



## Supplementary Material

# Avian Richness, Assemblages and Migration Connectivity of Geese Species with Habitat Suitability in Wetlands of the Punjab, Pakistan

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### Supplementary Table SI. List of species recorded at wetlands of Punjab, Pakistan.

S. No.	Order/Family	Species	IUCN status*	Trend	Occurrence**
<b>Order: Passeriformes</b>					
1	Family: Cisticolidae	Ashy Prinia <i>Prinia socialis</i>	LC	Stable	YRR
2		Striated Prinia <i>Prinia crinigera</i>	LC	Stable	YRR
3		Yellow-bellied Prinia <i>Prinia flaviventris</i>	LC	Decreasing	YRR
4		Zitting Cisticola <i>Cisticola juncidis</i>	LC	Increasing	YRR
5		Plain Prinia <i>Prinia inornata</i>	LC	Stable	YRR
6		Graceful Prinia <i>Prinia gracilis</i>	LC	Stable	YRR
7		Rufous-fronted Prinia <i>Prinia buchanani</i>	LC	Stable	YRR
8	Family: Sturnidae	Common Myna <i>Acridotheres tristis</i>	LC	Increasing	YRR
9		Bank Myna <i>Acridotheres ginginianus</i>	LC	Increasing	YRR
10	Family: Hirundinidae	Barn Swallow <i>Hirundo rustica</i>	LC	Decreasing	WM
11	Family: Laniidae	Bay-backed Shrike <i>Lanius vittatus</i>	LC	Stable	YRR
12		Rufous-tailed Shrike <i>Lanius isabellinus</i>	LC	Unknown	WM
13	Family: Dicruridae	Black Drongo <i>Dicrurus macrocercus</i>	LC	Unknown	YRR
14	Family: Motacillidae	White-browed Wagtail <i>Motacilla maderaspatensis</i>	LC	Stable	YRR
15		Yellow Wagtail <i>Motacilla flava</i>	LC	Decreasing	PM
16		White Wagtail <i>Motacilla alba</i>	LC	Stable	WM
17		Citrine Wagtail <i>Motacilla citreola</i>	LC	Increasing	WM
18		Water Pipit <i>Anthus spinoletta</i>	LC	Stable	WM
19	Family: Hirundinidae	Wire-tailed Swallow <i>Hirundo smithii</i>	LC	Increasing	SB
20		Streaked-throated Swallow <i>Hirundo fluvicola</i>	LC	Increasing	YRR

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Order/Family	Species	IUCN status*	Trend	Occurrence**
Family: Acrocephalidae	Clamorous Reed Warbler <i>Acrocephalus stentoreus</i>	LC	Stable	WM
Family: Muscicapidae	Blue Throat <i>Luscinia svecica</i>	LC	Stable	WM
	Common Stonechat <i>Saxicola torquatus</i>	LC	Stable	PM
	Indian Robin <i>Copsychus fulicatus</i>	LC	Stable	YRR
Family: Leiothrichidae	Common Babbler <i>Turdoides caudatus</i>	LC	Stable	YRR
Family: Phylloscopidae	Common Chiffchaff <i>Phylloscopus collybita</i>	LC	Increasing	WM
Family: Alaudidae	Crested Lark <i>Galerida cristata</i>	LC	Decreasing	YRR
Family: Corvidae	House Crow <i>Corvus splendens</i>	LC	Stable	YRR
Family: Passeridae	House Sparrow <i>Passer domesticus</i>	LC	Decreasing	YRR
Family: Muscicapidae	Pied Bushchat <i>Saxicola caprata</i>	LC	Stable	YRR
Family: Pycnonotidae	Red-vented Bulbul <i>Pycnonotus cafer</i>	LC	Increasing	YRR
Family: Pellorneidae	Rufous-vented Prinia <i>Prinia burnesii</i>	NT	Decreasing	YRR
Family: Pycnonotidae	White-eared Bulbul <i>Pycnonotus leucotis</i>	LC	Decreasing	YRR
<b>Order: Anseriformes</b>				
Family: Anatidae	Gadwall <i>Anas strepera</i>	LC	Increasing	WM
	Garganey <i>Anas querquedula</i>	LC	Decreasing	WM
	Bar-headed Goose <i>Anser indicus</i>	LC	Decreasing	WM
	Common Teal <i>Anas crecca</i>	LC	Unknown	WM
	Cotton Pygmy- Goose <i>Nettapus coromandelianus</i>	LC	Stable	WM
	Common Shelduck <i>Tadorna tadorna</i>	LC	Increasing	WM
	Comb Duck <i>Sarkidiornis melanotos</i>	LC	Decreasing	WM
	Eurasian Wigeon <i>Anas penelope</i>	LC	Decreasing	WM
	Common Pochard <i>Aythya ferina</i>	VU	Decreasing	WM
	Falcated Duck <i>Anas falcata</i>	NT	Decreasing	V
	Common Merganser <i>Mergus merganser</i>	LC	Increasing	PM
	Greater White-fronted Goose <i>Anser albifrons</i>	LC	Unknown	WM
	Common Goldeneye <i>Bucephala clangula</i>	LC	Stable	WM
	Greylag Goose <i>Anser anser</i>	LC	Increasing	WM
	Lesser Whistling Duck <i>Dendrocygna javanica</i>	LC	Decreasing	SB
	Lesser White-fronted Goose <i>Anser erythropus</i>	VU	Decreasing	V
	Northern Pintail <i>Anas acuta</i>	LC	Decreasing	WM
	Northern Shoveler <i>Anas clypeata</i>	LC	Decreasing	WM
	Mallard <i>Anas platyrhynchos</i>	LC	Increasing	WM
	Marbled Duck <i>Marmaronetta angustirostris</i>	VU	Decreasing	WM
	Red-crested Pochard <i>Netta rufina</i>	LC	Unknown	WM
	Ruddy Shelduck <i>Tadorna ferruginea</i>	LC	Unknown	WM
	Tufted Duck <i>Aythya fuligula</i>	LC	Stable	WM
	White-headed Duck <i>Oxyura leucocephala</i>	EN	Decreasing	WM
	Spot-billed Duck <i>Anas poecilorhyncha</i>	LC	Decreasing	WM
<b>Order: Charadriiformes</b>				
Family: Laridae	Black-bellied Tern <i>Sterna acuticauda</i>	EN	Decreasing	WM
	Indian Skimmer <i>Rynchops albicollis</i>	VU	Decreasing	SB
	Pallas's Gull <i>Larus ichthyaetus</i>	LC	Increasing	WM
	River Tern <i>Sterna aurantia</i>	NT	Decreasing	YRR

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Order/Family	Species	IUCN status*	Trend	Occurrence**
	Little Tern <i>Sterna albifrons</i>	LC	Decreasing	SB
	White-winged Tern <i>Chlidonias leucopterus</i>	LC	Stable	V
	Whiskered Tern <i>Chlidonias hybridus</i>	LC	Stable	PM
	Gull-billed Tern <i>Gelochelidon nilotica</i>	LC	Decreasing	WM
	Common Tern <i>Sterna hirundo</i>	LC	Unknown	SB
	Brown-headed Gull <i>Larus brunnicephalus</i>	LC	Stable	WM
	Caspian Gull <i>Larus cachinnans</i>	LC	Increasing	WM
	Black-headed Gull <i>Larus ridibundus</i>	LC	Unknown	WM
Family: Scolopaciidae	Black-tailed Godwit <i>Limosa limosa</i>	NT	Decreasing	WM
	Common Redshank <i>Tringa totanus</i>	LC	Unknown	WM
	Marsh Sandpiper <i>Tringa stagnatilis</i>	LC	Decreasing	WM
	Curlew Sandpiper <i>Calidris ferruginea</i>	NT	Decreasing	PM
	Green Sandpiper <i>Tringa ochropus</i>	LC	Increasing	WM
	Ruff <i>Philomachus pugnax</i>	LC	Decreasing	PM
	Wood Sandpiper <i>Tringa glareola</i>	LC	Stable	WM
	Spotted Redshank <i>Tringa erythropus</i>	LC	Stable	WM
	Red-necked Phalarope <i>Phalaropus lobatus</i>	LC	Decreasing	WM
	Jack Snipe <i>Lymnocyptes minimus</i>	LC	Stable	WM
	Ruddy Turnstone <i>Arenaria interpres</i>	LC	Decreasing	WM
	Eurasian Curlew <i>Numenius arquata</i>	NT	Decreasing	WM
	Dunlin <i>Calidris alpina</i>	LC	Decreasing	WM
	Temminck's Stint <i>Calidris temminckii</i>	LC	Unknown	WM
	Little Stint <i>Calidris minuta</i>	LC	Increasing	WM
	Common Greenshank <i>Tringa nebularia</i>	LC	Stable	WM
	Common Sandpiper <i>Actitis hypoleucos</i>	LC	Decreasing	WM
	Common Snipe <i>Gallinago gallinago</i>	LC	Decreasing	WM
Family: Charadriidae	Great Sand Plover <i>Charadrius leschenaultii</i>	LC	Decreasing	WM
	Northern Lapwing <i>Vanellus vanellus</i>	NT	Decreasing	WM
	Grey Plover <i>Pluvialis squatarola</i>	LC	Decreasing	WM
	Little Ringed Plover <i>Charadrius dubius</i>	LC	Stable	WM
	Sociable Lapwing <i>Vanellus gregarius</i>	CR	Decreasing	WM
	White-tailed Lapwing <i>Vanellus leucurus</i>	LC	Unknown	WM
	Red-wattled Lapwing <i>Vanellus indicus</i>	LC	Stable	YRR
	Kentish Plover <i>Charadrius alexandrinus</i>	LC	Decreasing	WM
Family: Glareolidae	Cream-colored Courser <i>Cursorius cursor</i>	NT	Unknown	WM
	Indian Courser <i>Cursorius coromandelicus</i>	LC	Stable	WM
	Small Pratincole <i>Glareola lactea</i>	LC	Unknown	SB
	Oriental Pratincole <i>Glareola maldivarum</i>	LC	Decreasing	V
Family: Burhinidae	Eurasian Thick-knee <i>Burhinus oedienemus</i>	LC	Decreasing	YRR
	Great Thick-knee <i>Esacus recurvirostris</i>	NT	Decreasing	YRR
Family: Recurvirostridae	Pied Avocet <i>Recurvirostra avosetta</i>	LC	Unknown	WM
	Black-winged Stilt <i>Himantopus himantopus</i>	LC	Increasing	YRR
	Greater Painted Snipe <i>Rostratula benghalensis</i>	LC	Decreasing	WM
Family: Jacanidae	Pheasant-tailed Jacana <i>Hydrophasianus chirurgus</i>	LC	Decreasing	YRR

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Order/Family	Species	IUCN status*	Trend	Occurrence**	
<b>Order: Accipitriformes</b>					
Family: Accipitridae	Black Kite <i>Milvus migrans</i>	LC	Unknown	YRR	
	Greater Spotted Eagle <i>Aquila clanga</i>	VU	Decreasing	WM	
	Shikra <i>Accipiter badius</i>	LC	Stable	YRR	
	Black-shouldered Kite <i>Elanus caeruleus</i>	LC	Stable	YRR	
	Brahminy Kite <i>Haliastur indus</i>	LC	Decreasing	YRR	
	Pallas's Fish Eagle <i>Haliaeetus leucoryphus</i>	EN	Decreasing	YRR	
	Pallid Harrier <i>Circus macrourus</i>	NT	Decreasing	WM	
	Steppe Eagle <i>Aquila nipalensis</i>	EN	Decreasing	WM	
	Montagu's Harrier <i>Circus pygargus</i>	LC	Decreasing	WM	
	Eurasian Marsh Harrier <i>Circus aeruginosus</i>	LC	Increasing	WM	
	Eurasian Sparrowhawk <i>Accipiter nisus</i>	LC	Stable	WM	
	Eurasian Griffon <i>Gyps fulvus</i>	LC	Increasing	WM	
	Family: Pandionidae	Osprey <i>Pandion haliaetus</i>	LC	Increasing	WM
<b>Order: Gruiformes</b>					
Family: Rallidae	Common Coot <i>Fulica atra</i>	LC	Increasing	WM	
	Baillon's Crake <i>Porzana pusilla</i>	LC	Unknown	WM	
	Ruddy-breasted Crake <i>Porzana fusca</i>	LC	Decreasing	WM	
	White-breasted Waterhen <i>Amaurornis phoenicurus</i>	LC	Unknown	YRR	
	Little Crake <i>Porzana parva</i>	LC	Stable	WM	
	Spotted Crake <i>Porzana porzana</i>	LC	Stable	WM	
	Purple Swampphen <i>Porphyrio porphyrio</i>	LC	Unknown	YRR	
	Water Rail <i>Rallus aquaticus</i>	LC	Decreasing	WM	
	Brown Crake <i>Amaurornis akool</i>	LC	Unknown	YRR	
	Watercock <i>Gallicrex cinerea</i>	LC	Decreasing	SB	
	Common Moorhen <i>Gallinula chloropus</i>	LC	Stable	YRR	
	Family: Gruidae	Common Crane <i>Grus grus</i>	LC	Increasing	PM
		Demoiselle Crane <i>Grus virgo</i>	LC	Increasing	PM
<b>Order: Pelecaniformes</b>					
Family: Ardeidae	Black Bittern <i>Dupetor flavicollis</i>	LC	Decreasing	YRR	
	Cattle Egret <i>Bubulcus ibis</i>	LC	Increasing	YRR	
	Western Reef Egret <i>Egretta gularis</i>	LC	Stable	YRR	
	Yellow Bittern <i>Ixobrychus sinensis</i>	LC	Unknown	YRR	
	Little Heron <i>Butorides striatus</i>	LC	Decreasing	YRR	
	Purple Heron <i>Ardea purpurea</i>	LC	Decreasing	YRR	
	Cinamon Bittern <i>Ixobrychus cinnamomeus</i>	LC	Stable	YRR	
	Black-crowned Night Heron <i>Nycticorax nycticorax</i>	LC	Decreasing	YRR	
	Great Egret <i>Casmerodius albus</i>	LC	Unknown	YRR	
	Little Bittern <i>Ixobrychus minutus</i>	LC	Decreasing	YRR	
	Little Egret <i>Egretta garzetta</i>	LC	Increasing	YRR	
	Grey Heron <i>Ardea cinerea</i>	LC	Unknown	YRR	

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Order/Family	Species	IUCN status*	Trend	Occurrence**
	Indian Pond Heron <i>Ardeola grayii</i>	LC	Unknown	YRR
	Great Bittern <i>Botaurus stellaris</i>	LC	Decreasing	WM
Family: Pelecanidae	Dalmatian Pelican <i>Pelecanus crispus</i>	NT	Decreasing	YRR
	Great White Pelican <i>Pelecanus onocrotalus</i>	LC	Unknown	YRR
Family: Threskiornithidae	Glossy Ibis <i>Plegadis falcinellus</i>	LC	Decreasing	PM
	Eurasian Spoonbill <i>Platalea leucorodia</i>	LC	Unknown	WM
<b>Order: Ciconiiformes</b>				
Family: Ciconiidae	White Stork <i>Ciconia ciconia</i>	LC	Increasing	PM
	Woolly-necked Stork <i>Ciconia episcopus</i>	VU	Decreasing	V
	Black Stork <i>Ciconia nigra</i>	LC	Unknown	PM
	Painted Stork <i>Mycteria leucocephala</i>	NT	Decreasing	YRR
	Black-necked Stork <i>Ephippiorhynchus asiaticus</i>	NT	Decreasing	PM
<b>Order: Coraciiformes</b>				
Family: Alcedinidae	Black-capped Kingfisher <i>Halcyon pileata</i>	LC	Decreasing	V
	Common Kingfisher <i>Alcedo atthis</i>	LC	Unknown	YRR
	White-throated Kingfisher <i>Halcyon smyrnensis</i>	LC	Increasing	YRR
	Crested Kingfisher <i>Megaceryle lugubris</i>	LC	Decreasing	YRR
	Pied Kingfisher <i>Ceryle rudis</i>	LC	Unknown	YRR
<b>Order: Falconiformes</b>				
Family: Falconidae	Eurasian Hobby <i>Falco subbuteo</i>	LC	Decreasing	WM
	Peregrine Falcon <i>Falco peregrinus</i>	LC	Stable	WM
	Red-necked Falcon <i>Falco chicquera</i>	NT	Decreasing	YRR
	Common Kestrel <i>Falco tinnunculus</i>	LC	Decreasing	WM
<b>Order: Suliformes</b>				
Family: Phalacrocoracidae	Great Cormorant <i>Phalacrocorax carbo</i>	LC	Increasing	YRR
Family: Anhingidae	Oriental Darter <i>Anhinga melanogaster</i>	NT	Decreasing	YRR
Family: Phalacrocoracidae	Little Cormorant <i>Phalacrocorax niger</i>	LC	Unknown	WM
	Indian Cormorant <i>Phalacrocorax fuscicollis</i>	LC	Unknown	YRR
<b>Order: Podicipediformes</b>				
Family: Podicipedidae	Red-necked Grebe <i>Podiceps grisegena</i>	LC	Decreasing	V
	Little Grebe <i>Tachybaptus ruficollis</i>	LC	Decreasing	YRR
	Great Crested Grebe <i>Podiceps cristatus</i>	LC	Unknown	WM
	Black-necked Grebe <i>Podiceps nigricollis</i>	LC	Unknown	WM
<b>Order: Phoenicopteriformes</b>				
Family: Phoenicopteridae	Greater Flamingo <i>Phoenicopterus ruber</i>	LC	Increasing	PM
	Lesser Flamingo <i>Phoenicopterus minor</i>	NT	Decreasing	PM
<b>Order: Bucerotiformes</b>				
Family: Bucerotidae	Fulvous Whistling-duck <i>Dendrocygna bicolor</i>	LC	Decreasing	V

\*IUCN, International Union for Conservation of Nature; LC, Least Concern; NT, Near Threatened; VU, Vulnerable; EN, Endangered; CR, Critically Endangered. \*\*YRR, Year-Round Resident; WM, Winter Migrant; SB, Summer Breeder; V, Vagrant; PM, Passage Migrant.

**Supplementary Table SII. Species diversity at thirty wetlands.**

Sr. No.	Species	Chashma	Jahlar	Khabakki	Taunsa	Uchalli	Bajwat	Baeri wali lake	Dhok Kutab Din dam	Dhok Talian dam	Dhurabi dam	Ghamaghar lake	Head Islam	Indus game reserve	Jar Wali lake	Kalar Kahar lake	Kharral lake	Khokhar Zair dam	Kot Raja dam	Kutty Wali lake	Lal Suhanra lake	Marala headworks	Nammal lake	Qadirabad barrage	Qadirabad link canal	Rangla lake	Rasul barrage	Rawal lake	Shahpur dam	Simli dam	Soan river
1	Ashy Prinia <i>Prinia socialis</i>	59	9	3	5	3	23	13	3	8	18	9	3	30	8	48	5	21	8	3	11	113	61	35	24	25	35	36	19	19	23
2	Bailon's Crake <i>Porzana pusilla</i>				5		9					3	1	12		8					7	3		5	3			3		3	
3	Bank Myna <i>Acridotheres tristis</i>	68	9	6	174	31	444	19	7	23	32	19	29	292	21	441	21	305	353	31	33	752	539	389	735	203	503	569	166	293	276
4	Bar-headed Goose <i>Anser indicus</i>	110			19		786							351			1148					1148		187	5		42	15	19	19	
5	Barn Swallow <i>Hirundo rustica</i>	103	9	16	10	23	109	18	21	11	20	8	7	92	7	217	3	218	19	23	25	353	171	294	73	23	35	39	43	25	34
6	Bay-backed Shrike <i>Lanius vittatus</i>		9	4	3	7	30	9		2	7	3	3	25	7	6	5	4	5	3	3	19	26	20	9	3	5	5	5	5	15
7	Black Bittern <i>Depetor flavi-collis</i>				5		22					3	1	8		11								9	9		2	2	2	5	
8	Black Drongo <i>Dicrurus macrocercus</i>	68	8	9	12	7	115	11	5	9	1	3	3	37	20	25	7	27	19	8	7	31	198	35	35	9	15	21	9	22	34
9	Black Kite <i>Milvus milvus</i>	167	19	17	60	32	129	29	2	18	28	39	28	425	32	336	18	291	291	45	131	693	843	157	535	170	318	218	285	330	184
10	Black Stork <i>Ciconia nigra</i>				9		7						7				1	1	5	3						2	7	7	3	3	
11	Black-bellied Tern <i>Sterna acuticauda</i>	13	9	5	5	19	9	2	5	3	1	17	8	19	3	3	3	3	3	5	5	5	5	5	5	5	5	3	7	7	9
12	Black-capped Kingfisher <i>Halcyon pileata</i>				2		1						1	5												6		2			

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## Habitat Suitability of Geese Species in Punjab, Pakistan

Sr. No.	Species	Chashma	Jahlar	Khabakki	Taunsa	Uchalli	Bajwat	Baeri wali lake	Dhok Kutab Din dam	Dhok Talian dam	Dhurabi dam	Ghamaghar lake	Head Islam	Indus game reserve	Jar Wali lake	Kalar Kahar lake	Kharral lake	Khokhar Zair dam	Kot Raja dam	Kutty Wali lake	Lal Suhanra lake	Marala headworks	Nammal lake	Qadirabad barrage	Qadirabad link canal	Rangla lake	Rasul barrage	Rawal lake	Shahpur dam	Simli dam	Soan river	
13	Black-crowned Night Heron <i>Nycticorax nycticorax</i>	167	10	27	25	8	29	9	3	7	21	7	3	61	13	41	3	55	27	19	7	153	145	253	204	42	195	162	159	147	264	
14	Black-headed Gull <i>Larus ridibundus</i>	130		25	78	6	18			9	5	7	1	15	5	13	3		3			12	9	11	21	3	3	7	10	9	5	
15	Black-necked Grebe <i>Podiceps nigricollis</i>	4		1	3		3			2			1	7	5							5	7	3	1			3			2	
16	Black-necked Stork <i>Ephippiorhynchus asiaticus</i>						11							5		9	1					7		7			2				5	
17	Black-shouldered Kite <i>Elanus caeruleus</i>	19	7	3	7	5	20	2	2	3	2	3	3	22	4	5	5	5	5	5	3	3	8	9	5	3	3	4	3	3	4	3
18	Black-tailed Godwit <i>Limosa limosa</i>	6	4	9	5	6	88	3	4	2	9	3	1	9	11	13	1	19	10	9	5	32	20	24	25	21	18	28	39	29	20	
19	Black-winged Stilt <i>Himantopus himantopus</i>	263	67	43	432	324	115	31	19	18	17	29	21	381	43	217	5	193	260	37	23	202	164	265	346	203	294	219	297	193	195	
20	Blue Throat Lark <i>Luscinia svecica</i>	19	6		29	2	19	3		2		7	1	23	7	8	3	8	8	3	7	18	36	24	21	8		9			10	
21	Brahminy Kite <i>Haliaeetus indus</i>				3		2			2		2	1	15																		3
22	Brown Crake <i>Amaurornis akool</i>						18			2		2	3	13	5	5					3	9		5	9		2	2			3	2
23	Brown-headed Gull <i>Larus brunicephalus</i>	37	3	37	5	10				7		2	1	7								291	8	10	5		3	8			8	

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Sr. No.	Species	Chashma	Jahlar	Khabakki	Taunsa	Uchalli	Bajwat	Baeri wali lake	Dhok Kutab Din dam	Dhok Talian dam	Dhurabi dam	Ghamaghar lake	Head Islam	Indus game reserve	Jar Wali lake	Kalar Kahar lake	Kharral lake	Khokhar Zair dam	Kot Raja dam	Kutty Wali lake	Lal Suhanra lake	Marala headworks	Nammal lake	Qadirabad barrage	Qadirabad link canal	Rangla lake	Rasul barrage	Rawal lake	Shahpur dam	Simli dam	Soan river
24	Caspian Gull <i>Larus cachinnans</i>	5	3	3	13	9	20	15	2	3	5	1	5	5	5	13	1	9	8	8	8	3	5	9	8	3	5	3	5	9	9
25	Cattle Egret <i>Bubulcus ibis</i>	265	9	21	74	65	191	23	14	13	11	18	17	169	53	205	5	22	147	19	31	931	252	354	210	203	252	152	43	162	295
26	Chamnon Bittern <i>Ixobrychus cinnamomeus</i>						20					4	5	21		11					3	19		9	5		5	3			5
27	Citrine Wagtail <i>Motacilla citreola</i>	134	19	37	5	109	133	22	19	29	23	28	17	191	17	2	3	195	212	18	3	831	195	286	185	213	195	195	186	184	167
28	Clamorous Reed Warbler <i>Acrocephalus stentoreus</i>	9			37		2					3		9	7		3				9	9	9	5							5
29	Comb Duck <i>Sarkidiornis melanotos</i>	11	2		37		3							3							3	2			3			2	3		3
30	Common Bab- bler <i>Turdoides caudatus</i>	29	7		27	19	34	12	3	20	4	5	7	65	25	31	3	19	29	8	9	101	71	64	56	21	26	34	22	39	39
31	Common Chiffchaff <i>Phylloscopus collybita</i>	23				5	194					4		49		23						27		168	59	21				34	
32	Common Coot <i>Fulica atra</i>	11837	334	1301	78	10467	3913	26	288	49	224	69	251	2713	135	2105	2	289	273	107	31	7239	6137	5891	730	1550	3265	3698	3645	2935	2589
33	Common Crane <i>Gruus grus</i>	19		5	5	12	11	1		1		1	3	5	5	13	1	8	7	6		5	9	2	3	5	2	3	3	7	2
34	Common Goldeneye <i>Bucephala clangula</i>	136	32		10		192			34	5	5	5	5	9	13	1	7		28	5	5	7	5	2	2	1	3	1	1	1
35	Common Greenshank <i>Tringa nebulosa</i>	337	25	9	29	210	205	9		3	3	3	7	35	9	27	1	35	23	3	7	315	29	38	48	30	45	29	31	63	29

Table continued on next page.....



## Habitat Suitability of Geese Species in Punjab, Pakistan

Sr. No.	Species	Chashma	Jahlar	Khabakki	Taunsa	Uchalli	Bajwat	Baeri wali lake	Dhok Kutab Din dam	Dhok Talian dam	Dhurabi dam	Ghamaghar lake	Head Islam	Indus game reserve	Jar Wali lake	Kalar Kahar lake	Kharral lake	Khokhar Zair dam	Kot Raja dam	Kutty Wali lake	Lal Suhanra lake	Marala headworks	Nammal lake	Qadirabad barrage	Qadirabad link canal	Rangla lake	Rasul barrage	Rawal lake	Shahpur dam	Simli dam	Soan river	
36	Common Kestrel <i>Falco tinnunculus</i>	19	2	3	5	3	3	2	2	2	2	1	3	3	3	5	1	3	5	5	2	13	30									
37	Common Kingfisher <i>Alcedo atthis</i>	61	3	7	8	5	12	2	1	3	3	2	1	19	8	9	3	3	8	3	3	9	8	5	5	10	3	3	5	3	4	
38	Common Mer- ganser <i>Mergus merganser</i>	272			3	3	3					1		1								3		3	1		3				2	
39	Common Moorhen <i>Gallinula chloropus</i>	93			9	13	12	54	2	2	8	5	9	7	220	8	7	4	29	209	7	18	269	130	356	202	203	134	165	185	95	80
40	Common <i>Myna acridotheres tristis</i>	202	9	19	28	9	115	22	11	21	25	18	18	629	31	252	5	178	320	15	19	152	612	370	307	203	514	514	72	148	180	
41	Common Pochard <i>Aythya ferina</i>	1257	454	230	1098	2130	159	13	30	17	220	12	175	932	16	915	3	12	20	5	1	1429	123	513	15	130	783	235	10	13	21	
42	Common Red- shank <i>Tringa totanus</i>	193	59	9	78	90	135	8	3	4	3	3	1	151	8	27	1	18	7	9	5	93	43	44	39	21	13	19	94	64	40	
43	Common Sandpiper <i>Actitis hypoleucos</i>	423	19	19	13	93	81	16	18	3	9	18	3	49	12	43	3	29	9	18	13	108	78	53	46	39	69	45	31	39	46	
44	Common Shelduck <i>Tadorna tadorna</i>	142	7	3	10	180	92	7	1	2	3	2	3	110	9	19	1	29	17	5	5	5	79	23	20	45	20	14	18	2	8	
45	Common Snipe <i>Gallinago gallinago</i>	116	3		29	58	55	9	1			2	3	9	7	8	3	5	10	7	7	231	45	52	43	31	39	32	29	37	39	
46	Common Teal <i>Anas crecca</i>	574	268	31	5	459	235	7	14	11	28	29	5	252	15	244	3	8	159	17	23	450	381	345	9	393	340	192	952	285	298	
47	Common Tern <i>Sterna hirundo</i>	49	9	3	13	4	8	1	2	1		1	1	18	9	21					20			7	5	3		5	5	5		
48	Common Stonechat <i>Saxicola torquatus</i>	1																														

Table continued on next page.....

Sr. No.	Species	Chashma	Jahlar	Khabakki	Taunsa	Uchalli	Bajwat	Baeri wali lake	Dhok Kutab Din dam	Dhok Talian dam	Dhurabi dam	Ghamaghar lake	Head Islam	Indus game reserve	Jar Wali lake	Kalar Kahar lake	Kharral lake	Khokhar Zair dam	Kot Raja dam	Kutty Wali lake	Lal Suhanra lake	Marala headworks	Nammal lake	Qadirabad barrage	Qadirabad link canal	Rangla lake	Rasul barrage	Rawal lake	Shahpur dam	Simli dam	Soan river
49	Cotton Pygmy- Goose <i>Nettion coromandelianus</i>	6			19		8															11									3
50	Cream-colored Courser <i>Cursor cursor</i>				19									7	3							19									9
51	Crested Kingfisher <i>Megaceryle lugubris</i>																											6	3	3	3
52	Crested Lark <i>Galerida cristata</i>		12	9	5	8	10	1	1	1	3	7	28	20	28	3	9	19	3	5	27	28	5	5	9	6	11	5	6	9	
53	Curlew Sand- piper <i>Calidris ferruginea</i>	67	9	5	11	9	11	2	5	2	3	3	3	3	13	1	13	3	4		7	3	3	3	9	5	7	7	8	5	
54	Dahlian Pel- ican <i>Pelecanus crispus</i>	9			4									9							9									5	
55	Demioselle Crane <i>Grus virgo</i>	85	25	19	46	32	31	6	3	18	1	30	7					13		2	15	21	9	8	10	13	8	7		7	
56	Dunlin <i>Calidris alpina</i>	11	4	2	19	9	3	1	1	1	1	1	9	3	5	1	3	9	1	6	5	3	3	3	2	2	2	2	3	2	
57	Eurasian Cur- lew <i>Numenius arquata</i>	19	9	9	78	19	19	1	20	1	2	1	7	7	7	13	1	5	5	3	4	83	9	7	3	5	8	8	7	9	5
58	Eurasian Hobby <i>Falco subbuteo</i>	3			17	2	1	1	1	1	1	3	5	5						3	8		3	2	2	3	3	3	4		
59	Eurasian Griffon <i>Gyps fulvus</i>	2	2		2		2		1	1	1	1	5	5							8	3	3	2	2	3	2	2	2	2	
60	Eurasian Marsh Harrier <i>Circus aeruginosus</i>	17	1	13			5	3	1	3	2	2	5	3	5	2				1	3	12	8	3	2	2	2	2	3	3	3
61	Eurasian Spoonbill <i>Platlea leucorodia</i>	73	21	10	61	25			3	9	5	3	23	12	13	1	9		4	6	245	29	21	31	11	18	18	9	18	21	

Table continued on next page.....

## Habitat Suitability of Geese Species in Punjab, Pakistan

Sr. No.	Species	Chashma	Jahlar	Khabakki	Taunsa	Uchalli	Bajwat	Baeri wali lake	Dhok Kutab Din dam	Dhok Talian dam	Dhurabi dam	Ghamaghar lake	Head Islam	Indus game reserve	Jar Wali lake	Kalar Kahar lake	Kharral lake	Khokhar Zair dam	Kot Raja dam	Kutty Wali lake	Lal Suhanra lake	Marala headworks	Nammal lake	Qadirabad barrage	Qadirabad link canal	Rangla lake	Rasul barrage	Rawal lake	Shahpur dam	Simli dam	Soan river	
62	Eurasian Sparrowhawk <i>Accipiter nisus</i>				3		2					2										1			9	5					3	
63	Eurasian Thick-knee <i>Burhinus oedicnemus</i>				19		35						3	9								5		5	7		7				6	
64	Eurasian Wigeon <i>Anas penelope</i>	721	38	96	29	964	598	25	19	23	8	7	472	15	319	1	259	353	9	20	250	238	674	293	174	210	198	216	189	248		
65	Falcated Duck <i>Anas falcata</i>	3			3		1						7							3		3	6	1		2						
66	Fulvous Whistling-duck <i>Dendrocygna bicolor</i>	9			9		3						5		1						1		3	2		2						
67	Gadwall <i>Anas strepera</i>	46	29	81	5	3041	913	9	17	7	48	18	21	1931	17	317	3	147	137	15	25	1307	391	660	90	93	512	169	165	285	185	
68	Garganey <i>Anas querquedula</i>	194	49	91	13	198	331	21	9	20	21	21	9	345	15	307	1	229	309	15	18	291	270	267	173	93	259	105	194	134	285	
69	Glossy Ibis <i>Plegadis falcinellus</i>	19			37	13	31	30						55							31		5	5		5	13		10	8		
70	Graceful Pintail <i>Prinia gracilis</i>	13			3	9	5	26					3	3	15	5	22	3	8	5	5	5	67	8	9	3	5	5	5	7	13	
71	Great Bittern <i>Botaurus stellaris</i>						7						5	1	10		5	1	3		13		5	5		3	3		3	4		
72	Great Cormorant <i>Phalacrocorax carbo</i>	685			33	85		913	2				8	201		209			355	9	181	347	505	185	203	195	558	215	192	298		
73	Great Crested Grebe <i>Podiceps cristatus</i>	24			11		41	9		2	3	2	1	9		13					79										8	
74	Great Egret <i>Casmerodius albus</i>	80	5	30	84	149	295	7				18	12	7	244	7	206	1	92	8	260	374	404	258	284	160	349	257	248	84		
75	Great Sand Plover <i>Charadrius leschenaultii</i>	7	2	6	5	2	5	3	2				5	9							43		25	18	18	9					5	

Table continued on next page.....

Sr. No.	Species	Chashma	Jahlar	Khabakki	Taunsa	Uchalli	Bajwat	Baeri wali lake	Dhok Kutab Din dam	Dhok Talian dam	Dhurabi dam	Ghamaghar lake	Head Islam	Indus game reserve	Jar Wali lake	Kalar Kahar lake	Kharral lake	Khokhar Zair dam	Kot Raja dam	Kutty Wali lake	Lal Suhanra lake	Marala headworks	Nammal lake	Qadirabad barrage	Qadirabad link canal	Rangla lake	Rasul barrage	Rawal lake	Shahpur dam	Simli dam	Soan river	
76	Great Thick-knee <i>Esacus recurvirostris</i>				4	9								11								9		3	9					8		
77	Great White Pelican <i>Pelecanus onocrotalus</i>	11			5									5								9								4		
78	Greater Flamingo <i>Phoenicopterus ruber</i>	91	38	72	265	6				25				181							8	23	10								6	
79	Greater Painted Snipe <i>Rostratula benghalensis</i>	85			10	9	9	2		1	1	1	2	19	7	19	3				9	55	28	7	33	31	36	9			7	9
80	Spotted Eagle <i>Aquila clanga</i>	4			19		4							5								9		2	3						2	
81	Greater White-fronted Goose <i>Anser albifrons</i>	3			18		9															15									1	
82	Green Sand-piper <i>Tringa ochropus</i>	145	5	5	5	7	33	9	7	2	1	1	5	21	9	53	3	45	23	7	9	195	45	45	63	29	34	32	36	29	31	
83	Grey Heron <i>Ardea cinerea</i>	186		40	58	155	185	3		26	6	7	128			106	3		48		270	300	204	117	261	114	389	135	260	53		
84	Grey Plover <i>Pluvialis squatarola</i>	91	3	9	29	15	41	7	1	3	1	1	3	52	5	7	3	37	3	3	5	9	79	9	45	5	10	4	4	3	5	
85	Greylag Goose <i>Anser anser</i>	44			78		213							112							545		191	3		19				19		
86	Gull-billed Tern <i>Gelochelidon nilotica</i>	23	5	7	5	9	20	7		2	3	3	3	19	7	9	3	5	5	3	3	5	8	7	9		5	5	9	5		
87	House Crow <i>Corvus splendens</i>	758	29	131	393	365	541	30	37	81	22	25	22	741	61	958	15	371	3	25	130	963	979	456	657	315	586	675	540	595	601	

Table continued on next page.....

Sr. No.	Species	Chashma	Jahlar	Khabakki	Taunsa	Uchalli	Bajwat	Baeri wali lake	Dhok Kutab Din dam	Dhok Talian dam	Dhurabi dam	Ghamaghar lake	Head Islam	Indus game reserve	Jar Wali lake	Kalar Kahar lake	Kharral lake	Khokhar Zair dam	Kot Raja dam	Kutty Wali lake	Lal Suhanra lake	Marala headworks	Nammal lake	Qadirabad barrage	Qadirabad link canal	Rangla lake	Rasul barrage	Rawal lake	Shahpur dam	Simli dam	Soan river		
88	House Sparrow <i>Passer domesticus</i>	245	35	132	79	68	199	24	21	15	17	19	21	141	52	313	7	185	19	21	39	203	412	165	130	95	190	205	372	295	188		
89	Indian Cormorant <i>Phalacrocorax fasciatus</i>	182	45	151	461		245					29	35	322			17			33	20	353	296	250	173	127	387				183	67	
90	Indian Courser <i>Cursorius coromandelicus</i>						37						3	9	3							80		3		5					4		
91	Indian Pond Heron <i>Ardeola grayii</i>	156	9	19	65	96	245	11	3	18	18	19	23	151	41	213	5	94	8	19	11	155	235	201	183	167	189	387	162	392	174		
92	Indian Skimmer <i>Rynchops albigollis</i>						10						1	7	1							6			2						3		
93	Indian Robin <i>Copsychus fulvatus</i>	1	2	2	1		6	2	3	3	1	2	3	9	3	9	3	4	4	3	2	9	9	9	3	3	3	3	3	4	2	4	3
94	Jack Snipe <i>Lymnocyptes minimus</i>						13	5	7	3		4	1	5	3	9	8	8	8	3	8	9	13	3	2	5	32	7	4	8	3		
94	Kentish Plover <i>Charadrius alexandrinus</i>	19		7	10	13	10	3	2	1	5	2	3	3	5	9	1	9	9	3	6	171	9	7	5	2	7	3	5	3	19		
95	Lesser Flamingo <i>Phoenicopterus minor</i>	3			3	1	1	1	1	1				1								1	3								1		
96	Lesser Whistling Duck <i>Dendrocygna javanica</i>	267				5	63									1						617		490	163		40				28		
97	Lesser White-fronted Goose <i>Anser erythropus</i>						1															5		1									
98	Little Heron <i>Butorides striatus</i>	5					3						2	3																	3		

Table continued on next page.....

Sr. No.	Species	Chashma	Jahlar	Khabakki	Taunsa	Uchalli	Bajwat	Baeri wali lake	Dhok Kutab Din dam	Dhok Talian dam	Dhurabi dam	Ghamaghar lake	Head Islam	Indus game reserve	Jar Wali lake	Kalar Kahar lake	Kharral lake	Khokhar Zair dam	Kot Raja dam	Kutty Wali lake	Lal Suhanra lake	Marala headworks	Nammal lake	Qadirabad barrage	Qadirabad link canal	Rangla lake	Rasul barrage	Rawal lake	Shahpur dam	Simli dam	Soan river	
99	Little Bittern <i>Kobrychus minutus</i>				13		21																									
100	Little Cormorant <i>Phalacrocorax niger</i>	1434	86	5	29		1934	21	19	23	50	25	1	741	192	524	1	603	321	19	44	1630	911	1860	821	334	1953	1542	1860	1893	1953	
101	Little Crake <i>Porzana parva</i>				5		1				1	3	2	7	5	9	1					15		5	2		5	3	4	3	3	
102	Little Egret <i>Egretta garzetta</i>	101	9	40	138	43	290	19	4	7	19	19	7	137	31	327	3	213	5	10	23	227	345	256	217	95	217	193	95	194	167	
103	Little Grebe <i>Tachybaptus ruficollis</i>	405	167	61	150	450	319	24	21	19	44	62	23	305	47	568	3	335	353	28	25	334	1357	469	192	258	158	495	965	758	487	
104	Little Ringed Plover <i>Charadrius dubius</i>	364	18	9	5	19	9	3	3	2	1	4	1	22	9	9	2	29	27	8	10	230	279	73	23	30	35	45	39	38	48	
105	Little Stint <i>Calidris minuta</i>	148	9	25	19	8	32	2	2	2	2	1	3	9	7	8	1	37	9	7	3	408	45	23	18	31	41	40	37	38	25	
106	Little Tern <i>Sterna albifrons</i>	205	3	17	29	29	19	8	9	3	19	3	5	30	3	23		9	5	6		193	5	15	5		3	3	5	7	4	
107	Mallard Anas <i>platyrhynchos</i>	722	193	302	78	404	189	19	21	31	40	2	11	215	21	205	1	395	175	28	36	1236	781	876	384	503	657	698	893	753	942	
108	Mottled Duck <i>Marmaronetta angustirostris</i>	2			37			9						21	21						7					218					1	3
109	Marsh Sand-piper <i>Tringa stagnatilis</i>	95	4	5	10	37	48	9	10	2	8	8	9	39	25	37	1		18	5	11	353	101	55	40	47	29	35	29	39	34	
110	Montagu's Harrier <i>Circus pygargus</i>	1			13		2						1	3	5				1		5	1			3	2					2	
111	Northern Lap-wing <i>Laniellus vanelus</i>	3			29	23	9	3	17			25	9	9	8	37			165		5	27		11	7	5	3				6	5
112	Northern Pintail <i>Anas acuta</i>	172	52	235	5	344	193	21	16	40	23	20	3	397	13	313	3	195	135	7	18	335	245	317	209	190	215	298	167	298	273	

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Sr. No.	Species	Chashma	Jahlar	Khabakki	Taunsa	Uchalli	Bajwat	Baeri wali lake	Dhok Kutab Din dam	Dhok Talian dam	Dhurabi dam	Ghamaghar lake	Head Islam	Indus game reserve	Jar Wali lake	Kalar Kahar lake	Kharral lake	Khokhar Zair dam	Kot Raja dam	Kutty Wali lake	Lal Suhanra lake	Marala headworks	Nammal lake	Qadirabad barrage	Qadirabad link canal	Rangla lake	Rasul barrage	Rawal lake	Shahpur dam	Simli dam	Soan river
113	Northern Shoveler <i>Anas chrypeata</i>	349	159	297	5	298	213	23	19	44	2	27	11	167	21	129	3	253	197	9	23	308	55	126	93	103	129	138	294	395	392
114	Oriental Darter <i>Anhinga melanogaster</i>				5								3	8																	1
115	Oriental Pratincole <i>Gareola maldivarum</i>				15		38					3	1	13	11					3		7		19	31	2					
116	Osprey <i>Pandion haliaetus</i>	3			19		2					3	1	3								9		3	3		3				3
117	Painted Stork <i>Mycteria leucocephala</i>				29		8	3					1	16							15	7	7	7	12	5				7	
118	Pallas's Fish Eagle <i>Haliaeetus leucorhynchus</i>						19						3	2	2																2
119	Pallas's Gull <i>Larus ichthyaetus</i>	19		5	13	9	11	8		2	5	2	2	5	2	9			9	2		29	7	5	7	3	25	8		11	4
120	Pallid Harrier <i>Circus macrourus</i>	1			10		1						1	5	3						5	3	1	2	3	5	5	2		3	3
121	Peregrine Falcon <i>Falco peregrinus</i>	4			37		3					1	1	3							5	3	2	1	1	3				2	
122	Pheasant-tailed Jacana <i>Hypophasian chirurgus</i>						29						2	7							19		7	5						5	
123	Pied Avocet <i>Recurvirostra amousetta</i>	21	9	9	78	12	9					1	3	25		7			7	7		45	3	8	7		8				5
124	Pied Bushchat <i>Saxicola caprata</i>	13	9	9	5	5	25	9	3	8	6	5	3	39	9	19	4	9	7	5	9	19	42	23	21	21	21	18	19	20	23
125	Pied Kingfisher <i>Ceryle rudis</i>	65	4	3	37	7	20	3	2	3	3	3	2	35	12	18	2	9	8	5	7	11	9	5	5	3	5	3	5	4	4

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Sr. No.	Species	Chashma	Jahlar	Khabakki	Taunsa	Uchalli	Bajwat	Baeri wali lake	Dhok Kutab Din dam	Dhok Talian dam	Dhurabi dam	Ghamaghar lake	Head Islam	Indus game reserve	Jar Wali lake	Kalar Kahar lake	Kharral lake	Khokhar Zair dam	Kot Raja dam	Kutty Wali lake	Lal Suhanra lake	Marala headworks	Nammal lake	Qadirabad barrage	Qadirabad link canal	Rangla lake	Rasul barrage	Rawal lake	Shahpur dam	Simli dam	Soan river
126	Plain Prinia <i>Prinia inornata</i>	71	9	7	13	5	24	3	3	7	1	3	3	21	11	29	3	33	9	8	4	23	23	21	25	19	19	32	19	9	10
127	Purple Heron <i>Ardea purpurea</i>	54		15	78	41	73				9	5	3	75	7	151	54	28	7		120	190	45	82	203	207	157	84	105	79	
128	Purple Swamphen <i>Porphyrio porphyrio</i>	45			10		325				5	3	147		55	3	173				191		38	235	58		179			172	
129	Red-crested Pochard <i>Nettion rufina</i>	672	650	49	5	359	32	11	17	20	7	8	319		319			171		5	930	289	294	209	95	409	298			296	
130	Red-necked Falcon <i>Falco chierquerra</i>	5					2						1	3							5			3			2			2	
131	Red-necked Grebe <i>Podiceps grisegena</i>	7	3	5	7	3	1			5	5			11					3		3			1	1	1	3	3	2		1
132	Red-necked Phalarope <i>Phalaropus lobatus</i>	5	9	5	5	4				2	5		2	5		5					9		7							5	
133	Red-vented Bulbul <i>Pycnonotus cafer</i>	97	19	3	78	8	19	9	9	15	8	8	9	28	17	19	7	21	33	7	19	11	98	37	31	23	19	19	31	22	23
135	Red-wattled Lapwing <i>Vanellus indicus</i>	5	167	3			8						1	5	5	3				1	5	9	3	9	3	3	3	2		1	
136	River Tern <i>Sterna arantia</i>	237	31	32	13	43	278	9	19	20	23	5	10	282	29	193	7	285	150	33	21	272	310	285	213	215	203	193	194	173	294
137	Ruddy Shelduck <i>Tadorna ferruginea</i>	45		21	19	17	102	9	8	11	19	19	8	19	25	39	3	18	13	10	5	353	45	19	21	21	26	19	18	19	17
138	Ruddy Turnstone <i>Actinoternis interpres</i>	187		1	19	289	213	5		1		1	1	41	9	33					381	53	233	209	25	45	262	26	29	42	

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## Habitat Suitability of Geese Species in Punjab, Pakistan

Sr. No.	Species	Chashma	Jahlar	Khabakki	Taunsa	Uchalli	Bajwat	Baeri wali lake	Dhok Kutab Din dam	Dhok Talian dam	Dhurabi dam	Ghamaghar lake	Head Islam	Indus game reserve	Jar Wali lake	Kalar Kahar lake	Kharral lake	Khokhar Zair dam	Kot Raja dam	Kutty Wali lake	Lal Suhanra lake	Marala headworks	Nammal lake	Qadirabad barrage	Qadirabad link canal	Rangla lake	Rasul barrage	Rawal lake	Shahpur dam	Simli dam	Soan river
139	Ruddy-breasted Crane <i>Porzana fusca</i>	3	2	3	78	5							3	5		9															3
140	Ruff <i>Phalacrocorax pugnax</i>						9	1	2					3		7						8		5	3						3
141	Rufous-fronted <i>Prinia Prinia buchanani</i>	87	5	13	7	72	49	5		2	9	5	3	11	7	19	1	5	9	5	2	318	52	18	28	21	7	20	31	25	21
142	Rufous-vented <i>Prinia Prinia burresii</i>	7					7					3	3	21	3	8	5				3	291	9	9	5	5		26	9	5	9
143	Rufous-tailed Shrike <i>Lanius isabellinus</i>													3								5									
144	Shikra <i>Accipiter badius</i>				2		1							1								3									1
145	Small Pratincole <i>Glaucopelia lactea</i>													2								1									1
146	Sociable Lapwing <i>Totanus gregarius</i>	1				5	1						3	2	7					3	3	3	3	3	9	5	7			8	
147	Spot-billed Duck <i>Anas poecilorhynchos</i>						3						3		3						9		5	6			9			5	
148	Spotted Crane <i>Porzana porzana</i>	373					346						7	245							1390		946	81			170			13	
149	Spotted Red-shank <i>Tringa erythropus</i>						7						1	3		7					8		5	3			3			2	
150	Steppe Eagle <i>Aquila nipalensis</i>	148	3	5	13	7	49	3	2	2	3	1	1	42	3	13	1	19	5	3	45	37	26	3	33	3	19	37	5	38	
151	Streaked-throated Swallow <i>Hirundo flavicola</i>	19	5	6	37	6	3		7		9	7	1	11	5	5		3	5	5	11	9	5	3	5	5	4	5	4	4	

Table continued on next page.....



## Habitat Suitability of Geese Species in Punjab, Pakistan

Sr. No.	Species	Chashma	Jahlar	Khabakki	Taunsa	Uchalli	Bajwat	Baeri wali lake	Dhok Kutab Din dam	Dhok Talian dam	Dhurabi dam	Ghamaghar lake	Head Islam	Indus game reserve	Jar Wali lake	Kalar Kahar lake	Kharral lake	Khokhar Zair dam	Kot Raja dam	Kutty Wali lake	Lal Suhanra lake	Marala headworks	Nammal lake	Qadirabad barrage	Qadirabad link canal	Rangla lake	Rasul barrage	Rawal lake	Shahpur dam	Simli dam	Soan river
165	White-headed Duck <i>Oxyura leucocephala</i>	83	9	5	78	9		3	2	8	8	3	19	5	8	3	19	5	5	3	3	15	21		2	2		7	9	9	9
166	White-throated Kingfisher <i>Haliastur ssp. sympneusis</i>	3		2		3																		2	2						1
167	White-winged Tern <i>Chlidonias leucopterus</i>	85	5	9	13	9	19	4	3	20	4	2	3	18	11	19	3	5	5	3	3	23	9	9	7	5	5	5	3	4	3
168	White-tailed Lapwing <i>Panellus leucurus</i>	13			10		10					5	3	33	7	8	1			3	5	5		19	11	6	5	5	8	7	7
169	Wire-tailed Swallow <i>Hirundo smithii</i>	9	3	3	9	3	3	2	3	5	5	5	7	10			5	3	3	3	7		3	5		2	6	3	1	2	
170	Wood Sand-piper <i>Tringa glareola</i>	103	9	19	78	114	43	23	15	21	25	22	19	140	32	59	1	103	5	17	32	283	215	219	52	53	5	22	54	66	19
171	Woolly-necked Stork <i>Ciconia episcopus</i>	87	4	15	19	21	94	6	9	8	9	7	6	50	7	52	3	21	3	5	7	382	40	36	45	47	32	34	35	32	32
172	Yellow Bittern <i>Icthyophaga sinensis</i>				5		1			2			5			5					7			5	7			3			
173	Yellow Wag-tail <i>Macilla flava</i>						29					3	1	23	9	17	1				3	11		9	10		3	3	9	4	8
174	Yellow-bellied Plover <i>Pluvialis flaviventris</i>	197	19	29	19	115	60	19	20	29	19	18	19	340	19	139	1	145	353	23	21	605	219	213	161	95	210	194	183	150	192
175	Zitting Cisticola <i>Cisticola juncidis</i>	11			29		11					19	2	23	7	13	3				3	15		6	20	5	6	7	9	3	7