NATURE IRAQ & IRAQ MINISTRY OF ENVIRONMENT REPORT





Key Biodiversity Survey of Iraq

2010 Site Review



Nature Iraq & the Iraq Ministry of Environment Sulaimani, Kurdistan, Iraq

KBA 2010 SITE REVIEW (PARTIAL)

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This report has been prepared in order to summarize and inform partner agencies on the status and progress of the biodiversity initiatives of Nature Iraq and the Iraq Ministry of Environment. For more information please refer to:

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Key Biodiversity Survey of Iraq 2010 Site Review

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<u>KBA Teams</u>

The Key Biodiversity Areas (KBA) teams for winter and summer 2009 consisted primarily of staff from Nature Iraq (NI), the Iraqi Ministry of Environment (IMoE), and the Kurdistan Commission of Environment (KCoE)

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Vascular plants/Macrophytes: Nabeel Abdulhasan (NI), Saman Abdul Rahman (NI), Bestoon (Trainee), Bahaa Ahmed (Trainee), and Muataz Talib (Trainee).

Additional support was provided by:

In Anbar province:

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In Salah Ad Din province:

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In Diyala province:

Ahmad Nafe'e Abass - Diyala Environmental Directorate. Mahmood Ali - Diyala Environmental Directorate.

In addition, local partners have assisted the project logistically and with information about the survey sites. These have included the many Iraqi police officers and policemen, PeshMerga, environmental and forestry police, guards, guides, falconers, hunters, drivers, and wildlife rangers (especially at Al Massad Reserve) with whom the team has worked. We wish to include them in our thanks.

Introduction

This document presents seasonal observations from the Key Biodiversity Areas (KBA) Survey Project conducted in 2010at selected sites throughout Iraq in the governorates of: Sulaimani, Erbil, Dohuk, Salahadin, Diyala, Anbar, Kirkuk, Baghdad, Missan, ThiQar, Basrah, Muthanna, and Qadissiya, Najaf, Muthanna, Karbala, Wasit, and Babil. This survey is a joint effort of Nature Iraq (NI), the Iraqi Ministry of Environment (IMoE),and other partners including the Kurdish Commission on Environment (KCoE), environmental directorate offices in Anbar, Salahadin, Diyala and other locations, the Kurdistan Regional Government's Environmental Police (a division of the PeshMerga),andthe Universities of Sulaimani and Baghdad. The following table lists the winter and summer 2010 survey periods for each area.

	Kurd	istan	Centra	al Iraq	South		
	Winter Summer		Winter	Vinter Summer		Summer	
Birds	12 Jan –	18 Apr –	19 Dec –12	19 Dec –12	16 Jan – 21	7 May – 30	
Difus	3 Feb	4 Jun	Jan	Jan	Feb 2010	June 2010	
	12 Jan –	18 Apr –	19 Dec –12	19 Dec –12	16 Jan – 21	7 May – 30	
Mammals &	3 Feb	4 Jun	Jan	Jan	Feb 2010	June 2010	
other fauna	(primarily	(primarily	(primarily	(primarily	(primarily	(primarily	
	Anacdotal)	Anacdotal)	Anacdotal)	Anacdotal)	Anacdotal)	Anacdotal)	
		19 100				15 Mar - 9	
Flora	None	18 Apr – 4 Jun	None	None	None	Apr (Spring	
		4 Juli				Survey)	

Table 1: Survey periods for 2010 KBA Project

The 2010 KBA surveys represent the 7th and 8th seasonal surveys conducted in Kurdistan, northern Iraq, since the start of the project there in February 2007. They represent the 3rd and 4th seasonal surveys for central and western Iraq since the project was initiated there in January 2009, and they represent the 11th and 12th seasonal surveys for many of the southern sites since the start of fieldwork in the Mesopotamian Marshland areas in the winter of 2005. The field effort in 2010 focused on birds, mammals and plants. This report provides an overview of the basic findings on each site, a determination of whether the site meets KBA criteria (described below), as well as a threat assessment for the sites, a refinement of delineations for priority sites and recommendations for sites.

Key Biodiversity Areas Criteria Assessment

Key Biodiversity Areas (KBA) are those sites that are large enough, or sufficiently interconnected, to support viable populations of species to which they are important. The KBA selection process uses two main criteria of "Vulnerability" and "Irreplacability". These are

further defined into sub-criteria and thresholds used to determine KBA Status for sites in which site-scale conservation is appropriate. These are shown in the table below:

Criterion	Sub-criteria	Provisional threshold for triggering KBA Status				
V. Vulnerablity		Presence of Critically				
Regular occurrence of a globally		Endangered (CR) and				
threatened species (according to		Endangered (EN) species –				
the IUCN Red List) at the site		presence of a single individual or				
		Vulnerable species (VU) - 30				
		individuals or 10 pairs ¹				
I. Irreplaceability	Ia) Restricted-range species.	Species with a global range less				
Site holds X% of a species'		than 50,000 km ² or 5% of global				
global population at any stage of		population at site				
the species' lifecycle						
	Ib) Species with large but	5% of global population at site				
	clumped distribution.					
	Ic) Globally significant	1% of global population				
	congregations.	seasonally at the site				
	Id) Globally significant source	Site is responsible for				
	populations.	maintaining 1% of global				
		population				
	Ie) Bioregonally- restriced	To be defined				
	assemblages					

Table 2: KBA Criteria and thresholds (IUCN, 2007)

If a site meets one or more of these criteria, the site would be considered as an area of Key Biological Diversity. Within the KBA framework a variety of criteria-based systems focused on specific fauna and flora groups are also applied.

Important Bird Area Criteria Assessment

BirdLife International, an organization devoted to conservation of bird species throughout the globe, has developed criteria for the designation of Important Bird Areas (IBAs). Under BirdLife International, Mike Evans (1994) published a book titled *Important Bird Areas of the Middle East* that listed 42 IBAs in Iraq. The IBA criteria (BirdLife, 2010) used for defining these areas consists of the following:

- A1. Globally threatened species. <u>Criterion</u>: The site is known or thought regularly to hold significant numbers of a globally threatened species, or other species of global conservation concern¹.
- A2. Restricted-range species. <u>Criterion</u>: The site is known or thought to hold a significant component of a group of species whose breeding distributions define an Endemic Bird Area (EBA) or Secondary Area (SA).

¹ Based on IUCN Red-List Assessments of species

- A3. Biome-restricted species. <u>Criterion</u>: The site is known or thought to hold a significant component of the group of species whose distributions are largely or wholly confined to one biome.
- A4. Congregations. Criteria: A site may qualify on any one or more of the four criteria listed below:
 - i). Site known or thought to hold, on a regular basis, ³ 1% of a biogeographic population of a congregatorywaterbird species.
 - ii). Site known or thought to hold, on a regular basis, 1% of the global population of a congregatory seabird or terrestrial species.
 - iii). Site known or thought to hold, on a regular basis, ³ 20,000 waterbirds or ³ 10,000 pairs of seabirds of one or more species.
 - iv). Site known or thought to exceed thresholds set for migratory species at bottleneck sites.

As the Nature Iraq KBA program has developed a strong ornithological section and focused all surveys on birds as major indicator species, the application of the IBA criteria to the survey sites has been the most straightforward and comprehensive.

Important Plant Area Criteria Assessment

In addition,Plantlife International, an organization involved in international plant conservation measures, has developed criteria for the designation of Important Plant Areas (IPAs) throughout the globe (like IBAs, these are also a subset of KBAs). According to the Plantlife International's website, the criteria for the IPA project have been developed over a period of ten years by a process of consultation involving specialists from many countries (Plantlife, 2008).

Plantlife states that the identification of IPAs is based on three broad criteria listed below. Again, as with KBAs and IBAs, a site qualifies as an IPA if it fulfills one or more of these criteria:

- 1. Sites with threatened species (sites that hold significant populations of species of global or regional concern)
- 2. Sites of botanical richness (sites with exceptionally rich flora in a regional context in relation to its biogeographic zone)
- 3. Sites with threatened habitats (sites that are outstanding examples of a habitat type of global or regional importance)

In terms of plants, Iraq is only in the initial stages of assessing sites based on these three criteria. Unlike lists for bird life and other species, comprehensive plant lists for species in Iraq do not yet exist; information on threatened plant species (the first IPA Critiera) is incomplete. However, the KBA project has collected extensive botanical information and the botany work has also aided the project in terms of developing a broader understanding of species/habitat relationships.

As stated above, a number of different organizations and fields of research have developed their own sets of criteria. In addition to the Important Bird Areas (IBAs) and Important Plant Areas (IPAs) discussed above, there is also a criteria system set up by the Alliance for Zero Extinction (AZE). Essentially all these criteria systems come under the umbrella of Key Biodiversity Areas (KBAs). Therefore, if a site meets IPA or IBA criteria, it can be considered a KBA site as shown in the diagram below:

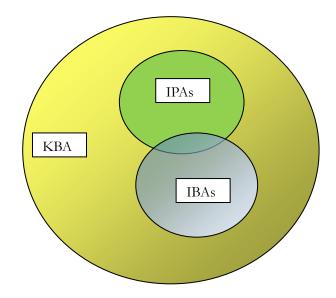


Figure 1: Key Biodiversity Area Site and their relationship to important bird and plant sites (IBA/IPA)

Important Note: For all sites in the following site reviews, a table of provided presenting evidence on the conservation significance of the site based on a review of the species and habitats present at each site and the specific KBA, IBA or IPA criteria that their presence allows the site to meet. These assessments are preliminary and based on only one year of data. Ideally, this assessment process is more rigorous and includes data from additional surveys. A more indepth analysis of the sites based on all data collected since the inception of the program is currently underway with plans to publish a paper on the KBAs of Iraq by the end of the year.

Survey Area

Iraq is part of the Palearctic Realm, the largest of the eight terrestrial ecozones that have been defined for the Earth. It includes the ecoregions covering Europe, northern Africa, the northern and central Arabian Peninsula and Asia north of the Himalaya foothills. Under the World Wildlife Fund (WWF, 2006) an ecosystem classification system of 26 biomes or major habitat types was developed from which 867 terrestrial ecoregions were defined.

Under the WWF system, there are 5 terrestrial biomes found in the Palearctic realm of Iraq:

- 1. Temperate Broadleaf and Mixed Forests
- 2. Temperate Grasslands, Savannas, and Shrublands
- 3. Flooded Grasslands and Savannas

- 4. Mediterranean Forests, Woodlands, and Scrub
- 5. Deserts and Xeric Shrublands

According to the World Wildlife Fund (2006), an ecoregion is defined as a large area of land or water that contains a geographically distinct assemblage of natural communities that:

- share a large majority of their species and ecological dynamics;
- share similar environmental conditions, and;
- interact ecologically in ways that are critical for their long-term persistence.

Iraq is made up of ten different terrestrial ecoregions, listed with their code, total area, and area within Iraq below (also see the map below):

	Ecoregion	Ecoregion Code	Conservation Status	Total Area (ha)	Area in Iraq (ha)
1.	Eastern Anatolian montane steppe	PA0805	Critical	16820000	3
2.	Tigris-Euphrates alluvial salt marsh	PA0906	Critical	3560000	3017501
3.	Arabian Desert and East Sahero- Arabian Xeric Shrublands	PA1303	Critical	185130000	19399482
4.	Mesopotamian Shrub Desert	PA1320	Vulnerable	21100000	12990700
5.	Middle East Steppe	PA0812	Vulnerable	13230000	3791260
6.	Zagros Mountains Forest Steppe	PA0446	Critical	39780000	3047020
7.	Eastern Mediterranean conifer- sclerophyllous-broadleaf forest	PA1207	Critical	14380000	121204
8.	Red Sea Nubo-Sindian Tropical Desert and Semi-Desert	PA1325	Critical	65130000	518925
9.	South Iran Nubo-Sindian desert and semi-desert	PA1328	Critical	35150000	855179
10.	Persian Gulf desert and semi- desert	PA1323	Critical	7260000	111335

Table 3: Ecoregions found in Iraq (WWF, 2006)

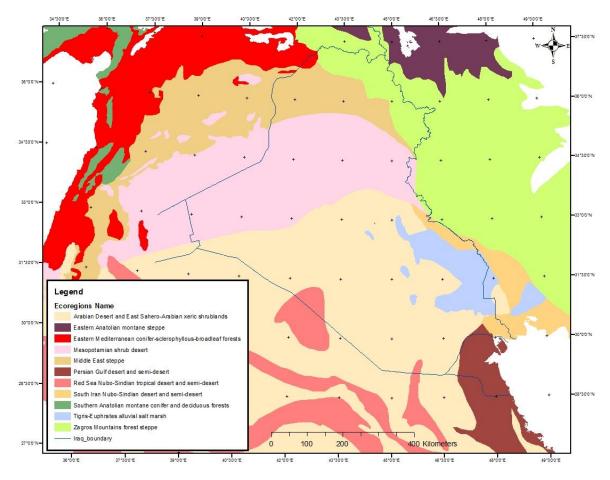


Plate 1: Major Iraqi Ecoregions

In addition, freshwater and marine "ecoregions" of the world were also defined, including three different freshwater ecoregions (Arabian Interior (440), Lower Tigris and Euphrates (441), Upper Tigris and Euphrates (442)) and one marine ecoregion (Arabian/Persian Gulf (90)), a part of the Western Indo-Pacific Realm.

The table below presents that list of sites visited in the 2010 survey and below it is a jurisdictional map showing the survey points throughout the country.

				Season		G	PS Coo	ordinate	es		Elevatio
	Governate Site Name	Site of Visit		Latit	tude (No	orth)	Longitude (East)			n	
	Governate	Site Maine	Code	de W, Spr, S*	0	,	"	o	r	"	(meters)
	Kurdistan, Northern Iraq Sites										
1.	Dohuk	Mosul lake	D10	W, S	36	44	28	42	47	10	310
2.	Dohuk	Fishkhaboor	D11	W	37	06	43	42	22	60	348
3.	Dohuk	Dure	D16	S	37	13	45	43	28	46	1543
4.	Dohuk	Chamanke	D18	S	36	25	08	43	44	39	916
5.	Dohuk	Ser Amadia	D2A	S	37	02	34	43	32	03	1123
6.	Dohuk	Garagu	D5	S	37	01	51	43	23	34	1028
7.	Erbil	Haji Omran Mountain	E1	S	36	40	01	45	03	00	1893

Table 4: Key Biodiversity Area Project Survey Sites in 2010

				Season			Elevatio				
	Governate	Site Name	Site			tude (N	orth)	Lon	gitude (East)	n
	Governate	Site Plane	Code	W, Spr, S*	0	,	"	o	,	"	(meters)
8.	Erbil	Bahraka	E11	W	36	27	13	43	48	37	297
9.		Sakran Mt-									
	Erbil	Choman	E14	S	36	35	26	44	59	10	1872
		Reserve									
10.		Bradost	T 40	0	24	40	07			5.4	10.15
	Erbil	Mountain	E18	S	36	42	07	44	22	54	1345
11.	Erbil	AltunKopri	E3	W	35	42	57	44	07	10	256
12.	Erbil	Doli (Valley)	E5A	S	36	21	49	44	19	22	1184
		Smaquly									
13.	Erbil	Barzan	E8	W, S	36	56	37	44	11	44	530
14.		Darbandikhan									
	Sulaimani	Lake and	S1	W	35	08	41	45	45	18	578
	Sulaman	Surrounded	51	~~	55	00	71	75	75	10	570
		Area									
15.	Sulaimani	Chami Razan	S10	S	35	48	33	45	01	14	648
16.	Sulaimani	Qara Dagh	S11	S	35	19	52	45	17	25	910
17.		Dukan Lake									
	Sulaimani	and	S2	W, S	36	05	33	44	56	09	485
	oulailliaili	Surrounding	02	, 5	50	05	55		50	0,	105
		Area									
18.	Sulaimani	Maidan Area	S22	W	34	39	21	45	40	49	508
19.	Sulaimani	De Lezha	S23	S	35	27	37	45	11	40	683
20.		Homer Qawm									
	Sulaimani	and Shadala	S24	S	35	47	06	45	15	09	1306
		Valley									
21.	Sulaimani	Parazan	S26	S	35	37	37	45	44	19	1047
22.	Sulaimani	Qadr Karam	S30	W	35	13	43	45	14	27	914
23.	Sulaimani	Assos Mountain	S32A & B	W, S	36	03	56	45	15	00	848
24.	Sulaimani	Gmo Mountain	S33	S	35	54	46	45	33	01	2164
25.	Sulaimani	Hazarmerd	S34	S	35	29	51	45	18	42	1035
26.	Sulaimani	Ahmed Awa	S4A	S	35	17	59	46	04	41	900
27.	Sulaimani	Awesar	S4B	S	35	12	45	46	07	56	1660
28.	Sulaimani	Peramagroon	S6	S	35	48	33	45	01	14	2613
29.	Sulaimani	Sargalu	S7	S	35	52	31	45	09	55	953
<u>_</u> ,	oulaillialli	Gargaiu	07	Central Ir			51	15	07	55	755
1.	Anbar	Habbaniya Lake	AN1	W,S	33	11	48	43	27	38	35
		Rahaliya and									
2.	Anbar	Razaza Lake	AN10	W, S	32	46	26	43	27	6	37
		Sabkhat Albu								_	
3.	Anbar	Garis	AN11	W, S	34	41	54	41	13	9	42
		Rutba and Al		1	1	1	1	1	1		
4.	Anbar	Massad Gazelles	AN12	S	32	54	29.8	40	13	14.2	43
		Reserve					_,			2	
		Haditha		1	1	1	1	1	1	1	
5.	Anbar	Wetlands &	AN2	W,S	33	54	21	42	31	58	65
		Baghdadi		,0							
6.	Anbar	Anah & Rawa	AN3	W,S	34	28	31	41	53	2	42
7.	Anbar	Anah & Rawa	AN3	W,S	34	28	31	41	53	2	42
		Al Nekheab	1		1	İ	1		1	1	
8.	Anbar	District Oases -	AN4	S	33	25	9	41	1	17	453
		Al Hussayniyah									
9.	Anbar	Gasr Muhaiwir	AN6	W, S	33	32	37	41	0	14	42
		Qadissiya or					07		2	04	10
10.	Anbar	Haditha Dam	AN7	W, S	34	20	87	42	3	84	18

				Season GPS Coordinates							Floratio	
	Governate	Site Name	Site	of Visit	Lati	tude (N	orth)	Lon	gitude (East)	Elevatio n	
	Governate	Site I value	Code	W, Spr, S*	0	,	"	o	° ' ' ''	(meters)		
11.	Anbar	Hawijat Albu Dheab and Al Ramadi Marshes	AN8	W, S	33	28	31	43	16	5	42	
12.	Anbar	Tharthar Lake, Western Edge	AN9	W, S	33	41	56	43	18	17	40	
13.	Baghdad	Jadriyah and Umm Al Khanazeer Island	BG1	W, S	33	16	31	44	22	36	64	
14.	Diyala	Himreen lake	DY1	W, S	34	11	35	45	0	11	42	
15.	Diyala	Attariya Plains	DY3	W, S	33	31	41	44	45	47	12	
16.	Diyala	Mandli	DY4	S	34	4	6	45	27	38	27	
17.	Kirkuk	Huweija Marshes & Beagi	KK1	W, S	34	58	36	44	0	8	154	
18.	Salah Ad Din	Samarra dam & Wetlands	SD1	W, S	34	11	33	43	50	68	45	
19.	Salah Ad Din	Tharthaar Lake & Dhebaeji Field	SD2	W, S	34	17	2	43	10	59	38	
20.	Salah Ad Din	Mahzam	SD3	W, S	34	50	56	43	39	14	89	
21.	Salah Ad Din	Abu Dalaf & Shari Depression	SD4	W, S	34	21	32	43	51	27	123	
22.	Salah Ad Din	Jallet Albu Ageel	SD5	W, S	34	37	48	43	47	57	98	
		0	1	Southern I	raq Site	es			1	1		
1.	Basrah	JabalSenam	BR1	W,Spr,S	30	7	28	47	37	38		
2.	Basrah	Kteibaan	BR2	W,S	30	42	30	48	1	38		
3.	Basrah	Kharanij	BR3	W	29	24	8	46	32	57		
4.	Basrah	Lehais	BR4	Spr	30	36	21	46	31	45		
5.	ThiQar	Baghdadiya, South	CM1	W,Spr,S	31	1	28	47	0	57		
6.	ThiQar	Fuhood, North	CM10	W	30	59	10	46	43	32		
7.	ThiQar	Abu Zirig	CM16	W,Spr,S	31	8	57	46	37	16		
8.	ThiQar	Zichri	CM5	W	31	3	19	47	13	19		
9.	ThiQar	Teena, Northern	HA1	W	30	53	19	46	54	24		
10.	ThiQar	Naggaara	HA16	W,Spr,S	30	41	15	47	36	6		
11.	ThiQar	Shilaychiya Marsh	HA17	W,Spr,S	30	37	32	47	37	32		
12.	ThiQar	Haffaar Opening 2	HA19	W	30	56	10	46	58	13		
13.	Basrah	Slein (south Rumaila)	HA21	W,Spr,S	30	41	17	47	28	16		
14.	ThiQar	Abu Hedeeda	HA22	W,S	30	48	10	46	48	49		
15.	ThiQar	Abu-'Ajaj	HA23	W,S	30	52	18	46	48	11		
16.	ThiQar	Nuwashi	HA24	W,S	30	51	36	46	27	12		
17.	ThiQar	Al-Rashid Lake	HA25	W,Spr,S	30	40	58	46	37	52		
18.	Basrah	Shaafi	HA26	W,S	30	49	32	47	26	48		
19.	ThiQar	Abu-Ajaj, East	HA27	Spr	30	50	7	46	52	48		
20.	ThiQar	Ghabishiya	HA28	Spr	30	40	41	46	53	3		

				Season		(GPS Coo	ordinate	es		Elevatio
	Governate	Site Name	Site	of Visit	Lati	tude (N	orth)	Lon	gitude (I	East)	Elevatio n
	Governate		Code	W, Spr, S*	0	,	"	o	,	"	(meters)
21.	ThiQar	Buhaira Al Hilwa	HA3	Spr	30	46	54	47	3	1	
22.	ThiQar	Umm At-Tiyaar near Al Buhaira	HA4	W,S	30	53	59	46	51	59	
23.	ThiQar	Umm Nakhla	HA6	W,S	30	49	16	46	38	32	
24.	ThiQar	Kermashiya Marsh	HA8	W,Spr, S	30	47	56	46	37	25	
25.	Missan	Umm An Ni'aaj	HZ1	W,Spr,S	31	35	35	47	34	56	
26.	Missan	Udhaim	HZ2	W,Spr,S	31	41	13	47	44	56	
27.	Missan	E'jayrda	HZ4	W,S	31	19	55	47	37	51	
28.	Basrah	Majnoon	HZ8	W,Spr,S	31	5	41	47	34	38	
29.	Missan	Bushes near Umm Al-Warid	HZ9	Spr	31	34	5	47	30	4	
30.	Karbala	Al-Taar	KR1	Spr	32	28	55.6	43	44	12.9	
31.	Karbala	'Ein Al-Tamr	KR2	Spr	32	32	57.6	43	30	11.7	
32.	Basrah	KhorAzZubayr Canal-100 meters east	KZ3	W,S	30	5	27	47	57	13	
33.	Basrah	Khor Az Zubary	KZ4	Spr	30	2	30	47	57	51	
34.	Basrah	Khawr Al- Zubair, west	KZ5	W,S	30	18	25	47	49	25	
35.	Basrah	Umm Qasr Port	KZ6	Spr	30	3	44	47	56	23	
36.	Qadissiya	Dalmaj Marsh, South	ME10	W,Spr,S	32	7	30	45	27	7	
37.	Wasit	Dalmaj Marsh, East	ME11	W,S	32	10	27	35	38	37	
38.	Qadissiya	Dalmaj Marsh, North	ME12	W,S	32	21	27	45	15	32	
39.	Qadissiya	Basroogiya	ME13	Spr	31	55	8.5	45	35	34.7	
40.	Najaf	IbnNajm	ME4	W,S	32	8	57	44	38	31	
41.	Karbala	Razzaza Lake	ME5	W,Spr,S	32	33	9	43	53	57	
42.	Babil	Hindiya Barrage	ME7	W,S	32	44	2	44	15	50	
43.	Babil	North IbnNajm	ME8	W	32	18	55	44	24	25	
44.	Missan	Teeb oasis	MN1	W,Spr,S	32	23	19	47	20	30	
45.	Missan	Zubaidaat	MN2	W,Spr,S	32	23	40	47	23	27	
46.	Muthanna	Sawa Lake	MT1	W,Spr,S	31	18	50	45	0	13	
47.	Muthanna	Salman	MT3	Spr	30	25	12	44	24	57	
48.	Najaf	Wadi Al-W'eir	NJ1	W,Spr,S	31	41	2	44	17	33	
49.	Najaf	Sh'eeb Abu- Talha	NJ2	W,S	31	4	35	44	1	19	
50.	Basrah	Euphrates & Tigris Junction	SA1	W,Spr	30	34	59	47	46	18	
51.	Basrah	Ras Al-Beesha (Fao)	SA4	W,Spr,S	29	55	44	48	36	9	
52.	Missan	Sinnaaf Area, Western	SM5	W, S	31	52	51	47	12	56	
53.	Wasit	Shuweicha Marsh	SM7	W,S	32	42	33	45	48	32	
54.	Missan	Teeb	SM8	W,Spr,S	32	1	22	47	24	12	
55.	Thi Qar	Suwaibaat, South	TQ1	W,Spr,S	30	28	22	45	57	59	
56.	Thi Qar	Tell Al-Laham	TQ2	Spr	30	43	39	46	23	26.6	

					Season	GPS Coordinates						Elevatio
	Governate	Site Name	Site	of Visit	Latitude (North)			Longitude (East)			n	
	Govern	Governate	one i vanie	Code	W, Spr, S*	0	,	"	o	,	"	(meters)
	57.	Wasit	Jazman (Zurbatia)	WT1	W, S	33	8	50	46	4	39	

*W- Winter Bird (& other fauna) surveys,

Spr- Spring Plant surveys (southern Iraq only),

S – Summer Bird (& other fauna) surveys (Botany surveys in Kurdistan, Northern Iraq were done with the bird surveys)

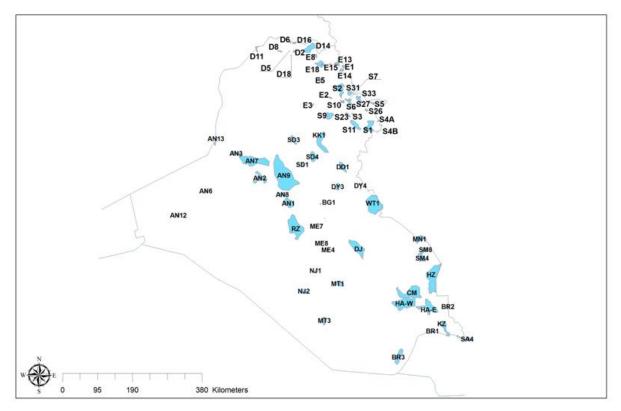


Plate 2: Map of the surveyed areas in 2010

Methods & Procedures

Sites

All sites were located using a *Garmin* GPS Device. Occasionally maps (e.g. 1:100000 scale) were used to trace the fieldwork path. A Basic Site Information Sheet was used to record information on the sites (GPS Location, nearest town, security and logistical details, photos taken at the site, basic habitat information and for drawing the map to site).

Note: Some sites in Sulaimani were visited in April for a spring Nature Iraq training program and then were revisited later in the year. The dates of these separate observations are listed in the site accounts but the findings have been integrated with the regular observations. For the south, the decision was made to cover more terrestrial areas (in addition to wetlands) including oases and seasonal wetlands identified in the desert areas of the south. Nine terrestrial sites were added to the KBA list in the south during the surveys in 2010. These sites were in the western, southwestern, and southern parts of the Lower Desert of Iraq. Most of these areas are remote and relatively unimpacted as very few people visit these areas.

Site Threat Assessments

In winter and summer of 2010, the survey team conducted a site threat assessment using the Pressure-State-Response (PSR) Model: as outlined by the BirdLife International (2006) report on Monitoring Important Bird Areas. The bulk of this section quotes full sections of this report. The PSR Model relies on three types of indicators:

- **Pressure** Pressure indicators identify and track the major threats to important bird populations at IBAs. Examples include rates of agricultural expansion, over-exploitation and pollution.
- State State indicators refer to the condition of the site, with respect to its important bird populations. State indicators might be population counts of the birds themselves. They might also be measures of the extent and quality of the habitat required by these birds.
- **Response** Response indicators identify and track conservation actions: for example, changes in conservation designation, implementation of conservation projects and establishment of Local Conservation Groups (LCGs).

Pressure Indicators

These consist of the following eleven threat types, most of which were assessed for all sites in the 2010 survey:

· · · · · ·

- 1. Agricultural expansion & intensification: Threats from farming and ranching as a result of agricultural expansion and intensification, including silviculture, mariculture and aquaculture. Note that wood and pulp plantations includesafforestation, and livestock farming and ranching includes forest grazing. Agricultural pest control and agricultural pollution-specific problems apply to '5. Overexploitation, persecution & control' and '9. Pollution' respectively.
- 2. Residential & commercial development: Threats from human settlements or other nonagricultural land uses with a substantial footprint; resulting in habitat destruction and degradation, also causing mortality through collision. Note that domestic or industrial pollution-specific problems apply to '9 Pollution'.
- 3. Energy production & mining: Threats from production of non-biological resources; resulting in habitat destruction and degradation, also causing mortality through collision. Note that renewable energy includes windfarms.
- 4. **Transportation & service corridors:** Threats from long narrow transport corridors and the vehicles that use them; resulting in habitatdestruction and degradation, disturbance and collision.
- 5. Over-exploitation, persecution & control: Threats from consumptive use of wild biological resources including both deliberate and unintentional harvesting effects; also persecution or control of specific species. Note that hunting includes egg-collecting,

gatheringincludes firewood collection, and logging includes clear cutting, selective logging and charcoal production.

- 6. **Human intrusions & disturbance:** Threats from human activities that alter, destroy and disturb habitats and species associated withnon-consumptive uses of biological resources.
- 7. Natural system modifications: Threats from actions that convert or degrade habitat in service of managing natural or semi-naturalsystems, often to improve human welfare. Note that 'other ecosystem modifications' includes intensification of forest management, abandonment of managed lands, reduction of land management, and under grazing. 'Dams & water management/use' includesconstruction and impact of dykes/dams/barrages, filling in of wetlands, groundwater abstraction, drainage, dredging andcanalisation.
- 8. Invasive & other problematic species & genes: Threats from non-native and native plants, animals, pathogens and other microbes,or genetic materials that have or are predicted to have harmful effects on biodiversity (through mortality of species or alteration of habitats) following their introduction, spread and/or increase in abundance. The KBA team was not able to assess these threats due to lack of information.
- 9. **Pollution:** Threats from introduction of exotic and/or excess materials from point and non-point sources causing mortality of speciesand/or alteration of habitats. Note that domestic and urban waste water includes sewage and run-off; industrial and military effluents includes oils spills and seepage from mining; agricultural and forestry effluents and practices includes nutrient loads, soil erosion, sedimentation, high fertiliser input, excessive use of chemicals and salinisation; and air-borne pollutants includes acid rain.
- 10. **Geological events**: Threats from catastophic geological events that have the potential to cause severe damage to habitats and species. The KBA team was not able to assess these threats due to lack of information but in most cases the main geological threats facing Iraq are earthquakes.
- 11. **Climate change & severe weather:** Threats from long-term climatic changes which may be linked to global warming andother severe climatic/weather events. The KBA team did not have adequate information to assess these threats but global warming, desertification and increased dust storm events are potentially significant threats in Iraq.

Each threat class was rated based on its Timing, Scope and Severity to provide an integrated threat assessment score that would classify the particular threat classification as Low, Medium, High or Very High.

State Indicators

The condition or state of the environment is an assessment may be based on the following:

- Population sizes for one or more 'trigger' species (for which there is good information) or each 'trigger' species assessed individually (then applying the 'weakest link' approach)
- The area and quality of the key habitats on which the 'trigger' species depend, as an indirect measure, or 'surrogate', for population size.

For the most part state indicators for these KBA sites would be based on an assessment of the conditions of the habitat at each site. For the most part this assessment was not carried out at

the KBA sites in 2010 due to lack of adequate habitat and habitat/species association information.

Response Indicators

The response indicators are described as follows:

• These indicators guage the level of response to given threats and are rated based on the level of conservation designation, management planning and conservation actions that have taken place at a given site.

Most KBA sites in 2010, except in a very few limited cases noted in the text, would score very low in terms of response to threats as there are few national, regional or local institutions, policies, or resources allocated for addressing environmental threats (pressures) in Iraq. For this reason, this part of the PSR Model assessment was not carried out.

Birds

To accomplish a rapid assessment of bird species and numbers at any given site is not easy. Bird observations were made using 8x30 and/or 8x42 binoculars and 500 mm spotting scopes. The methodology that Nature Iraq has adopted is relatively simple and can be summed up as 'walking, scanning and counting' along a route that attempts to cover the key habitats of the site. This is referred to as an area count. In general small birds (passerines and near-passerines) will be located (by sight or voice) within a 100-200m width; for larger birds (such as raptors) the range may be up to 2kms; shy birds may not be located. Ideally more than one visit should be made to a site in each season, and certainly over different years, however with the constraints of time and logistics it is accepted that this is not always possible.

The counts obtained are those that are entered onto the Nature Iraq KBA database. However given the knowledge of the area actually surveyed and the area and habitats of the whole KBA site it is possible, by extrapolation to make crude population estimates or 'best guesses' for a number of species.

In the case of wetland sites, particularly areas of open water, counting all waterbirds (especially wildfowl and waders) is often possible by counting from vantage points on the shore; totals are then obtained by aggregating the counts. Occasionally a motor-canoe was used for moving over inaccessible or deep waters, or observations were made while wading within reed beds. Also, cars were used to cover the more accessible areas.

For a more accurate assessment of the populations of passerines and near-passerines (as well as their relative abundance and specific density) Transects² and Spot Counts³should be made (and were occasionally done in the KBA survey work). However they are more suited to detailed study of a site when there are no time constraints and especially for monitoring purposes. For larger birds, notably raptors, sitting and scanning from suitable vantage points for at least 3 hours is essential to assess numbers present, particularly during the breeding season when birds are displaying.

The main identification guides used in the surveys were Salim, Porter, Christensen, Schiermaker-Hanson, & Jbour (2006); Porter, Christensen, & Hansen (1996); Mullarney, Svensson, Dan, & Grant (2001) and Allouse (1953& 1963), the latter was used to review and compare the bird populations over certain areas as a whole.

Breeding Information

During the summer survey, a strong emphasis was placed on determining the breeding status of birds. Breeding evidence was based on British Trust for Ornithology guidelines adapted by Richard Porter. The following table lists the breeding codes used.

Nor	n-breeding
F	Flying over
Μ	Species observed but suspected to be still on Migration
U	Species observed but suspected to be sUmmering non-breeder
Poss	sible breeder
Н	Species observed in breeding season in suitable nesting Habitat
S	Singing male present in breeding season in suitable breeding habitat
Prol	bable breeding
Р	Pair observed in suitable nesting habitat in breeding season
Т	Permanent Territory presumed through registration of territorial behaviour (song etc) on at least two different days a week or more at the same place or many individuals on one day
D	Courtship and D isplay (judged to be in or near potential breeding habitat; be cautious with wildfowl)
Ν	Visiting probable Nest site
А	Agitated behaviour or anxiety calls from adults, suggesting probable presence of nest or young nearby
Ι	Brood patch on adult examined in the hand, suggesting Incubation

Table 5: Breeding codes for Bird Observations during the summer survey

² Transect count: Identifying and counting birds as the observer walks a straight line between two GPS plotted points.

³ Spot Counts or Point Counts: Identifying and counting birds from a stationary location.

В	Nest B uilding								
Con	Confirmed breeding								
DD	Distraction-Display or injury feigning								
UN	Used Nest or eggshells found (occupied or laid within period of survey)								
	Recently FL edged young (nidicolous species) or downy young (nidifugous species). Careful consideration should be given to the likely provenance of any fledged juvenile capable of significant geographical movement. Evidence of dependency on adults (e.g. feeding) is helpful. Be cautious, even if the record comes from suitable habitat.								
	Adults entering or leaving nest-site in circumstances indicating Occupied Nest (including high nests or nest holes, the contents of which can not be seen) or adults seen incubating								
FF	Adult carrying Faecal sac or Food for young								
NE	Nest containing Eggs								
NY	Nest with Young seen or heard								

In winter and summer, data was entered into a Microsoft Access 2007 database that was developed specifically for KBA bird assessments in 2009. In addition, all data from the 2010 survey has been uploaded to the WorldBirds Database (a joint project of BirdLife International, The Royal Society for the Protection of Birds (RSPB) and Audubon) and can be accessed from their public website at www.worldbirds.org.

Mammals & Other Fauna

Effortsto conduct a more rigorous mammal survey was initiated as part of the KBA Project in 2007 in both southern and Kurdistan, northern Iraq, but was discontinued pending more capacity-building. Field teams have always collected anecdotal information regarding mammals and other fauna including taking pictures of live animals, tracks or any signs that the presence of these species in the survey sites. Since most of the mammals are nocturnal, the teams were rarely able to see them in these rapid assessment field works. However, a more focused survey on mammals within the KBA Project was begun again in 2009 in Kurdistan, northern Iraq and was continued during the winter and summer of 2010. This survey emphasized collecting further information from locals regarding species reported at sites and concerning hunting issues in the areas.In addition, information on species trade was also collected and a separate paper is currently in preparation regarding animal trade and hunting within the country.

Information for the 2010 Kurdistan surveys was collected through three means: interviewing individuals at local communities near survey sites; visiting and interviewing individuals at local animal markets; and visiting and interviewing staff at local animal zoos.

Observations at thesurvey sites were also done through taking photos of live mammals seen anecdotally as well as phtographing their tracks and signs and then identifying these using the followingreferences: Murieand Elbroch (2005) and Stokesand Stokes (1986). Otherwise information about the presence and absence of different kinds of mammals were gathered through tapedinterviews with villagers in and found around the survey areas.

In areas where there are minefields site access is difficult, therefore the team replied completely on taped interview with villagers at the sites.

Visits to animal markets included taped interviews with pet shop owners and any local hunters that are present. In addition, in 2010, notes were taken of the number and types of species that were shown in the market, how they were contained, and estimation of the animals' health status and origin, along with photos of the animals that were used when necessary for later identification of species. The same procedure was followed for the animal zoos particularly where zoos and animal parks appear to be involved in species trade activities.

During the summer survey the team used a voice recorder to maintain a record of the interviews, (making sure to protect the anonymity of those interviewed) to allow the interviewer to collect the information freely and accurately. All data was entered into a Microsoft Excel datasheet, under the three categories of site visits, animal markets, and animal zoos. Since the works on mammals are not fully developed yet, using a database to enter the information collected will be required for future, site-specific surveys.

Information collected on other fauna, including reptiles, amphibians and insects, was also, as stated above, anecdotal. Due to the fact that the team is not well trained in survey techniques for most of these species, collecting information about them is challenging; data assembly is only based on taking photos of any species the field teams located while visiting the sites during the KBA rapid assessment surveys. When possible, efforts were made to identify these species later from photographs.

Plants

The botany survey was conducted in the spring in southern Iraq and in summer in Kurdistan, Northern Iraq. Waypoints are selected within the main key habitat types located within the site. GPS coordinates and the elevation for each waypoint along with photographs of the waypoint are taken and a description including slope, exposure, and percentage of vegetated area is developed (the latter is described more fully below). The dominate tree, shrub, herb and grasses are noted in the waypoint and a number representing the ecological status of the waypoint is determined (also described below). Any threats to the site are also noted. Plant identification is done in the field and those plants that can not be identified are collected in plastic bags and then pressed before being sent back to the office of identification.

The following references were used to assist in the development of plant samples Sample identification was done in the field. The plants that could not be identified were collected and then identified in the lab using the following references: Babashekh (2006), Bermani (1981), Davis (1978 and 1982),Guest (1966), Houri and Houri (2001, Vol I & II), Ghahraman (1983, 1987, 1999, 2001 and 2003), Maahzide (2003), Mashhadani (1992), Rawi (1964), Raza and Dawd (1983) and Sardar (2003), Tohme and Tome (2002), and Townsend and Guest (1966, 1968, 1974, 1980a and 1980b). General information on habitats was based on Guest (1966).

Pictures of plants were also taken in order to help with their identification and the description of their status. Profile pictures (detailed photos of plant parts to be assembled later into a complete digital profile of the plant) were taken for some plants in order to help in the identification (see the plate below). The plant profiles as well as the method of assigning of herbarium numbers of individual specimens were introduced into the 2009 survey by the Royal Botanic Garden of Edinburgh (RBGE)/Center of Middle Eastern Plants (CMEP). Ideas about the vegetation cover at the site were formed using direct observation (estimating the percentage of vegetated and non-vegetated area). The ecological condition of the site was rated on a scale of 1 to 5 with 1 representing the least disturbed or impacted (best ecological condition and quality) and 5 representing the most disturbed or impacted (poorest ecological condition and quality). Though this methodology is subjective, the goal of the survey was simply to conduct a rapid assessment of the overall plant communities as well as their habitat and health.

Since the summer of 2009, data was entered into a Microsoft Access 2007 database that was developed specifically for KBA assessments.

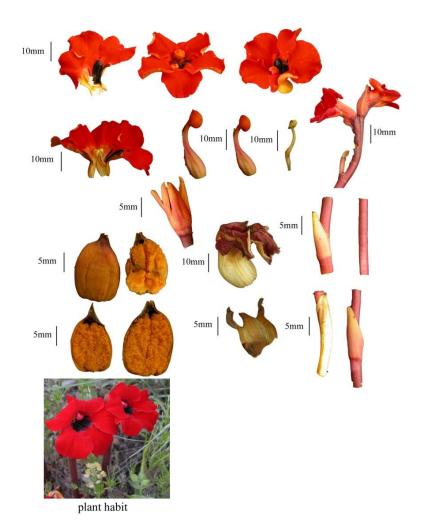


Plate 3: Partial Plant profile of Phelypaea coccinea at Peramagroon (S6) developed with Photoshop CS3

Kurdistan, northern Iraq 2010 Site Review can be obtained by writing to info@natureiraq.org

Central Iraq 2010 Site Review can be obtained by writing to info@natureiraq.org

Southern Iraq 2010 Site Review can be obtained by writing to info@natureiraq.org

Summary & Conclusions

Thoughout the country-wide Key Biodiversity Areas program, 96 sites were visited in 2010, with over 451104 individual bird observations (412052 for the winter and 39052 during the summer). During winter, there were 154 species seen in the south, 143 species seen in central Iraq and 125 seen in Kurdistan, Northern Iraq. During summer, there were 133 species seen in the south, 150 seen in central Iraq and 138 species seen in Kurdistan, Iraq.

For the spring botany survey in southern Iraq, there were 648 individual plant records obtained from 38 waypoints within 32 sites. During the summer survey of Iraqi Kurdistan, 2297 individual plant records were obtained and 25 waypoints were documented within 20 sites.

Additional information was also obtained on other fauna, such as mammals and reptiles. The quality of information being obtained from locals on other fauna at sites was also improved. A secondary report is being released that provides more details on animal trade and hunting in Iraq.

A full list of the birds seen both the winter and summer 2010 surveys throughout Southern, Central/Western and Northern (Kurdistan) Iraq is provided in Annex A. In addition, 197 plant species were identified in the south and 519 plant species were identified in Kurdistan, northern Iraq and a full list are these are provided in Annex B. Important site information on mammal and other species was also obtained from information on animal markets and zoos. This information is provided in Annex C.

The following sections summarize the results of the three separate surveys in Kurdistan, Central and Southern Iraq during 2010. It also provides a more comprehensive and standardized threat assessment and a discussion of the delineations of the sites. Lastly, it provides recommendations on future actions for the specific Key Biodiversity Areas program, and biodiversity protection in general. Please note that the KBA, IBA & IPA critiera assessments for each site that were presented in the site review and reviewed here are preliminary and further refinements are in progress.

General findings on Birds

During the 2010 winter surveys in Kurdistan Iraq, there were several species observed, including 630 Lesser White-fronted Geese *Anser erythropus* (nearly 3% of the world population), two Redbreasted Geese *Branta ruficollis*, two Pine Buntings *Emberiza leucocephalos*, three Little Bustards *Tetrax tetrax* (the first recorded in Iraq since 1940s), 246 Great Black-headed Gulls *Larus*

ichthyaetus, 14 Alpine Accentors *Prunella collaris*, nine Eastern Imperial Eagles *Aquila heliaca*, one Red Kite *Milvus milvus*, and 20 Eurasian Siskins *Carduelis spinus*.

The central and western deserts of Iraq are one of the main migration routes for the raptors in Iraq. During spring, over 450 Lesser Kestrels *Falco naumanni*, 500 Black Kites *Milvus migrans* and Black-eared Kites *Milvus migrans lineatus*, four Eastern Imperial Eagles *Aquila heliaca* and six Pallid Harriers *Circus macrourus* were observed.

The following species were observed in the southern marshes, a unique place for the wildlife in the world: 7,000 Greater Flamingos *Phoenicopterus roseus*, 30,000 Northern Shovelers *Anas clypeata*, 41,000 Marbled Ducks *Marmaronetta angustirostris*, 19,000 Eastern Greylag Geese, 9,000 Redcrested Pochards *Netta rufina*, 2,500 Ferruginous Ducks *Aythya nyroca*, 6,000 Black-tailed Godwits *Limosa limosa*, 6,000 Pygmy Cormorants *Phalacrocorax pygmeus*, 8,000 Dead Sea Sparrows *Passer moabiticus*, and seven Grey Hypocolius *Hypocolius ampelinus*. The White-crowned Wheatear *Oenanthe leucopyga* was added to the Iraq bird list.

In May and June, Richard Porter, (an ornithology expert who advises Nature Iraq) again joined Nature Iraq and the Iraqi Ministry of Environment's bird team during their Key Biodiversity Areas survey and Nature Iraq/BirdLife International annual training course. Many new breeding areas were discoveredand first breedings in Iraq for Common Starling *Sturnus vulgaris*, Upcher's Warbler *Hippolais languida* and Eastern Orphean Warbler *Sylvia crassirostris* (found breeding at six and two sites respectively) were recorded. A total of 26 pairs of Egyptian Vultures *Neophron percnopterus* were located, as well as two pairs of Peregrines *Falco peregrines*, two pairs of Kurdish Wheatears *Oenanthe xanthoprymna*, two pairs of Barbary Falcons *Falco pelegrinoides* and a singing Eastern Bonelli's Warbler *Phylloscopus orientalis*. Great Reed Warblers *Acrocephalus arundinaceus* were found nesting at two sites, and Sedge Warblers *Acrocephalus scirpaceus* was found at one site – if breeding is proven here, this would be the first time it is observed in Iraq. A pair of Eastern Mourning Wheatears *Oenanthe lugens* were on territory at Peramagroon and European Rollers *Coracias garrulus* were breeding at nine sites.

In addition, Eastern Cinereous Buntings *Emberiza semenowi* were observed at 12 sites (60 pairs in total). Little Swifts *Apus affinis* were breeding in two colonies of over 10 and 50 pairs in caves at Chami Razan, and Dukan. Alpine Swifts *Tachymarptis melba* were found at two colonies at Ahmed Awa (S4A) and Bekhal Waterfall (Near E12- Gali Ali Beg). Six Desert Finches *Rhodospiza obsoleta* were found at three sites and were probably nesting.

In April, May, and June over 40 sites were visited in southern, western, and central Iraq. Redcrested Pochards *Netta rufina* were observedbreeding for the first time in Iraq in the Southern Marshes, and a total of 593 adults were counted. In the south, Ferruginous Ducks *Aythya nyroca* were also discovered nesting at several sites and 129 adults were observed, while over 270 Marbled Ducks *Marmaronetta angustirostris* were found – most appeared to be breeding. The endemic Basra Reed Warbler *Acrocephalus griseldis* were found in good numbers and a total of 129 counted, many in newly flooded areas where the reeds are successfully recolonising. Similarly, the endemic Iraq Babbler *Turdoides altirostris* was present in many sites that were visited and a total of 93 were observed. In various areas around the edge of the marshes 57 individuals of the near-endemic Hypocolius *Hypocolius ampelinus* were also found.

In the central and western Iraq surveys Marbled Ducks were found at four sites where they were most likely breeding. Slender-billed Gulls *Chroicocephalus genei* were observed at 15 sites totalling 467; display and pairing was noted at one site. Over 90 Armenian Gulls *Larus armenicus* were also counted but there was no evidence to suggest breeding. Spur-winged Lapwings *Vanellus spinosus*, White-tailed Lapwings *Vanellus lencurus*, and Collared Pratincoles *Glareola pratincola* were all found in areas where breeding was suspected. Lesser Kestrels *Falco naumanni* and a pair of Egyptian Vultures *Neophron percnopterus* were discovered breeding to the west of their known breeding range in Iraq. In the autumn, during Nature Iraq's searches for migrant Sociable Lapwings *Vanellus gregarius*, a female Red-footed Falcon *Falco vespertinus* (found on 14 October near Tikrit) was the first observed in Iraq.

Later in summer, in a separate survey not covered by the site review in this report, White-winged Snowfinch *Montifringilla nivalis*, Golden Eagle *Aquila chrysaetos*, Lammergeier *Gypaetus barbatus*, Winter Wren *Troglodytes troglodytes* (first breeding record for Iraq) and Black Redstart *Phoenicurus ochruros* were observed at Peramagroon Mountain (S6).

It is important to note that the KBA conservation assessments done in this report are only provisional. The counts for species listed in the criteria table for each site are the actual counts obtained in the field and do not represent any extrapolation. Images of some important Bird species can be found in Annex D.

General findings on plants

Two plant species (*Rumex ribes* and *Firtillaria imperialis*) have always been collected by people for food and ornamental purposes; and are gathered at a rate that may threaten these species at many sites where it has historically been found.

The oak trees (*Quercus* sp.) were the most dominant plants at most of the sites and are considered the representative tree of Kurdistan, northern Iraq. Some plant families such as Poaceae, Fabaceae, Juganaceae, Caryophyllaceae, Lamiaceae, Asteraceae, Fagaceae, Liliaceae, Boraginaceae, Ranunculaceae, Brassicaceae, Apiaceae, and Scrophullaraceae were present at most sites. However, other families, such as Thymelaceae, Zygophyllaceae, Tamaricaceae, Valerianaceae, Orchidaceae and Viscaceae, were only occasionally found in some sites.

A complete list of threatened, rare and/or endemic plants is not yet available for Iraq, but an initial list was completed by the Royal Botanical Gardens Edinburgh. This list requires additional surveys before it is finalized; therefore the findings in this document concerning rare and endemic species are preliminary. There may be many endemic/near-endemic or rare (or both) plants at many of the sites that indicate the high conservation value of the sites. Some of these plants were very rare or restricted to only one site. They may meet the first IPA criteria of being threatened species, but more botanical and Red-listing studies would be needed to determine this. The table below lists the conservation status of plants for Kurdistan (note that the conservation status listed here is provisional):

Scientific Name	Potential conservation status	Found in the following sites	
Symphytum kurdicum	Regional Endemic	S6, S11, D5, S33, D2A	
Pisum formosum	Regional Endemic	S23, S6, S24, S10, S26, S11, S32B, S4B, E8A, E18, E14, D5, D2A, D18, D16	
Onosma albo-roseum	Regional Endemic	S10, S11, S4B, E5A, E18, E14, D2A, D18	
Bromus brachstachys	Rare	S11, E8A	
Silybum marianum	Regional Endemic	S23, S10, D10	
Notobasis syriaca	Regional Endemic	S23, S10, S26, S2, E8A, E18, D10	
Hymenocrater longifrons	Regional Endemic	S4B	
Orchis colina	Rare	S4B	
Quercus macranthera	Rare	S27, S6 (new site), D16, D5, D2B, S32B	
Ranunculus sphaerospermus	Rare	S5	
Tamarix brachystachys	Rare	S5	
Cephalaria syriaca	Regional Endemic	S26, S2, S11, S32B, S4B, E8A, E14, D5, D2A, D18, D16	
Paronchyia kurdica	Regional Endemic	S6, S24, E14, D16	
Juncus effuses	Very Rare	S2, S32B	
Rubus caesius	Rare	S1	
Muscari tenuiflorum	Rare	S1	
Alcea sulphorum	Rare	S1	

 Table 6: Potential conservation concern plant species and their occurance in within 2010 survey sites in Iraqi Kurdistan

Thymus syriacus Campanula mardinensis Lactuca hispidus Cousinia odontolepis Phelypaea coccinea Zeugandra iranica Salix babylonica Cousinia inflate Aristolochia paecilantha Allium chryantherum Astragalus helgurdensis Fibigia suffroticosa Tulipa kurdica Dianthus asperula Astragalus spinosus	Regional Endemic Regional Endemic Very Rare Very Rare Very Rare Rare Regional Endemic Rare Rare Regional Endemic & Rare Rare Rare Rare Rare Rare Rare Rare	S6, S2, E8A, D2A S6, S24, S10 S6, S6, S2, S32B S2 S6 (new site), S24 S23, S6, E5A, D2A E5A E14 S4B, D2A E13, E15, D16, S23, S11, D5
Linum velutinum	Rare	D5, D2A,
Briza minor	Rare	S23, D5
Asyneuma amplexicaule Amplexicaule	<i>spp.</i> Rare	D5,
Delphinium kurdicum	Regional Endemic	D8,
Michauxia tchihatchewii	Rare	D2A
Cicer bijugum	Very Rare	D10
Michauxia nuda	Rare	E5
Iris germanica	Rare	S4B
Hesperis kurdica	Regional Endemic	S32B
Gladiolus kotschyanus	Rare & Regional	D16
Iris barnumae	Endemic	E1
Anacamptis pyramidalis	Very Rare	D2B
Cephalanthera kurdica	Regional Endemic	S11, S4B, E14, D5, D2A
Ornithogalum iraqense	Regional Endemic	E1
Hesperis straussii	Rare	S32B
Himantoglossum hircinum	Regional Endemic	D2A

By evaluating the southern sites based on their plant species richness (strictly by number of plant species), the highest quality sites in the south were: Umm An Ni'aaj (HZ1), Udhaim (HZ2), Bushes near Umm Al Warid (HZ9), Abu Zirig (CM16), Zubaidaat (MN2), , Umm Qasr Port (KZ6), Tell Al Laham (TQ2), Jabal Senam (BR1), Al Lehais (BR4), Al Basrogia (ME 13), Razzaza Lake (ME5), and Wadi Al Waaer (NJ1).

The southern sites were also evaluated on their overall ecological condition on a scale of 1-5, with 1 indicating 0% disturbance, or no impact, and 5 representing 100% disturbance or impact. Given the massive drainage campaign of the 1990s in the Southern Mesopotamian marshlands, no site can be considered to have no impact or disturbance. This scale is considered a rough estimate of ecological recovery. Abu Zirig (CM16) and Bushes near Umm Al Warid (HZ9) are the only sites that were rated at 2 (25% disturbed); Teeb Oasis (MN5) is the only site that rated at 30

5, or 100% disturbed. All the other sites were rated 3 (50% disturbed) or 4 (75% disturbed) because of changes in these sites mainly due to the water shortage and other threats.

Evaluation of sites based on their richness and habitat types is still an on going process within the Nature Iraq KBA Project. This discussion presents only preliminary findings from the last survey. A list of sites that match these criteria is not complete, but there are some sites that may match one or two of these criteria. The Mesopotamian marshlands (and the survey sites that lay within these marshlands) should be considered key threatened habitats of regional and global importance. Sites such as Umm An Ni'aaj (HZ1), Udhaim (HZ2), Bushes near Umm Al Warid (HZ9), and Abu Zirig (CM16) are relatively rich in plant species, particularly in aquatic plants. Other sites such as Zubaidaat (MN2), Umm Qasar Port (KZ6), Tell Al Laham (TQ2), Jabal Senam (BR1), Al Lehais (BR4), Al Basrogia (ME 13), Razzaza Lake (ME5), and Wadi Al Waaer (NJ1) are relatively rich with desert or halophytic plants. A complete list of threatened, rare and/or endemic plants is not yet available for Iraq but an initial assessment was done in this report giving the status of most of the plants identified during the last survey (Spring 2010, see Annex B). Images of some of the common and/or important plant species can be found in Annex D.

Issues and areas of importance for other species

Sites

Local interviews conducted as part of the KBA studies identified the possible presence of several globally and national threatened species of animals in areas surveyed. Evidence from nterviews revealed the potential presence of the Persian leopard *Panthera pardus saxicolor*, which is classified as globally near-threatened (NT) and was nationally reported as extinct (EX) until two specimens were identified in 2008 in Diyala (from an animal hunted near Mandli (DY4)) and Darbandikhan (S1) (near the village of Mortka from an animal killed by landmines). Sightings of this species were reported at three sites in the current survey: Bradost Mountain (E18), where border guards reported a sighting of the animal in 2008; Ahmed Awa area (S4A), where residents reported that a Persian leopard had been killed by local hunters on the Iran-Iraq border in 2002; and Assos Mountain area (S32), where a Persian leopard was observed by a hunter in a nearby agricultural field in 2009.

Residents interviewed also reported sightings of the Striped hyena *Hyaena hyena* (NT) in the Chumlagh village area near Dukan Lake (S2) and Bradost (E18) and Sakran Mountains (E14).

One was also recently killed by hunters in Dalmaj (ME11). Interviewees also reported sightings of the Eurasian otter Lutra lutra, which is recognized as a near-threatened (NT) species by IUCN Red List. At Dukan Lake (S2), a fisherman recalled the killing of an otter in 1996, which was then sold for \$U\$200. Fishermen at Darbandikhan Lake (S1) also reported observations of otters on separate occasions. Otter sightings were also reported in the areas of Awesar and Bradost, and tracks had been spotted along the Fishkaboor River (D11). In addition, tracks and signs of the Eurasian Otter were found along the Little Zab River in the village of Klesa a few kilometers downstream from Dukan and upstream of Taq Taq (E2). Some tracks and signs (fish scales) were found in West Hammar, which were thought to be for the smooth-coated Otter based on the description of the local fishmen. Wild goats Capra aegagrus (VU) are found in considerable numbers in the Barzan area (E8), with the winter count totalling at approximately 80 and a summer count of 12. (Note: an outbreak of PRR virus has caused high mortality in wild goats at Barzan during December 2010/January 2011). Tracks and scats of wild goats were identified in Peramagroon Mountain (S6). Reports of wild goat sightings were also made by the locals interviewed in Darbandikhan (S1), Qara Dagh (S11), Assos Mountain (S32), Awesar (S4B), and Bradost Mountain (E18). Residents also reported 22 wild goats that were hunted in Sakran Mountain (E14) last year.

Data gathered during the survey also suggests the presence of several global and locally threatened species at certain sites. This includes, for example: the Goitered gazelle Gazella subgutturosa (VU) and Roe deer Capreolus capreolus (LC) in the Maidan area (S22); Persian fallow deer Dama dama mesopotamica (EN) was reportedly seen by a local in 2006 in the Ser Amadia area (D2A) (this animal is thought to be extinct in Iraq according to the IUCN); the Eurasian lynx Lynx lynx (LC) in the Darbandikhan area (S1) and Mountain sheep Ovis ammon (LC) at Daban Mountain (Homer Qawm & Shadala Valley (S24)). There are some reserves in Iraq managed by the Ministry of Agriculture and during 2010 one, the Rutba and Al Massad Gazelles Reserve (AN12), was visited in winter that has several enclosures holding Goitered gazelles G. subgutturosa (David Mallon of the IUCN/SSC Antelope Specialist Group indicated that the Rutba gazelles may all be G.s. marica, personal communication). The Brown bear Ursus arctos (LC) has been reported in Doli Smaquli (E5A), Ahmed Awa (S4A), Sakran Mountain (E14), Garagu (D5) and Dure (D16). Other mammalian species whose status is considered at a level of least concern (i.e. less likely under the threat of population decline locally and globally) and were commonly sighted include: Golden jackal Canis aureus, Red fox Vulpes vulpes, Grey wolf Canis lupus, Indiancrested porcupine Hystrix indica, Eastern European hedgehog Erinacious concolar, Eurasian badger Meles meles, Brown hare Lepus capensis, Wild boar Sus scrofa, Jungle cat Felis chaus, Wild cats Felis silvestris, Persian squirrel Sciurus anomalis, and Common gray mongoose Herpestes edwardsii.

Interviews revealed that the majority of sites surveyed are under threat due to uncontrolled hunting. Areas reportedly inhabited by rare animal species are the areas of most intensive uncontrolled hunting activity. As detailed in a recent Nature Iraq report on animal trade and hunting in Iraq, uncontrolled hunting and trade is likely the primary cause of any decreasing population in rare species. The bodies of animals hunted are commonly sold and used for their hides and meat, and consumed for food or traditional medicinal use. Species used for folk remedies include Indian-crested Porcupine Hystrix Indica, which is believed to treat high blood pressure, Eurasian Magpie Pica pica, which supposedly cures typhoid disease, Eurasian Badger Meles meles, which is used for lowering blood cholesterol. Immediate action must be taken to regulate hunting in areas inhabited by rare and endangered animals. Particular attention must be paid to decreasing numbers in areas that once supported high population numbers but have been in continuous decline since the 1980s. Safe regions away from residential or urban areas must be determined to enable a secure distance between rare and endangered species and agricultural/livestock areas. Several incidents have been reported of farmers killing certain species that pose a threat to their herds or crops, most commonly Grey wolves Canis lupus (that are reported to have attacked sheep herds) and Wild boars Sus scrofa (reported to have destroyed crops).

Animal Markets & Trade Issues

The issue of animal hunting and trade is a recurring issue and one that Nature Iraq survey teams have faced throughout the six years of field survey work conducted within Iraq. Unsustainable and uncontrolled hunting and animal trade issues have been raised repeatedly, and are supported by a vast body of evidence and anecdotal information concerning the negative impact of these activities. Hunting is a significant concern in Iraq as there is no system of classification in place in Iraq by which the endangered animals can be recognized and awareness can be raised amongst the community about their status. It is because of the lack of classification that the hunting of many of endangered animal species (including the Wild goats *Capra aegagrus*, which is considered a vulnerable species according to the IUCN "Red List" of endangered species) continues and is increasing.

Iraqi Law No. 17 of the Iraq Wildlife Protection Law of 2010 recognizes 13 points regarding the issues of hunting and trade. This article aims to promote Iraq's wildlife as national heritage, and should be protected (with regard to hunting regulations) as such. While this new law gives a

rough outline of hunting procedures, it has not addressed the issue of wildlife trade within the country and between neighboring states. The Iraqi animal market is an unregulated 'black' market through which many endangered species can be viewed and bought. Markets may be attended by people who simply go to view rare species they would otherwise not see, or to purchase animals despite having insufficient knowledge of how to care for them (for example, crocodiles, snakes or even large cats, such as the African lion). Many endangered or rare species are hunted in these regions and transported throughout the country. Persian squirrels *Scuirus anomalus* are hunted in large numbers in the Kurdistan region and transported to south and central Iraqi markets for sale. As the Kurdistan Regional Government (KRG) and its police force have exercised tighter control over the region's markets, hunters and wildlife traders have extended their activities to areas under weaker police jurisdiction.

Animal trade within Iraq includes importing exotic animals through local zookeepers who obtain licenses to import the animals (which are subsequently resold to private zoos and individuals). Zookeepers also import these animals by illegally obtaining them through professional hunters in the region who smuggle the animals in to the country. Various methods are employed by hunters (in one, for example, a hunter in Sulaimani claimed to have smuggled a Wild Goat *Capra aegagrus* to Iraq from Iran by coloring its fur to mislead checkpoint officers who may have no background in identifying internationally protected animal species, such as those listed on the CITES appendices lists. The animal trade is a relatively more open business in south and central Iraq, where law enforcement is more lax compared to the Kurdish region. It is not uncommon to find globally threatened species for sale on roadsides and in small village markets.

The most significant finding in this survey was the implication of government authorities' involvement in the illegal animal trade, whether to exploit animals for their fur, meat, or as private zoo specimens. It is highly likely that officials or anyone else that maintains private zoos in Iraq and pay traders to obtain rare and/or exotic species do not possess adequate knowledge of how to care for these animals. Particularly for large predator species, it is also likely that these animals will be killed when they reach maturity and become too dangerous to handle.

Locals interviewed near KBA survey sites provided a rough outline of hunting activities in the country. There is extensive hunting in the Kurdistan region despite legislation prohibiting hunting within the area. Hunting in the south of Iraq is largely uncontrolled and is suspected to be as equally prevalent, although poor security conditions in some areas may limit such activities or limit it strictly to locals.

Iraqi law has neglected to address animal conservation and hunting issues in anything other than a perfunctory fashion, with few steps taken toward their implementation. The most recent law created in 2010 regarding animal protection has not yet been implemented as most of the law's articles require certification by scientific authorities. As Iraq is not yet a member of CITES, animal species of specific concern to the CITES appendices are not recognized as such. Data on population numbers is insufficient, prolonging the possibility of conclusive statements on the sustainability of current harvesting practices in Iraq. Based on reports by local people interviewed as part of the KBA's survey on the presence and numbers of species in each area, a rough list of species declining in number is being developed. This data can guide future legislation, enforcement and research efforts. Although the uncontrolled hunting and trade of animals is likely to have had a major and adverse impact on the biodiversity of Iraq, there has still been no comprehensive research undertaken to quantify these trends. As Iraq has recently become a signatory to the Convention on Biological Diversity (CBD), it will be required to develop and implement a National Biodiversity Strategy and Acton Plan (NBSAP). This plan will require a thorough review of trade and hunting legislations in Iraq and, it is hoped, will take appropriate action to address the declining fauna diversity.

Zoos

Another factor that exacerbates Iraq's illicit animal trade is the level of involvement of zoos. Zoos obtain animals according to their customers' request and continue to fuel the demand for the trade. Zoos have become a market within itself where trade in wild species takes place. Zoos exploit their licensing priviliges to receive and maintain exotic species to import species for sale, in addition to their own collection. A preliminary study during the KBA survey shows that the majority of Iraqi animal markets are involved in the animal trade. More critically, the study reveals that local zoos generally do not have staff trained in handling the animals they keep. This lack of vital knowledge may be due to the fact that zoos are run chiefly for profit, resulting in very poor living conditions for the captive animals that do not seek to recreate their natural habitat. Animals imported for zoo collections are generally brought from Thailand, Africa, and Europe. Many species are also captured in the region, including Wild goats *Capra aegagrus*, Gray wolf *Canis lupus*, Brown bear *Ursus arctose*, Striped Hyena *Hyaena hyaena*, Goitered gazelle *Gazella subgutturosa*, Red fox *Vulpes vulpes*, Golden jackal *Canis aureus*, Indian crested porcupine *Hystrix indica*, Cape hare *Lepus capensis*, Eastern European Hedgehog *Erinaceus concolar*, Persian squirrel *Scuirus anomalus*, Jungle cat *Felis chaus*, and many song birds and birds of prey.

Dukan is a district in As-Sulaimaniyah governorate (located at the latitute 35° 15' 0" north and longitude 45° 33' 0" east), Northern Iraq, in which a small, unauthorized zoo of approximately 100m² is known to exist. The zoo functions as a private animal house where most, if not all, of the animals held have been captured in the Kurdistan region. The animals suffer from nutritional deficiencies as they are not given adequate food. Malnutrition and poor treatment in general causes a high level of disease amongst the animals, in turn leading to a high mortality rate, thus requiring the zoos to constantly replace animals. The increasing number of animals in captivity impacts biodiversity in the wild. Little data exists on how these practices are affecting population numbers and the conservation status of species in Iraq. It is clear that the main purpose of Iraqi zoos is for entertainment and profit, rather than education and conservation, as indicated by the poor knowledge of zookeepers in handling and caring for the animals. The health and living conditions of animals in both Iraqi zoos and animal markets are extremely poor, and urgently warrant an improvement in standards of animal care. Zoos must include an educational aspect to their public displays. It is highly recommended that animal facilities display signs on cages that accurately explain the type of species, their origin, diet, behavior, and conservation status. Iraqi law must address the urgent needs for Iraq's wildlife including: the regular conduction of scientific studies on animal populations; the regulation of hunting and trade in compliance with environmental sustainability standards in alliance with the Iraqi Ministry of Environment, Iraqi Ministry of Agriculture and the scientific study groups/think tanks in order to circumvent the impacts of animal hunting and trafficking in Iraq; and the education of local zoo keepers regarding animal care, park management, and their role in wildlife conservation.

Images of some of the common and/or important species can be found in Annex D.

Overall Conservation Concerns & Recommendations

There are many threats that pose a real danger for species, sites, and/or individual habitats. These threats include livestock production/grazing, agriculture (clearing of fields, unsustainable water use, runoff of agricultural chemicals, pesticide use), hunting practices, sewage and garbage from human settlements, and activities and disturbances related to tourism, road infrastructure and other constructions, gravel mining, dams, industrial ground and water pollution, oil development, and land mines. The majority of sites are threatened by one or more of the risks listed above.

In 2010, field teams attempted to assess survey sites based on the eleven threat types (or pressures) defined by the IUCN. Each threat type was assessed; if possible, based on its Timing, Scope and Severity to develop an integrated "Threat Status Score" of four options Low threats, Medium threats, High threats and Very high threats. These threat types are listed below and the results of this first threat assessment are presented in the following maps.

Agricultural Expansion and intensification (See Plate 4 below);

Residential and commercial development (See Plate 5 below);

- Energy Production and mining (gravel mining, oil development, electrical towers, etc.) (See Plate 6 below);
- Transportation & service corridors (development of roads and shipping corridors) (See Plate 7 below);
- Over-exploitation, persecution and control (logging, hunting, over-fishing, etc.) (See Plate 8 below);
- Human intrusions and disturbance Effects related to non-consumption of biological resources recreational activities, war, military exercises, work and other activities (See Plate 9 below);
- Natural systems modification (dams and changes water mgmt, filling in wetlands, drainage, dredging, canalizations) (See Plate 10 below);
- Invasive or other problematic species (Was not evaluated due to a lack of information)
- Pollution (municipal and industrial waste and garbage, noise, air, light, & thermal pollution). (See Plate 11 below);
- Geological events (threats from catastrophic geological events) (Was not evaluated due to a lack of information), and
- Climate change, severe weather, drought, floods (See Plate 12 below).

Note: In some cases, the team had difficulty assessing either the scope, severity and/or timing of a particular threat; therefore, threat assessments that received a final score of 0 should be considered as either a low threat or indicate a lack of information to be able to assess the threat. This will be clarified in future threat assessments.

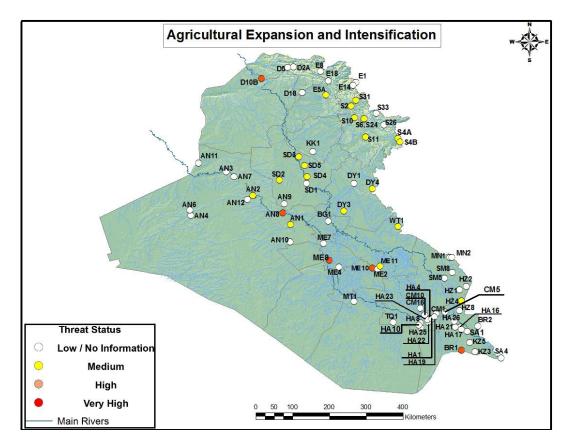


Plate 4: Sites facing Agricultural Expansion & Intensification Threats

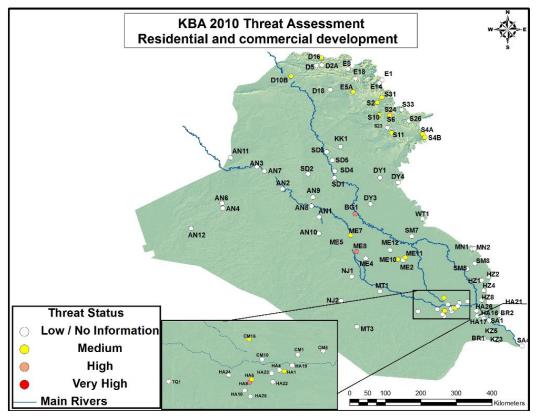


Plate 5: Sites facing Residential and commercial development threat

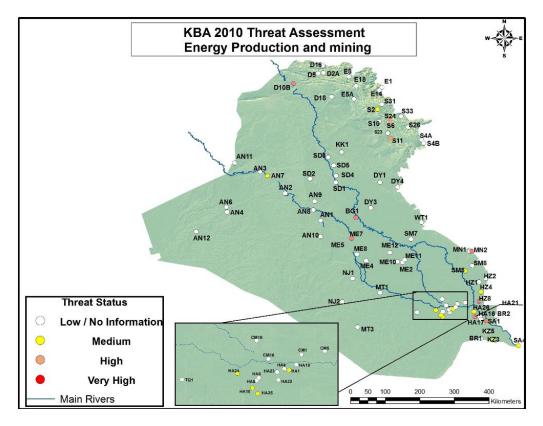


Plate 6: Sites facing Energy Production and mining threats (gravel mining, oil development, electrical towers, etc.)

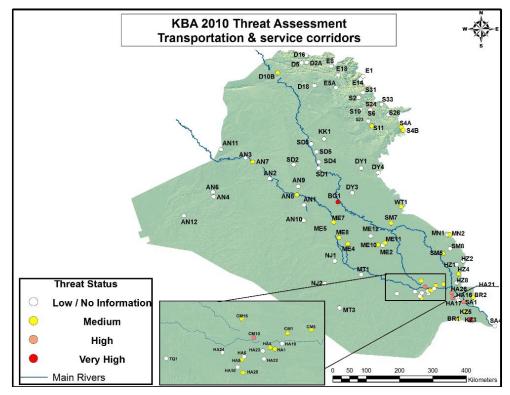


Plate 7: Sites facing Transportation & service corridors threats (development of roads and shipping corridors)

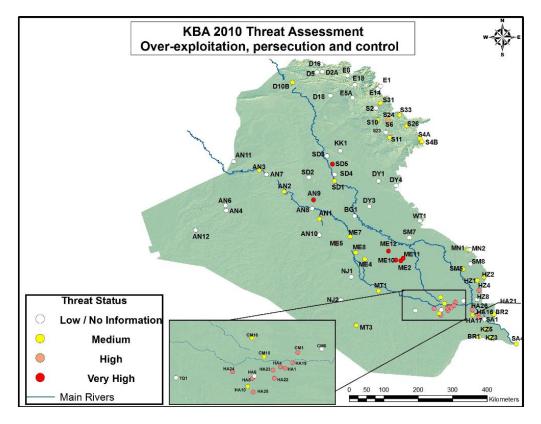


Plate 8: Sites facing Over-exploitation, persecution and control threats (logging, hunting, over-fishing,

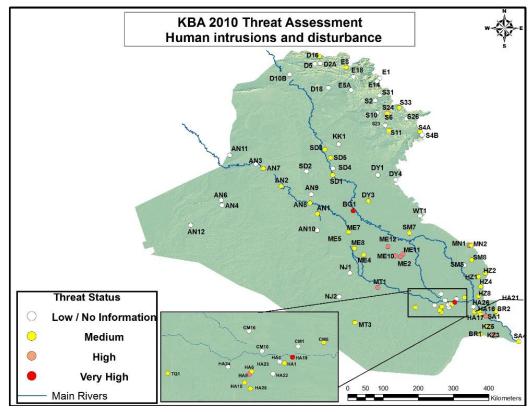


Plate 9: Sites facing Human intrusions and disturbance threats - Effects related to non-consumption of biological resources – recreational activities, war, military exercises, work and other activities

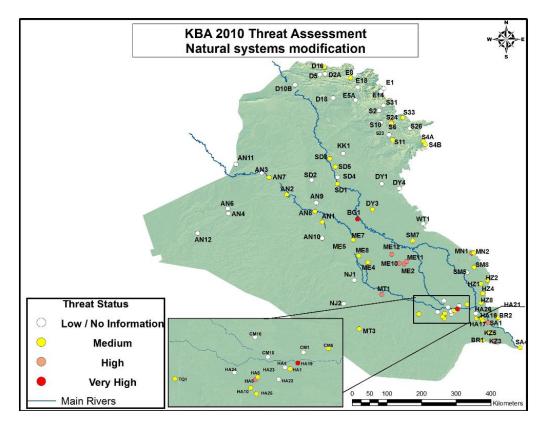


Plate 10: Sites facing Natural systems modification threats (dams and changes water mgmt, filling in wetlands, drainage, dredging, & canalizations)

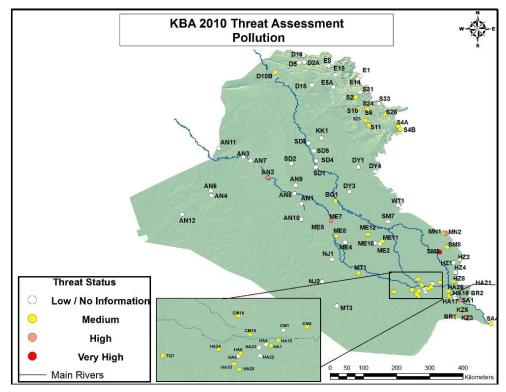


Plate 11: Sites facing Pollution threats (municipal and industrial waste and garbage, noise, air, light, & thermal pollution)

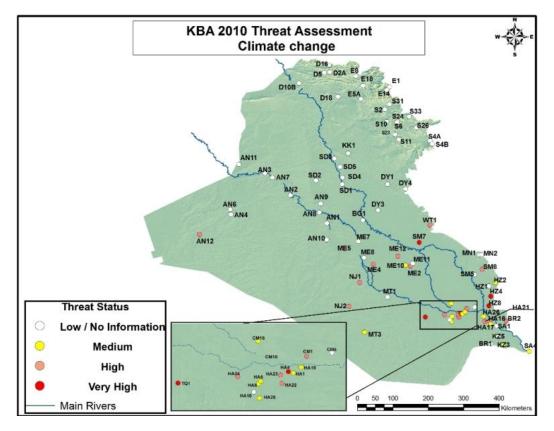


Plate 12: Sites facing Climate change, severe weather, drought, floods Threats

It should be noted that these threat assessments were primarily undertaken during the summer 2010 survey and only represent those threats that the team was able to assess during that period. In addition, the KBA team may not have had access to detailed information about the sites, and these threat assessments should be revised and updated based on additional information and future visits to these sites.

Recommendations on addressing threats to sites

Addressing threats and the need to find real and practical solutions, especially to the longstanding problem of mine fields threatening border areas, will require long-term planning, funding and a cessation of hostilities between Iraq and its neighbors (even in 2010, there were reports of Turkey and Iran laying new mines in the border region). Other areas can produce local solutions by enacting certain restrictions, such as fishing moritoriums (practiced at Darbandikhan (S1) and Dukan (S2)), limitations on hunting (practiced at Barzan (E8) and to a lesser extent in other areas), rules against car washing, and the fencing off of small areas to protect from over-grazing. However, the regional and local governments need to provide much more rigorous support for enforcement. There are several minor anti-littering campaigns, mostly conducted by non-governmental organizations or municipalities, but public compliance is very low and most sites that attract the public for recreation purposes are littered with garbage and are not provided with appropriate resources for long-term maintenance. Most sites require more signage and facilities for garbage and sewage management. An overall education campaign is needed to change public attitudes and behavior in this regard. Such a campaign should start in the local schools and extend to the general public. In addition, most of Kurdistan's beautiful and easily accessible areas require urgent restoration and remediation. Industrial development such as oil drilling, cement and asphalt factories and gravel mining, must all be subject to environmental impact assessments and be goverened by a set of strong environmental regulations that control and limit pollution to the local environment, as well as the destruction of habitats surrounding local rivers and streams. Hunting is also a major threat to wildlife, and long-term education programs are necessary to educate the locals of the importance of wildlife.

Delineation and prioritization of proposed KBA protected areas

In order to successfully carry out a field survey and biological monitoring within these ecosystems, it is necessary to determine the boundaries of the survey site where potential conservation actions may take place. Consideration must be given to the habitat, range, and size of the local plant and animal populations as well as their habitat requirements, in addition to logistical concerns (such as the ease of access to the site, the number of entry and exit points, and its physical size). This process is known as site delineation.

The following map shows the original Important Bird Areas (IBA) of Iraq with their BirdLife International site codes. This was the starting point for the KBA Project surveys that began in 2005. The map that follows this (Plate 14) shows the original IBA sites overlapped by the new delineations initiated in 2009 and refined and extended in 2010 under the KBA Project. A number of the original IBA sites remain to be surveyed in areas where security is still poor; in other areas, old IBA site delineations have been revised (sometimes reduced in size, and sometimes extended) and a number of new KBA sites have been delineated.

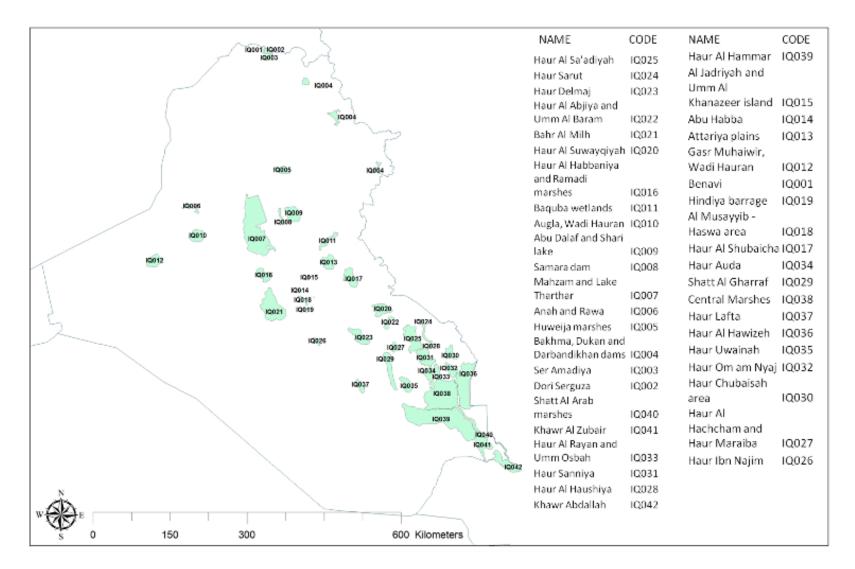


Plate 13: Map of the original Important Bird Areas of Iraq (Birdlife, 2010 based on a map developed at Nature Iraq)

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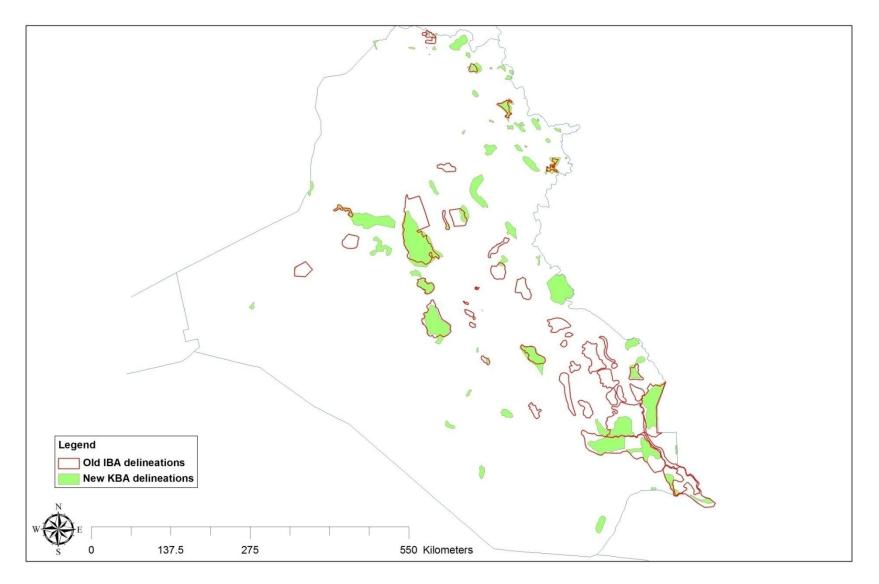


Plate 14: Map showing New 2009/2010 KBA delineations in relation to original Important Bird Areas of Iraq (Nature Iraq, 2010)

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The following three maps show a closer examination of the 2009/2010 KBA delineated sites. The KBA team attempted a preliminary delineation of many sites throughout Iraq in 2009. In 2010 the team attempted to further refine these delineations and delineate new priority sites throughout the country. Note in some cases these maps show sites delineated in 2009, but only sites delineated in 2010 are discussed in this report.

It should be noted that not all sites that have been delineated (and shown in these maps) have been confirmed to meet KBA criteria or do not have strong evidence that they meet these criteria. A more comprehensive, multi-year assessment is currently underway to fully document the sites meeting these criteria and prioritize them for conservation action.

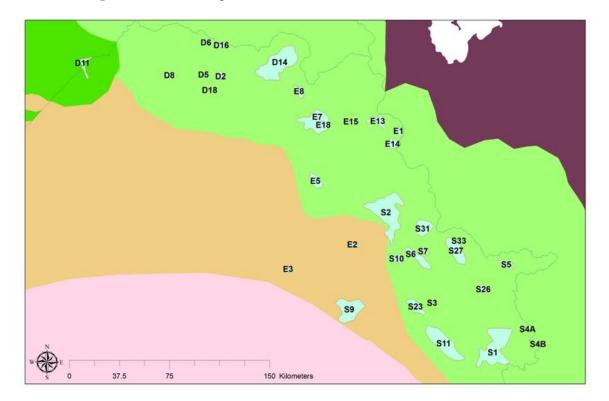


Plate 15: Preliminary Delineation of KBAs in Kurdistan, northern Iraq shown within their ecoregion

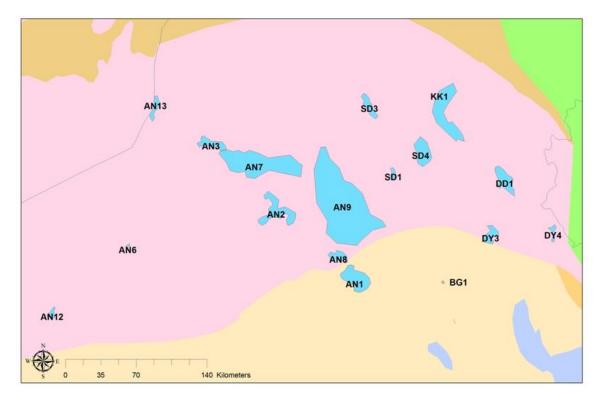


Plate 16: Preliminary Delineation of KBAs in central & western Iraq shown within their ecoregion

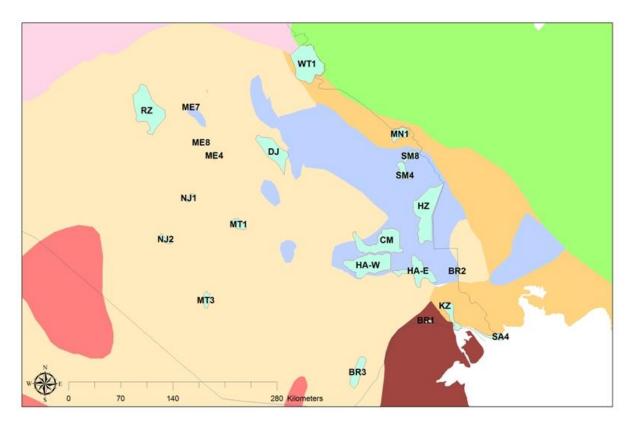


Plate 17: Preliminary Delineation of KBAs in southern Iraq shown within their ecoregion

Site Prioritization

Annex E presents a complete review of criteria findings and scoring for each site in the 2010 surveys. It also provides the area of each delineated site (in hectares), the ecoregion it is associated with, and the percentage of this ecoregion that the KBA covers. Sites were given a weighted score based on each criterion that they met (KBA, IBA, & IPA), but three additional criteria were also considered relevant: Protected Area (PA), Trans-boundary Ecological Corridor (TEC) and High Threat Status (HT). Each score was then added together to form the overall Ecological Value Priority (EVP); this final score was used to prioritize sites. The scores were weighted based on the relative strength of the criteria with a total value of all weighted scores adding up to 1. The following table shows the scoring system that was used in this assessment.

Table 7: Ecological Value Priority (EVP) weighted scoring system
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Citeria	Description	EVP Weighted scoring
IBA (Important Bird Area)	As bird surveys in Iraq represent the most extensive and complete biological data on sites, sites that strongly appear to meet the criteria (meeting two or more of the specific IBA Criteria A1, A2, A3, A4i, A4ii, and/or A4iii) received a score of 0.2.	0.2
IBA Potential	Sites that have less evidence that they may meet the criteria (meeting only one IBA Criteria) received a score of 0.15.	0.1
KBA (Key Biodiversity Areas – non-bird species only)	This criterion was used to assess only those sites that met the first KBA Criteria for Vulnerability for other (non-bird) wildlife species. This criteria requires that the site have either have one or more individuals of a critically endangered (CR) or Endangered (EN) species or 30 individuals of a Vulnerable (VU) species) and those sites that met this criteria were given a score of 0.2.	0.2
High Vegetation Richness (HVR)	In the 2010 KBA data, the strongest indication that a site is botanically important is its species richness (number of species) or IPA Criteria B. In the case of the IPA Criteria C, due to the lack of a clear classifications systems for all habitats found in Iraq, only a very broad approached using ecoregions was utilized to evaluate sites based on this critiera but this can only provide a rough and very generalized assessment of habitats and in some areas such as desert, for example the Mesopotamian Shrub Desert (PA1320), there are significant micro-habitats that simply can not be represented in an ecoregion approach. Thus only sites meeting IPA Criteria B were given a score of 0.2.	0.2
Protected Area (PA)	The PA criterion has been used to address the presence in Iraq of existing protective measures to specific areas. This score was given to any site that has some level of protection currently (Barzan (E8) is currently tribally protected from hunting), has been designated for protective status (eg. Hawizeh marshes (HZ) as officially considered a RAMSAR site in Iraq) or for which protective status is planned (e.g. a national park is currently planned in the Central Marshes (CM)). PA sites were given a score of 0.15.	0.15
Trans-boundary	The TEC criterion was added to emphasize sites that occur within border	0.05

Ecological Corridor (TEC)	areas, since ecosystems and their wildlife are crossing (or trying to cross) these borders. Border sites were given a score of 0.1.	
High Treat Status (HT)	All Total Impact scores for every threat that could be evaluated in the field were averaged for all threats resulting in a potential score of 0 (Low or No Threat/No Information) to 9 (Very High threat). As the threat assessment tended to under-report the threats sites actually faced any site that received an average Total Impact score of 4 or above was assigned an HT score of 0.1.	0.1
Total Score		1

Total Score

The following table provides the EVP scores of the sites based on the strength of the criteria assessment shown in the table in Annex E. This assessment is based only on one year of data, and in some cases, the evidence indicating that a site meets specific criteria may not always be very strong or completely accurate. Lastly, some new sites that were visited only by the botany team have been excluded and the scores of large sites have been averaged from the scores received by the individual survey sites.

Table 8: Ecological Value Priority scoring for 2010 KBA Sites organized by ecoregion (Note: EVP scores for large sites with multiple survey sites have been averaged)

Governate	Site Name	Site Code	EVP (Avg)		
Zagros Mountains	Zagros Mountains Forest Steppe (PA0446)				
Erbil	Barzan	E8	0.7		
Sulaimani	Peramagroon Mt & Homer Qawm and Shadala Valley	S6 & S24	0.7		
Sulaimani	Qara Dagh	S11	0.7		
Erbil	Bradost Mountain	E18	0.6		
Sulaimani	Parazan	S26	0.6		
Erbil	Sakran Mt-Choman Reserve	E14	0.55		
Sulaimani	Assos Mountain	S32A & B	0.5		
Sulaimani	Awesar	S4B	0.45		
Dohuk	Ser Amadia	D2A	0.4		
Erbil	Doli (Valley) Smaquly	E5A	0.4		
Sulaimani	Chami Razan	S10	0.4		
Sulaimani	Dukan Lake and Surrounding Area	S2	0.4		
Sulaimani	De Lezha	S23	0.4		
Erbil	Haji Omran Mountain	E1	0.35		
Sulaimani	Ahmed Awa	S4A	0.35		
Dohuk	Dure	D16	0.3		
Dohuk	Chamanke	D18	0.3		
Dohuk	Garagu	D5	0.3		
Sulaimani	Darbandikhan Lake and Surrounded Area	S1	0.3		
Sulaimani	Gmo Mountain	S33	0.3		
Sulaimani	Hazarmerd	S34	0.2		
Sulaimani	Sargalu	S7	0.2		
Sulaimani	Maidan Area	S22	0.1		
Sulaimani	Qadr Karam	S30	0.1		
Erbil	Bahraka	E11	0		
Middle East Steppe					
Dohuk	Mosul lake	D10	0.5		

Governate	Site Name	Site Code	EVP (Avg)
Erbil	Altun Kopri	E3	0.2
Tigris-Euphrates alluv	vial salt marsh (PA0906)		
ThiQar & Basrah	Central marshes	CM1, CM5, CM10, & CM16	0.475
Missan & Basrah	Hawizeh marshes	HZ1, HZ2, HZ4, HZ8, & HZ9	0.4
Babylon	Hindiya Barrage	ME7	0.3
Basrah	Euphrates & Tigris Junction	SA1	0.3
Basrah	East Hammar	HA16, HA17, HA21, & HA26	0.275
ThiQar	West Hammar	HA1, HA4, HA6, HA8, HA19, HA22, HA23, HA24, & HA25 (HA3, & HA28 removed because of the group, these two sites were not surveyed for birds)	0.23
Missan	Sinnaaf Area, Western	SM5	0.2
Missan	Teeb	SM8	0.2
Basrah	Kteibaan	BR2	0.05
Wasit	Shuweicha Marsh	SM7	0
Eastern Mediterranea	n conifer-sclerophyllous-broadleaf forest (PA1	207)	
Dohuk	Fishkhaboor	D11	0.1
Arabian Desert and E	ast Sahero-Arabian Xeric Shrublands (PA1303)	
Qadissiya, Najaf & Karl	oala Dalmaj Marsh	ME10, ME11, & ME12	0.5
Baghdad	Jadriyah and Umm Al Khanazeer Island	BG1	0.5
Najaf	Wadi Al-W'eir	NJ1	0.4
Karbala	Razzaza Lake	ME5	0.3
Basrah	Kharanij	BR3	0.3
Anbar	Habbaniya Lake	AN1	0.2
Basrah	Lehais	BR4	0.2
Qadissiyah	Basroogiya	ME13	0.2
Babil	Ibn Najm	ME4	0.2
Babil	North IbnNajm	ME8	0.2
Muthanna	Sawa Lake	MT1	0.2
Najaf	Sh'eeb Abu-Talha	NJ2	0.2
Thi Qar	Tell Al-Laham	TQ2	0.2
Muthanna	Salman	MT3	0.1
Thi Qar	Suwaibaat, South	TQ1	0.1
Karbala	Al-Taar	KR1	0
Karbala	'Ein Al-Tamr	KR2	0
Mesopotamian Shrub			
Salah ad Din	Tharthaar Lake & Dhebaeji Field	SD2	0.4
Wasit	Jazman (Zurbatia)	WT1	0.25
Anbar	Rutba and Al Massad Gazelles Reserve	AN12	0.2
Anbar	Rahaliya and Razzaza Lake	AN10	0.2
Anbar	Haditha Wetlands & Baghdadi	AN2	0.2
Anbar	Anah & Rawa	AN3	0.2
Anbar	Al Nekheab District Oases - Al Hussayniyah	AN4	0.2
Anbar	Qadissiya or Haditha Dam	AN7	0.2
Anbar	Hawijat Albu Dheab and Al Ramadi Marshes	AN8	0.2
Diyala	Attariya Plains	DY3	0.2

Governate	Site Name	Site Code	EVP (Avg)		
Kirkuk	Huweija Marshes & Beagi	KK1	0.2		
Salah ad Din	Mahzam	SD3	0.2		
Salah ad Din	Abu Dalaf & Shari Depression	SD4	0.2		
Salah ad Din	Jallet Albu Ageel	SD5	0.2		
Anbar	Tharthar Lake, Western Edge	AN9	0.2		
Diyala	Himreen lake	DY1	0.2		
Anbar	Sabkhat Albu Garis	AN11	0.1		
Anbar	Gasr Muhaiwir	AN6	0.1		
Diyala	Mandli	DY4	0.1		
Salah ad Din	Samarra dam & Wetlands	SD1	0		
Persian Gulf desert and semi-desert (PA1323)					
Basrah	Jabal Senam	BR1	0.25		
South Iran Nubo-Sindian desert and semi-desert (PA1328)					
Missan	Teeb oasis & Zubaidaat	MN1 & MN2	0.325		
Basrah	Ras Al-Beesha (Fao)	SA4	0.2		
Basrah	Khor Az Zubayr	KZ3, KZ4, KZ5, KZ6	0.15		

*Scores for HA3, & HA28 were removed before calculating the average EVP because these two sites were only partially surveyed in 2010.

Based on the table above, sites in the Zagros Mountains Forest Steppe (PA0446) ecoregion with some of the highest EVP values are: Barzan (E8), Homer Qawm, Shadala Valley & Peramagroon Mt (S24, S6), Qara Dagh (S11), Bradost Mountain (E18); Parazan (S26); Sakran Mt-Choman Reserve (E14) and Assos Mt (S32A & B).

Mosul Lake (D10) and Altun Kopri (E3) are the only sites in the Middle East Steppe ecoregion (PA0812) that were surveyed for 2010.

For the Tigris-Euphrates alluvial salt marsh ecoregion (PA0906), some of the top sites include the Hawizeh Marshes (HZ sites), the Central Marshes (CM sites), Hindiya Barrage (ME7), East Hammar and West Hammar (HA Sites).

Fishkhaboor (D11) is the only site in the Eastern Mediterranean conifer-schlerophyllousbroadleaf forest (PA1207) ecoregion.

Some of the top sites in the Arabian Desert and East Sahero-Arabian Xeric Shrublands (PA1303) are Dalmaj Marsh (a Middle Euphrates site), Jadriayah and Umm Al Khanazeer Island in Baghdad (BG1), Wadi Al W'eir (NJ1), Razzaza Lake (ME5) and Kharanij (BR3). These sites were evaluated by two separate teams and in some cases site were not evaluated for plants or for other species. Thus these sites and their level of prioritizations is likely in need of further field work and review.

The key sites in the Mesopotamian Shrub Desert (PA1320) ecoregion were Tharthaar Lake and Dhebaeji Field (SD2) and Jazman (Zurbatia) (WT1); the latter is a transborder area that is close

to both the Zagros Mountains Forest Steppe (PA0446) and the South Iran Nubo-Sindian desert and semi-desert (PA1328) ecoregions. Please note, the Rutba and Al Massad Gazelle Reserve (AN12) was removed from the table above as it is not a "natural" site due to the presence of large enclosures to contain the gazelles. In addition, none of the sites in central and western Iraq were evaluated by a botanical team therefore this lowered the scoring of these sites. Many of the sites in the table above that received an EVP score of 0.2 are likely also important sites for conservation. In addition, these sites have received the fewest survey visits and more work is necessary to fully characterize them.

Jabal Senam (BR1) remains the only site within the Persian Gulf desert and semi-desert (PA1323).

In the South Iran Nubo-Sindian desert and semi-desert (PA1328), the top sites were Teeb oasis & Zubaidaat (MN1 & MN2) and Khor Az Zubayr (KZ sites).

Much of the criteria assessment provided in the site review and reviewed in the table above should still be considered preliminary. This assessment is based only on the 2010 survey data, and in many cases (as was indicated in the shaded area of the table in Annex E), the KBA Project team is still unable to assess all criteria. Data is primarily anecedotal or based on second hand reports for non-bird fauna species; and the IPA criteria assessments were based primarily on criteria B (species richness), as the C criterion (threatened habitats) still considered to be weak if applied country-wide. As stated previously, a multi-year assessment of sites is currently underway to develop a finalized list of top priority sites and complete the criteria assessment based on all existing data.

Protected Areas Program in Iraq

The Strategic Plan of the Convention on Biological Diversity (CBD) to which Iraq is signatory, has 20 targets, organized under five strategic goals. Goal C is focused on the improvement in the status of biodiversity by safeguarding ecosystems, species and genetic diversity. There are several targets under this goal including the following (CBD, 2010):

Target 11: By 2020, at least 17 per cent of terrestrial and inland water areas, and 10 per cent of coastal and marine areas, especially areas of particular importance for biodiversity and ecosystem services, are conserved through effectively and equitably managed, ecologically representative and well connected systems of protected areas and other effective area-based conservation measures, and integrated into the wider landscapes and seascapes.

Iraq has yet to clearly define its national targets under the CBD; however, if this target is adopted in Iraq, priority KBA sites will clearly meet the target because they have been identified for their importance to biodiversity. In addition, the table below summarizes the results from the table in Annex E to provide an overall understanding of how closely the area covered by the 2010 delineated KBA sites achieves Target 11's 17% coverage of terrestrial ecoregions present in Iraq.

Ecoregion	Ecoregion Code	Area in Iraq (ha)	% Area covered by 2010 KBA Delineated areas
Tigris-Euphrates alluvial salt marsh	PA0906	3017501	18.53%
Mesopotamian Shrub Desert	PA1320	12990700	10.62%
South Iran Nubo-Sindian desert and semi- desert	PA1328	855179	9.04%
Zagros Mountains Forest Steppe	PA0446	3047020	14.10%
Eastern Mediterranean conifer- sclerophyllous-broadleaf forest	PA1207	121204	3.45%
Persian Gulf desert and semi-desert	PA1323	111335	2.62%
Arabian Desert and East Sahero-Arabian Xeric Shrublands	PA1303	19399482	1.95%
Middle East Steppe	PA0812	3791260	1.31%
Eastern Anatolian montane steppe	PA0805	3	0%
Red Sea Nubo-Sindian Tropical Desert and Semi-Desert	PA1325	518925	0%

Table 9: Ecoregions in Iraq and the % covered by 2010 KBA Delineated Areas

As can be seen in this table, over 18% (above the 17% target) of the unique and criticallythreatened Tigris-Euphrates alluvial salt marsh ecoregion (PA0906) has been delineated, whereas other ecoregions (Eastern Anatolian montaine steppe (PA0805) and Red Sea Nubo-Sindian tropical desert and semi-desert (PA1325)) have not been covered at all; though these represent relatively small areas within Iraq. A much larger ecoregion within Iraq, the Middle East Steppe (PA0812), which has a vulnerable status, has received minor attention (1.31% of 2010 KBA sites were delineated in this ecoregion). Other areas that have also receive less attention are the Arabian Desert and East Sahero-Arabian Xeric Shrublands (PA1303), which has a critical status, and only 1.95% of the 2010 KBA sites were delineated in this ecoregion. In large part, poor security in these areas has been the main reason for the lack of sites and delineated areas within these two ecoregions. Coverage has been good to excellent (beginning to approach the 17% target identified above) in the South Iran Nubo-Sindian desert and semi-desert (PA1328), the Zagros Mountains Forest Steppe (PA0446), the Mesopotamian Shrub Desert (PA1320) and the Tigris-Euphrates alluvial salt marsh (PA0906) as mentioned above.

Recommendations and Next Steps

This report has examined the findings from the 2010 survey Key Biodviersity Areas Project survey effort in southern, central and northern (Kurdistan), Iraq. As the Key Biodiversity Areas program enters its seventh year, the KBA Team is initiating a review of all previous projects since the start of the project effort to create a comprehensive list of high priority sites for conservation in Iraq. This section outlines basic goals, next steps, and recommendations for both the KBA Sites and the KBA Project as a whole.

KBA Sites

Previous reports have listed a number of next steps and recommendations that are site specific. These include education and awareness-raising of local stakeholders (children and adults); restoration activities that physically restore damaged sites; sustainable development initiatives adjacent to and within sites; creation and implementation of rules and regulations that control the use of sites, and enforcement to stop the misuse of sites.

These conservation actions need to be implemented both on the site, regional, and national scale. An example of a site scale action is the formation of Local Conservation Groups (LCGs) at individual sites that are made up of community stakeholders who have personal interests in the conservation and protection of a site. An example of a regional scale action is the enforcement of hunting and fishing regulations across districts affecting multiple sites, or a regional environmental education program focused on teaching children about the importance of preserving local biodiversity. An example of a national scale action is the creation of laws and rules that foster protection of important sites, development of national educational curriculum and teacher training focused on raising awareness about biodiversity, or the implementation of a nation-wide Protected Areas Network and Program.

Many of the sites identified in this report should be the subject of conservation actions by local, regional and/or national government stakeholders. Many of these key sites are also at risk from a variety of threats and at grave risk to further deterioration and loss of their globally significant biodiversity if actions are not taken.

Currently, Iraq has a number of laws and regulations that can be helpful in the management of sites, but these are often poorly enforced. Funds dedicated towards conservation actions are also severly lacking, and it is recommended that more training and financial resources be placed in the hands of local community and government stakeholders to begin a process to develop local

plans specifically focused at site-level management of ecosystems and species for their conservation and sustainable use.

Identification of new KBA sites

It is recommended to continue searching for more potential KBAs as many parts of Iraq still have not been visited. This includes directing the survey effort towards the desert and steppe ecosystems that dominate western and southwestern Iraq. As was stated in Table 9 above, extensive areas within specific ecoregions of the country have not yet been covered and these areas should be priorities for future survey efforts to identify new KBA sites.

A gap analysis would also speed up the process of identifying those areas that should be targeted first. The following map gives an idea of the scope of the country that remains to be surveyed (in blue).

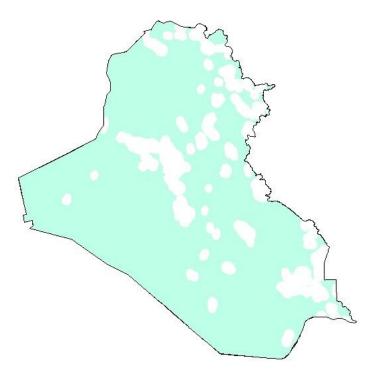


Plate 18: Areas surveyed (including a 10 km buffer) under the KBA Program are shown in white, thus blue represents the unsurveyed areas in Iraq.

In an accurate gap analysis, a vegetation map is needed to help target priority areas. It is also necessary to re-initiate a program to develop a habitat classification system for Iraqi ecosystems. This will greatly assist in the effort to more fully evaluate the Important Plant Areas (IPA) criteria. In addition, both historic and current botany information should be geo-referenced as this will also help to highlight future priority sites. It is important to examine the information on plant distributions (specifically endemics and near endemics) based on the mapping of historical and current records. Currently, the Royal Botanic Garden Edinburgh is proposing to assist in this effort, and once distibution data becomes available, this will be useful in the effort to complete the flora of Iraq.

Monitoring of high priority sites

Lastly, in terms of the KBA sites themselves, a number of the high priority KBA sites should be the subject of a regular, consistent and long-term monitoring program. They clearly meet KBA Criteria but many of these sites, such as areas in the Mesopotamian marshlands, are facing continual ecological changes and human threats. Others are relatively protected and remain unique refuges for globally threatened species. These sites require further surveys, including expanded survey efforts for different fauna groups, and longer study periods to fully assess and identify all species that are utilizing these sites to understand the role these sites play at global and/or regionallevels.

KBA Program

The KBA Program has been a rapid assessment project and not an indepth survey program. Despite this, the program has been highly successful in identifying globally and/or regionally important sites. The program should be assessed based on its six key objectives, which are as follows.

- 1. Conduct winter and summer surveys of as many potential KBA sites as possible and evaluate these sites to determine if they meet KBA criteria;
- 2. Record information on the status of the flora, fauna and overall habitats and threats to these sites;
- 3. Evaluate these sites to determine if they meet KBA criteria, delineate them and determine their conservation status;
- 4. Provide advice to the Iraq Ministry of Environment and other Iraqi stakeholders on the future management and restoration of KBA sites;
- 5. Undertake advocacy efforts that promote the protection, conservation and restoration of KBA sites; and
- 6. Publish relevant scientific and technical findings in reports and papers in peer-reviewed scientific journals to make the information widely available to stakeholders.

In 2010, Nature Iraq conducted a review of the program itself that evaluated how well these six program objectives have been met and developed a list of recommendations and next steps for the program. Each of these key objectives along with their identified recommendations and next steps are reviewed in the table below:

Table 10: KBA Objectives, Recommendations	
	· · · · · · · · · · · · · · · · · · ·
 Recommendations <i>KBA Objective 1: Conduct winter and summer survey</i> Recommendation No. 1: the IMoE should play a more active role in the management of the KBA Project, as well as take on more responsibility for monitoring of key sites. Recommendation No. 2: A comprehensive review of older KBA data is needed to assess the reliability and properly catalog and organize this data. Recommendation No. 3: More Kurdistan sites in Summer Surveys should be included for the Dohuk and Erbil Governorates. Recommendation No. 4: Focus more on visiting new sites to insure that the KBA Program continues to grow, particularly into un-surveyed areas of Iraq. Recommendation No. 5: More focus of KBA team members on gap analysis and integration of datasets should be undertaken to allow wider application of these techniques to the KBA Program in Iraq. 	 Next Steps ys of as many potential KBA sites as possible. 1) The IMOE should identify a project team and a team manager who can work mjor closely with NI during 2011 to learn all aspects of running the KBA program (including: survey planning, data review & management, and report writing). 2) Restrict surveys to only new sites (or sites that have not yet been fully assessed) identified via gap analysis (this will increasingly require GIS expertise) 3) Return to existing high-priority KBA sites only with clear objectives to gain information that is missing to complete: (a) delineation of the site; (b) threat assessment/conservation status assessment, and/or (c) implement new surveys (e.g. conduct a plant survey in an area that has only received a bird survey or conduct a socio-economy survey at a high priority site). 4) Focus on a priority Kurdistan site with a more intensive Flora and Fauna survey to support a new national park initiative (its goals would be to identify and delineate in a GIS all of the key habitats and obtain socio-economic information on the site and surrounding areas). It should be noted that botany work during 2011 and 2012 may be limited for the KBA due to work being done by the Flora of Iraq (FOI) project. 5) More comprehensive gap analysis methodology
 <i>KBA Objective 2: Record information on the status of these sites.</i> Recommendation No 6: Consistent allocation of staff from partner agencies must occur to make best use of the training and field experience they acquire year to year. Recommendation No. 7: Field data must be uploaded in a more robust SQL database to ensure integration of all field data from year to year with geographic information system technology that is able to be protected and backed up reliably. Recommendation No 8: Additional training on databases with an emphasis on basic analysis methods using databases is needed for the KBA Team. Recommendation No 9: Closer attention to data archiving protocols by Nature Iraq staff is required, with more effort needed to ensure this occurs. Some investigation of how other organizations maintain and archive their data would benefit the Program. Recommendation No 10: Data analysis of Water Quality data (after a review of data to establish its reliability is accomplished) in cooperation with TRI should be conducted and published. More extensive analysis of year to year trends in water quality, flora 	should be utilized to locate potentially good survey areas incorporating vegetation maps and geo- referencing of historical data on edemics & globally-threatened species.

Table 10: KBA	Objectives,	Recommendations	and Next	Steps	(Nature Iraq, 2010	0)
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Recommendations	Next Steps
and fauna data is needed, particularly in the	
recovering marshlands to understand how marsh recovery (and set-backs) occurred there between	
2005 and the present.	
KBA Objective 3: Evaluate these sites to determine if	they meet KBA criteria, delineate them and
determine their conservation status.	
• Recommendation No. 11: Proper geographic delineation of all proposed KBA sites in Iraq should be completed as soon as possible, using GIS technology wherever feasible.	 Refine the list of KBA sites to define existing, high- priority sites and implement evaluation of new sites (Note: In 2011, a full evaluation of all sites is planned). Refine the evaluation of sites based on Important Plant Area (IPA) Criteria (strengthen the application of these criteria). Evaluate old fisheries data to see if it can be used in this effort. Additional mammal training and mammal specific surveys should be implemented to properly assess sites for other non-bird fauna. The IMOE should assist more closely with NI in this effort.
KRA Olisting A Duril shirts the Losi Misin	this step of the KBA process
KBA Objective 4: Provide advice to the Iraqi Ministr future management and restoration of these sites.	y of Environment and other Iraqi stakeholders on the
jaune management and restoration of these sites.	1. NI should promote the list of KBAs to the IMoE
 KBA Objective 5: Undertake advocacy efforts to prom KBA sites. Recommendation No. 12: Nature Iraq should build further on its six years of experience in developing the KBA Program, to undertake advocacy efforts to ensure the conservation management of these key areas. This is essential to the protecting the biological health of the nation. 	 NI should promote the list of KBAs to the IMOE and other stakeholders and distribute the future reports widely. Translation of KBA documents into Arabic and Kurdish from the KBA Program is needed and additional support for this must be identified. Training in management and restoration techniques is needed both at NI and the IMOE – such as management/restoration of wetlands, rangelands, forests and watersheds. NI should take further steps to support the IMOE in the establishment of Protected Areas legislation, and the establishment of the proposed Mesopotamian Marshlands National Park and other national parks. NI should ensure its advocacy work becomes more publicly known to build local support for these efforts. This can be accomplished through work in stakeholder communities and networks (i.e. town hall meetings, educational events, awareness-raising
	through public media, etc.).
KBA Objective 6: Publish relevant scientific and tech	
scientific journals to make the information widely ava	
• Recommendation No. 13: Reports and papers on KBA results and new findings should be published in peer-reviewed publication, including results related to flora in Iraq that to date is lagging behind the rest of the NI publishing activities. In addition, old data from 2005-2007 should be evaluated and reported on.	 To catch up with issues related to the extensive dataset that Nature Iraq has already developed (but underutilized), in the short term staff should attempt to spend less time in the field and more time in the office reporting on NI results. 1) Publishing the findings of the KBA program should be given more emphasis and as has been stated previously during 2011 an assessment is currently underway to review all past data to provide a definitive, prioritized list of key sites visited since the inception of the program. This

Recommendations	Next Steps
	will lead to the development of an atlas of KBAs.2) Opportunities to speak at more and a greater variety of events should be encouraged with all staff.

KBA Partnership

The KBA Partnership consists of Nature Iraq, the Iraqi Ministry of Environment (under the auspices of the New Eden Group and with financial support from the Italian Ministry of Environment, Land and Sea (IMELS)), and the Kurdistan Commission on the Environment (KCoE). Individual professors and students from different Iraqi universities have also participated in the work of the KBA Project through the years. The ability to conduct extensive and comprehensive country-wide surveys is declining at Nature Iraq due to lack of funding resources. It is important that the IMOE and Iraqi educational institutions play a more active role in both biodiversity monitoring of key sites and the identification of new sites. This effort will require a key process for standardizing, vetting, managing and sharing of data between all the institutions involved.

In 2010, the IMoE attempted to initiate a major biodiversity project that might have greatly assisted in this effort. However, funding was not allocated in 2011, and has yet to meet the country's obligations under the CBD. A large, cross-sectoral program on biodiversity is needed and is a critical if we are to fill the large gaps that remain in our knowledge and protect Iraq's biological diversity.

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Also for more information, please see the following websites:

- Agreement on the Conservation of African-Eurasian Migratory Waterbirds (AEWA) website: www.aewa.com
- BirdLife International (BI) Website: www.birdlife.org
- Birds of Oman Website: www.birds of oman.com
- Brian Coad Website: www.briancoad.com
- Fatbirder website: www.fatbirder.com
- IUCN (2010) Red List Website: www.redlist.org
- Nature Iraq (NI) Website: www.natureiraq.org
- World Wildlife Fund WildFinder Online database of species distributions: gis.wwfus.org/wildfinder/

Annex A: List of birds seen on the KBA Su	urveys in Iraq in 2010
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#	Order	Scientific Name	Common Name	Conservation Status
1	GALLIFORMES	Alectoris chukar	Chukar Partridge	
2	GALLIFORMES	Ammoperdix griseogularis	See-see Partridge	Biome-Restricted (BR)
3	GALLIFORMES	Francolinus francolinus	Black Francolin	
4	GALLIFORMES	Coturnix coturnix	Common Quail	
5	ANSERIFORMES	Anser anser rubrirostris	Eastern Greylag Goose	Congratory, Waterbirds
6	ANSERIFORMES	1	Greater White-fronted	Concentrate we Watershinds
0	ANSERIFORMES	Anser albifrons	Goose	Congratory, Waterbirds
7	ANSERIFORMES	Anser erythropus	Lesser White-fronted	Globally Threatened (GT),
1	AINSERIFORMES	Anser eryinropus	Goose	Congratory, Waterbirds
8	ANSERIFORMES	Branta ruficollis	Red-breasted Goose	Globally Threatened (GT)
9	ANSERIFORMES	Cygnus columbianus bewickii	Bewick's Swan	Congratory, Waterbird
10	ANSERIFORMES	Tadorna tadorna	Common Shelduck	Congratory, Waterbird
11	ANSERIFORMES	Tadorna ferruginea	Ruddy Shelduck	Congratory, Waterbird
12	ANSERIFORMES	Anas strepera	Gadwall	Congratory, Waterbird
13	ANSERIFORMES	Anas penelope	Eurasian Wigeon	Congratory, Waterbird
14	ANSERIFORMES	Anas platyrhynchos	Mallard	Congratory, Waterbird
15	ANSERIFORMES	Anas clypeata	Northern Shoveler	Congratory, Waterbird
16	ANSERIFORMES	Anas acuta	Northern Pintail	Congratory, Waterbird
17	ANSERIFORMES	Anas querquedula	Garganey	Congratory, Waterbird
18	ANSERIFORMES	Anas crecca	Eurasian Teal	Congratory, Waterbirds
				Globally Threatened (GT),
19	ANSERIFORMES	Marmaronetta angustirostris	Marbled Duck	Congratory, Waterbirds
20	ANSERIFORMES	Netta rufina	Red-crested Pochard	Congratory, Waterbirds
21	ANSERIFORMES	Aythya ferina	Common Pochard	Congratory, Waterbirds
22	ANSERIFORMES	Aythya nyroca	Ferruginous Duck	Globally Threatened (GT)
23	ANSERIFORMES	Mergellus albellus	Smew	Congratory, Waterbirds
				Endemic Race (EndR),
24	PODICIPEDIFORMES	Tachybaptus ruficollis	Little Grebe	Congratory, Waterbirds
				Congratory, Waterbirds,
25	PODICIPEDIFORMES	Podiceps cristatus	Great Crested Grebe	Seabird
				Congratory, Waterbirds,
26	PODICIPEDIFORMES	Podiceps nigricollis	Black-necked Grebe	Seabird
27	PHOENOCOPTERIFORMES	Phoenicopterus roseus	Greater Flamingo	Congratory, Waterbirds
28	CICONIIFORMES	Ciconia ciconia	Western White Stork	Congratory, Waterbirds
29	CICONIIFORMES	Threskiornis aethiopicus	African Sacred Ibis	Conservation Concern (CC)
30	CICONIIFORMES	Plegadis falcinellus	Glossy Ibis	Congratory, Waterbirds
				Conservation Concern
31	CICONIIFORMES	Platalea leucorodia	Eurasian Spoonbill	(CC), Congratory,
			1	Waterbirds
				Conservation Concern
32	CICONIIFORMES	Botaurus stellaris	Eurasian Bittern	(CC), Congratory,
				Waterbirds
33	CICONIIFORMES	Ixobrychus minutus	Little Bittern	Congratory, Waterbirds
34	CICONIIFORMES	Nucticonas musticon	Black-crowned Night	Congratory, Waterbirds
34	CICONIIFORNIES	Nycticorax nycticorax	Heron	Congratory, waterbirds
35	CICONIIFORMES	Ardeola ralloides	Squacco Heron	Congratory, Waterbirds
36	CICONIIFORMES	Bubulcus ibis	Western Cattle Egret	Congratory, Waterbirds
37	CICONIIFORMES	Ardea cinerea	Grey Heron	Congratory, Waterbirds
38	CICONIIFORMES	Ardea purpurea	Purple Heron	Congratory, Waterbirds
39	CICONIIFORMES	Ardea alba	Western Great Egret	Congratory, Waterbirds
40	CICONIIFORMES	Egretta garzetta	Little Egret	Congratory, Waterbirds
41	CICONIIFORMES	Egretta schistacea	Indian Reef Heron	Congratory, Waterbirds
42	PELECANIFORMES	Pelecanus onocrotalus	Great White Pelican	Congratory, Waterbirds
43	PELECANIFORMES	Pelecanus crispus	Dalmatian Pelican	Globally Threatened (GT)
44	PELECANIFORMES	Phalacrocorax pygmeus	Pygmy Cormorant	Congratory, Waterbirds
		100		Congratory, Waterbirds,
45	PELECANIFORMES	Phalacrocorax carbo	Great Cormorant	Seabird
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46	PELECANIFORMES	Anhinga rufa	African Darter	Conservation Concern

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Elanus caeruleus
Milvus milvus | European Honey Buzzard
Black-winged Kite | Waterbirds
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| 50 FAL 51 FAL 52 FAL 53 FAL 54 FAL 55 FAL 56 FAL 57 FAL 58 FAL 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU <tr td=""> <tr td=""> <tr td=""> <tr <="" td=""><td>LCONIFORMES
LCONIFORMES</td><td>Milnus milnus</td><td>Diack-winged Kite</td><td></td></tr><tr><td>51 FAL 52 FAL 53 FAL 54 FAL 55 FAL 56 FAL 57 FAL 58 FAL 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 CHA 85 CHA <tr tbr=""> 88 CHA</tr></td><td>LCONIFORMES</td><td>1V10000 M00000</td><td>Red Kite</td><td>Globally Threatened (GT)</td></tr><tr><td>52 FAL 53 FAL 54 FAL 55 FAL 56 FAL 57 FAL 58 FAL 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 85 CHA 86 CHA 87 CHA <tr tbody=""> 90</tr></td><td></td><td>Milvus migrans</td><td>Black Kite</td><td>Congratory</td></tr><tr><td>53 FAL 54 FAL 55 FAL 56 FAL 57 FAL 58 FAL 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 60 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 85 CHA 86 CHA 87 CHA <tr tbody=""> 90</tr></td><td>LCONIFORMES</td><td>Gypaetus barbatus</td><td>Lammergeier</td><td></td></tr><tr><td>54 FAL 55 FAL 56 FAL 57 FAL 58 FAL 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU <tr td=""> <tr td=""> <tr td=""></tr></tr></tr></td><td></td><td>Neophron percnopterus</td><td>Egyptian Vulture</td><td>Globally Threatened (GT)</td></tr><tr><td>55 FAL 56 FAL 57 FAL 58 FAL 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA <tr tbody=""> </tr></td><td>LCONIFORMES</td><td>Gyps fulvus</td><td>Eurasian Griffon Vulture</td><td>Congratory</td></tr><tr><td>56 FAL 57 FAL 58 FAL 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA</td><td>LCONIFORMES</td><td>Circaetus gallicus</td><td>Short-toed Snake Eagle</td><td>Congratory</td></tr><tr><td>57 FAL 58 FAL 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA</td><td>LCONIFORMES</td><td>Circus aeruginosus</td><td>Western Marsh Harrier</td><td>Congratory</td></tr><tr><td>58 FAL 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA</td><td>LCONIFORMES</td><td>Circus cyaneus</td><td>Hen Harrier</td><td>Congratory</td></tr><tr><td>59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA</td><td>LCONIFORMES</td><td>Circus macrourus</td><td>Pallid Harrier</td><td>Globally Threatened (GT)</td></tr><tr><td>60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA
 90 CHA</td><td>LCONIFORMES</td><td>Circus pygargus</td><td>Montagu's Harrier</td><td></td></tr><tr><td>61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA</td><td>LCONIFORMES</td><td>Accipiter nisus</td><td>Eurasian Sparrowhawk</td><td>Congratory</td></tr><tr><td>62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA</td><td>LCONIFORMES</td><td>Buteo buteo vulpinus</td><td>Steppe Buzzard</td><td>Congratory</td></tr><tr><td>63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA</td><td>LCONIFORMES</td><td>Buteo rufinus</td><td>Long-legged Buzzard</td><td>Congratory</td></tr><tr><td>64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 90 CHA</td><td>LCONIFORMES</td><td>Aquila clanga</td><td>Greater Spotted Eagle</td><td>Globally Threatened (GT)</td></tr><tr><td>65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 90 CHA</td><td>LCONIFORMES</td><td>Aquila nipalensis</td><td>Steppe Eagle</td><td>Congratory</td></tr><tr><td>66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 90 CHA</td><td>LCONIFORMES</td><td>Aquila heliaca</td><td>Eastern Imperial Eagle</td><td>Globally Threatened (GT)</td></tr><tr><td>67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 84 CHA 85 CHA 86 CHA 87 CHA 90 CHA</td><td>LCONIFORMES</td><td>Aquila chrysaetos</td><td>Golden Eagle</td><td></td></tr><tr><td>68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA</td><td>LCONIFORMES</td><td>Aquila pennata</td><td>Booted Eagle</td><td>Congratory</td></tr><tr><td>69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA</td><td>LCONIFORMES</td><td>Aquila fasciatus</td><td>Bonelli's Eagle</td><td></td></tr><tr><td>70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA</td><td>LCONIFORMES</td><td>Falco naumanni</td><td>Lesser Kestrel</td><td>Globally Threatened (GT)</td></tr><tr><td>71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA</td><td>LCONIFORMES</td><td>Falco tinnunculus</td><td>Common Kestrel</td><td>Congratory</td></tr><tr><td>72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA</td><td>LCONIFORMES</td><td>Falco columbarius</td><td>Merlin</td><td>Congratory</td></tr><tr><td>73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA</td><td>LCONIFORMES</td><td>Falco subbuteo</td><td>Eurasian Hobby</td><td>Congratory</td></tr><tr><td>74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA</td><td>LCONIFORMES</td><td>Falco cherrug</td><td>Saker Falcon</td><td>Globally Threatened (GT)</td></tr><tr><td>75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 88 CHA 89 CHA</td><td>LCONIFORMES</td><td>Falco peregrinus</td><td>Peregrine Falcon</td><td>Congratory</td></tr><tr><td>76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 88 CHA 89 CHA</td><td>LCONIFORMES</td><td>Falco pelegrinoides</td><td>Barbary Falcon</td><td></td></tr><tr><td>77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA</td><td>UIFORMES</td><td>Chlamydotis macqueenii</td><td>Macqueen's Bustard</td><td>Globally Threatened
(GT)</td></tr><tr><td>78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 88 CHA 89 CHA 90 CHA</td><td>UIFORMES</td><td>Tetrax tetrax</td><td>Little Bustard</td><td>Globally Threatened (GT)</td></tr><tr><td>78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA</td><td>UIFORMES</td><td>Rallus aquaticus</td><td>Water Rail</td><td>Waterbird</td></tr><tr><td>79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA</td><td>UIFORMES</td><td>Crex crex</td><td>Corncrake</td><td>Congratory, Waterbirds</td></tr><tr><td>81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA</td><td>UIFORMES</td><td>Porzana porzana</td><td>Spotted Crake</td><td>Congratory, Waterbirds</td></tr><tr><td>82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA</td><td>UIFORMES</td><td>Porphyrio porphyrio</td><td>Purple Swamphen</td><td>Congratory, Waterbirds</td></tr><tr><td>83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 89 CHA 90 CHA</td><td>RUIFORMES</td><td>Gallinula chloropus</td><td>Common Moorhen</td><td>Congratory, Waterbirds,
Seabird</td></tr><tr><td>83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 89 CHA 90 CHA</td><td>UIFORMES</td><td>Fulica atra</td><td>Eurasian Coot</td><td>Congratory, Waterbirds</td></tr><tr><td>85 CHA 86 CHA 87 CHA 88 CHA 89 CHA 90 CHA</td><td>UIFORMES</td><td>Grus grus</td><td>Common Crane</td><td>Congratory, Waterbirds</td></tr><tr><td>85 CHA 86 CHA 87 CHA 88 CHA 89 CHA 90 CHA</td><td>IARADRIIFORMES</td><td>Burhinus oedicnemus</td><td>Eurasian Stone-curlew</td><td>Congratory, Waterbirds</td></tr><tr><td>87 CHA 88 CHA 89 CHA 90 CHA</td><td>IARADRIIFORMES</td><td>Himantopus himantopus</td><td>Black-winged Stilt</td><td>Congratory, Waterbirds,
Seabird</td></tr><tr><td>87 CHA 88 CHA 89 CHA 90 CHA</td><td>IARADRIIFORMES</td><td>Recurvirostra avosetta</td><td>Pied Avocet</td><td>Congratory, Waterbirds</td></tr><tr><td>88 CHA 89 CHA 90 CHA</td><td>IARADRIIFORMES</td><td>Vanellus vanellus</td><td>Northern Lapwing</td><td>Congratory, Waterbirds</td></tr><tr><td>89 CHA 90 CHA</td><td>IARADRIIFORMES</td><td>Vanellus spinosus</td><td>Spur-winged Lapwing</td><td>Congratory, Waterbirds</td></tr><tr><td>90 CHA</td><td>IARADRIIFORMES</td><td>V anellus indicus</td><td>Red-wattled Lapwing</td><td>Congratory, Waterbirds</td></tr><tr><td></td><td>IARADRIIFORMES</td><td>Vanellus leucurus</td><td>White-tailed Lapwing</td><td>Biome-Restricted (BR),
Congratory, Waterbirds</td></tr><tr><td>91 CHA</td><td>IARADRIIFORMES</td><td>Pluvialis squatarola</td><td>Grey Plover</td><td>Congratory, Waterbirds</td></tr><tr><td></td><td>IARADRIIFORMES</td><td>Charadrius hiaticula</td><td>Common Ringed Plover</td><td>Congratory, Waterbirds</td></tr><tr><td></td><td>IARADRIIFORMES</td><td>Charadrius dubius</td><td>Little Ringed Plover</td><td>Congratory, Waterbirds</td></tr><tr><td></td><td>IARADRIIFORMES</td><td>Charadrius alexandrinus</td><td>Kentish Plover</td><td>Congratory, Waterbirds</td></tr><tr><td></td><td>IARADRIIFORMES</td><td>Charadrius leschenaultii</td><td>Greater Sand Plover</td><td>Biome-Restricted (BR),
Congratory, Waterbirds</td></tr><tr><td>96 CHA</td><td>IARADRIIFORMES</td><td>Gallinago gallinago</td><td>Common Snipe</td><td>Congratory, Waterbirds</td></tr><tr><td></td><td></td><td>Limosa limosa</td><td>Black-tailed Godwit</td><td>Globally Threatened (GT)</td></tr><tr><td></td><td>IARADRIIFORMES</td><td>Numenius arquata</td><td>Eurasian Curlew</td><td>Congratory, Waterbirds</td></tr><tr><td></td><td></td><td></td><td></td><td>Congratory, Waterbirds</td></tr><tr><td></td><td>IARADRIIFORMES</td><td>Tringa erythropus</td><td>Spotted Redshank
Common Redshank</td><td>Congratory, Waterbirds
Congratory, Waterbirds</td></tr><tr><td>100 CHA
101 CHA</td><td>IARADRIIFORMES
IARADRIIFORMES
IARADRIIFORMES</td><td>Tringa totanus</td><td></td><td></td></tr></tr></tr></tr> | LCONIFORMES
LCONIFORMES | Milnus milnus | Diack-winged Kite | | 51 FAL 52 FAL 53 FAL 54 FAL 55 FAL 56 FAL 57 FAL 58 FAL 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 CHA 85 CHA <tr tbr=""> 88 CHA</tr> | LCONIFORMES | 1V10000 M00000 | Red Kite | Globally Threatened (GT) | 52 FAL 53 FAL 54 FAL 55 FAL 56 FAL 57 FAL 58 FAL 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 85 CHA 86 CHA 87 CHA <tr tbody=""> 90</tr> | | Milvus migrans | Black Kite | Congratory
 | 53 FAL 54 FAL 55 FAL 56 FAL 57 FAL 58 FAL 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 60 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 85 CHA 86 CHA 87 CHA <tr tbody=""> 90</tr> | LCONIFORMES | Gypaetus barbatus | Lammergeier | | 54 FAL 55 FAL 56 FAL 57 FAL 58 FAL 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU <tr td=""> <tr td=""> <tr td=""></tr></tr></tr> | | Neophron percnopterus | Egyptian Vulture | Globally Threatened (GT) | 55 FAL 56 FAL 57 FAL 58 FAL 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA <tr tbody=""> </tr> | LCONIFORMES | Gyps fulvus | Eurasian Griffon Vulture | Congratory | 56 FAL 57 FAL 58 FAL 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA | LCONIFORMES | Circaetus gallicus | Short-toed Snake Eagle | Congratory | 57 FAL 58 FAL 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA | LCONIFORMES | Circus aeruginosus | Western Marsh Harrier | Congratory | 58 FAL 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA | LCONIFORMES | Circus cyaneus | Hen Harrier | Congratory
 | 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA | LCONIFORMES | Circus macrourus | Pallid Harrier | Globally Threatened (GT) | 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA | LCONIFORMES | Circus pygargus | Montagu's Harrier | | 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA | LCONIFORMES | Accipiter nisus | Eurasian Sparrowhawk | Congratory | 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA | LCONIFORMES | Buteo buteo vulpinus | Steppe Buzzard | Congratory | 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA | LCONIFORMES | Buteo rufinus | Long-legged Buzzard | Congratory | 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 90 CHA | LCONIFORMES | Aquila clanga | Greater Spotted Eagle | Globally Threatened (GT) | 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 90 CHA | LCONIFORMES | Aquila nipalensis | Steppe Eagle | Congratory | 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU
 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 90 CHA | LCONIFORMES | Aquila heliaca | Eastern Imperial Eagle | Globally Threatened (GT) | 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 84 CHA 85 CHA 86 CHA 87 CHA 90 CHA | LCONIFORMES | Aquila chrysaetos | Golden Eagle | | 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA | LCONIFORMES | Aquila pennata | Booted Eagle | Congratory | 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA | LCONIFORMES | Aquila fasciatus | Bonelli's Eagle | | 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA | LCONIFORMES | Falco naumanni | Lesser Kestrel | Globally Threatened (GT) | 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA | LCONIFORMES | Falco tinnunculus | Common Kestrel | Congratory | 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA | LCONIFORMES | Falco columbarius | Merlin | Congratory | 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA | LCONIFORMES | Falco subbuteo | Eurasian Hobby | Congratory | 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA | LCONIFORMES | Falco cherrug | Saker Falcon | Globally Threatened (GT) | 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 88 CHA 89 CHA | LCONIFORMES | Falco peregrinus | Peregrine Falcon | Congratory | 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 88 CHA 89 CHA | LCONIFORMES | Falco pelegrinoides | Barbary Falcon | | 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA | UIFORMES | Chlamydotis macqueenii | Macqueen's Bustard | Globally Threatened (GT) | 78 GRU 79 GRU 80 GRU
 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 88 CHA 89 CHA 90 CHA | UIFORMES | Tetrax tetrax | Little Bustard | Globally Threatened (GT) | 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA | UIFORMES | Rallus aquaticus | Water Rail | Waterbird | 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA | UIFORMES | Crex crex | Corncrake | Congratory, Waterbirds | 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA | UIFORMES | Porzana porzana | Spotted Crake | Congratory, Waterbirds | 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA | UIFORMES | Porphyrio porphyrio | Purple Swamphen | Congratory, Waterbirds | 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 89 CHA 90 CHA | RUIFORMES | Gallinula chloropus | Common Moorhen | Congratory, Waterbirds,
Seabird | 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 89 CHA 90 CHA | UIFORMES | Fulica atra | Eurasian Coot | Congratory, Waterbirds | 85 CHA 86 CHA 87 CHA 88 CHA 89 CHA 90 CHA | UIFORMES | Grus grus | Common Crane | Congratory, Waterbirds | 85 CHA 86 CHA 87 CHA 88 CHA 89 CHA 90 CHA | IARADRIIFORMES | Burhinus oedicnemus | Eurasian Stone-curlew | Congratory, Waterbirds | 87 CHA 88 CHA 89 CHA 90 CHA | IARADRIIFORMES | Himantopus himantopus | Black-winged Stilt | Congratory, Waterbirds,
Seabird | 87 CHA 88 CHA 89 CHA 90 CHA | IARADRIIFORMES | Recurvirostra avosetta | Pied Avocet | Congratory, Waterbirds | 88 CHA 89 CHA 90 CHA | IARADRIIFORMES | Vanellus vanellus | Northern Lapwing | Congratory, Waterbirds | 89 CHA 90 CHA | IARADRIIFORMES | Vanellus spinosus | Spur-winged Lapwing | Congratory, Waterbirds | 90 CHA | IARADRIIFORMES | V anellus indicus | Red-wattled Lapwing | Congratory, Waterbirds | | IARADRIIFORMES | Vanellus leucurus | White-tailed Lapwing | Biome-Restricted (BR),
Congratory, Waterbirds | 91 CHA | IARADRIIFORMES | Pluvialis squatarola | Grey Plover | Congratory, Waterbirds | | IARADRIIFORMES | Charadrius hiaticula | Common Ringed Plover | Congratory, Waterbirds | | IARADRIIFORMES | Charadrius dubius | Little Ringed Plover | Congratory, Waterbirds | | IARADRIIFORMES | Charadrius alexandrinus | Kentish Plover | Congratory, Waterbirds | | IARADRIIFORMES | Charadrius leschenaultii | Greater Sand Plover | Biome-Restricted (BR),
Congratory, Waterbirds | 96 CHA | IARADRIIFORMES | Gallinago gallinago | Common Snipe | Congratory, Waterbirds | | | Limosa limosa | Black-tailed Godwit | Globally Threatened (GT) | | IARADRIIFORMES | Numenius arquata | Eurasian Curlew | Congratory, Waterbirds | | | | | Congratory, Waterbirds | | IARADRIIFORMES | Tringa erythropus | Spotted Redshank
Common Redshank | Congratory, Waterbirds
Congratory, Waterbirds | 100 CHA
101 CHA | IARADRIIFORMES
IARADRIIFORMES
IARADRIIFORMES | Tringa totanus | | |
| LCONIFORMES
LCONIFORMES

 | Milnus milnus | Diack-winged Kite | | 51 FAL 52 FAL 53 FAL 54 FAL 55 FAL 56 FAL 57 FAL 58 FAL 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 CHA 85 CHA <tr tbr=""> 88 CHA</tr> | LCONIFORMES | 1V10000 M00000 | Red Kite | Globally Threatened (GT) | 52 FAL 53 FAL 54 FAL 55 FAL 56 FAL 57 FAL 58 FAL 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 85 CHA 86 CHA 87 CHA <tr tbody=""> 90</tr> | | Milvus migrans | Black Kite | Congratory | 53 FAL 54 FAL 55 FAL 56 FAL 57 FAL 58 FAL 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 60 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 85 CHA 86 CHA 87 CHA <tr tbody=""> 90</tr> | LCONIFORMES
 | Gypaetus barbatus | Lammergeier | | 54 FAL 55 FAL 56 FAL 57 FAL 58 FAL 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU <tr td=""> <tr td=""> <tr td=""></tr></tr></tr> | | Neophron percnopterus | Egyptian Vulture | Globally Threatened (GT) | 55 FAL 56 FAL 57 FAL 58 FAL 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA <tr tbody=""> </tr> | LCONIFORMES | Gyps fulvus | Eurasian Griffon Vulture | Congratory | 56 FAL 57 FAL 58 FAL 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA | LCONIFORMES | Circaetus gallicus | Short-toed Snake Eagle | Congratory | 57 FAL 58 FAL 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA | LCONIFORMES | Circus aeruginosus | Western Marsh Harrier | Congratory | 58 FAL 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA | LCONIFORMES | Circus cyaneus | Hen Harrier | Congratory | 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA
87 CHA 88 CHA 90 CHA | LCONIFORMES | Circus macrourus | Pallid Harrier | Globally Threatened (GT) | 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA | LCONIFORMES | Circus pygargus | Montagu's Harrier | | 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA | LCONIFORMES | Accipiter nisus | Eurasian Sparrowhawk | Congratory | 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA | LCONIFORMES | Buteo buteo vulpinus | Steppe Buzzard | Congratory | 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA | LCONIFORMES | Buteo rufinus | Long-legged Buzzard | Congratory | 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 90 CHA | LCONIFORMES | Aquila clanga | Greater Spotted Eagle | Globally Threatened (GT) | 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 90 CHA | LCONIFORMES | Aquila nipalensis | Steppe Eagle | Congratory | 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 90 CHA | LCONIFORMES
 | Aquila heliaca | Eastern Imperial Eagle | Globally Threatened (GT) | 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 84 CHA 85 CHA 86 CHA 87 CHA 90 CHA | LCONIFORMES | Aquila chrysaetos | Golden Eagle | | 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA | LCONIFORMES | Aquila pennata | Booted Eagle | Congratory | 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA | LCONIFORMES | Aquila fasciatus | Bonelli's Eagle | | 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA | LCONIFORMES | Falco naumanni | Lesser Kestrel | Globally Threatened (GT) | 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA | LCONIFORMES | Falco tinnunculus | Common Kestrel | Congratory | 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA | LCONIFORMES | Falco columbarius | Merlin | Congratory | 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA | LCONIFORMES | Falco subbuteo | Eurasian Hobby | Congratory | 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA | LCONIFORMES | Falco cherrug | Saker Falcon | Globally Threatened (GT) | 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 88 CHA 89 CHA | LCONIFORMES | Falco peregrinus | Peregrine Falcon | Congratory | 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 88 CHA 89 CHA | LCONIFORMES | Falco pelegrinoides | Barbary Falcon | | 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA | UIFORMES | Chlamydotis macqueenii | Macqueen's Bustard | Globally Threatened (GT) | 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 88 CHA 89 CHA 90 CHA | UIFORMES
 | Tetrax tetrax | Little Bustard | Globally Threatened (GT) | 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA | UIFORMES | Rallus aquaticus | Water Rail | Waterbird | 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA | UIFORMES | Crex crex | Corncrake | Congratory, Waterbirds | 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA | UIFORMES | Porzana porzana | Spotted Crake | Congratory, Waterbirds | 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA | UIFORMES | Porphyrio porphyrio | Purple Swamphen | Congratory, Waterbirds | 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 89 CHA 90 CHA | RUIFORMES | Gallinula chloropus | Common Moorhen | Congratory, Waterbirds,
Seabird | 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 89 CHA 90 CHA | UIFORMES | Fulica atra | Eurasian Coot | Congratory, Waterbirds | 85 CHA 86 CHA 87 CHA 88 CHA 89 CHA 90 CHA | UIFORMES | Grus grus | Common Crane | Congratory, Waterbirds | 85 CHA 86 CHA 87 CHA 88 CHA 89 CHA 90 CHA | IARADRIIFORMES | Burhinus oedicnemus | Eurasian Stone-curlew | Congratory, Waterbirds | 87 CHA 88 CHA 89 CHA 90 CHA | IARADRIIFORMES | Himantopus himantopus | Black-winged Stilt | Congratory, Waterbirds,
Seabird | 87 CHA 88 CHA 89 CHA 90 CHA | IARADRIIFORMES | Recurvirostra avosetta | Pied Avocet | Congratory, Waterbirds | 88 CHA 89 CHA 90 CHA | IARADRIIFORMES | Vanellus vanellus | Northern Lapwing | Congratory, Waterbirds | 89 CHA 90 CHA | IARADRIIFORMES | Vanellus spinosus | Spur-winged Lapwing | Congratory, Waterbirds | 90 CHA | IARADRIIFORMES | V anellus indicus | Red-wattled Lapwing | Congratory, Waterbirds | | IARADRIIFORMES | Vanellus leucurus | White-tailed Lapwing | Biome-Restricted (BR),
Congratory, Waterbirds | 91 CHA | IARADRIIFORMES | Pluvialis squatarola | Grey Plover | Congratory, Waterbirds | | IARADRIIFORMES | Charadrius hiaticula | Common Ringed Plover | Congratory, Waterbirds | | IARADRIIFORMES | Charadrius dubius | Little Ringed Plover | Congratory, Waterbirds | | IARADRIIFORMES | Charadrius alexandrinus | Kentish Plover | Congratory, Waterbirds | | IARADRIIFORMES | Charadrius leschenaultii | Greater Sand Plover | Biome-Restricted (BR),
Congratory, Waterbirds | 96 CHA | IARADRIIFORMES | Gallinago gallinago | Common Snipe | Congratory, Waterbirds | | | Limosa limosa | Black-tailed Godwit | Globally Threatened (GT) | | IARADRIIFORMES | Numenius arquata | Eurasian Curlew | Congratory, Waterbirds | | | | | Congratory, Waterbirds | | IARADRIIFORMES | Tringa erythropus | Spotted Redshank
Common Redshank | Congratory, Waterbirds
Congratory, Waterbirds | 100 CHA
101 CHA | IARADRIIFORMES
IARADRIIFORMES
IARADRIIFORMES | Tringa totanus | | | |
| LCONIFORMES
LCONIFORMES

 | Milnus milnus | Diack-winged Kite | | 51 FAL 52 FAL 53 FAL 54 FAL 55 FAL 56 FAL 57 FAL 58 FAL 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 CHA 85 CHA <tr tbr=""> 88 CHA</tr> | LCONIFORMES | 1V10000 M00000 | Red Kite | Globally Threatened (GT) | 52 FAL 53 FAL 54 FAL 55 FAL 56 FAL 57 FAL 58 FAL 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 85 CHA 86 CHA 87 CHA <tr tbody=""> 90</tr> | | Milvus migrans | Black Kite | Congratory | 53 FAL 54 FAL 55 FAL 56 FAL 57 FAL 58 FAL 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 60 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 85 CHA 86 CHA 87 CHA <tr tbody=""> 90</tr> | LCONIFORMES
 | Gypaetus barbatus | Lammergeier | | 54 FAL 55 FAL 56 FAL 57 FAL 58 FAL 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU <tr td=""> <tr td=""> <tr td=""></tr></tr></tr> | | Neophron percnopterus | Egyptian Vulture | Globally Threatened (GT) | 55 FAL 56 FAL 57 FAL 58 FAL 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA <tr tbody=""> </tr> | LCONIFORMES | Gyps fulvus | Eurasian Griffon Vulture | Congratory | 56 FAL 57 FAL 58 FAL 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA | LCONIFORMES | Circaetus gallicus | Short-toed Snake Eagle | Congratory | 57 FAL 58 FAL 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA | LCONIFORMES | Circus aeruginosus | Western Marsh Harrier | Congratory | 58 FAL 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA | LCONIFORMES | Circus cyaneus | Hen Harrier | Congratory | 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA
87 CHA 88 CHA 90 CHA | LCONIFORMES | Circus macrourus | Pallid Harrier | Globally Threatened (GT) | 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA | LCONIFORMES | Circus pygargus | Montagu's Harrier | | 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA | LCONIFORMES | Accipiter nisus | Eurasian Sparrowhawk | Congratory | 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA | LCONIFORMES | Buteo buteo vulpinus | Steppe Buzzard | Congratory | 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA | LCONIFORMES | Buteo rufinus | Long-legged Buzzard | Congratory | 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 90 CHA | LCONIFORMES | Aquila clanga | Greater Spotted Eagle | Globally Threatened (GT) | 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 90 CHA | LCONIFORMES | Aquila nipalensis | Steppe Eagle | Congratory | 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 90 CHA | LCONIFORMES
 | Aquila heliaca | Eastern Imperial Eagle | Globally Threatened (GT) | 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 84 CHA 85 CHA 86 CHA 87 CHA 90 CHA | LCONIFORMES | Aquila chrysaetos | Golden Eagle | | 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA | LCONIFORMES | Aquila pennata | Booted Eagle | Congratory | 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA | LCONIFORMES | Aquila fasciatus | Bonelli's Eagle | | 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA | LCONIFORMES | Falco naumanni | Lesser Kestrel | Globally Threatened (GT) | 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA | LCONIFORMES | Falco tinnunculus | Common Kestrel | Congratory | 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA | LCONIFORMES | Falco columbarius | Merlin | Congratory | 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA | LCONIFORMES | Falco subbuteo | Eurasian Hobby | Congratory | 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA | LCONIFORMES | Falco cherrug | Saker Falcon | Globally Threatened (GT) | 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 88 CHA 89 CHA | LCONIFORMES | Falco peregrinus | Peregrine Falcon | Congratory | 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 88 CHA 89 CHA | LCONIFORMES | Falco pelegrinoides | Barbary Falcon | | 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA | UIFORMES | Chlamydotis macqueenii | Macqueen's Bustard | Globally Threatened (GT) | 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 88 CHA 89 CHA 90 CHA | UIFORMES
 | Tetrax tetrax | Little Bustard | Globally Threatened (GT) | 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA | UIFORMES | Rallus aquaticus | Water Rail | Waterbird | 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA | UIFORMES | Crex crex | Corncrake | Congratory, Waterbirds | 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA | UIFORMES | Porzana porzana | Spotted Crake | Congratory, Waterbirds | 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA | UIFORMES | Porphyrio porphyrio | Purple Swamphen | Congratory, Waterbirds | 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 89 CHA 90 CHA | RUIFORMES | Gallinula chloropus | Common Moorhen | Congratory, Waterbirds,
Seabird | 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 89 CHA 90 CHA | UIFORMES | Fulica atra | Eurasian Coot | Congratory, Waterbirds | 85 CHA 86 CHA 87 CHA 88 CHA 89 CHA 90 CHA | UIFORMES | Grus grus | Common Crane | Congratory, Waterbirds | 85 CHA 86 CHA 87 CHA 88 CHA 89 CHA 90 CHA | IARADRIIFORMES | Burhinus oedicnemus | Eurasian Stone-curlew | Congratory, Waterbirds | 87 CHA 88 CHA 89 CHA 90 CHA | IARADRIIFORMES | Himantopus himantopus | Black-winged Stilt | Congratory, Waterbirds,
Seabird | 87 CHA 88 CHA 89 CHA 90 CHA | IARADRIIFORMES | Recurvirostra avosetta | Pied Avocet | Congratory, Waterbirds | 88 CHA 89 CHA 90 CHA | IARADRIIFORMES | Vanellus vanellus | Northern Lapwing | Congratory, Waterbirds | 89 CHA 90 CHA | IARADRIIFORMES | Vanellus spinosus | Spur-winged Lapwing | Congratory, Waterbirds | 90 CHA | IARADRIIFORMES | V anellus indicus | Red-wattled Lapwing | Congratory, Waterbirds | | IARADRIIFORMES | Vanellus leucurus | White-tailed Lapwing | Biome-Restricted (BR),
Congratory, Waterbirds | 91 CHA | IARADRIIFORMES | Pluvialis squatarola | Grey Plover | Congratory, Waterbirds | | IARADRIIFORMES | Charadrius hiaticula | Common Ringed Plover | Congratory, Waterbirds | | IARADRIIFORMES | Charadrius dubius | Little Ringed Plover | Congratory, Waterbirds | | IARADRIIFORMES | Charadrius alexandrinus | Kentish Plover | Congratory, Waterbirds | | IARADRIIFORMES | Charadrius leschenaultii | Greater Sand Plover | Biome-Restricted (BR),
Congratory, Waterbirds | 96 CHA | IARADRIIFORMES | Gallinago gallinago | Common Snipe | Congratory, Waterbirds | | | Limosa limosa | Black-tailed Godwit | Globally Threatened (GT) | | IARADRIIFORMES | Numenius arquata | Eurasian Curlew | Congratory, Waterbirds | | | | | Congratory, Waterbirds | | IARADRIIFORMES | Tringa erythropus | Spotted Redshank
Common Redshank | Congratory, Waterbirds
Congratory, Waterbirds | 100 CHA
101 CHA | IARADRIIFORMES
IARADRIIFORMES
IARADRIIFORMES | Tringa totanus | | | |
| LCONIFORMES
LCONIFORMES

 | Milnus milnus | Diack-winged Kite | | 51 FAL 52 FAL 53 FAL 54 FAL 55 FAL 56 FAL 57 FAL 58 FAL 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 CHA 85 CHA <tr tbr=""> 88 CHA</tr> | LCONIFORMES | 1V10000 M00000 | Red Kite | Globally Threatened (GT) | 52 FAL 53 FAL 54 FAL 55 FAL 56 FAL 57 FAL 58 FAL 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 85 CHA 86 CHA 87 CHA <tr tbody=""> 90</tr> | | Milvus migrans | Black Kite | Congratory | 53 FAL 54 FAL 55 FAL 56 FAL 57 FAL 58 FAL 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 60 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 85 CHA 86 CHA 87 CHA <tr tbody=""> 90</tr> | LCONIFORMES
 | Gypaetus barbatus | Lammergeier | | 54 FAL 55 FAL 56 FAL 57 FAL 58 FAL 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU <tr td=""> <tr td=""> <tr td=""></tr></tr></tr> | | Neophron percnopterus | Egyptian Vulture | Globally Threatened (GT) | 55 FAL 56 FAL 57 FAL 58 FAL 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA <tr tbody=""> </tr> | LCONIFORMES | Gyps fulvus | Eurasian Griffon Vulture | Congratory | 56 FAL 57 FAL 58 FAL 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA | LCONIFORMES | Circaetus gallicus | Short-toed Snake Eagle | Congratory | 57 FAL 58 FAL 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA | LCONIFORMES | Circus aeruginosus | Western Marsh Harrier | Congratory | 58 FAL 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA | LCONIFORMES | Circus cyaneus | Hen Harrier | Congratory | 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA
87 CHA 88 CHA 90 CHA | LCONIFORMES | Circus macrourus | Pallid Harrier | Globally Threatened (GT) | 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA | LCONIFORMES | Circus pygargus | Montagu's Harrier | | 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA | LCONIFORMES | Accipiter nisus | Eurasian Sparrowhawk | Congratory | 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA | LCONIFORMES | Buteo buteo vulpinus | Steppe Buzzard | Congratory | 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA | LCONIFORMES | Buteo rufinus | Long-legged Buzzard | Congratory | 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 90 CHA | LCONIFORMES | Aquila clanga | Greater Spotted Eagle | Globally Threatened (GT) | 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 90 CHA | LCONIFORMES | Aquila nipalensis | Steppe Eagle | Congratory | 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 90 CHA | LCONIFORMES
 | Aquila heliaca | Eastern Imperial Eagle | Globally Threatened (GT) | 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 84 CHA 85 CHA 86 CHA 87 CHA 90 CHA | LCONIFORMES | Aquila chrysaetos | Golden Eagle | | 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA | LCONIFORMES | Aquila pennata | Booted Eagle | Congratory | 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA | LCONIFORMES | Aquila fasciatus | Bonelli's Eagle | | 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA | LCONIFORMES | Falco naumanni | Lesser Kestrel | Globally Threatened (GT) | 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA | LCONIFORMES | Falco tinnunculus | Common Kestrel | Congratory | 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA | LCONIFORMES | Falco columbarius | Merlin | Congratory | 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA | LCONIFORMES | Falco subbuteo | Eurasian Hobby | Congratory | 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA | LCONIFORMES | Falco cherrug | Saker Falcon | Globally Threatened (GT) | 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 88 CHA 89 CHA | LCONIFORMES | Falco peregrinus | Peregrine Falcon | Congratory | 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 88 CHA 89 CHA | LCONIFORMES | Falco pelegrinoides | Barbary Falcon | | 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA | UIFORMES | Chlamydotis macqueenii | Macqueen's Bustard | Globally Threatened (GT) | 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 88 CHA 89 CHA 90 CHA | UIFORMES
 | Tetrax tetrax | Little Bustard | Globally Threatened (GT) | 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA | UIFORMES | Rallus aquaticus | Water Rail | Waterbird | 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA | UIFORMES | Crex crex | Corncrake | Congratory, Waterbirds | 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA | UIFORMES | Porzana porzana | Spotted Crake | Congratory, Waterbirds | 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA | UIFORMES | Porphyrio porphyrio | Purple Swamphen | Congratory, Waterbirds | 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 89 CHA 90 CHA | RUIFORMES | Gallinula chloropus | Common Moorhen | Congratory, Waterbirds,
Seabird | 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 89 CHA 90 CHA | UIFORMES | Fulica atra | Eurasian Coot | Congratory, Waterbirds | 85 CHA 86 CHA 87 CHA 88 CHA 89 CHA 90 CHA | UIFORMES | Grus grus | Common Crane | Congratory, Waterbirds | 85 CHA 86 CHA 87 CHA 88 CHA 89 CHA 90 CHA | IARADRIIFORMES | Burhinus oedicnemus | Eurasian Stone-curlew | Congratory, Waterbirds | 87 CHA 88 CHA 89 CHA 90 CHA | IARADRIIFORMES | Himantopus himantopus | Black-winged Stilt | Congratory, Waterbirds,
Seabird | 87 CHA 88 CHA 89 CHA 90 CHA | IARADRIIFORMES | Recurvirostra avosetta | Pied Avocet | Congratory, Waterbirds | 88 CHA 89 CHA 90 CHA | IARADRIIFORMES | Vanellus vanellus | Northern Lapwing | Congratory, Waterbirds | 89 CHA 90 CHA | IARADRIIFORMES | Vanellus spinosus | Spur-winged Lapwing | Congratory, Waterbirds | 90 CHA | IARADRIIFORMES | V anellus indicus | Red-wattled Lapwing | Congratory, Waterbirds | | IARADRIIFORMES | Vanellus leucurus | White-tailed Lapwing | Biome-Restricted (BR),
Congratory, Waterbirds | 91 CHA | IARADRIIFORMES | Pluvialis squatarola | Grey Plover | Congratory, Waterbirds | | IARADRIIFORMES | Charadrius hiaticula | Common Ringed Plover | Congratory, Waterbirds | | IARADRIIFORMES | Charadrius dubius | Little Ringed Plover | Congratory, Waterbirds | | IARADRIIFORMES | Charadrius alexandrinus | Kentish Plover | Congratory, Waterbirds | | IARADRIIFORMES | Charadrius leschenaultii | Greater Sand Plover | Biome-Restricted (BR),
Congratory, Waterbirds | 96 CHA | IARADRIIFORMES | Gallinago gallinago | Common Snipe | Congratory, Waterbirds | | | Limosa limosa | Black-tailed Godwit | Globally Threatened (GT) | | IARADRIIFORMES | Numenius arquata | Eurasian Curlew | Congratory, Waterbirds | | | | | Congratory, Waterbirds | | IARADRIIFORMES | Tringa erythropus | Spotted Redshank
Common Redshank | Congratory, Waterbirds
Congratory, Waterbirds | 100 CHA
101 CHA | IARADRIIFORMES
IARADRIIFORMES
IARADRIIFORMES | Tringa totanus | | | |
| LCONIFORMES
LCONIFORMES

 | Milnus milnus | Diack-winged Kite | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 51 FAL 52 FAL 53 FAL 54 FAL 55 FAL 56 FAL 57 FAL 58 FAL 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 CHA 85 CHA <tr tbr=""> 88 CHA</tr>

 | LCONIFORMES | 1V10000 M00000 | Red Kite | Globally Threatened (GT) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | | Milvus migrans | Black Kite | Congratory | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | LCONIFORMES | Gypaetus barbatus | Lammergeier | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | | Neophron percnopterus | Egyptian Vulture | Globally Threatened (GT) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 55 FAL 56 FAL 57 FAL 58 FAL 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA <tr tbody=""> </tr>

 | LCONIFORMES | Gyps fulvus | Eurasian Griffon Vulture | Congratory | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 56 FAL 57 FAL 58 FAL 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA

 | LCONIFORMES | Circaetus gallicus | Short-toed Snake Eagle | Congratory | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 57 FAL 58 FAL 59 FAL 60 FAL 61 FAL 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA

 | LCONIFORMES | Circus aeruginosus | Western Marsh Harrier | Congratory | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | LCONIFORMES | Circus cyaneus | Hen Harrier | Congratory | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | LCONIFORMES | Circus macrourus | Pallid Harrier | Globally Threatened (GT) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | LCONIFORMES | Circus pygargus | Montagu's Harrier | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | LCONIFORMES | Accipiter nisus | Eurasian Sparrowhawk | Congratory | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 62 FAL 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA

 | LCONIFORMES | Buteo buteo vulpinus | Steppe Buzzard | Congratory | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 63 FAL 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA

 | LCONIFORMES | Buteo rufinus | Long-legged Buzzard | Congratory | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 64 FAL 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 90 CHA

 | LCONIFORMES | Aquila clanga | Greater Spotted Eagle | Globally Threatened (GT) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 65 FAL 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 90 CHA

 | LCONIFORMES | Aquila nipalensis | Steppe Eagle | Congratory | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 66 FAL 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 90 CHA

 | LCONIFORMES | Aquila heliaca | Eastern Imperial Eagle | Globally Threatened (GT) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 67 FAL 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 84 CHA 85 CHA 86 CHA 87 CHA 90 CHA

 | LCONIFORMES | Aquila chrysaetos | Golden Eagle | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 68 FAL 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA

 | LCONIFORMES | Aquila pennata | Booted Eagle | Congratory | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 69 FAL 70 FAL 71 FAL 72 FAL 73 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 80 GRU 81 GRU 82 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA

 | LCONIFORMES | Aquila fasciatus | Bonelli's Eagle | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 70 FAL 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA

 | LCONIFORMES | Falco naumanni | Lesser Kestrel | Globally Threatened (GT) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 71 FAL 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA

 | LCONIFORMES | Falco tinnunculus | Common Kestrel | Congratory | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 72 FAL 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA

 | LCONIFORMES | Falco columbarius | Merlin | Congratory | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 73 FAL 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA

 | LCONIFORMES | Falco subbuteo | Eurasian Hobby | Congratory | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 74 FAL 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA

 | LCONIFORMES | Falco cherrug | Saker Falcon | Globally Threatened (GT) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 75 GRU 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 88 CHA 89 CHA

 | LCONIFORMES | Falco peregrinus | Peregrine Falcon | Congratory | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 76 GRU 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 88 CHA 89 CHA

 | LCONIFORMES | Falco pelegrinoides | Barbary Falcon | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 77 GRU 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA

 | UIFORMES | Chlamydotis macqueenii | Macqueen's Bustard | Globally Threatened (GT) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 88 CHA 89 CHA 90 CHA

 | UIFORMES | Tetrax tetrax | Little Bustard | Globally Threatened (GT) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 78 GRU 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA

 | UIFORMES | Rallus aquaticus | Water Rail | Waterbird | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 79 GRU 80 GRU 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 89 CHA 90 CHA

 | UIFORMES | Crex crex | Corncrake | Congratory, Waterbirds | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 81 GRU 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA

 | UIFORMES | Porzana porzana | Spotted Crake | Congratory, Waterbirds | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 82 GRU 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 90 CHA

 | UIFORMES | Porphyrio porphyrio | Purple Swamphen | Congratory, Waterbirds | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 89 CHA 90 CHA

 | RUIFORMES | Gallinula chloropus | Common Moorhen | Congratory, Waterbirds,
Seabird | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 83 GRU 84 CHA 85 CHA 86 CHA 87 CHA 88 CHA 89 CHA 90 CHA

 | UIFORMES | Fulica atra | Eurasian Coot | Congratory, Waterbirds | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 85 CHA 86 CHA 87 CHA 88 CHA 89 CHA 90 CHA

 | UIFORMES | Grus grus | Common Crane | Congratory, Waterbirds | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 85 CHA 86 CHA 87 CHA 88 CHA 89 CHA 90 CHA

 | IARADRIIFORMES | Burhinus oedicnemus | Eurasian Stone-curlew | Congratory, Waterbirds | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 87 CHA 88 CHA 89 CHA 90 CHA

 | IARADRIIFORMES | Himantopus himantopus | Black-winged Stilt | Congratory, Waterbirds,
Seabird | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 87 CHA 88 CHA 89 CHA 90 CHA

 | IARADRIIFORMES | Recurvirostra avosetta | Pied Avocet | Congratory, Waterbirds | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 88 CHA 89 CHA 90 CHA

 | IARADRIIFORMES | Vanellus vanellus | Northern Lapwing | Congratory, Waterbirds | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 89 CHA 90 CHA

 | IARADRIIFORMES | Vanellus spinosus | Spur-winged Lapwing | Congratory, Waterbirds | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 90 CHA

 | IARADRIIFORMES | V anellus indicus | Red-wattled Lapwing | Congratory, Waterbirds | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | IARADRIIFORMES | Vanellus leucurus | White-tailed Lapwing | Biome-Restricted (BR),
Congratory, Waterbirds | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 91 CHA

 | IARADRIIFORMES | Pluvialis squatarola | Grey Plover | Congratory, Waterbirds | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | IARADRIIFORMES | Charadrius hiaticula | Common Ringed Plover | Congratory, Waterbirds | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | IARADRIIFORMES | Charadrius dubius | Little Ringed Plover | Congratory, Waterbirds | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | IARADRIIFORMES | Charadrius alexandrinus | Kentish Plover | Congratory, Waterbirds | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | IARADRIIFORMES | Charadrius leschenaultii | Greater Sand Plover | Biome-Restricted (BR),
Congratory, Waterbirds | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | IARADRIIFORMES | Gallinago gallinago | Common Snipe | Congratory, Waterbirds | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | | Limosa limosa | Black-tailed Godwit | Globally Threatened (GT) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | IARADRIIFORMES | Numenius arquata | Eurasian Curlew | Congratory, Waterbirds | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | | | | Congratory, Waterbirds | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | IARADRIIFORMES | Tringa erythropus | Spotted Redshank
Common Redshank | Congratory, Waterbirds
Congratory, Waterbirds | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | IARADRIIFORMES
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IARADRIIFORMES | Tringa totanus | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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#	Order	Scientific Name	Common Name	Conservation Status
102	CHARADRIIFORMES	Tringa nebularia	Common Greenshank	Congratory, Waterbirds
103	CHARADRIIFORMES	Tringa ochropus	Green Sandpiper	Congratory, Waterbirds
104	CHARADRIIFORMES	Tringa glareola	Wood Sandpiper	Congratory, Waterbirds
105	CHARADRIIFORMES	Xenus cinereus	Terek Sandpiper	Congratory, Waterbirds
106	CHARADRIIFORMES	Actitis hypoleucos	Common Sandpiper	Congratory, Waterbirds
107	CHARADRIIFORMES	Arenaria interpres	Ruddy Turnstone	Congratory, Waterbirds
108	CHARADRIIFORMES	Calidris alba	Sanderling	Congratory, Waterbirds
109	CHARADRIIFORMES	Calidris minuta	Little Stint	Congratory, Waterbirds
110	CHARADRIIFORMES	Calidris ferruginea	Curlew Sandpiper	Congratory, Waterbirds
111	CHARADRIIFORMES	Calidris alpina	Dunlin	Congratory, Waterbirds
112	CHARADRIIFORMES	Philomachus pugnax	Ruff	Congratory, Waterbirds
113	CHARADRIIFORMES	Cursorius cursor	Cream-coloured Courser	Biome-Restricted (BR), Congratory, Waterbirds
114	CHARADRIIFORMES	Glareola pratincola	Collared Pratincole	Congratory, Waterbirds
115	CHARADRIIFORMES	Chroicocephalus genei	Slender-billed Gull	Congratory, Waterbirds, Seabird
116	CHARADRIIFORMES	Chroicocephalus ridibundus	Common Black-headed Gull	Congratory, Waterbirds, Seabird
117	CHARADRIIFORMES	Larus ichthyaetus	Great Black-headed Gull	Congratory, Waterbirds, Seabird
118	CHARADRIIFORMES	Larus canus	Common Gull	Congratory, Waterbirds, Seabird
119	CHARADRIIFORMES	Larus michahellis	Yellow-legged Gull	Congratory, Waterbirds, Seabird
120	CHARADRIIFORMES	Larus armenicus	Armenian Gull	Waterbird, Seabirds
121	CHARADRIIFORMES	Gelochelidon nilotica	Gull-billed Tern	Congratory, Waterbirds, Seabird
122	CHARADRIIFORMES	Hydroprogne caspia	Caspian Tern	Congratory, Waterbirds, Seabird
123	CHARADRIIFORMES	Sterna bergii	Swift Tern	Congratory, Waterbirds, Seabird
124	CHARADRIIFORMES	Sternula albifrons	Little Tern	Congratory, Waterbirds, Seabird
125	CHARADRIIFORMES	Sterna hirundo	Common Tern	Congratory, Waterbirds, Seabird
126	CHARADRIIFORMES	Sterna repressa	White-cheeked Tern	Congratory, Waterbirds, Seabird
127	CHARADRIIFORMES	Chlidonias hybrida	Whiskered Tern	Congratory, Waterbirds
128	CHARADRIIFORMES	Chlidonias leucopterus	White-winged Tern	Congratory, Waterbirds
129	CHARADRIIFORMES	Pterocles alchata	Pin-tailed Sandgrouse	
130	CHARADRIIFORMES	Pterocles senegallus	Spotted Sandgrouse	Biome-Restricted (BR)
131	CHARADRIIFORMES	Larus sp	Gull sp.	
132	COLUMBIFORMES	Columba livia	Rock Dove	
133	COLUMBIFORMES	Columba palumbus	Common Woodpigeon	
134	COLUMBIFORMES	Streptopelia turtur	European Turtle Dove	
135	COLUMBIFORMES	Streptopelia decaocto	Eurasian Collared Dove	
136	COLUMBIFORMES	Stigmatopelia senegalensis	Laughing Dove	
137	PSITTACIFORMES	Psittacula krameri	Rose-ringed Parakeet	
138	CUCULIFORMES	Cuculus canorus	Common Cuckoo	
139	STRIGIFORMES	Otus scops	Eurasian Scops Owl	
140	STRIGIFORMES	Bubo bubo	Eurasian Eagle Owl	
141	STRIGIFORMES	Strix aluco	Tawny Owl	
142	STRIGIFORMES	Athene noctua	Little Owl	
143	STRIGIFORMES	Asio flammeus	Short-eared Owl	$\mathbf{D}_{1}^{\prime} = \mathbf{D}_{1} + \frac{1}{2} \left(\mathbf{D} \mathbf{D}_{1}^{\prime} \right)$
144	CAPRIMULGIFORMES	Caprimulgus aegyptius	Egyptian Nightjar	Biome-Restricted (BR)
145	APODIFORMES	Tachymarptis melba	Alpine Swift	
146	APODIFORMES	Apus apus	Common Swift	
147	APODIFORMES	Apus pallidus	Pallid Swift	
148	APODIFORMES	Apus affinis	Little Swift	
149	CORACIFORMES	Coracias benghalensis	Indian Roller	
150	CORACIFORMES	Coracias garrulus	European Roller	Globally Threatened (GT)

#	Order	Scientific Name	Common Name	Conservation Status
151	CORACIFORMES	Halcyon smyrnensis	White-throated Kingfisher	
152	CORACIFORMES	Alcedo cristata	Common Kingfisher	
153	CORACIFORMES	Ceryle rudis	Pied Kingfisher	
154	CORACIFORMES	Merops persicus	Blue-cheeked Bee-eater	
155	CORACIFORMES	Merops apiaster	European Bee-eater	Congratory
156	CORACIFORMES	Upupa epops	Eurasian Hoopoe	
157	PICIFORMES	Dendrocopos minor	Lesser Spotted	
157		Denarotopos minor	Woodpecker	
158	PICIFORMES	Dendrocopos medius	Middle Spotted	
150	PICIFORMES		Woodpecker	
159	PICIFORMES	Dendrocopos syriacus	Syrian Woodpecker European Green	
160	PICIFORMES	Picus viridis	Woodpecker	
			White-crowned Black	
161	PASSERIFORMES	Oenanthe leucopyga	Wheatear	
162	PASSERIFORMES	Lanius collurio	Red-backed Shrike	
163	PASSERIFORMES	Lanius isabellinus	Daurian Isabelline Shrike	
164	PASSERIFORMES	I mine the minunaides	Turkestan Isabelline	
		Lanius phoenicuroides	Shrike	
165	PASSERIFORMES	Lanius minor	Lesser Grey Shrike	
166	PASSERIFORMES	Lanius pallidirostris	Steppe Grey Shrike	
167	PASSERIFORMES	Lanius meridionalis	Southern Grey Shrike	
168	PASSERIFORMES	Lanius senator	Woodchat Shrike	
169	PASSERIFORMES	Lanius nubicus	Masked Shrike	Biome-Restricted (BR)
170	PASSERIFORMES	Oriolus oriolus	Eurasian Golden Oriole	
171	PASSERIFORMES	Garrulus glandarius	Eurasian Jay	
172	PASSERIFORMES	Pica pica	Eurasian Magpie	
173	PASSERIFORMES	Pyrrhocorax pyrrhocorax	Red-billed Chough	
174	PASSERIFORMES	Pyrrhocorax graculus	Yellow-billed Chough	
175	PASSERIFORMES	Corvus monedula	Western Jackdaw	
176	PASSERIFORMES	Corvus frugilegus	Rook	
177	PASSERIFORMES	Corvus cornix	Hooded Crow	
178	PASSERIFORMES	Corvus capellanus	Mesopotamian Crow	Endemic Race (EndR)
179 180	PASSERIFORMES PASSERIFORMES	Corvus ruficollis Corvus corax	Brown-necked Raven Northern Raven	Biome-Restricted (BR)
180				E = 1 (E = 1000)
181	PASSERIFORMES PASSERIFORMES	Hypocolius ampelinus Poecile lugubris	Hypocolius Sombre Tit	Endemic (End???)
182	PASSERIFORMES	Poetie inguoris Parus major	Great Tit	
183	PASSERIFORMES	Cyanistes caeruleus	Eurasian Blue Tit	
185	PASSERIFORMES	Alaemon alaudipes	Greater Hoopoe-Lark	Biome-Restricted (BR)
186	PASSERIFORMES	Melanocorypha calandra	Calandra Lark	Diome-Restricted (DR)
180	PASSERIFORMES	Melanocorypha bimaculata	Bimaculated Lark	
188	PASSERIFORMES	Ammomanes deserti	Desert Lark	Biome-Restricted (BR)
189	PASSERIFORMES	Calandrella brachydactyla	Greater Short-toed Lark	
190	PASSERIFORMES	Calandrella rufescens	Lesser Short-toed Lark	
191	PASSERIFORMES	Galerida cristata	Crested Lark	
192	PASSERIFORMES	Lullula arborea	Woodlark	
193	PASSERIFORMES	Alauda arvensis	Eurasian Skylark	
194	PASSERIFORMES	Pycnonotus leucotis	White-eared Bulbul	Biome-Restricted (BR)
195	PASSERIFORMES	Riparia riparia	Sand Martin	Congratory
196	PASSERIFORMES	Hirundo rustica	Barn Swallow	Congratory
197	PASSERIFORMES	Cecropis daurica	Red-rumped Swallow	
198	PASSERIFORMES	Delichon urbicum	Common House Martin	
199	PASSERIFORMES	Cettia cetti	Cetti's Warbler	
200	PASSERIFORMES	Aegithalos caudatus	Long-tailed Tit	
201	PASSERIFORMES	Phylloscopus trochilus	Willow Warbler	
202	PASSERIFORMES	Phylloscopus collybita	Common Chiffchaff	
203	PASSERIFORMES	Phylloscopus sindianus	Mountain Chiffchaff	
204	PASSERIFORMES	Phylloscopus orientalis	Eastern Bonelli's Warbler	<u>C1-1-11-771</u> 1
205	PASSERIFORMES	Acrocephalus griseldis	Basra Reed Warbler	Globally Threatened

#	Order	Scientific Name	Common Name	Conservation Status
				(GT),Endemic (End), Restricted Range (RR),
				Biome-Restricted (BR)
206	PASSERIFORMES	Acrocephalus arundinaceus	Great Reed Warbler	
207	PASSERIFORMES	Acrocephalus stentoreus	Clamorous Reed Warbler	
208	PASSERIFORMES	Acrocephalus menanopogon	Moustached Warbler	
209	PASSERIFORMES	Acrocephalus schoenobaenus	Sedge Warbler	
210	PASSERIFORMES	Iduna pallida	Eastern Olivaceous Warbler	
211	PASSERIFORMES	Hippolais languida	Upcher's Warbler	Biome-Restricted (BR)
212	PASSERIFORMES	Cisticola juncidis	Zitting Cisticola	
213	PASSERIFORMES	Prinia gracilis	Graceful Prinia	
214	PASSERIFORMES	Turdoides altirostris	Iraq Babbler	Endemic (End), Restricted Range (RR), Biome- Restricted (BR)
215	PASSERIFORMES	Turdoides huttoni	Afgan Babbler	
216	PASSERIFORMES	Sylvia atricapilla	Eurasian Blackcap	
217	PASSERIFORMES	Sylvia borin	Garden Warbler	
218	PASSERIFORMES	Sylvia nisoria	Barred Warbler	
219	PASSERIFORMES	Sylvia curruca	Lesser Whitethroat	
220	PASSERIFORMES	Sylvia crassirostris	Eastern Orphean Warbler	
221	PASSERIFORMES	Sylvia communis	Common Whitethroat	
222	PASSERIFORMES	Sylvia mystacea	Menetries's Warbler	Biome-Restricted (BR)
223	PASSERIFORMES	Troglodytes troglodytes	Winter Wren	
224	PASSERIFORMES	Sitta europaea	Eurasian Nuthatch	
225	PASSERIFORMES	Sitta neumayer	Western Rock Nuthatch	Biome-Restricted (BR)
226	PASSERIFORMES	Sitta tephronota	Eastern Rock Nuthatch	Biome-Restricted (BR)
227	PASSERIFORMES	Tichodroma muraria	Wallcreeper	Biome-Restricted (BR)
228	PASSERIFORMES	Sturnus vulgaris	Common Starling	(= /
229	PASSERIFORMES	Turdus merula	Eurasian Blackbird	
230	PASSERIFORMES	Turdus viscivorus	Mistle Thrush	
231	PASSERIFORMES	Erithacus rubecula	European Robin	
232	PASSERIFORMES	Luscinia svecica	Bluethroat	
233	PASSERIFORMES	Luscinia luscinia	Thrush Nightingale	
234	PASSERIFORMES	Luscinia megarhynchos	Common Nightingale	
235	PASSERIFORMES	Irania gutturalis	White-throated Robin	Biome-Restricted (BR)
236	PASSERIFORMES	Cercotrichas galactotes	Rufous-tailed Scrub Robin	
237	PASSERIFORMES	Phoenicurus ochruros	Western Black Redstart	
238	PASSERIFORMES	Phoenicurus phoenicuroides	Eastern Black Redstart	
239	PASSERIFORMES	Phoenicurus phoenicurus	Common Redstart	
240	PASSERIFORMES	Saxicola rubetra	Whinchat	
241	PASSERIFORMES	Saxicola rubicola	European Stonechat	
242	PASSERIFORMES	Saxicola maurus	Siberian Stonechat	
243	PASSERIFORMES	Oenanthe isabellina	Isabelline Wheatear	
244	PASSERIFORMES	Oenanthe oenanthe	Northern Wheatear	
245	PASSERIFORMES	Oenanthe xanthoprymna	Kurdistan Wheatear	Biome-Restricted (BR)
246	PASSERIFORMES	Oenanthe chrysopygia	Red-tailed Wheatear	Biome-Restricted (BR)
247	PASSERIFORMES	Oenanthe pleschanka	Pied Wheatear	Biome-Restricted (BR)
248	PASSERIFORMES	Oenanthe melanoleuca	Eastern Black-eared Wheatear	
249	PASSERIFORMES	Oenanthe deserti	Desert Wheatear	Biome-Restricted (BR)
250	PASSERIFORMES	Oenanthe lugens	Eastern Mourning Wheatear	Biome-Restricted (BR)
251	PASSERIFORMES	Oenanthe leucopyga	White-crowned Wheatear	
252	PASSERIFORMES	Oenanthe finschii	Finsch's Wheatear	Biome-Restricted (BR)
253	PASSERIFORMES	Oenanthe albonigra	Hume's Wheatear	Biome-Restricted (BR)
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255	PASSERIFORMES	Monticola saxatilis	Rufous-tailed Rock Thrush	

#	Order	Scientific Name	Common Name	Conservation Status
256	PASSERIFORMES	Muscicapa striata	Spotted Flycatcher	
257	PASSERIFORMES	Cinclus cinclus	White-throated Dipper	
258	PASSERIFORMES	Passer domesticus	House Sparrow	
259	PASSERIFORMES	Passer hispaniolensis	Spanish Sparrow	
260	PASSERIFORMES	Passer moabiticus	Dead Sea Sparrow	Biome-Restricted (BR)
261	PASSERIFORMES	Passer montanus	Eurasian Tree Sparrow	
262	PASSERIFORMES	Carpospiza brachydactyla	Pale Rockfinch	
263	PASSERIFORMES	Petronia petronia	Rock Sparrow	
264	PASSERIFORMES	Gymnoris xanthocollis	Yellow-throated Sparrow	
265	PASSERIFORMES	Prunella collaris	Alpine Accentor	Biome-Restricted (BR)
266	PASSERIFORMES	Prunella modularis	Dunnock	
267	PASSERIFORMES	Motacilla flava	Western Yellow Wagtail (includes all races)	Congratory
268	PASSERIFORMES	Motacilla flava feldegg	Black-headed Wagtail	Congratory
269	PASSERIFORMES	Motacillia citreola	Citrine Wagtail	
270	PASSERIFORMES	Motacilla cinerea	Grey Wagtail	
271	PASSERIFORMES	Motacilla alba	White Wagtail	
272	PASSERIFORMES	Anthus campestris	Tawny Pipit	
273	PASSERIFORMES	Anthus pratensis	Meadow Pipit	
274	PASSERIFORMES	Anthus trivialis	Tree pipit	
275	PASSERIFORMES	Anthus cervinus	Red-throated Pipit	
276	PASSERIFORMES	Anthus spinoletta	Water Pipit	Biome-Restricted (BR)
277	PASSERIFORMES	Fringilla coelebs	Common Chaffinch	
278	PASSERIFORMES	Serinus pusillus	Red-fronted Serin	
279	PASSERIFORMES	Carduelis chloris	European Greenfinch	
280	PASSERIFORMES	Carduelis spinus	Eurasian Siskin	
281	PASSERIFORMES	Carduelis carduelis	European Goldfinch	
282	PASSERIFORMES	Carduelis cannabina	Common Linnet	
283	PASSERIFORMES	Bucanetes githagineus	Trumpeter Finch	Biome-Restricted (BR)
284	PASSERIFORMES	Rhodospiza obsoletus	Desert Finch	Biome-Restricted (BR)
285	PASSERIFORMES	Emberiza calandra	Corn Bunting	
286	PASSERIFORMES	Emberiza leucocephalos	Pine Bunting	
287	PASSERIFORMES	Emberiza cia	Rock Bunting	
288	PASSERIFORMES	Emberiza semenowi	Smyrna Bunting	Globally Threatened (GT)
289	PASSERIFORMES	Emberiza hortulana	Ortolan Bunting	
290	PASSERIFORMES	Emberiza melanocephala	Black-headed Bunting	Biome-Restricted (BR)
291	PASSERIFORMES	Emberiza schoeniclus	Common Reed Bunting	

#	Family	Scientific Name	Citations
1	Acanthaceae	Acanthus dioscoridis L.	Fl Iranica 24. (1966)
2	Aceraceae	Acer monspessulanum L.	Fl Iraq 4, 1. (1980)
3	Adiantaceae	Adiantum capillus-veneris L.	Fl Iraq 2. (1966)
4	Adiantaceae	Cheilanthes persica	Fl Iraq 2. (1966)
5	Algea	Anisosciadium lanatum	
6	Algea	Chara sp.	
7	Amaryllidaceae	Ixilirion tataricum	Fl Iraq 8. (1985)
8	Anacardiaceae	Pistacia eurycarpa	Fl Iraq 4, 1. (1980)
9	Anacardiaceae	Pistacia khinjuk Stocks	Fl Iraq 4, 1. (1980)
10	Anacardiaceae	Rhus coriaria L.	Fl Iraq 4, 1. (1980)
11	Apocynaceae	Nerium oleander L.	Fl Iraq 4, 1. (1980)
12	Araliaceae	Hedera helix L.	Fl Iraq 4, 1. (1980)
13	Aristolochiaceae	Aristolochia bottae	Fl Iraq 4, 2. (1980)
14	Aristolochiaceae	Aristolochia mororum	
15	Aristolochiaceae	Aristolochia paecilantha	Fl Iraq 4, 2. (1980)
16	Asclepiadaceae	Fagonia L.	Fl Iraq 4, 1. (1980)
17	Aspleniaceae	Ceterach officinarum	Fl Iraq 2. (1966)
18	Boraginaceae	Alkanna kotschyana.	
19	Boraginaceae	Anchusa italica	Fl Iranica 48. (1967)
20	Boraginaceae	Anchusa strigosa	Fl Iranica 48. (1967)
21	Boraginaceae	Asperugo procumbens L.	Fl Iranica 48. (1967)
22	Boraginaceae	Cynoglossum creticum	Fl Iranica 48. (1967)
23	Boraginaceae	Echium italicum L.	Fl Iranica 48. (1967)
24	Boraginaceae	Myosotis L.	
25	Boraginaceae	Myosotis refracta	Fl Iranica 48. (1967)
26	Boraginaceae	Myosotis sparsiflora	Fl Iranica 48. (1967)
27	Boraginaceae	Nonnea caspica	Fl Iranica 48. (1967)
28	Boraginaceae	Onosma albo-roseum	Fl Iranica 48. (1967)
29	Boraginaceae	Onosma albo-roseum var. albo-roseum	Fl Iranica 48. (1967)
30	Boraginaceae	Onosma rostellatum	Fl Iranica 48. (1967)
31	Boraginaceae	Onosma sericea.	
32	Boraginaceae	Onosma sp.	
33	Boraginaceae	Polycarpea repens	Fl Iranica 48. (1967)
34	Boraginaceae	Rindera lanata	Fl Iranica 48. (1967)
35	Boraginaceae	Salsola kali L.	
36	Boraginaceae	Solenanthus stamineus	Fl Iranica 48. (1967)
37	Boraginaceae	Symphytum kurdicum	Fl Iranica 48. (1967)
38	Caesalpinaceae	Caesalpinia bonduc	Fl Iraq 3. (1974)
39	Caesalpinaceae	Prosopis farcta	Fl Iraq 3. (1974)
40	Campanulaceae	Asyneuma amplexicaule	Fl Iranica 13. (1965)
41	Campanulaceae	Asyneuma sp.	
42	Campanulaceae	Campanula mardinensis	Fl Iranica 13. (1965)
43	Campanulaceae	Campanula propingna	
44	Campanulaceae	Campanula retrorsa	Fl Iranica 13. (1965)
45	Campanulaceae	Campanula sp.	
46	Campanulaceae	Campanula strigosa.	
47	Campanulaceae	Legousia falcata	Fl Iranica 13. (1965)
48	Campanulaceae	Legousia sp.	
49	Campanulaceae	Legousia speculum-veneris	Fl Iranica 13. (1965)
50	Campanulaceae	Michauxia lavigata.	
51	campanulaceae	Michauxia nuda	
52	Campanulaceae	Michauxia tchihatchewii.	
53	Campanulaceae	Zeugandra iranica.	
54	Capparaceae	Capparis spinosa L.	Fl Iraq 4, 1. (1980)

Annex B: List of plants seen on the KBA Surveys in Iraq in 2010

#	Family	Scientific Name	Citations
55	Caryophyllacea	Agrostemma githago.	
56	Caryophyllaceae	Arenaria L.	
57	Caryophyllaceae	Caryophyllaceae Juss.	
58	Caryophyllaceae	Cerastium dichotomum.	
59	Caryophyllaceae	Cerastium inflatum Link.	Zohary Fl Iraq. (1950)
60	Caryophyllaceae	Cerastium sp	
61	Caryophyllaceae	Daphne mucronata Royle	Fl Iraq 4, 1. (1980)
62	Caryophyllaceae	Dianthus pendulus Boiss.	Zohary Fl Iraq. (1950)
63	Caryophyllaceae	Dianthus strictus Banks 7 Sol.	Zohary Fl Iraq. (1950)
64	Caryophyllaceae	Gypsophila sp.	
65	Caryophyllaceae	Silene aegyptiaca (L.) L.f.	Zohary Fl Iraq. (1950)
66	Caryophyllaceae	Silene aucheriana Boiss.	Zohary Fl Iraq. (1950)
67	Caryophyllaceae	Silene longipetala Vent.	Zohary Fl Iraq. (1950)
68	Caryophyllaceae	Silene odontopetala Fenzl.	Zohary Fl Iraq. (1950)
69	Caryophyllaceae	Silene sefidiana.	
70	Caryophyllaceae	Silene sp.	
71	Caryophyllaceae	Silene vulgaris	
72	Caryophyllaceae	Silene vulgaris.	
73	Caryophyllaceae	Stellaria media (L.) Vill.	Zohary Fl Iraq. (1950)
74	Caryophyllaceae	Vaccaria grandiflora.	
75	Caryophyllaceae	Velezia rigida L.	Zohary Fl Iraq. (1950)
76	Cerotophyllaceae	Cleome amblyocarpa Barr. & Murb.	Fl Iraq 4, 2. (1980)
77	Cerotophyllaceae	Cornulaca monocantha Chenopodiaceae	Fl Iraq 4, 2. (1980)
78	Cerotophyllaceae	Emex spinosus (L.) Campd.	Fl Iraq 4, 2. (1980)
79	Cerotophyllaceae	Najas marina L.	Fl Iraq 4, 2. (1980)
80	Cerotophyllaceae	Nymphoides indica	Fl Iraq 4, 2. (1980)
81 82	Charyophyllaceae Charyophyllaceae	Vaccaria pyramidata.	
82 83	Chenopodiaceae	Vaccaria sp. Anabasis setifera	
83	Chenopodiaceae	Anisosciadium lanatum. Umbelliferae	
85	Chenopodiaceae	Anthemis tinctoria L.	
86	Chenopodiaceae	Artemisia herba alba. Compositae	
87	Chenopodiaceae	Asphodelus tenuifolius.	
88	Chenopodiaceae	Calligonum polygonoides L.	
89	Chenopodiaceae	Diplotaxis harra (Forrsk.) Boiss.	
90	Chenopodiaceae	Gymnarrhena Desf.	
91	Chenopodiaceae	Helianthemum ledifolium (L.) Mill.	
92	Chenopodiaceae	Heliotropium ramossissimum (Lehm.) DC.	
93	Chenopodiaceae	Lemna minor L.	Fl Iranica 172. (1997)
94	Chenopodiaceae	Moltkiopsis ciliata (Forssk.) I.M.Johnston	
95	Chenopodiaceae	Rhazya stricta Decne.	
96	Chenopodiaceae	Salsola imbricata Chenopodiaceae	
97	Chenopodiaceae	Vallisneria spiralis L.	Fl Iranica 172. (1997)
98	Cistaceae	Achillea fragrantissima. Compositae	Fl Iraq 4, 1. (1980)
99	Cistaceae	Fumana arabica (L.) Spach	Fl Iraq 4, 1. (1980)
100	Cistaceae	Helianthemum salicifolium (L.) Mill.	Fl Iraq 4, 1. (1980)
101	Cistaceae	Helianthemum sp	
102	Compositae	Achillea eriophora.	
103	Compositae	Achillea filipendulina Boiss. & Buhse	Fl Iranica 158. (1986)
104	Compositae	Achillea sp.	
105	Compositae	Anchusa L.	
106	Compositae	Anthemis altissima L.	Fl Iranica 158. (1986)
107	Compositae	Anthemis sp.	
108	Compositae	Artemisia L.	
109	Compositae	Calendula L.	
110	Compositae	Carduus pycnocephalus L.	Fl. Iranica 139A . (1979)

#	Family	Scientific Name	Citations
111	Compositae	Carthamus curdicus Hanelt	Fl Iranica 139b. (1980)
112	Compositae	Carthamus oxyacantha M.B.	Fl Iranica 139b. (1980)
113	Compositae	Centaurea bruguierana (DC.) HandMzt.	Fl Iranica 139b. (1980)
114	Compositae	Centaurea longipedunculata Schultz-Bip. ex Boiss.	Fl Iranica 139b. (1980)
115	Compositae	Centaurea solstitialis L.	Fl Iranica 139b. (1980)
116	Compositae	Centaurea sp	
117	Compositae	Centaurea triumfettii All.	Fl Iranica 139b. (1980)
118	Compositae	Cichorium intybus L.	Fl. Iranica 122. (1977)
119	Compositae	Cirsium sp.	
120	Compositae	Compositae Giseke	
121	Compositae	Cousinia inflata Boiss. & Hausskn.	Fl. Iranica 90. (1972)
122	Compositae	Cousinia mobayenii	
123	Compositae	Cousinia odontolepis DC.	Fl. Iranica 90. (1972)
124	Compositae	Cousinia rhaphiostegia.	
125	Compositae	Cousinia sp	
126	Compositae	Crepis alpina L.	Fl. Iranica 122. (1977)
127	Compositae	Crepis capillaris	
128	Compositae	Crepis L.	
129	Compositae	Crupina crupinastrum (Moris) Vis.	Fl Iranica 139b. (1980)
130	Compositae	Echinops sp.	
131	Compositae	Fagonia glutinosa Del.	
132	Compositae	Filago pyramidata L.	Fl Iranica 145. (1980)
133	Compositae	Gundelia tournefortii L.	Fl Iranica 145. (1980)
134	Compositae	Haplophyllum buxbaumii (Poir.) G.Don	
135	Compositae	Haplophyllum tuberculatum (Forssk.) A. Juss.	
136	Compositae	Helianthemum lippii (L.) DumCours.	
137	Compositae	Helichrysum sp	
138	Compositae	Heliotropium L.	Fl Iranica 139b. (1980)
139	Compositae	Launaea mucronata (Forssk.) Muschl.	Fl. Iranica 122. (1977)
140	Compositae	Malcolmia africana. Crucoiferae	Fl. Iranica 139A . (1979)
141	Compositae	Matricaria chamomilla.	
142	Compositae	Matricaria sp	
143	Compositae	Neurada procumbens L.	
144	Compositae	Notobasis syriaca (L.) Cass.	Fl. Iranica 139A . (1979)
145	Compositae	Onopordum heteracanthum C.A.Mey.	Fl. Iranica 139A . (1979)
146	Compositae	Onopordum sp.	
147	Compositae	Picnomon acarna (L.) Cass	Fl. Iranica 139A . (1979)
148	Compositae	Picris strigosa M.Bieb.	Fl. Iranica 122. (1977)
149	Compositae	Punica granatum L.	Fl Iraq 4, 1. (1980)
150	Compositae	Rhagadiolus stellatus (L.) Gaertn.	Fl. Iranica 122. (1977)
151	Compositae	Salicornia europaea.	
152	Compositae	Salix euphratica.	
153	Compositae	Scorzonera bulbipes Boiss. & Hausskn.	Fl. Iranica 122. (1977)
154	Compositae	Scorzonera L.	
155	Compositae	Scorzonera sp	
156	Compositae	Senecio sp.	
157	Compositae	Senecio vulgaris L.	Fl Iranica 145. (1980)
158	Compositae	Serratula cerinthifolia (SM.) Boiss.	Fl Iranica 139b. (1980)
159	Compositae	Serratula grandifolia P. H. Davis	Fl Iranica 139b. (1980)
160	Compositae	Serratula sp.	
161	Compositae	Sherardia arvensis L.	Fl Iraq 4, 1. (1980)
162	Compositae	Silybum marianum (L.) Gaertn.	Fl. Iranica 139A . (1979)
163	Compositae	Sonchus L.	
164	Compositae	Taraxacum sp.	
165	Compositae	Tragopogon longirostris Bisch.ex SchBip.	Fl. Iranica 122. (1977)
166	Compositae	Tragopogon sp.	

#	Family	Scientific Name	Citations
167	Compositae	Xeranthemum cylindraceum Sibth. & Sm.	Fl. Iranica 139A . (1979)
168	Compositae	Xeranthemum longepaposum	`,`,`
169	Compositae	Zoegea leptaurea L.	Fl Iranica 139b. (1980)
170	Convolvulaceae	Anthemis deserti.	Fl Iranica 2. (1963)
171	Convolvulaceae	Convolvulus arvensis L.	Fl Iranica 2. (1963)
172	Convolvulaceae	Convolvulus sp.	
173	Convolvulaceae	Nigella arvensis L.	Fl Iranica 2. (1963)
174	Crassulaceae	Rosularia sempervivum (M.B.) Berger in Engler & Prantl	Fl Iranica 72. (1970)
175	Crassulaceae	Sedum L.	
176	Crassulaceae	Sedum sp	
177	Crassulaceae	Umbilicus intermedius Boiss.	Fl Iranica 72. (1970)
178	Crassulaceae	Umbilicus tropaeolifolius Boiss.	Fl Iranica 72. (1970)
179	Cruciferae	Aethionema carneum (Banks & Soland.) B. Fedtsch.	Fl Iraq 4, 2. (1980)
180	Cruciferae	Aethionema froedinii Rech.f.	Fl Iraq 4, 2. (1980)
181	Cruciferae	Aethionema grandiflorum Boiss. & Hohen.	Fl Iraq 4, 2. (1980)
182	Cruciferae	Alliaria petiolata (M. Bieb.) Cavara & Grande	Fl Iraq 4, 2. (1980)
183	Cruciferae	Alyssum menicoides Boiss.	Fl Iraq 4, 2. (1980)
184	Cruciferae	Alyssum sp.	
185	Cruciferae	Alyssum stapfi Vierh.	Fl Iraq 4, 2. (1980)
186	Cruciferae	Alyssum strictum Willd.	Fl Iraq 4, 2. (1980)
187	Cruciferae	Arabis caucasica Willd.	Fl Iraq 4, 2. (1980)
188	Cruciferae	Arabis L.	
189	Cruciferae	Astragalus annularis Forssk.	
190	Cruciferae	Aubretia parviflora Boiss.	Fl Iraq 4, 2. (1980)
191	Cruciferae	Barbarea plantaginea DC.	Fl Iraq 4, 2. (1980)
192	Cruciferae	Barbarea R.Br.	
193	Cruciferae	Biscutella didyma L.	Fl Iraq 4, 2. (1980)
194	Cruciferae	Brassica nigra (L.) W.D.J. Koch	Fl Iraq 4, 2. (1980)
195	Cruciferae	Brassica sp.	
196	Cruciferae	Bryonia multiflora Boiss. & Heldr. In Boiss.	Fl Iraq 4, 1. (1980)
197	Cruciferae	Calendula arvensis.	
198	Cruciferae	Capsella bursa-pastoris (L.) Medic.	Fl Iraq 4, 2. (1980)
199	Cruciferae	Cardaria draba (L.) Desv.	Fl Iraq 4, 2. (1980)
200	Cruciferae	Cladium mariscus (L.) Pohl	
201	Cruciferae	Clypeola jonthlaspi L.	Fl Iraq 4, 2. (1980)
202	Cruciferae	Clypeola L.	
203	Cruciferae	Cruciferae	
204	Cruciferae	Descurainia sophia (L.) Webb & Berth.	Fl Iraq 4, 2. (1980)
205	Cruciferae	Eruca sativa Mill.	Fl Iraq 4, 2. (1980)
206	Cruciferae	Erysimum repandum L.	Fl Iraq 4, 2. (1980)
207	Cruciferae	Erysimum sp.	
208	Cruciferae	Fibigia clypeata (L.) Medic.	Fl Iraq 4, 2. (1980)
209	Cruciferae	Fibigia macrocarps.	
210	Cruciferae	Fibigia multicaulis (Boiss. & Hohen.) Boiss.	Fl Iraq 4, 2. (1980)
211	Cruciferae	Fibigia sp.	
212	Cruciferae	Fibigia suffruticosa (Vent.) Sweet	Fl Iraq 4, 2. (1980)
213	Cruciferae	Hirschfeldia incana (L.) LagFoss.	Fl Iraq 4, 2. (1980)
214	Cruciferae	Isatis cappadocica Desv.	Fl Iraq 4, 2. (1980)
215	Cruciferae	Isatis cochlearis Boiss.	Fl Iraq 4, 2. (1980)
216	Cruciferae	Isatis L.	
217	Cruciferae	Isatis lusitanica L.	Fl Iraq 4, 2. (1980)
218	Cruciferae	Ledidium L.	
219	Cruciferae	Leptaleum filifolium (Willd.) DC.	Fl Iraq 4, 2. (1980)
220	Cruciferae	Lycium barbarum. Solanaceae	
221	Cruciferae	Matthiola incana (L.) R. Br.	Fl Iraq 4, 2. (1980)
222	Cruciferae	Nasturtium officinale R.Br.	Fl Iraq 4, 2. (1980)

#	Family	Scientific Name	Citations
223	Cruciferae	Neslia apiculata Fisch., C.A. Mey. & Ave-Lall.	Fl Iraq 4, 2. (1980)
224	Cruciferae	Paronychia arabica (L.) DC	Fl Iraq 4, 2. (1980)
225	Cruciferae	Sameraria Desv.	
226	Cruciferae	Sinapis arvensis L.	Fl Iraq 4, 2. (1980)
227	Cruciferae	Sisymbrium septulatum DC.	Fl Iraq 4, 2. (1980)
228	Cruciferae	Thlaspi perfoliatum L.	Fl Iraq 4, 2. (1980)
229	Cruciferae	Thlaspi sp.	
230	Cruciferae.	Microthalspi perfoliatum.	
231	Crucoiferae	Malcolmia africana.	
232	Cucurbitaceae	Pulicaria undulata (L.) Lack	Fl Iraq 4, 1. (1980)
233	Cupressaceae	Cuscuta approximata Babingt.	Fl Iranica 8. (1964)
234	Cupressaceae	Juniperus oxycedrus L.	Fl Iraq 2. (1966)
235	Cuscutacea	Cuscuta sp	
236	Cuscutacea	Cyperaceae	
237	Cyperaceae	Carex sp	
238	Cyperaceae	Kickxia Blume	Fl Iraq 8. (1985)
239	Cyperaceae	Potamogeton lucens L.	Fl Iraq 8. (1985)
240	Cyperaceae	Schoenoplectus litoralis (Schrad.) Palla	Fl Iraq 8. (1985)
241	Cyperaceae	Scirpoides holoschoenus (L.) Sojak	Fl Iraq 8. (1985)
242	Cyperaceae	Sclerocephalus arabicus.	Fl Iraq 8. (1985)
243	Cyperaceae	Tribulus macropterus Boiss.	Fl Iraq 8. (1985)
244	Datiscaceae	Tamus communis L.	Fl Iraq 8. (1985)
245	Dioscoreaceae	Cephalaria dichaetophora Boiss.	Fl Iranica 168. (1991)
246	Dipsacaceae	Cephalaria syriaca (L.) Roemer & Schultes	Fl Iranica 168. (1991)
247	Dipsacaceae	Pterocephalus plumulosus (L.) Coult.	Fl Iranica 168. (1991)
248	Dipsacaceae	Scabiosa palastina.	
249	Equisetaceae	Equisetum ramossissimum Desf.	Fl Iraq 2. (1966)
250 251	Euphorbiaceae	Euphorbia condylocarpa M. Bieb.	Fl Iraq 4, 1. (1980)
251	Euphorbiaceae Euphorbiaceae	Euphorbia denticulata Lam. Euphorbia macroclada Boiss.	Fl Iraq 4, 1. (1980)
252	Euphorbiaceae	Euphorbia macrociada Boiss. Euphorbia sp	Fl Iraq 4, 1. (1980)
253	Fabaceae	Alhagi maurorum	
255	Fagaceae	Quercus aegilops L.	Fl Iraq 4, 1. (1980)
255	Fagaceae	Quercus aegilops 12. Quercus aegilops subsp. persica (Jaub. & Spach) Blakelock	Fl Iraq 4, 1. (1980)
257	Fagaceae	Quercus infectoria Oliv.	Fl Iraq 4, 1. (1980)
258	Fagaceae	Quercus libani Oliv.	Fl Iraq 4, 1. (1980)
259	Fagaceae	Quercus macranthera Fisch. & C.A. Mey. Ex Hohen.	Fl Iraq 4, 1. (1980)
260	Frankeniaceae	Frankenia pulverulenta L.	Fl Iraq 4, 1. (1980)
261	Fumariaceae	Corydalis rutifolia (Sm.) DC.	Fl Iraq 4, 2. (1980)
262	Fumariaceae	Fumaria densiflora DC.	Fl Iraq 4, 2. (1980)
263	Gentianaceae	Biebersteinia multifida DC	Fl Iranica 69. (1970)
264	Gentianaceae	Centaurium tenuiflorum.	
265	Gentianaceae	Gentiana olivieri Griseb.	Fl Iranica 41. (1967)
266	Geraniaceae	Atriplex leucoclada Boiss.	
267	Geraniaceae	Erodium sp	
268	Geraniaceae	Geranium lucidum L.	Fl Iranica 69. (1970)
269	Geraniaceae	Geranium tuberosum L.	Fl Iranica 69. (1970)
270	Geraniaceae	Geranium sp	
271	Globulariaceae	Gramineae	
272	Graminae	Aegilops sp	
273	Gramineae	Aegilops columnaris Zhuk.	Fl Iraq 9. (1968)
274	Gramineae	Aegilops crassa Boiss.	Fl Iraq 9. (1968)
275	Gramineae	Aegilops umbellulata Zhuk.	Fl Iraq 9. (1968)
276	Gramineae	Aeluropus lagapoides (L.) Trin.	Fl Iraq 9. (1968)
277	Gramineae	Aizoon hispanicum L.	Fl Iraq 9. (1968)
278	Gramineae	Arundo donax L.	Fl Iraq 9. (1968)

#	Family	Scientific Name	Citations
279	Gramineae	Astragalus hauarensis Boiss.	Fl Iraq 9. (1968)
280	Gramineae	Astragalus schimperi Boiss.	Fl Iraq 9. (1968)
281	Gramineae	Avena fatua L.	Fl Iraq 9. (1968)
282	Gramineae	Bacopa monniera (L.) Hayata & Matsum.	Fl Iraq 9. (1968)
283	Gramineae	Briza humilis M. Bieb.	Fl Iraq 9. (1968)
284	Gramineae	Briza minor L.	Fl Iraq 9. (1968)
285	Gramineae	Bromus brachystachys Horn.	Fl Iraq 9. (1968)
286	Gramineae	Bromus danthoniae Trin.	Fl Iraq 9. (1968)
287	Gramineae	Bromus diandrus Roth.	Fl Iraq 9. (1968)
288	Gramineae	Bromus sp	
289	Gramineae	Chenopodiaceae Vent.	Fl Iraq 9. (1968)
290	Gramineae	Chenopodium L.	Fl Iraq 9. (1968)
291	Gramineae	Chrozophora tinctoria (L.) Raf.	Fl Iraq 9. (1968)
292	Gramineae	Cynodon dactylon (L.) Pers.	Fl Iraq 9. (1968)
293	Gramineae	Echinaria capitata (L.) Desf.	Fl Iraq 9. (1968)
294	Gramineae	Haloxylon salicornicum Chenopodiaceae	Fl Iraq 9. (1968)
295	Gramineae	Heteranthelium piliferum (Banks & Soland.) Hochst.	Fl Iraq 9. (1968)
296	Gramineae	Hordeum bulbosum L.	Fl Iraq 9. (1968)
297	Gramineae	Hordeum glaucum Steud.	Fl Iraq 9. (1968)
298	Gramineae	Hordeum sp.	
299	Gramineae	Imperata cylindrica (L.) P. Beauv.	Fl Iraq 9. (1968)
300	Gramineae	Launaea capitata (Spreng.) Dandy	Fl Iraq 9. (1968)
301	Gramineae	Ledidium aucheri Boiss.	Fl Iraq 9. (1968)
302	Gramineae	Lolium L.	
303	Gramineae	Lolium rigidum Gaud.	Fl Iraq 9. (1968)
304	Gramineae	Lolium sp	
305	Gramineae	Lolium temulentum L.	Fl Iraq 9. (1968)
306	Gramineae	Peganum harmala L.	Fl Iraq 9. (1968)
307	Gramineae	Phalaris L.	
308	Gramineae	Phleum exaratum Griseb.	Fl Iraq 9. (1968)
309	Gramineae	Phragmites australis (Cav.) Trin. Ex Steud.	Fl Iraq 9. (1968)
310	Gramineae	Plantago boissieri Hausskn. & Bornm.	Fl Iraq 9. (1968)
311	Gramineae	Poa bulbosa L.	Fl Iraq 9. (1968)
312	Gramineae	Potamogeton perfoliatus L.	Fl Iraq 9. (1968)
313	Gramineae	Rhanterium epapposum.	Fl Iraq 9. (1968)
314	Gramineae	Rumex cyprius Murb.	Fl Iraq 9. (1968)
315	Gramineae	Sorghum bicolor (L.) Moench.	Fl Iraq 9. (1968)
316	Gramineae	Stipagrostis plumosa (L.) Munro ex T. Anders.	Fl Iraq 9. (1968)
317	Gramineae	Taeniatherum asperum (Simonkai) Nevski	Fl Iraq 9. (1968)
318	Gramineae	Taeniatherum crinitum (Schreb.) Nevski	Fl Iraq 9. (1968)
319	Gramineae	Triticum L.	
320	Haloragaceae	Ranunculus aquatica.	
321	Helleboraceae	Delphinium L.	
322	Helleboraceae	Eranthis hyemalis (L.) Salisb.	Fl Iraq 4, 2. (1980)
323	Hydrocharitaceae	Hypericum L.	
324	Hypericaceae	Hypericum triquetrifolium Turra	Fl Iraq 4, 1. (1980)
325	Hypericaceae	Hypericum vermiculare Boiss. & Hausskn.	Fl Iraq 4, 1. (1980)
326	Iridaceae	Gladiolus atroviolaceus Boiss.	Fl Iraq 8. (1985)
327	Iridaceae	Gladiolus italicus Mill.	Fl Iraq 8. (1985)
328	Iridaceae	Iris aucheri (Bak.) Sealy	Fl Iraq 8. (1985)
329	Iridaceae	Iris barnumae Bak. & Foster	Fl Iraq 8. (1985)
330	Iridaceae	Iris germanica L.	Fl Iraq 8. (1985)
331	Iridaceae	Iris reticulata M. Bieb.	Fl Iraq 8. (1985)
332	Juglandaceae	Juglans regia	Fl Iraq 4, 1. (1980)
333	Juncaceae	Juncaceae	
334	Juncaceae	Juncus hybridus Brot.	Fl Iraq 8. (1985)
JJ-T	Juncaccac	Jerions Byoranos Dion	111110 0. (1703)

#	Family	Scientific Name	Citations
335	Juncaceae	Juncus rigidus Desf.	Fl Iraq 8. (1985)
336	Juncaceae	Juncus sp.	
337	Juncaceae	Scabiosa L.	Fl Iraq 8. (1985)
338	Juncaginaceae	Labiatae A.L. De Jussieu	
339	Labiatae	Ajuga chia.	
340	Labiatae	Ajuga L.	
341	Labiatae	Cakile arabica Bel. & Bornm.	Fl Iraq 8. (1985)
342	Labiatae	Eremostachys laciniata.	
343	Labiatae	Eremostachys sp.	
344	Labiatae	Lamium amplexicaule L.	Fl Iranica 150. (1982)
345	Labiatae	Lamium L.	
346	Labiatae	Lamium striatum.	
347	Labiatae	Marrubium L.	
348	Labiatae	Mentha L.	
349	Labiatae	Mentha longifolia (L.) Hudson	Fl Iranica 150. (1982)
350	Labiatae	Phlomis L.	
351	Labiatae	Phlomis olivieri Benth.	Fl Iranica 150. (1982)
352	Labiatae	Salvia indica L.	Fl Iranica 150. (1982)
353	Labiatae	Salvia L.	
354	Labiatae	Salvia macrosiphon Boiss.	Fl Iranica 150. (1982)
355	Labiatae	Salvia multicaulis Vahl	Fl Iranica 150. (1982)
356	Labiatae	Salvia palaestina Benth.	Fl Iranica 150. (1982)
357	Labiatae	Salvia sp	
358	Labiatae	Stachys byzantina	
359	Labiatae	Stachys L.	FIL : 450 (4000)
360	Labiatae	Stachys lavandulifolia Vahl	Fl Iranica 150. (1982)
361	Labiatae	Teucrium L.	ELL : 150 (100 0)
362 363	Labiatae Labiatae	Teucrium polium L.	Fl Iranica 150. (1982)
364	Labiatae	Thymbra spicata L. Thymus L.	Fl Iranica 150. (1982)
365	Labiatae	Thymus L. Thymus syriacus Boiss.	El Iranica 150 (1082)
365	Labiatae	Thymus syriacus Boiss. Thymus syriacus Boiss. var. syriacus	Fl Iranica 150. (1982) Fl Iranica 150. (1982)
367	Labiatae	Ziziphora capitata L.	Fl Iranica 150. (1982)
368	Lamiaceae	Salvia spinosa L.	11111111111111111111111111111111111111
369	Leguminosae	Trifolium sp	
370	Lemnaceae	Bongardia chrysopogon (L.) Spach	Fl Iraq 4, 2. (1980)
371	Lemnaceae	Savignya parviflora (Del.) Webb.	Fl Iraq 8. (1985)
372	Leonticaceae	Allium L.	1111aq 0. (1903)
373	Leonticaceae	Leontice leontopetalum L.	Fl Iraq 4, 2. (1980)
374	Leonticaceae	Liliaceae	
375	Leonticaceae	Zizphus mauritiana Lam.	
376	Liliacae	Allium nigrum.	
377	Liliaceae	Allium chryantherum Boiss. & Reut. Ex Boiss.	Fl Iraq 8. (1985)
378	Liliaceae	Asparagus L.	
379	Liliaceae	Bellavalia sp	
380	Liliaceae	Cochicum kotschyi Boiss.	Fl Iraq 8. (1985)
381	Liliaceae	Cochicum L.	
382	Liliaceae	Eremurus spectabilis M. Bieb.	Fl Iraq 8. (1985)
383	Liliaceae	Fritillaria crassifolia Boiss. & Huet	Fl Iraq 8. (1985)
384	Liliaceae	Fritillaria imperialis L.	Fl Iraq 8. (1985)
385	Liliaceae	Fritillaria L.	
386	Liliaceae	Gagea sp.	
387	Liliaceae	Muscari comosum (L.) Mill.	Fl Iraq 8. (1985)
388	Liliaceae	Muscari sp.	
389	Liliaceae	Narcissus tazetta.	
390	Liliaceae	Ornithogalum brachysachyus C. Koch	Fl Iraq 8. (1985)

#	Family	Scientific Name	Citations
391	Liliaceae	Ornithogalum iraqense Feinbrun	Fl Iraq 8. (1985)
392	Liliaceae	Ornithogalum persicum Hausskn. Ex Bornm.	Fl Iraq 8. (1985)
393	Liliaceae	Ornithogalum sp.	
394	Liliaceae	Puschkinia scilloides Adams	Fl Iraq 8. (1985)
395	Liliaceae	Scilla L.	
396	Liliaceae	Tulipa kurdica Agnew & Hadac ex Wendelbo	Fl Iraq 8. (1985)
397	Liliaceae	Tulipa systola Stapf	Fl Iraq 8. (1985)
398	Linaceae	Linum mucronatum Bertol.	Fl Iraq 4, 1. (1980)
399	Linaceae	Linum nodiflorum L.	Fl Iraq 4, 1. (1980)
400	Linaceae	Linum strictum L.	Fl Iraq 4, 1. (1980)
401	Linaceae	Linum sulphureum.	
402	Linaceae	Linum velutinum Steud. Ex Planch.	Fl Iraq 4, 1. (1980)
403	Malvaceae	Alcea kurdica (Schlecht) Alef.	Fl Iraq 4, 1. (1980)
404	Malvaceae	Alcea L.	
405	Malvaceae	Althaea L.	
406	Malvaceae	Bassia eriophora (Schrad.) Aschers. In Schweinf.	Fl Iraq 4, 1. (1980)
407	Malvaceae	Malva aegyptia L.	Fl Iraq 4, 1. (1980)
408	Malvaceae	Malva L.	
409	Malvaceae	Malva parviflora L.	Fl Iraq 4, 1. (1980)
410	Marsileaceae	Matricaria aurea (Loefl.) Schultz Bip.	Fl Iranica 158. (1986)
411	Moraceae	Ficus carica L.	Fl Iraq 4, 1. (1980)
412	Moraceae	Ficus carica var. rupestris Hausskn. Ex Boiss.	Fl Iraq 4, 1. (1980)
413	Myrtaceae	Eucalyptus torquata Luehm	Fl Iraq 4, 1. (1980)
414	Najadaceae	Calligonum tetrapterum Jaub. & Spach	Fl Iraq 8. (1985)
415	Najadaceae	Suaeda vermiculata Chenopodiaceae	Fl Iraq 8. (1985)
416	Oleaceae	Fraxinus angustifolia Vahl	Fl Iraq 4, 1. (1980)
417	Oleaceae	Fraxinus syriaca Boiss.	Fl Iraq 4, 1. (1980)
418	Onagraceae	Anacamptis pyramidalis (L.) L.C. Rich.	Fl Iraq 8. (1985)
419	Onagraceae	Orchidaceae	
420	Orchidaceae	Cephalanthera kurdica Bornm. Ex Kraenzl.	Fl Iraq 8. (1985)
421 422	Orchidaceae Orchidaceae	Dactylorhiza umbrosa (Kar. & Kir.) Nevski	Fl Iraq 8. (1985)
422	Orchidaceae	Dactylorhiza umbrosa (Kar. & Kir.) Nevski var. umbrosa Epipactis veratrifolia Boiss. & Hoh.	Fl Iraq 8. (1985)
423	Orchidaceae	Himantoglossum hircinum (L.) W.D.J. Koch	Fl Iraq 8. (1985) Fl Iraq 8. (1985)
425	Orchidaceae	Himantoglossum hircinum (L.) w.D.J. Kolb Himantoglossum hircinum var. affine (Boiss.) J.J. Wood	Fl Iraq 8. (1985)
426	Orchidaceae	Himantoglossum hircinum var. agint (Doiss.) J.J. Wood	Fl Iraq 8. (1985)
427	Orchidaceae	Ophrys bornmuelleri M. Schulze ex Bornm.	Fl Iraq 8. (1985)
428	Orchidaceae	Ophrys L.	1111aq 0. (1905)
429	Orchidaceae	Orchis anatolica Boiss.	Fl Iraq 8. (1985)
430	Orchidaceae	Orchis collina Banks & Soland.	Fl Iraq 8. (1985)
431	Orchidaceae	Orchis coriophora L.	Fl Iraq 8. (1985)
432	Orchidaceae	Orchis sp	
433	Orobanchaceae	Orobanche aegyptiaca Pers.	Fl Iranica 5. (1964)
434	Orobanchaceae	Orobanche L.	
435	Orobanchaceae	Orobanche ramosa L.	Fl Iranica 5. (1964)
436	Orobanchiaceae	Phelypaea coccinea.	
437	Papaveraceae	Alhagi Adans.	
438	Papaveraceae	Papaver fugax Poir.	Fl Iraq 4, 2. (1980)
439	Papaveraceae	Papaver macrostomum Boiss. & Huet	Fl Iraq 4, 2. (1980)
440	Papaveraceae	Papaver rhoeas L.	Fl Iraq 4, 2. (1980)
441	Papaveraceae	Papaver somniferum L.	Fl Iraq 4, 2. (1980)
442	Papaveraceae	Papaver sp.	
443	Papilionaceae	Alhagi graecorum Boiss.	Fl Iraq 3. (1974)
444	Papilionaceae	Anagyris foetida L.	Fl Iraq 3. (1974)
445	Papilionaceae	Astragalus hamosus L.	Fl Iraq 3. (1974)
446	Papilionaceae	Astragalus sp.	

#	Family	Scientific Name	Citations
447	Papilionaceae	Astragalus spinosus (Forssk.) Muschl.	Fl Iraq 3. (1974)
448	Papilionaceae	Cicer bijugum Rech.f.	Fl Iraq 3. (1974)
449	Papilionaceae	Cistanche tubulosa (Schenk) R. Wight	
450	Papilionaceae	Colutea cilicica Boiss. & Bal.	Fl Iraq 3. (1974)
451	Papilionaceae	Coronilla scorpioides (L.) W.D.J. Koch	Fl Iraq 3. (1974)
452	Papilionaceae	Fagonia bruguieri DC.	
453	Papilionaceae	Hedysarum L.	
454	Papilionaceae	Hippocrepis unisiliquosa L.	Fl Iraq 3. (1974)
455	Papilionaceae	Hymenocarpos circinnatus (L.) Savi	Fl Iraq 3. (1974)
456	Papilionaceae	Lathryus aphaca L.	Fl Iraq 3. (1974)
457	Papilionaceae	Lathryus boissieri Sirj.	Fl Iraq 3. (1974)
458	Papilionaceae	Lathryus L.	
459	Papilionaceae	Lathryus sativus L.	Fl Iraq 3. (1974)
460	Papilionaceae	Lens orientalis (Boiss.) HandlMazz.	Fl Iraq 3. (1974)
461	Papilionaceae	Medicago constricta Dur.	Fl Iraq 3. (1974)
462	Papilionaceae	Medicago coronata (L.) Bartal.	Fl Iraq 3. (1974)
463	Papilionaceae	Medicago L.	· · · · · ·
464	Papilionaceae	Medicago laciniata (L.) Mill.	Fl Iraq 3. (1974)
465	Papilionaceae	Medicago orbicularis (L.) Bartal.	Fl Iraq 3. (1974)
466	Papilionaceae	Medicago rigidula (L.) All.	Fl Iraq 3. (1974)
467	Papilionaceae	Meliotus indica (L.) All.	Fl Iraq 3. (1974)
468	Papilionaceae	Onobrychis Mill.	
469	Papilionaceae	Parentucella latifolia (L.) Caruel	Fl Iranica 147. (1981)
470	Papilionaceae	Pisum formosum (Stev.) Alef.	Fl Iraq 3. (1974)
471	Papilionaceae	Pisum sp.	
472	Papilionaceae	Prosopis juliflora (Sw.) DC	Fl Iraq 3. (1974)
473	Papilionaceae	Scorpiurus L.	
474	Papilionaceae	Scorpiurus muricatus var. subvillosus (L.) Lam.	Fl Iraq 3. (1974)
475	Papilionaceae	Suaeda fruticusa.	
476	Papilionaceae	Trifolium campestre Schreb. In Sturm	Fl Iraq 3. (1974)
477	Papilionaceae	Trifolium dasyurum Presl.	Fl Iraq 3. (1974)
478	Papilionaceae	Trifolium pauciflorum.	
479	Papilionaceae	Trifolium purpureum Lois.	Fl Iraq 3. (1974)
480	Papilionaceae	Trifolium repens L.	Fl Iraq 3. (1974)
481	Papilionaceae	Trifolium spumosum L.	Fl Iraq 3. (1974)
482	Papilionaceae	Trifolium stellatum L.	Fl Iraq 3. (1974)
483	Papilionaceae	Trifolium tomentosum L.	Fl Iraq 3. (1974)
484	Papilionaceae	Trigonella L.	
485	Papilionaceae	Trigonella spruneriana Boiss.	Fl Iraq 3. (1974)
486	Papilionaceae	Vicia hyaeniscyamus.	
487	Papilionaceae	Vicia sativa L.	Fl Iraq 3. (1974)
488	Papilionaceae	Vicia sp.	
489	Papilionaceae	Vicia tenuifolia Roth.	Fl Iraq 3. (1974)
490	Papilionaceae	Vicia villosa Roth.	Fl Iraq 3. (1974)
491	Papilonaceae	Phoenx dactylifera L.	
492	Parnassiaceae	Paronychia kurdica Boiss.	Fl Iranica 144. (1980); Zohary Fl Iraq. (1950)
493	Pedaliaceae	Pedicularis caucasica M.B.	Fl Iranica 147. (1981)
494	Periplocaceae	Phagnalon rupestre (L.) DC.	Fl Iranica 145. (1980)
495	Pinaceae	Pinus halepensis Mill.	Fl Iraq 2. (1966)
496	Pinaceae	Pinus halepensis Mill. var. prutia .	
497	Pittosporaceae	Plantago L.	
498	Plantaginaceae	Plantago lanceolata L.	Fl Iranica 15. (1965)
499	Plantaginaceae	Platanus orientalis L.	Fl Iraq 4, 1. (1980)
500	Plantaginaceae	Senecio glaucus L.	Fl Iranica 15. (1965)
501	Platanaceae	Acantholimon sp.	Fl Iranica 108. (1903)
502	Plumbaginaceae	Acantholimon astragalinum Mobayen	Fl Iranica 108. (1974)
201	- minouginaceae		79

#	Family	Scientific Name	Citations
503	Polygalaceae	Dendrostellera lessertii (Wilkstr.) van Tiegh.	
504	Polygalaceae	Malcolmia grandiflora. Cruciferae	
505	Polygalaceae	Polygonaceae Juss.	
506	Polygonaceae	Cyperus L.	Fl Iranica 56. (1968)
507	Polygonaceae	Polygonum sp.	
508	Polygonaceae	Rheum ribes L.	Fl Iranica 56. (1968)
509	Polygonaceae	Rumex crispus L.	Fl Iranica 56. (1968)
510	Polygonaceae	Rumex ribes.	
511	Polygonaceae	Rumex sp.	
512	Polygonaceae	Tamarix aphylla (L.) Karsten	Fl Iranica 56. (1968)
513	Polygonidaceae	Rumex chalepensis.	
514	Potamogetonaceae	Anagallis arvensis L.	Fl Iranica 9. (1965)
515	Potamogetonaceae	Centaurea ammocyanus Boiss.	Fl Iraq 8. (1985)
516	Potamogetonaceae	Ceratophllum demersum L.	Fl Iraq 8. (1985)
517	Potamogetonaceae	Citrullus colocynthis (L.) Schrad.	Fl Iraq 8. (1985)
518	Potamogetonaceae	Cressa cretica L.	Fl Iraq 8. (1985)
519	Potamogetonaceae	Hydrilla verticilata	Fl Iraq 8. (1985)
520	Potamogetonaceae	Lemna gibba L.	Fl Iraq 8. (1985)
521	Potamogetonaceae	Melilotus indicus.	Fl Iraq 8. (1985)
522	Potamogetonaceae	Mesembryanthemum nodiflorum L.	Fl Iraq 8. (1985)
523	Potamogetonaceae	Myriophyllum verticilatum	Fl Iraq 8. (1985)
524	Potamogetonaceae	Potamogeton pectinatus L.	Fl Iraq 8. (1985)
525	Potamogetonaceae	Salvinia natans (L.) All.	Fl Iraq 8. (1985)
526	Potamogetonaceae	Suaeda sp.	Fl Iraq 8. (1985)
527	Potamogetonaceae	Torularia torulosa (Desf.) O. E. Schulz	Fl Iraq 8. (1985)
528	Primulaceae	Dionysia odora Fenzl	Fl Iranica 9. (1965)
529	Rafflesiaceae	Ranunculaceae	
530	Ranunculaceae	Adonis annua L.	Fl Iraq 4, 2. (1980)
531	Ranunculaceae	Adonis microcarpa DC.	Fl Iraq 4, 2. (1980)
532	Ranunculaceae	Anenome coronaria L.	Fl Iraq 4, 2. (1980)
533	Ranunculaceae	Anenome L.	
534	Ranunculaceae Ranunculaceae	Cyperus rotundus L. Ranunculus arvensis L.	$E1 I_{\rm resc} = 4.2 (1000)$
535			Fl Iraq 4, 2. (1980)
536 537	Ranunculaceae Ranunculaceae	Ranunculus aucheri Boiss.	Fl Iraq 4, 2. (1980)
538		Ranunculus sp. Thalictrum sultanabadense Stapf	$E1_{max} = 4.2 (1080)$
539	Ranunculaceae	Paliurus spina-christi Mill.	Fl Iraq 4, 2. (1980)
539	Rhamnaceae	Zizphus jujuba Mill.	Fl Iraq 4, 1. (1980) Fl Iraq 4, 1. (1980)
-	Rhamnaceae		11 Haq 4, 1. (1980)
541 542	Rosaceae Rosaceae	Asperula L. Crataegus azorolus L.	Fl Iraq 2. (1966)
543	Rosaceae	Crataegus L.	1 1 11aq 2. (1700)
544	Rosaceae	Geum urbanum L.	Fl Iraq 2. (1966)
545	Rosaceae	Prunus amygdalus Batsch.	Fl Iraq 2. (1966)
546	Rosaceae	Prunus arabica (Oliv.) Meickle	Fl Iraq 2. (1966)
547	Rosaceae	Prunus kotschyi (Boiss. & Hohen.) Meickle	Fl Iraq 2. (1966)
548	Rosaceae	Prunus microcarpa	(1700)
549	Rosaceae	Prunus microcarpa C.A.Mey.	Fl Iraq 2. (1966)
550	Rosaceae	Prunus orientalis	
551	Rosaceae	Prunus sp	
552	Rosaceae	Pyrus sp.	
553	Rosaceae	Pyrus syriaca Boiss.	Fl Iraq 2. (1966)
554	Rosaceae	Rosa canina L.	Fl Iraq 2. (1966)
555	Rosaceae	Rosa canina L. var. canina	Fl Iraq 2. (1966)
556	Rosaceae	Rubiaceae Ehrendorfer & Schoenbeck-Temesy	
557	Rosaceae	Rubus sanctus Schreb.	Fl Iraq 2. (1966)
558	Rosaceae	Sanguisorba minor	
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#	Family	Scientific Name	Citations
559	Rosaceae	Zilla spinosa (Turra) Prantl	Fl Iraq 2. (1966)
560	Rubiaceae	Aethionema R.Br.	
561	Rubiaceae	Asperula arvensis L.	Fl Iraq 4, 1. (1980)
562	Rubiaceae	Callipeltis cucullaris (L.) Rothm.	Fl Iraq 4, 1. (1980)
563	Rubiaceae	Cruciata Mill.	
564	Rubiaceae	Cruciata taurica (Pall. Ex Willd.) Ehrend.	Fl Iraq 4, 1. (1980)
565	Rubiaceae	Galium L.	
566	Rubiaceae	Galium pestalozzae.	
567	Rubiaceae	Galium setaceum Lam.	Fl Iraq 4, 1. (1980)
568	Rubiaceae	Galium sp	
569	Rubiaceae	Galium verum L.	Fl Iraq 4, 1. (1980)
570	Rutaceae	Populus alba L.	Fl Iraq 4, 1. (1980)
571	Rutaceae	Suaeda maritima.	Fl Iraq 4, 1. (1980)
572	Salicaceae	Populus euphratica Oliv.	Fl Iraq 4, 1. (1980)
573	Salicaceae	Salix acmophylla Boiss.	Fl Iraq 4, 1. (1980)
574	Salicaceae	Salix babylonica L.	Fl Iraq 4, 1. (1980)
575	Salicaceae	Sclerocephalus arabicus. Caryophyllaceae	Fl Iraq 4, 1. (1980)
576	Salixaceae	Alkanna hirsutissima (Bertol.) A. DC	
577	Salviniaceae	Juncus acutus L.	Fl Iraq 2. (1966)
578	Salviniaceae	Phyla canescens (Kunth.) Greene	Fl Iraq 2. (1966)
579	Scrophulariaceae	Cardus sp	
580	Scrophulariaceae	Pedicularis L.	
	C 1 1	Cului I	Fl Iranica 147. (1981);
581	Scrophulariaceae	Salsola L.	Zohary Fl Iraq. (1950)
	C 1 1	Sumt hulenia de unti Del	Fl Iranica 147. (1981);
582	Scrophulariaceae	Scrophularia deserti Del.	Zohary Fl Iraq. (1950)
583	Scrophulariaceae	Scrophularia L.	
584	Scrophulariaceae	Scrophulariaceae Juss.	
585	Scrophulariaceae	Verbascum L.	
586	Scrophulariaceae	Verbascum macrocaropum Boiss.	Zohary Fl Iraq. (1950)
587	Scrophulariaceae	Verbascum sp	
588	Scrophulariaceae	Veronica anagalis-aquatica L.	Fl Iranica 147. (1981)
589	Scrophulariaceae	Veronica persica Poir.	Fl Iranica 147. (1981)
590	Scrophulariaceae	Veronica sp.	
591	Solanaceae	Hyoscyamus reticulatus L.	Fl Iranica 100. (1972)
592	Tamaricaceae	Convolvulus cephalopodus Convolvulaceae	Fl Iraq 4, 1. (1980)
593	Tamaricaceae	Haloxylon salicornicum.	
594	Tamaricaceae	Helianthemum kahircum Del.	Fl Iraq 4, 1. (1980)
595	Tamaricaceae	Nitraria retusa (Forrsk.) Aschers.	
596	Tamaricaceae	Seidlitzia rosmarinus Ehrenb. Ex Boiss.	Fl Iraq 4, 1. (1980)
597	Tamaricaceae	Tamarix aucherana (Decne ex Walp.) Baum	Fl Iraq 4, 1. (1980)
598	Tamaricaceae	Tamarix brachystachys Bunge	Fl Iraq 4, 1. (1980)
599	Tamaricaceae	Tamarix sp.	
600	Tamaricaceae	Zizphus nummularia (Brum.f.) Wight & Arn.	
601	Typhaceae	Cynachum acutum L.	Fl Iraq 8. (1985)
602	Typhaceae	Potamogeton crispus L.	Fl Iraq 8. (1985)
603	Typhaceae	Tamaricaceae	Fl Iraq 8. (1985)
604	Typhaceae	Typha domingensis Pers.	Fl Iraq 8. (1985)
605	Ulmaceae	Umbelliferae A.L. De Jussieu	
606	Umbellifera	Torilis sp.	
607	Umbelliferae	Ammi majus L.	Fl. Iranica 162. (1987)
608	Umbelliferae	Artedia squamata L.	Fl. Iranica 162. (1987)
609	Umbelliferae	Dancus L.	
610	Umbelliferae	Eryngium creticum Lam.	Fl. Iranica 162. (1987)
611	Umbelliferae	Eryngium L.	
612	Umbelliferae	Ferula L.	
613	Umbelliferae	Ferulago angulata (Schlect.) Boiss.	Fl. Iranica 162. (1987)

#	Family	Scientific Name	Citations
614	Umbelliferae	Ferulago angulata (Schlect.) Boiss. subsp. angulata	Fl. Iranica 162. (1987)
615	Umbelliferae	Lagoecia cuminoides L.	Fl. Iranica 162. (1987)
616	Umbelliferae	Malabaila secacul (Miller) Boiss. subsp. secacul	Fl. Iranica 162. (1987)
617	Umbelliferae	Parietaria L.	
618	Umbelliferae	Prangos ferulacea (L.) Lindl.	Fl. Iranica 162. (1987)
619	Umbelliferae	Scandix L.	
620	Umbelliferae	Scandix pecten-veneris L.	Fl. Iranica 162. (1987)
621	Umbelliferae	Smyrnium cordifolium Boiss.	Fl. Iranica 162. (1987)
622	Umbelliferae	Torilis leptocarpa (Hochst.) Townsend	Fl. Iranica 162. (1987)
623	Umbelliferae	Torilis leptophylla (L.) Reichenbach	Fl. Iranica 162. (1987)
624	Umbelliferae	Torilis nodosa (L.)	Fl. Iranica 162. (1987)
625	Umbelliferae	Turgenia latifolia (L.) Hoffm.	Fl. Iranica 162. (1987)
626	Umpliferae	Prangos acaulis	
627	Urticaceae	Urtica pilulifera L.	Fl Iraq 4, 1. (1980)
628	Urticaceae	Urtica urens L.	Fl Iraq 4, 1. (1980)
629	Valerianaceae	Valeriana discoridis.	
630	Valerianaceae	Valerianella sp	
631	Valerianaceae	Valerianella vesicaria (L.) Moench	Fl Iranica 62. (1969)
632	Verbenaceae	Cornulaca aucheri Moq.	Fl Iraq 4, 2. (1980)
633	Verbenaceae	Phyla nodiflora (L.) Ĝreene	Fl Iraq 4, 2. (1980)
634	Verbenaceae	Vitex L.	
635	Verbenaceae	Vitex pseudo-negunda (Haussnk. Ex Bornm.) HandMazz.	Fl Iraq 4, 2. (1980)
636	Verbenaceae	Zygophyllum fabago L.	Fl Iraq 4, 2. (1980)
637	Violaceae	Viola modesta Fenzl	Fl Iraq 4, 1. (1980)
638	Vitaceae	Vitis sp.	
639	Vitaceae	Vitis vinifera L.	Fl Iraq 4, 1. (1980)
640	Zannichelliaceae	Chenopodium murale L.	Fl Iraq 4, 1. (1980)
641	Zannichelliaceae	Salicornia herbacea Chenopodiaceae	Fl Iraq 4, 1. (1980)
642	Zygophyllaceae	Carthamus L.	Fl Iraq 4, 1. (1980)
643	Zygophyllaceae	Fagonia indica	
644	Zygophyllaceae	Rumex vesicarius L.	Fl Iraq 4, 1. (1980)

Annex C: Mammals & other fauna

List of mammals and other fauna seen du	uring 2010 KBA in Iraqi Kurdistan:
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Order	Common Name	Latin Name	Conservation Status
Rodentia	Persian squirrel	Sciurus anomalus	LC
Artiodactyla	Wild goats	Capra aegagrus	VU
Testudines	Spur-thighed tortoise	Testudo graeca	VU
Squamata	European green lizard	Lacerta viridis	LC
Squamata	Yellow-headed (rock) agama	Laudakia nupta	LC
Squamata	Horn-scaled agama	Trapelus ruderatus	
Squamata	European legless lizard	Ophisaurus apodus	
Squamata	Dwarf racer snake	Eirenis sp.	
Squamata	Lined dwarf racer	Eirenis decemlineata	
Squamata	Blunt-nosed viper	Macrovipera lebetina	CITES Appendix II
Squamata	Coin-marked snake	Hemorrhois nummifer	
Squamata	Schneider's skink	Eumeces schneideri	
Caudata	Urmia newt	Neurergus crocatus	VU
Anura	Lemon-yellow tree frog	Hyla savignyi	LC
Lepidoptera	Dingy skipper	Erynnis tages	
Lepidoptera	Green-striped white	Euchloe belemia	
Lepidoptera	Southern grayling	Hipparchia aristaeus	LC
Lepidoptera	Eastern rock grayling	Hipparchia syriaca	
Lepidoptera	White-edged rock brown	Hipparchia parisatis	
Lepidoptera	Oriental meadow brown	Hyponephele lupina	
Lepidoptera	Sardinian small tortoiseshell	Aglais urticae	LC
Lepidoptera	Silver-washed fritillary	Argynnis paphia	
Lepidoptera	Mountain small white	Artogeia ergane	
Lepidoptera	Danube clouded yellow	Colias myrmidone	
Lepidoptera	Painted lady (cosmopolitan)	Vanessa cardui	
Lepidoptera	Eastern festoon	Zerynthia (Allancastria) cerisyi	
Lepidoptera	Purple hairstreak	Quercusia quercus	
Lepidoptera	Zephyr blue	Plebejus pylaon	
Lepidoptera	Southern grizzled skipper	Pyrgus malvae	LC
Lepidoptera	Northern wall brown	Lassiomata petropolitana	
Lepidoptera	Southern white admiral	Limenitis reducta	
Lepidoptera	Glanville fritillary	Melitaea cinxia	
Lepidoptera	Old world swallowtail	Papilio machaon	
Lepidoptera	Lattice brown	Kirinia roxelana	
Scorpiones	Central Asian scorpion	Orthochirus scrobiculosus	

List of mammals and other fauna seen in local animal zoos in Iraq in 2010

Sulaimani Governorate:

Order	Common Name	Latin Name	Conservation Status
Carnivora	Domestic cat	Felis catus	
Carnivora	African lion	Panthera leo	VU
Carnivora	Red fox	Vulpes vulpes	LC
Carnivora	Gray wolf	Canis lupus	LC
Artiodactyla	Goitered gazelle (jaziry ghazal)	Gazella subgutturosa	VU
Artiodactyla	Domestic goat	Capra aegagrus hircus	
Carnivora	Brown bear	Ursus arctose	LC

Order	Common Name	Latin Name	Conservation Status
Primates	Indian & African monkey	Unknown	
Crocodylia	Crocodile	Crocodylus sp.	

Erbil Governorate:

Order	Common Name	Latin Name	Conservation Status
Artiodactyla	Goitered gazelle (jaziry ghazal)	Gazella subgutturosa	VU
Artiodactyla	Domestic goat	Capra aegagrus hircus	
Carnivora	Domestic dog	Canis lupus familiaris	
Carnivora	Red fox	Vulpes vulpes	LC
Carnivora	Gray wolf	Canis lupus	LC
Carnivora	Jungle cat	Felis chaus	LC
Carnivora	African lion	Panthera leo	VU
Carnivora	Brown bear	Ursus arctose	LC
Artiodactyla	Dormedary camel	Camelus dromedarius	
Primates	Indian and African monkeys	Unknown	
Crocodylia	Crocodile	Crocodylus sp.	

Dohuk Governorate:

Order	Common Name	Latin Name	Conservation Status
Rodentia	Persian squirrel	Sciurus anomalus	LC
Artiodactyla	Goitered gazelle (jaziry ghazal)	Gazella subgutturosa	VU
Carnivora	Striped Hyena	Hyaena hyaena	NT
Carnivora	African lion	Panthera leo	VU
Carnivora	Brown bear	Ursus arctose	LC
Carnivora	Gray wolf	Canis lupus	LC
Carnivora	Domestic dog	Canis lupus familiaris	
Erinaceomorpha	Indian crested porcupine	Hystrix indica	LC
Lagomorpha	Domestic rabbit	Oryctolagus cuniculus	
Primates	Indian and African monkeys	Unknown	
Crocodylia	Crocodile	Crocodylus sp.	
	Python snake	Unknown	

List of mammals and other fauna seen in local animal markets in 2010

Sulaimani Governorate:

Order	Common Name	Latin Name	Conservation Status
Lagomorpha	Domestic rabbit	Oryctolagus cuniculus	
Carnivora	Fox cub	Vulpes vulpes	LC
Erinaceomorpha	Eastern European hedgehog	Erinaceus concolor	LC
Rodentia	Persian squirrel	Sciurus anomalus	LC

Erbil Governorate:

Order	Common Name	Latin Name	Conservation Status
Primates	Monkey	Unknown	
Rodentia	Persian squirrel	Sciurus anomalus	LC

Annex D: Images from the survey work

Some key bird species seen in the surveys of 2010



African Darter Anhinga rufa in Hawizeh (HZ)



Dalmatian Pelicans Pelecanus crispus in Fao (SA)



Desert Finch *Rhodospiza obsoletus* in Teeb Oasis (MN1)





Eastern Imperial Eagle Aquila heliaca in Hammar (HA)



White Pelicans *Pelecanus* onocrotalus in Hammar (HA)



Dead Sea Sparrows Passer moabiticus in Zichri (CM5)





Mesopotamian Crow Corvus capellanus in the Central Marshes (CM)



African Sacred Ibis Threskiornis aethiopicus in Hammar (HA)



Cream-colored Coarser Cursorius cursor in Dalmaj (ME10,11,12)



Steppe Buzzard Buteo buteo vulpinus - at Qadissiya or Haditha Dam (AN7) Montagu's Harrier Circus pygargus - at Tharthaar Lake & Dhebaeji Field (SD2) Peregrine Falcon Falco peregrines brooki – carried by Omar Fadhil, breeding race in Iraq



Eurasian Hoopoe Upupa epops at Tharthar Lake, Western Edge (AN9)



Greater Hoopoe-Lark Alaemon alaudipes - at Tharthar Lake, Western Edge (AN9)



Little Bittern *Ixobrychus* minutes - an adult male carring a Barbus sp. at Anah & Rawa (AN3)



Desert Wheatear Oenanthe deserti at Tharthaar Lake & Dhebaeji Field (SD2)



Tawny Pipit Anthus campestris adult photographed at Haditha Wetlands & Baghdadi (AN2)



Trumpeter Finch *Bucanetes* githagineus pair were observed in the foothills near Himreen Lake (near DY1)



Red-throated Pipit Anthus cervinus - group of migrants observed at Jallet Albu Ageel (SD5)



Red-backed Shrike Lanius collurio - adult male observed at Mahzam (AN3)



Woodchat Shrike *Lanius* senator – an adult male observd at Mahzam (AN3)



Corncrake Crex crex - a migrant adult bird photographed at Tharthar Lake, Western Edge (AN9)



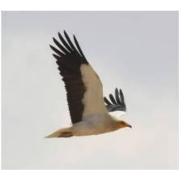
Lesser Kestrel *Falco naumanni* – A resting adult male at Hawijat Albu Dheab and Al Ramadi Marshes (AN8)



European Roller Coracias garrulous – Breeding Adult at Jallet Albu Ageel (SD5)



Eastern Imperial Eagle Aquila beliaca – Juvenile migrant at Tharthar Lake, Western Edge (AN9)



Egyptian Vulture Neophron percnopterus – pair was observed at Huweija Marshes & Beagi (KK1)



Kurdistan Wheatear Oenanthe xanthoprymna – at foothills near Himreen lake (DY1)



Apus affinis - at Dukan (S2)



Buteo b. vulpinus – at Hazarmerd (S34)



Chroicocephalus ridibundus – at Dukan (S2)



Sitta tephronota – at Chami Razan (S10)



Falco naumani – at Homer Qawm and Shadala Valley (S24)

A variety of vertebrates species have been observed during winter and summer surveys in Iraq 2010



Spur-thighed tortoise *Testudo graeca* - at Haji Omran Mountain (E1)



Rüppell's Fox *Vulpes rueppelli* - from Wadi Al-W'eir (NJ1)





Muddskippers *Periophthalmus* sp - in Khor Az Zubayr (KZ5), South KBA



Spiny-tailed Lizard Uromastix aegyptius – carried by Omar Fadhil at Tharthar Lake, Western Edge

Female wild boar *Sus scrofa* and piglets - in the Central marshes (CM sites)



Nupta Agama Agama nupta – During courtship near the burrow – Jallet Albu Ageel (SD5)

(AN9)



Indian Grey Mangoose Herpestes eduardsii -at Jadriyah and Umm Al Khanazeer Island (BG1)





Long-eared Hedgehog *Hemiechinus auritus* – A fresh speciement was collected in Jadriyah and Umm Al Khanazeer Island (BG1)



Golden Jackal *Canis aureus* – Photographed near the Tigris bank at Abu Dalaf & Shari Depression (SD4)



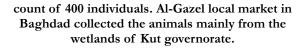
Persian squirrel Sciurus anomalus - in Erbil Animal

Goitered Gazelle Gazella subgutturosa – At Al -Massad Reserve, Rutba (AN12)



Tessellated Water Snake Natrix t. tessellate - total

Market





Papilio machaon - Hazarmerd (S34)



Trapelus ruderatus - at Peramagroon (S6)



Neurergus crocatus - Doli Smaquly (D5A)



Macrovipera lebetina - at Parazan (S26)



Laudakia nupta - at Peramagroon (S6)

Common and Important Plant Species seen in the KBA 2010 Surveys in southern and Northern Iraq



Astragallus spinosus at South Suwibaat (TQ1)



Rhazya stricta at Wadi Al W'eir (NJ1)



Convolvulus cephalopodus at Lehais (BR4)



Peganum harmala, at Teeb oasis (MN1)



Nymphoides indica at Abu Zirib (CM16)







Salix babylonica, a rare plant found at Dukan (S2)



Tulipa kurdica at Sakran Mt (E14)

Quercus macranthera, a rare plant found at Assos Mt, South face (S32B)



Iris germanica, rare, Awesar (S4B)

Quercus infectoria at Ser Amadia (D2A)



Iris barnumae, rare and endemic to the region at Hagi Omran (E1)



Fritillaria imperialis at Sakran Mt-Choman Reserve (E14)



Anacamptis pyramidalis, very rare in Iraq, Ser Amadia (D2A)



Ajuga tridactylites, rare, at Ser Amadia (D2A)



Himantoglossum hircinum subsp. Hircinum at Ser Amadia (D2A)



Himantoglossum bircinum subsp. affine, regional endemic, Ser Amadia (D2A)



Hesperis straussii, rare, Assos Mt. South face (S32B)



Hesperis kurdica, regional endemic, Assos Mt. South face (S32B)



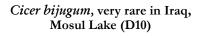
Cephalanthera kurdica, regional endemic, at Awesar (S4B)



Dionysia odora, rare, regional endemic, Peramagroon, (S6)







Michauxia nuda, rare, Doli Smaquly (E5A)



Gladiolus atroviolaceae, rare near the upper margin of the sub alpine and moist steppe zone, but occasional in the forest zone, Homer Qawm and Shadala Valley (S24)

Annex E: The 2010 KBA sites with their ecoregion, area, the KBA, IBA & IPA Criteria that they may meet and their percentage area of their respective ecoregion, as well as EVP prioritization

					ķ	(BA (n	on-bir	d)					IBA					IPA			0.2	0.2	0.1	0.2	0.15	0.05	0.1	1	1
Governat e	Site Name	Site Code	Area (ha)	v	Ia	Ib	Ic	Id	Ie	A1	A2	A3	A4i	A4 ii	A4 iii	A4 iv	A	В	С	% of Ecoregio n	KBA (non- bird)	IBA	IBA Potentia I	HVR	PA	TEC	нт	EVP	EVP Avg.
	ntains Forest Stepp																												
Dohuk	Dure	D16	2732									*						*	*	0.09%			0.1	0.2				0.3	0.3
Dohuk	Chamanke	D18	166									*						*	*	0.01%			0.1	0.2				0.3	0.3
Dohuk	Ser Amadia	D2A	2582							*		*						*	*	0.08%		0.2		0.2				0.4	0.4
Dohuk	Garagu	D5	107									*						*	*	0.004%			0.1	0.2				0.3	0.3
Erbil	Haji Omran Mountain	E1	3310									*						*	*	0.11%			0.1	0.2		0.05		0.35	0.35
Erbil	Bahraka	E11	3000																*	0.10%								0	0
Erbil	Sakran Mt- Choman Reserve Bradost	E14	5740									*						*	*	0.19%	0.2		0.1	0.2		0.05		0.77	0.55
Erbil	Mountain	E18	1246	*						*		*						*	*	0.04%	0.2	0.2		0.2				0.6	0.6
Erbil	Doli (Valley) Smaquly	E5A	7027							*		*						*	*	0.23%		0.2		0.2				0.4	0.4
Erbil	Barzan	E8	4708	*								*						*	*	0.15%	0.2		0.1	0.2	0.15	0.05		0.7	0.7
Sulaimani	Darbandikha n Lake and Surrounded Area	S1	43861	*								*								1.44%	0.2		0.1					0.3	0.3
Sulaimani	Chami Razan	S10	4906							*		*						*	*	0.16%		0.2		0.2				0.4	0.4
Sulaimani	Qara Dagh	S11	31105	*						*		*						*	*	1.02%	0.2	0.2		0.2			0.1	0.7	0.7
Sulaimani	Dukan Lake and Surrounding Area	S2	47281							*		*	*					*	*	1.55%		0.2		0.2				0.4	0.4
Sulaimani	Maidan Area	S22	57448									*								1.89%			0.1					0.1	0.1
Sulaimani	De Lezha	S23	8110							*		*						*	*	0.27%		0.2		0.2				0.4	0.4
Sulaimani	Homer Qawm and Shadala Valley (w Peramagroon Mt)	S24	10028	*						*		*						*	*	0.33%	0.2	0.2		0.2			0.1	0.7	0.7
Sulaimani	Parazan	S26	2287	*						*		*						*	*	0.08%	0.2	0.2		0.2				0.6	0.6

(note: shaded criteria information indicates specific criteria that were not assessed)

KBA 2010 SITE REVIEW (PARTIAL)

NI-0311-01P

					к	(BA (n	on-bir	d)					IBA					IPA			0.2	0.2	0.1	0.2	0.15	0.05	0.1	1	1
Governat e	Site Name	Site Code	Area (ha)	v	Ia	Ib	Ic	Id	Ie	A1	A2	A3	A4i	A4 ii	A4 iii	A4 iv	A	в	с	% of Ecoregio n	KBA (non- bird)	IBA	IBA Potentia I	HVR	PA	TEC	нт	EVP	EVP Avg.
Sulaimani	Qadr Karam	S30	?									*											0.1					0.1	0.1
Sulaimani	Assos Mountain	S32A & B	12010	*								*						*	*	0.39%	0.2		0.1	0.2				0.5	0.5
Sulaimani	Gmo Mountain	S33	667									*						*	*	0.02%			0.1	0.2				0.3	0.3
Sulaimani	Hazarmerd	S34	608							*		*							*	0.02%		0.2						0.2	0.2
Sulaimani	Ahmed Awa	S4A	646							*		*							*	0.02%		0.2				0.05	0.1	0.35	0.35
Sulaimani	Awesar	S4B	84									*						*	*	0.00%			0.1	0.2		0.05	0.1	0.45	0.45
Sulaimani	Peramagroon (w Homer Qawm & Shadala Valley)	S6	10028	*						*		*						*	*	0.33%	0.2	0.2		0.2				0.6	0.6
Sulaimani	Sargalu	S7	3028							*		*					-		*	0.10%		0.2						0.2	0.2
	Steppe (PA0812)	I	-	1	1			1		1	1	1	1	1	1			-	-		1	1	1	1	1	-	1		
Dohuk	Mosul lake	D10	48128							*		*					-	*	*	1.27%		0.2		0.2			0.1	0.5	0.5
Erbil	AltunKopri	E3	1575								*	*	*						*	0.04%		0.2						0.2	0.2
	rates alluvial salt m			1	r –	r –	1	1	1	1	1	1		1	1						1	1	1	1	1	1	1		_
Basrah	Kteibaan	BR2	2978																	0.10%				-		0.05		0.05	0.05
	Baghdadiya, South (part of Central marshes)	CM1		*						*	*	*	*		*				*		0.2	0.2			0.15			0.55	
Basrah &	Fuhood, North (part of Central marshes)	CM10	13178									*								4.37%			0.1	-	0.15			0.25	0.475
Thi Qar	Abu Zirig (part of Central marshes)	CM16	0	*						*	*	*						*	*		0.2	0.2		0.2	0.15			0.75	
	Zichri (part of Central marshes)	CM5									*	*		*								0.2		-	0.15			0.35	
ThiQar	Teena, Northern (part of West Hammar)	HA1	13632								*	*								4.52%		0.2		-			0.1	0.3	0.23
ThiQar	Buhaira Al Hilwa (part of West Hammar)	HA3	6																*	4.3270			-					0	0.23

					к	(BA (n	on-bir	d)					IBA					IPA			0.2	0.2	0.1	0.2	0.15	0.05	0.1	1	1
Governat e	Site Name	Site Code	Area (ha)	v	Ia	Ib	Ic	Id	Ie	A1	A2	A3	A4i	A4 ii	A4 iii	A4 iv	A	в	с	% of Ecoregio n	KBA (non- bird)	IBA	IBA Potentia I	HVR	PA	TEC	нт	EVP	EVP Avg.
ThiQar	Umm At- Tiyaar near Al Buhaira (part of West Hammar)	HA4								*	*	*										0.2		-				0.2	
ThiQar	Umm Nakhla (part of West Hammar)	HA6										*											0.1	-			0.1	0.2	
ThiQar	Kermashiya Marsh (part of West Hammar)	HA8								*	*	*							*			0.2					0.1	0.3	
ThiQar	Haffaar Opening 2 (part of West Hammar)	HA19										*										0.2		-				0.2	
ThiQar	Abu Hedeeda (part of West Hammar)	HA22										*											0.1	-				0.1	
ThiQar	Abu-'Ajaj (part of West Hammar)	HA23		*						*	*	*									0.2	0.2		-				0.4	_
ThiQar	Nuwashi (part of West Hammar)	HA24								*	*	*	*									0.2		-				0.2	_
ThiQar	Al-Rashid Lake (part of West Hammar)	HA25								*	*	*							*			0.2					0.1	0.3	
ThiQar	Abu-Ajaj, East (part of West Hammar)	HA27										*											0.1	-				0.1	
ThiQar	Ghabishiya (part of West Hammar)	HA28																					-					0	
Basrah	Naggaara (part of East Hammar)	HA16		*							*	*							*		0.2	0.2						0.4	
Basrah	Shilaychiya Marsh (part of East Hammar)	HA17	82968								*	*	*						*	2.75%		0.2						0.2	0.275

					к	BA (n	on-bir	d)					IBA					IPA			0.2	0.2	0.1	0.2	0.15	0.05	0.1	1	1
Governat e	Site Name	Site Code	Area (ha)	v	Ia	Ib	Ic	Id	Ie	A1	A2	A3	A4i	A4 ii	A4 iii	A4 iv	A	в	с	% of Ecoregio n	KBA (non- bird)	IBA	IBA Potentia I	HVR	РА	TEC	нт	EVP	EVP Avg.
Basrah	Slein (south Rumaila) (part of East Hammar)	HA21								*	*	*							*			0.2					0.1	0.3	
Basrah	Shaafi (part of East Hammar)	HA26								*	*	*	*									0.2		-				0.2	
Missan	Umm An Ni'aaj (part of Hawizeh marshes)	HZ1		*							*	*	*						*		0.2	0.2			0.15	0.05		0.6	
Missan	Udhaim (part of Hawizeh marshes)	HZ2								*	*	*	*						*			0.2			0.15	0.05		0.4	
Missan	E'jayrda (part of Hawizeh marshes)	HZ4	16402 8																*	5.44%				-	0.15	0.05	0.1	0.3	0.4
Basrah	Majnoon (part of Hawizeh marshes)	HZ8	0																*						0.15	0.05	0.1	0.3	
Missan	Bushes near Umm Al Warid (part of Hawizeh marshes)	HZ9																*	*				-	0.2	0.15	0.05		0.4	
Babylon	Hindiya Barrage	ME7	278								*	*								0.01%		0.2		-			0.1	0.3	0.3
Basrah	Euphrates & Tigris Junction	SA1	?	*								*							*		0.2		0.1					0.3	0.3
Missan	Sinnaaf Area, Western	SM5	26049							*	*									0.86%		0.2		-				0.2	0.2
Wasit	Shuweicha Marsh	SM7	?																					-				0	0
Missan	Teeb	SM8	14827							*	*	*	*						*	0.49%		0.2		-				0.2	0.2
	literranean conifer-s			af for	est (P.	A1207)				-	1	T	T						1		1	•		1				
Dohuk	Fishkhaboor	D11	4179									*								3.45%			0.1					0.1	0.1
Arabian Dese	ert and East Sahero	-Arabian X	Keric Shrubl	ands	(PA13	03)	1			1		1			1				-		1		1	1					
Anbar	Habbaniya Lake	AN1	45390							*		*								0.23%		0.2						0.2	0.2
Baghdad	Jadriyah and Umm Al	BG1	1	*							*	*								0.00001%	0.2	0.2					0.1	0.5	0.5

					k	(BA (n	on-bir	d)					IBA					IPA			0.2	0.2	0.1	0.2	0.15	0.05	0.1	1	1
Governat e	Site Name	Site Code	Area (ha)	v	Ia	Ib	Ic	Id	Ie	A1	A2	A3	A4i	A4 ii	A4 iii	A4 iv	Α	в	с	% of Ecoregio n	KBA (non- bird)	IBA	IBA Potentia I	HVR	PA	TEC	нт	EVP	EVP Avg.
	Khanazeer Island																												
Basrah	Kharanij	BR3	28737									*						*	*	0.15%			0.1	0.2				0.3	0.3
Basrah	Lehais	BR4	?															*	*					0.2				0.2	0.2
Karbala	Al-Taar	KR1	Part of ME5																*				-					0	0
Karbala	'Ein Al-Tamr	KR2	Part of ME5																*				-					0	0
	Dalmaj Marsh, South (part of Dalmaj marsh)	ME1 0		*						*	*	*							*		0.2	0.2					0.1	0.5	
Qadissiya & Wassit	Dalmaj Marsh, East (part of Dalmaj marsh)	ME1 1	92076	*						*	*	*								0.47%	0.2	0.2		-			0.1	0.5	0.5
	Dalmaj Marsh, North (part of Dalmaj marsh)	ME1 2		*						*	*	*	*								0.2	0.2		-			0.1	0.5	
Qadissiya	Basroogiya	ME1 3	?															*	*				-	0.2				0.2	0.2
Babil	Ibn Najm	ME4	4000									*								0.02%			0.1	-			0.1	0.2	0.2
Karbala	Razzaza Lake	ME5	15623 4							*	*	*							*	0.81%		0.2					0.1	0.3	0.3
Babil	North Ibn Najm	ME8	1789									*								0.01%			0.1	-			0.1	0.2	0.2
Muthanna	Sawa Lake	MT1	20058							*	*	*							*	0.10%		0.2						0.2	0.2
Muthanna	Salman	MT3	14895									*								0.08%			0.1	-				0.1	0.1
Najaf	Wadi Al-W'eir	NJ1	5040								*	*						*	*	0.03%		0.2		0.2				0.4	0.4
Najaf	Sh'eeb Abu- Talha	NJ2	10593							*		*								0.05%		0.2		-				0.2	0.2
Thi Qar	Suwaibaat, South	TQ1	?																*				0.1					0.1	0.1
Thi Qar	Tell Al- Laham	TQ2	?															*	*				-	0.2				0.2	0.2
Mesopotamia	an Shrub Desert (PA	A1320)																			-								
Anbar	Rahaliya and Razzaza Lake	AN10	97800							*		*								0.75%		0.2						0.2	0.2

					k	(BA (n	on-bir	d)					IBA				IPA				0.2 0.2		0.1	0.2	0.15	0.05	0.1	1	1
Governat e	Site Name	Site Code	Area (ha)	v	Ia	Ib	Ic	Id	Ie	A1	A2	A3	A4i	A4 ii	A4 iii	A4 iv	A	в	с	% of Ecoregio n	KBA (non- bird)	IBA	IBA Potentia I	HVR	PA	TEC	нт	EVP	EVP Avg.
Anbar	Sabkhat Albu Garis	AN11	9819									*								0.08%			0.1					0.1	0.1
Anbar	Rutba and Al Massad Gazelles Reserve	AN12	600	*							*	*								0.005%	0.2							0.2	0.2
Anbar	Haditha Wetlands & Baghdadi	AN2	5800								*									0.04%		0.2						0.2	0.2
Anbar	Anah & Rawa	AN3	17961							*	*	*								0.14%		0.2						0.2	0.2
Anbar	Al Nekheab District Oases - Al Hussayniyah	AN4	?							*		*										0.2						0.2	0.2
	Gasr Muhaiwir	AN6	1268									*								0.01%			0.1					0.1	0.1
	Qadissiya or Haditha Dam	AN7	14523 0							*		*								1.12%		0.2						0.2	0.2
Anbar	Hawijat Albu Dheab and Al Ramadi Marshes	AN8	74019							*	*	*								0.57%		0.2						0.2	0.2
Anbar	Tharthar Lake, Western Edge	AN9	34060 0									*								2.62%		0.2	-					0.2	0.2
Diyala	Himreen lake	DY1	28766								*	*								0.22%		0.2	-					0.2	0.2
Diyala	Attariya Plains	DY3	15455								*	*								0.12%		0.2						0.2	0.2
Diyala	Mandli	DY4	4890									*								0.04%			0.1					0.1	0.1
Kirkuk	Huweija Marshes & Beagi	KK1	74019							*		*								0.57%		0.2						0.2	0.2
Salah Ad Din	Samarra dam & Wetlands	SD1	4470																	0.03%			-					0	0
Salah Ad Din	Tharthaar Lake & Dhebaeji Field	SD2	34060 0	*						*		*								2.62%	0.2	0.2						0.4	0.4
Salah Ad Din	Mahzam	SD3	14757								*	*								0.11%		0.2						0.2	0.2
Salah Ad Din	Abu Dalaf & Shari	SD4	32776								*	*								0.25%		0.2						0.2	0.2

					K	(BA (n	on-bir	d)		IBA									IPA				0.1	0.2	0.15	0.05	0.1	1	1
Governat e	Site Name	Site Code	Area (ha)	v	Ia	Ib	Ic	Id	Ie	A1	A2	A3	A4i	A4 ii	A4 iii	A4 iv	Α	в	с	% of Ecoregio n	KBA (non- bird)	IBA	IBA Potentia I	HVR	PA	TEC	нт	EVP	EVP Avg.
	Depression																												
Salah Ad Din	Jallet Albu Ageel	SD5	16000							*	*	*								0.12%		0.2						0.2	0.2
Wasit	Jazman (Zurbatia)	WT1	15509 5								*									1.19%		0.2				0.05		0.25	0.25
Persian Gulf	desert and semi-de										-	-			-														
Basrah	Jabal Senam	BR1	2918															*	*	2.62%				0.2		0.05		0.25	0.25
South Iran N	ubo-Sindian desert	and semi-	desert (PA1	328)																									
Basrah	Khor Az Zubayr Canal-100 meters east (part of Khor Az Zubayr) Khor Az Zubayr (part of Khor Az Zubayr) Khor Az Zubayr, west (part of Khor Az Zubayr)	KZ3 KZ4 KZ5	31854																*	3.72%			-	-			0.1 0.1	0.1	0.15
	Umm Qasr Port (part of Khor Az Zubayr)	KZ6																*	*				-	0.2			0.1	0.3	
Missan	Teeb oasis (with Zubaidaat - MN2)	MN1	28578							*	*	*							*	3.34%		0.2				0.05		0.25	0.325
Missan	Zubaidaat (with Teeb oasis -MN1)	MN2										*						*	*				0.15	0.2		0.05		0.4	
Basrah	Ras Al- Beesha (Fao)	SA4	16909									*							*	1.98%			0.15			0.05		0.2	0.2

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