

Avifauna of Gori Gol, East Azarbayjan Province, Northwest Iran

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Abstract: There are 517 species of birds in Iran. 132 species have been reported from the Gori Gol wetland (about 25 percent of the birds of Iran), of which 36 species were waterbirds, 35 species waders, and 61 species were terrestrial birds. *Oxyura leucocephala* and *Marmaronetta angustirostris*, both which are globally threatened species, breed in Gori Gol. About 36 species of birds breed in this wetland. The species richness and abundance of birds shows that this wetland plays an important role in the protection of the avifauna.

Keywords: Avifauna, Gori Gol, waterbirds, wetland, migrant, East Azarbayjan, Iran.

(Palustrine)

(Eutrophic)

()



Figure 1. Gori Gol, September 1999 (Photo by A. Khaleghizadeh).

pH / - : //
 mhos/cm / mg/l
 (East Azarbayjan, DoE Office % /
 .1999)

Wetland

Scott (1995)

(*Typha latifolia*) (*Phragmites australis*)
 (*Ranunculus trichophyllus*)

International

(*Alisma gramineum*)
 (*Myriophyllum* (*Polygonum amphibium*)
 (*Potamogeton pectinatus*) *spicatum*)
 (*Lemnea minor*)

(*Zygophyllum* sp.) (*Alhagi* sp.)
Cirpus Juncus, Carex
 (East Azarbayjan, DoE Office 1999)

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(Gyllin 1970,

.Sehhatiasabet 2003)

() Gyllin



(*Himantopus* -
himantopus)

Figure 4. Nest and chicks of *Himantopus himantopus*, Gori Gol, summer 2003 (Photo by M.E. Sehhatiasabet).

Anstey 1989, Green & Anstey 1992)

(Behrouzi-Rad 1994

(Shahbazi 2000)

() (*Aythya nyroca*)

() (*O. leucocephala*)

IUCN

%

(*Podiceps nigricollis*)

(Delany & Scott 2002)

()

(Scott 1995)

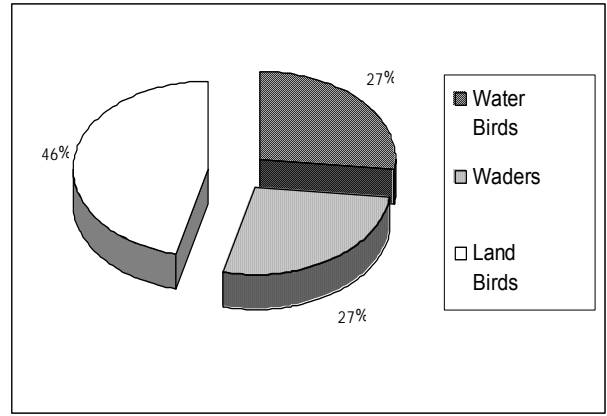


Figure 2. Relative species number in relation to habitat.

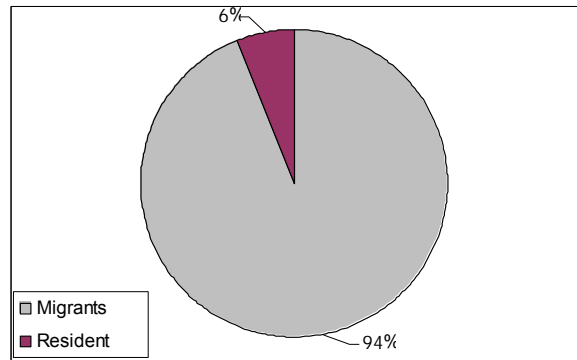


Figure 3. Relative species number of migrant and resident birds.

Table 1. Avifauna of Gori Gol. Waterbird numbers are presented in Table 2.

Scientific name	Breeder	Migrant	Resident	Land birds observed by others	Scott ¹	Birds observed in this survey	Persian name
<i>Tachybaptus ruficollis</i>	*	*			*	*	
<i>Podiceps grisegena</i>	*	*			*		
<i>Podiceps cristatus</i>	*	*			*	*	
<i>Podiceps nigricollis</i>	*	*			*		
<i>Pelecanus onocrotalus</i>		*			*2		()
<i>Egretta garzetta</i>		*			*	*	()
<i>Ardea cinerea</i>		*			*	*	
<i>Ardea purpurea</i>		*				*	
<i>Casmerodius albus</i>		*				*	()
<i>Ardeola ralloides</i>		*			*		
<i>Botaurus stellaris</i>		*			*2		()
<i>Ixobrychus minutus</i>		*			*		
<i>Ciconia ciconia</i>		*			*	*	()
<i>Plegadis falcinellus</i>		*			*		()
<i>Phoenicopterus ruber</i>		*			*		()
<i>Oxyura leucocephala</i>	*	*			*	*	
<i>Anser fabalis</i>		*					
<i>Anser albifrons</i>		*			*		
<i>Anser anser</i>		*			*	*	
<i>Tadorna ferruginea</i>	*	*			*	*	
<i>Tadorna tadorna</i>		*			*	*	
<i>Anas penelope</i>		*			*	*	
<i>Anas strepera</i>		*			*	*	
<i>Anas crecca</i>		*			*	*	()
<i>Anas platyrhynchos</i>	*	*			*	*	
<i>Anas acuta</i>		*			*	*	()
<i>Anas querquedula</i>		*			*		
<i>Anas clypeata</i>		*			*	*	
<i>Marmaronetta angustirostris</i>	*	*					()
<i>Netta rufina</i>		*					
<i>Aythya ferina</i>	*	*			*	*	
<i>Aythya nyroca</i>	*	*			*		
<i>Aythya fuligula</i>		*			*		
<i>Bucephala clangula</i>		*					()
<i>Pandion haliaetus</i>		*		*D			
<i>Milvus migrans</i>		*		*G	*		()
<i>Circus aeruginosus</i>	*	*		*G,S	*		
<i>Circus pygargus</i>		*			*2		
<i>Buteo rufinus</i>		*		*S			
<i>Aquila chrysaetos</i>		*			*		
<i>Falco tinnunculus</i>		*		*G	*		()
<i>Falco subbuteo</i>		*		*G,S	*		()
<i>Falco cherrug</i>		*			*		
<i>Coturnix coturnix</i>					*		
<i>Grus grus</i>		*		*BN			
<i>Rallus aquaticus</i>		*			*		
<i>Porzana parva</i>		*					
<i>Gallinula chloropus</i>	*	*			*	*	()
<i>Fulica atra</i>	*	*			*	*	
<i>Himantopus himantopus</i>	*	*			*		
<i>Recurvirostra avosetta</i>		*			*		()
<i>Glareola pratincola</i>		*			*		
<i>Phuvialis squatarola</i>		*					
<i>Charadrius hiaticula</i>		*			*		
<i>Charadrius dubius</i>		*			*		
<i>Charadrius alexandrinus</i>		*					
<i>Charadrius leschenaultii</i>		*					
<i>Vanellus vanellus</i>	*	*			*	*	
<i>Gallinago gallinago</i>		*			*		()
<i>Limosa limosa</i>		*			*		

Scientific name	Breeder	Migrant	Resident	Land birds observed by others	Scott ¹	Birds observed in this survey	Persian name
<i>Tringa erythropus</i>		*					
<i>Tringa totanus</i>	*	*			*	*	
<i>Tringa stagnatilis</i>		*			*		
<i>Tringa nebularia</i>		*			*	*	
<i>Tringa ochropus</i>		*			*	*	
<i>Tringa glareola</i>		*			*	*	
<i>Actitis hypoleucos</i>		*			*	*	
<i>Xenus cinereus</i>		*					
<i>Calidris minuta</i>		*			*		
<i>Calidris ferruginea</i>		*			*		()
<i>Philomachus pugnax</i>		*			*		
<i>Phalaropus lobatus</i>		*			*		()
<i>Larus armenicus/cachinnans</i>		*				*	/
<i>Larus ridibundus</i>		*			*	*	
<i>Larus genei</i>		*				*	
<i>Chlidonias hybrida</i>		*			*		
<i>Chlidonias leucopterus</i>		*			*		
<i>Chlidonias niger</i>		*			*		
<i>Sterna nilotica</i>		*			*		
<i>Sterna hirundo</i>		*			*	*	()
<i>Sterna albifrons</i>		*				*	
<i>Pterocles orientalis</i>		*			*		
<i>Columba livia</i>	*		*		*	*	
<i>Columba palumbus</i>	*	*				*	()
<i>Streptopelia turtur</i>	*	*				*	
<i>Cuculus canorus</i>		*				*	()
<i>Athene noctua</i>	*		*			*	
<i>Apus apus</i>		*			*		()
<i>Alcedo atthis</i>		*			*		()
<i>Merops apiaster</i>	*	*			*	*	()
<i>Coracias garrulus</i>	*	*			*	*	
<i>Upupa epops</i>	*	*		*S	*	*	
<i>Dendrocopos syriacus</i>		*		*MS			()
<i>Melanocorypha bimaculata</i>	*	*				*	
<i>Galerida cristata</i>	*		*		*	*	
<i>Alauda arvensis</i>		*				*	
<i>Riparia riparia</i>		*			*		
<i>Hirundo rustica</i>	*	*			*	*	
<i>Hirundo rupestris</i>		*				*	
<i>Motacilla alba</i>	*		*	*S	*	*	
<i>Motacilla citreola</i>		*			*	*	()
<i>Motacilla flava</i>		*		*G	*		
<i>Anthus trivialis</i>		*			*		
<i>Anthus pratensis</i>		*		*MS			
<i>Anthus spinoletta</i>		*				*	
<i>Lanius minor</i>		*			*		
<i>Lanius collurio</i>		*		*S	*		
<i>Lanius meridionalis</i>		*?			*		
<i>Oenanthe oenanthe</i>		*		*S		*	
<i>Oenanthe finschii</i>		*			*		
<i>Oenanthe isabellina</i>		*		*S		*	
<i>Acrocephalus melanopogon</i>	*	*			*		
<i>Acrocephalus schoenobaenus</i>		*		*G			
<i>Acrocephalus scirpaceus</i>	*	*		*S	*		
<i>Acrocephalus arundinaceus</i>	*	*			*		
<i>Sylvia communis</i>	*	*			*	*	
<i>Remiz pendulinus</i>	*	*			*		
<i>Emberiza cia</i>		*		*MS			()
<i>Emberiza melanocephala</i>	*	*		*G		*	
<i>Emberiza schoeniclus</i>		*		*G	*		()
<i>Miliaria calandra</i>		*		*G	*		
<i>Fringilla coelebs</i>				*MS			
<i>Fringilla montifringilla</i>		*		*MS			

Scientific name	Breeder	Migrant	Resident	Land birds observed by others	Scott ¹	Birds observed in this survey	Persian name
<i>Carduelis flavirostris</i>		*		*MS			
<i>Passer domesticus</i>	*		*	*S	*	*	()
<i>Sturnus roseus</i>		*		*G			
<i>Sturnus vulgaris</i>			*	*G,S	*	*	()
<i>Pica pica</i>	*		*	*S	*	*	
<i>Corvus monedula</i>		*			*		
<i>Corvus frugilegus</i>		*		*S	*	*	
<i>Corvus corone cornix</i>	*		*	*S	*	*	
<i>Corvus corax</i>		*			*		

1. Derek Scott observations on 4, 30 June, 13 August, 3 December 1971; 18 August, 24 November 1972; 1 October 1973.

2. Scott (1995), * BN= B. Nehring 3 May 1976, *D=DoE mid-winter census 1999 & 2000, *G=Gyllin (1970), *JV= Jalving & Vos (2003), * MS= M. Smart on 10 November 1971, *S=Sehhatiasabet in summer 2003.

Scott (1995)

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Table 2. Breeding birds of Lake Gory Gol in summer 2003, and Scott (1995).

Scientific name	Scott (1995)	Chick number	Number	Persian name
<i>Podiceps grisegena</i>			4	
<i>Podiceps cristatus</i>	-		5	
<i>Podiceps nigricollis</i>	-		1100	
<i>Oxyura leucocephala</i>			8	
<i>Tadorna ferruginea</i>	-		4	
<i>Aythya ferina</i>	-		66	
<i>Fulica atra</i>			25	
<i>Himantopus himantopus</i> (Figure 4)	-	()	29	()
<i>Tringa totanus</i>	-	-	0	
<i>Vanellus vanellus</i>	-	-	0	

(BirdLife International)

(Important Bird Area)

(Evans 1994)

IUCN

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CITES

(*Ctenopharyngodon idella*)

(Jalving & Vos 2003) (Scott 1995)

Table 3. Maximum waterbird numbers mentioned in Scott (1995), Scott's observations, wintering birds in the DoE data base (from the years of 1984, 96, 97, 99, 2000), summer birds in July 2003, and passage migrants in Gyllin (1970), Jalving & Vos (2003).

Scientific name	(Jalving & Vos 2003)	(Gyllin 1970)	July 2003	DoE data base	Scott (1995)	Scott's observation on seven dates of Table 1	Persian name
<i>Tachybaptus ruficollis</i>	25			35		20	
<i>Podiceps grisegena</i>				7		3	
<i>Podiceps cristatus</i>			5			3	
<i>Podiceps nigricollis</i>	200	200	1100			800	
<i>Egretta garzetta</i>	17	4				13	()
<i>Ardea cinerea</i>	88					15	
<i>Ardea purpurea</i>	47	1					
<i>Ardeola ralloides</i>		1			70	70	
<i>Ixobrychus minutus</i>		1				2	
<i>Ciconia ciconia</i>						18	()
<i>Plegadis falcinellus</i>	1	1				7	()
<i>Phoenicopterus ruber</i>	21					6	
<i>Oxyura leucocephala</i>	6		28		15	19	
<i>Anser fabalis</i>				4			
<i>Anser albifrons</i>						3	
<i>Anser anser</i>				18		1	
<i>Tadorna ferruginea</i>		3	4	2	100	40	
<i>Tadorna tadorna</i>	5			18		13	
<i>Anas penelope</i>				30		25	
<i>Anas strepera</i>		5				10	
<i>Anas crecca</i>						500	
<i>Anas platyrhynchos</i>	3000	10	10	160		200	
<i>Anas acuta</i>		4				42	()
<i>Anas querquedula</i>		25			1000	1000	
<i>Anas clypeata</i>	2000			100	150	150	
<i>Marmaronetta angustirostris</i>	1						()
<i>Netta rufina</i>				6			
<i>Aythya ferina</i>	60	2	66	13		75	
<i>Aythya nyroca</i>	6	3	7		40	40	
<i>Aythya fuligula</i>	50	5	40	209	400	160	
<i>Bucephala clangula</i>				4			
<i>Rallus aquaticus</i>	2					1	
<i>Porzana parva</i>		1					
<i>Gallinula chloropus</i>		1				1	()
<i>Fulica atra</i>	3200	150	795	1500	12500	12500	
<i>Himantopus himantopus</i>		2	29		100	80	
<i>Recurvirostra avosetta</i>	1					21	()
<i>Glareola pratincola</i>		4				1	
<i>Phuvalis squatarola</i>		1					
<i>Charadrius hiaticula</i>	50				70	70	
<i>Charadrius dubius</i>		4	3			3	
<i>Charadrius alexandrinus</i>		2					
<i>Charadrius leschenaultii</i>		1					
<i>Vanellus vanellus</i>		1				25	
<i>Gallinago gallinago</i>	20					15	()
<i>Limosa limosa</i>	15		1			1	
<i>Tringa erythropus</i>			2				
<i>Tringa totanus</i>	*	15				30	
<i>Tringa stagnatilis</i>	158	25			25	1	

Scientific name	(Jalving & Vos 2003)	(Gyllin 1970)	July 2003	DoE data base	Scott (1995)	Scott's observation on seven dates of Table 1	Persian name
<i>Tringa ochropus</i>	*					1	
<i>Tringa nebularia</i>						5	
<i>Tringa glareola</i>	3	1			100	100	
<i>Actitis hypoleucos</i>	1					2	
<i>Xenus cinereus</i>		1					
<i>Calidris minuta</i>	5				100	100	
<i>Calidris ferruginea</i>						15	()
<i>Philomachus pugnax</i>	25	1			200	200	
<i>Phalaropus lobatus</i>	25	3				7	()
<i>Larus ridibundus</i>	5					13	
<i>Chlidonias hybridus</i>		25			80	80	
<i>Chlidonias leucopterus</i>		2			400	400	
<i>Chlidonias niger</i>			30			1	
<i>Chlidonias hybridus/leucopterus</i>	125						/
<i>Sterna nilotica</i>	20				22		
<i>Sterna hirundo</i>		2				2	()
<i>Sterna albifrons</i>		14					
TOTAL	9182	521	2120	2106			

Morten Ian Olivier, Greg McIvor

Heegaard

REFERENCES

- Anstey, S. 1989. *The status and conservation of the White-headed Duck, Oxyura leucocephala*. IWRB Spec. Publ. 10. IWRB, Slimbridge, UK.
- Behrouzi-Rad, B. 1994. Status of White-headed Duck in Iran. *Mohit-e-Zist (the Environment)* **6(2)**: 36-44 [In Persian].
- Delany, S. & Scott, D. 2002. *Waterbird Population Estimates*. Wetlands International, Global Series 12, 226 pp.
- East Azarbayjan, DoE Office 1999. Reprt of project on sustainable use of Gori Gol wetland. East Azarbayjan DoE Office.
- Evans, M.I. (compiler) 1994. *Important Bird Areas in the Middle East*. BirdLife Conservation Series No.2. BirdLife International, Cambridge, U.K. 410 pp.
- Green, A.J. & Anstey, S. 1992. The status of the White-headed Duck *Oxyura leucocephala*. *Bird Conservation International* **2**: 185-200.
- Gyllin, R. 1970. Bilder från en persisk fågelsjö. (Bird Notes from Lake Guri, N.W. Iran) *Fauna och Flora* **65**: 113-117.

Table 4. Species in list of the IUCN and CITES.

	IUCN	CITES
<i>Oxyura leucocephala</i>	Endangered	I
<i>Aythya nyroca</i>	Near Threatened	I
<i>Marmaronetta angustirostris</i>	Vulnerable	I
<i>Pandion haliaetus</i>		II
<i>Circus pygargus</i>		II
<i>Circus aeruginosus</i>		II
<i>Falco tinnunculus</i>		II
<i>Falco subbuteo</i>		II
<i>Falco cherrug</i>		II

- Jalving, R. & Vos, R. 2003. *Waterbirds in Lake Orumieh, Iran*. Foundation Working Group International Waterbird and Wetland Research (WIWO), 67 pp.
- Scott, D.A. 1995. Islamic Republic of Iran In: *A Directory of wetlands in the Middle East*. IUCN and IWRB, Gland and Slimbridge. pp 43-221.
- Sehhatiasabet, M.E. 2003. Report of birds observed at Gori Gol wetland. Unpublished Report. Department of the Environment. 2 pp.
- Shahbazi, Y. 2000. Status of the White-headed Duck in Eastern Azarbijan, Iran. *Threatened Waterfowl Specialist Group News* **12**: 34-38.