winged Jacana	<i>Metopidius indicus</i>	WM	NC	Winter	LC
	Family-Recurvirostridae					
43	Black-winged Stilt	<i>Himantopus himantopus</i>	WM/AF/UA	C	Resident	LC
	Family-Charadriidae					
44	Red-wattled Lapwing	<i>Vanellus indicus</i>	WM/AF	MC	Resident	LC
	Family-Scolopacidae					
45	Common Redshank	<i>Tringa tetanus</i>	WM	NC	Resident	LC
46	Wood Sandpiper	<i>Tringa glareola</i>	WM	NC	Resident	LC
47	Common Sandpiper	<i>Actitis hypoleucos</i>	WM	C	Resident	LC
48	Common Snipe	<i>Gallinago gallinago</i>	WM/AF	NC	Resident	LC
	Family-Laridae					
49	River Tern	<i>Sterna aurantia</i>	WM	C	Resident	NT
50	Little Tern	<i>Sterna albifrons</i>	WM	NC	Resident	LC
	Family-Columbidae					
51	Green Pigeon	<i>Treron pompadora</i>	WM/AF/UA	NC	Resident	LC
52	Blue Rock Pigeon	<i>Columba livia</i>	WM/AF/UA	MC	Resident	LC

	Name	Scientific Name	Habitat	Abundance	Residential status	Conservation Status
53	Eurasian Collared-Dove	<i>Streptopelia decaocto</i>	WM/AF/UA	MC	Resident	LC
54	Laughing Dove	<i>Streptopelia senegalensis</i>	WM/AF/UA	MC	Resident	LC
	Family-Psittacidae					
55	Rose-ringed Parakeet	<i>Psittacula krameri</i>	AF/FA/UA	C	Resident	LC
	Family-Cuculidae					
56	Indian Cuckoo	<i>Clamator micropterus</i>	AF/FA	NC	Resident	LC
57	Asian Koel	<i>Eudynamys scolopacea</i>	AF/FA	C	Resident	LC
58	Greater Coucal	<i>Centropus sinensis</i>	FA	NC	Resident	LC
	Family-Strigidae					
59	Great-horned or Eagle-owl	<i>Bubo bubo</i>	AF/FA	NC	Resident	LC
60	Spotted Owlet	<i>Athene brama</i>	AF/FA	C	Resident	LC
	Family-Caprimulgidae					
61	Indian Nightjar	<i>Caprimulgus asiaticus</i>	FA/UA	NC	Resident	LC
	Family-Apodidae					
62	House Swift	<i>Apus affinis</i>	AF/FA	C	Resident	LC
	Family-Alecdinidae					
63	Common Kingfisher	<i>Alcedo atthis</i>	AF/FA	C	Resident	LC
64	White-throated Kingfisher	<i>Halcyon smyrnensis</i>	AF/FA/UA	MC	Resident	LC
65	Pied Kingfisher	<i>Ceryle rudis</i>	WA/AF/FA	NC	Resident	LC
	Family-Meropidae					
66	Green Bee-eater	<i>Merops orientalis</i>	AF/FA/UA	MC	Resident	LC
67	Blue-cheeked Bee-eater	<i>Merops persicus</i>	AF/FA	NC	Resident	LC
	Family-Coraciidae					
68	Indian Roller	<i>Coracias benghalensis</i>	AF/FA/UA	MC	Resident	LC
	Family-Upupidae					
69	Common Hoopoe	<i>Upupa epops</i>	AF/FA	C	Resident	LC
	Family-Picidae					
70	Eurasian Wryneck	<i>Jynx torquilla</i>	AF/FA	NC	Winter	LC
71	Lesser Goldenbackd Woodpecker	<i>Dinopium benghalense</i>	AF/FA	R	Resident	LC
	Family-Alaudidae					
72	Ashy-crowned Sparrow-Lark	<i>Eremopterix grisea</i>	AF/FA	C	Resident	LC
73	Common Crested Lark	<i>Galerida cristata</i>	AF/FA	R	Resident	LC
	Family-Hirundinidae					
74	Dusky Crag-Martin	<i>Hirundo concolor</i>	WM/FA/UA	NC	Resident	LC

	Name	Scientific Name	Habitat	Abundance	Residential status	Conservation Status
75	Wire-tailed Swallow	<i>Hirundo smithii</i>	WM/FA/UA	NC	Resident	LC
76	Red-rumped Swallow	<i>Hirundo daurica</i>	WM/FA/UA	NC	Resident	LC
	Family-Laniidae					
77	Bay-backed Shrike	<i>Lanius vittatus</i>	AF/FA	C	Winter	LC
78	Long-tailed Shrike	<i>Lanius schach</i>	AF/FA/UA	NC	Resident	LC
	Family-Dicruridae					
79	Black Drongo	<i>Dicrurus adsimilis</i>	AF/FA/UA	MC	Resident	LC
	Family-Sturnidae					
80	Brahminy Starling	<i>Sturnus pagodarum</i>	AF/FA/UA	MC	Resident	LC
81	Rosy Starling	<i>Sturnus roseus</i>	AF/FA/UA	C	Resident	LC
82	Common Starling	<i>Sturnus vulgaris</i>	FA	NC	Resident	LC
83	Asian Pied Starling	<i>Sturnus contra</i>	FA	C	Resident	LC
84	Common Myna	<i>Acridotheres tristis</i>	AF/FA/UA	C	Resident	LC
85	Bank myna	<i>Acridotheres ginginianus</i>	AF/FA/UA	C	Resident	LC
	Family-Corvidae					
86	Rufous Treepie	<i>Dendrocitta vagabunda</i>	AF/FA/UA	NC	Resident	LC
87	House Crow	<i>Corvus splendens</i>	AF/FA/UA	MC	Resident	LC
88	Jungle Crow	<i>Corvus macrorhynchos</i>	AF/FA	NC	Resident	LC
89	Raven	<i>Corvus corax</i>	FA	NC	Resident	LC
	Family-Pycnonotidae					
90	White-cheeked Bulbul	<i>Pycnonotus leucotis</i>	AF/FA/UA	C	Resident	LC
91	Red-vented Bulbul	<i>Pycnonotus cafer</i>	AF/FA/UA	MC	Resident	LC
	Family-Timaliidae					
92	Yellow-eyed Babbler	<i>Chrysomma sinense</i>	AF/FA	NC	Resident	LC
93	Common Babbler	<i>Turdoides caudatus</i>	AF/FA/UA	NC	Resident	LC
94	Jungle Babbler	<i>Turdoides striatus</i>	AF/FA/UA	C	Resident	LC
95	Large Grey Babbler	<i>Turdoides malcolmi</i>	AF/FA/UA	R	Resident	LC
	Family-Cisticolidae					
96	Common Tailorbird	<i>Orthotomus sutorius</i>	FA	NC	Resident	LC
	Family-Sylviidae					
97	Common Whitethroat	<i>Sylvia communis</i>	AF/FA/UA	R	Resident	LC
	Family-Phylloscopidae					
98	Common Chiffchaff	<i>Phylloscopus collybita</i>	AF/FA/UA	NC	Resident	LC
	Family-Muscicapidae					
99	Bluethroat	<i>Erithacus svecicus</i>	AF/FA/UA	NC	Winter	LC
100	Brown Rock Chat	<i>Cercomela fusca</i>	AF/FA	NC	Resident	LC
101	Pied Bushchat	<i>Saxicola caprata</i>	AF/FA	NC	Winter	LC
102	Desert Wheatear	<i>Oenanthe deserti</i>	AF/FA	C	Resident	LC

	Name	Scientific Name	Habitat	Abundance	Residential status	Conservation Status
103	Indian Robin	<i>Saxicoloides fulicata</i>	AF/FA/UA	MC	Resident	LC
	Family-Motacillidae					
104	Paddyfield Pipit	<i>Anthus rufulus</i>	WM/AF	C	Resident	LC
105	Yellow Wagtail	<i>Motacilla flava</i>	WM/AF	C	Resident	LC
106	Citrine Wagtail	<i>Motacilla citreola</i>	WM/AF	C	Resident	LC
107	Grey Wagtail	<i>Motacilla cinerea</i>	WM/AF	NC	Resident	LC
108	White Wagtail	<i>Motacilla alba</i>	WM/AF/UA	NC	Resident	LC
109	White-browed Wagtail	<i>Motacilla maderaspatensis</i>	WM/AF/UA	C	Resident	LC
	Family-Nectariniidae					
110	Purple Sunbird	<i>Nectarinia asiatica</i>	AF/FA/UA	NC	Resident	LC
	Family-Passeridae					
111	House Sparrow	<i>Passer domesticus indicus</i>	AF/FA/UA	MC	Resident	LC
	Family-Ploceidae					
112	Baya Weaver	<i>Ploceus philippinus</i>	AF/FA	NC	Resident	LC
MC: Most Common, C: Common, NC: Not Common and R: Rare WM/AF/FA/UA: All habitat Show, WM: Marsh / Wetland, AF: Agricultural Field, FA: Forest Areas and UA: Urbanized Areas LC: Least Concern, DD: Data Deficient, NT: Near Threatened, VU=Vulnerable						

References

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Arjun Singh¹, Hemant Kumawat²,
Goutam Sharma³ & L.S. Rajpurohit⁴

¹Research Scholar, Animal behaviour Unit, Department of Zoology, JNVU Jodhpur. Email: singharjunsolanki@gmail.com (corresponding author)

²Research scholar, Animal Behaviour Unit, Department of Zoology, JNVU Jodhpur. Email: hemantkumawat2007@gmail.com

³Research scholar, Animal Behaviour Unit, Department of Zoology, JNVU Jodhpur. Email: catchmeatgs@gmail.com

⁴Former HOD & Professor Department of Zoology, JNVU Jodhpur. Email: drlsrajpurohit@gmail.com

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