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Birdlife And Plant Diversity Of Jhalana Leopard Safari Park, Jaipur: Insights On Distribution And Conservation

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Abstract:

A research was done to assess the avian biodiversity along the Jhalana Forest roadside, in close proximity to the Jagatpura Flyover in Jaipur. The study was conducted for duration of one year, spanning from January, 2023 to Febraury, 2024. The intensity and frequency of human-animal conflicts has escalated in recent decades due to the exponential increase in the human population over the past century and the subsequent encroachment of human activities on wilderness areas. Jhalana Forest Reserve (JFR) presents the characteristics of island biogeography in the heart of Jaipur, which is a city of 3.1 million people. The comprehensive checklist of birds given here consists of 218 species recorded from the Sanctuary belonging to 72 families. Out of which 13 species are common resident, 6 are not common passage migrant, 48 not common resident, 7 not common summer visitor, 30 not common winter visitor, 1 common passage migrant, 7 common winter visitor, 1 locally common passage migrant, 82 locally common resident,4 locally common summer visitor, 17 locally common winter visitor and 2 vagrant species, 29 Family show the lowest representation with only one species each. Family Accipitridae shows the highest number of representatives of 16 species in the area. Species like, Indian Pitta (Pitta brachyuran) migrate to the area only during their breeding season, i.e. in monsoon. The list consists of 9 species listed in the IUCN threatened list, and 4 endemics. Jhalana covers an expanse of 20 square km. The Rajasthan Forest Department officially designated Jhalana as a Leopard Reserve in 2017. Jhalana was inaugurated for public visitation in December 2016. The Jhalana forest harbors a wide variety of trees, which may play a crucial role in the proliferation of bird species.

Keywords: Jhalana Leopard Safari, Flora, Avian Diversity, Birds and Leopard Reserve.

Introduction:

Jhalana Leopard Safari, India's first leopard reserve, was established in 2017 in Jaipur, Rajasthan. It is nestled within the Aravalli hills and covers an area of approximately 17-20 square kilometers. This unique reserve boasts diverse topography, featuring rocky hills, evergreen and deciduous forests, valleys, plateaus, sand dunes, and more. Despite being an isolated forest fragment in an urban environment, Jhalana supports a rich variety of plant, animal, and bird species that have adapted to the pressures of rapid urbanization and population growth. The climate of the area is characterized by high temperatures, ranging from 18°C in winter to 40°C in summer, with an average annual rainfall of 600 mm, primarily during the monsoon period from June to September.

The Jhalana Leopard Safari Park is home to around 30-35 leopards, with 6-7 of them residing in the park's tourism area, making it a popular destination for spotting these elusive big cats. Alongside the leopards, the park is also a haven for over 218 bird species, including raptors like shikras and white-eyed buzzards, showcasing the natural biodiversity of the region. Ecologists often use bird populations as indicators to understand species diversity and the impact of habitat loss on bird communities. Habitat changes, such as alterations in vegetation composition, affect the availability and quality of resources like food, water, and cover for birds, ultimately influencing their diversity, abundance, and distribution.

This study aims to explore bird diversity in the Jhalana Forest, specifically near the Jagatpura Flyover in Jaipur. With no prior research conducted on bird diversity in this specific location, this study will provide valuable baseline data. The research will assess variations in bird communities among different sites within the forest. A recent study by the American Museum of Natural History estimates that there are around 18,000 bird species worldwide, highlighting the importance of understanding and conserving avian diversity. Nature conservation and wildlife protection are integral parts of Rajasthan's culture, reflected in the prevalent faith and traditions of its society. This study will contribute to the ongoing efforts to preserve the rich biodiversity of the Jhalana Leopard Safari Park and its surroundings.

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Materials and Methods:

Site Selection:

A study was conducted within the confines of the Jhalana Forest roadside, near the Jagatpura Flyover in Jaipur. The Jhalana Forest roadside, near the Jagatpura Flyover in Jaipur is known to be inhospitable for birds. The Jhalana forest is located in the foothills of the Aravalli range, just outside the industrial district of Jaipur city. It covers an area of 17 square km. The region exhibits a varied geography, featuring the rugged Aravalli range on one side and a lush forest of both evergreen and deciduous trees on the other, which forms its perimeter. Jhalana exhibits a wide range of geographical features, including hills, valleys, plateaus, sand dunes, nallahs, and gullies. The study region is located at a latitude of 26° 55' North and a longitude of 75° 49' East. Geographically, it falls within the semi-arid zone of India. The region is characterised by a high temperature, low rainfall, and mild winter. The average temperature ranges from 18°C in winter (January) to 40°C in summer (June), with a mean temperature of 36°C. The normal rainfall is 600 mm, with almost 90% occurring during the summer monsoon period from June to September. The remaining rainfall comes from winter cyclones. The area is a designated forest reserve that serves as the habitat for several species of untamed flora, approximately 20 leopards, and over 218 species of birds, including predatory birds such as shikras and white- eyed buzzards. This showcases the rich diversity of the natural world and its riches.

Instruments Used:

The instrument used was the Olympus 8×40 DPS Binoculars. Binoculars are a pair of telescopes that are positioned next to each other and adjusted to face the same direction. The most crucial factor is comportment. The device must possess ergonomic design for ease of handling. All binoculars possess a pair of two digits that indicate their specifications, sometimes preceded by a letter code such as B or GA. The initial figures denote the magnification, typically ranging from 7X to 10X. For general bird watching, smaller magnification binoculars with a power of 7X or 8X are typically employed. As the magnification decreases, the image becomes brighter and the field of view becomes wider.

Avifauna Survey Methodology:

Bird census and monitoring is an extremely cost-effective way of monitoring the overall health of the ecosystem. Bird species were recorded by observations made through Olympus 8×40 DPS Binoculars with the help of the identification books of Ali and Ripley (3). Observations were made by both transect and direct visual count method. Counts were carried out from half an hour after sunrise to 11:00 and from 15:00 to half an hour prior to sunset.



(Figure: The location of the Jhalana Reserve Forest in Rajasthan State, northwestern India. The red line marks the official boundaries of the Jhalana Reserve Forest, and the yellow line marks the fence around the forest areas.)

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Biodiversity of Jhalana Leopard Safari Park:

This area very rich Biodiversity with references to flora and fauna both Provide habitats for various migratory and resident birds. More than 218 species of belonging to 51 families were recorded. The birds commonly sighted included some endangered, uncommon, vulnerable, threatened and near threatened species.

Type of Forest with Major Species:

Jhalana is a dry deciduous forest and the trees mostly shed their leaves in dry season and get green during monsoons. The forest is scattered over a large area on various geological and soil formations, and vary greatly in composition and quality. Edaphic and biotic factors determine their distribution. The main species of the tree which cover over 80 percent of the area is Dhok (Anogeissus pendula). Its associates like Salar (Boswellia serrata), and Gurjan (Linnea coromendelica) grow on rocks and dry areas. Khair (Acasia catechu) is common in park and Bamboo (Dendrocalamus strictus) grow in extremely limited extent along with well drained reaches of the stream sand moist, cooler aspects of the hill where soil for- formation still exists. It is also found in park. The trees are generally slow growing and attain poor height. The height of trees varies from 4.5 meters to 7.5 metres. In favourable localities the height up to 12 metres is attained. Imli (Tamarindus indica), Aam (Mangifera indica), Jamun (Syzygium cumini), Tendu (Diospyros melanoxylon), Bahera (Terminalia bellirica), Arjun (Terminalia arjuna), Churel (Holoptelia integrifolia), Siris (Albizzia lebbek), Ficus spp. etc. which grow in moist localities attain large size, both in crown spread and height. Where valleys fan out in open and where they flatten and become wide, Dhak (Butea monosprema) grows gregariously. These forests have been classified on the basis of their composition as follows:

- (i) Dhok forest
- (ii) Salar forest
- (iii) Khair forest
- (iv) Miscellaneous forest Further divided into four types
- (a) Dhak forest
- (b) Forest along nallas
- (c) Scrub forest
- (d) Bamboo forest.

Composition and condition of the Crop:

Distribution of each type under following heads:

(I) Dhok (Anogeissus pendula) Forest:

This is the Principal species growing in the area. This corresponds to 5/0-1, Anogeissus pendula Forest type which is an edaphic climax in tropical dry deciduous forest (7). The Dhok is a gregarious tree species and is often found in pure stands in the middle slopes of the hills where it may form over 80% of the crop. Dhok leaves are good fodder. They are browsed while on the trees as well as when dried and fallen on ground. Process of turning of leaves to rusty red to brown and finally grey starts from November. By March the trees become leafless leaving sufficient leaf-forage on the ground. The common associates of Dhok are Khair, Tendu, Khirni (Wrightia tinctoria), Gurjan (Linnea corommendelica), Dhak, Churel and Ber (Zizyphus maurtiana) are found at the foot of the hills, in park and along nallahs. Tree species like Jamun (Syzygium cumini) Kalam (Mitragyana Parviflolia), Gular (Ficus glomerata), Rohini (Mallotus phillippinensis) are found in moist localities.

(II) Salar (Boswellia serrata) Forest:

Next to Dhok, Salar is the principal tree Spp. of these forests. This type corresponds to 5/E-2; "Boswellia forest" which is an edaphic climax is Group 5, "Tropical Dry deciduous Forest" (7). It is found on hill tops and is mixed with Dhok upto middle of the slopes. The common associates are Gurjan, Karaya (Sterculia urens), Tendu (Diospyros melenoxylon), Dhaman (Grewia latifolia), Khair and Safed Dhok. The forests add to the beauty of the landscape when their leaves start turning' into rusty and pale yellow appearances in September before fall.

(III) Khair (Acacia catechu) Forests:

Khair is an important associate of Dhok and Salar and occurs scattered on tops and hill slops. They serve as good brows and their pods are good food for birds and ungulates.

(IV) Miscellaneous Forests:

These are found along nallahs, rivers and tanks which are more or less perennial. The vegetation corresponds to 'Type 1 S/I Dry Tropical Riverian Forest (7). The Common species found are Gular (Ficus glumerata), Chila, Jamun, Kalam, Khajur (Phoenix sylvestris), Rohni. They produce fruits rich in sugar contents.

(C) Other Miscellaneous Forest:

Miscelleneous forests of inferior nature correspond to E/8, Saline/Alkaline Scrub Savannah consisting of Jal (Capparis sepiaria), Hingot (Balanites aegyptica), Kair (Capparis decidua), Bel (Aegle marmelose), Ghatbor (Zizyphus xylopara); and Jhariber (Zizyphus nummularia). Their fruits again are liked by animals especially in summer when forage is dry and many a times it is not available.

(D) Bamboo Forests:

Bamboo (Dendrocalamus strictus) occurs in the forests of this tract which is classified as 5/e-9, Dry Bamboo Brake by

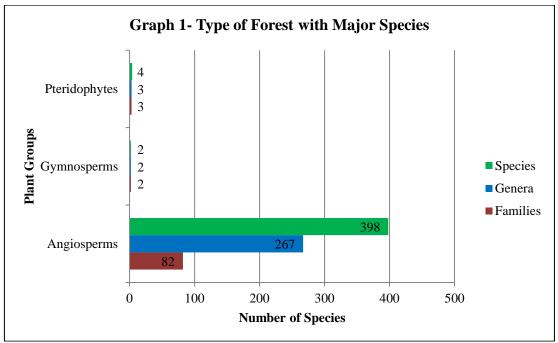
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Champion & Seth. Bamboo is found along nallahs in Dhok and Salar forests in Aravalli hills. Regeneration is not satisfactory. The bamboo leaves form forage of significance for animals of the sanctuary. A total number of 404 indigenous and naturalised plant spp. belonging to 272 genera under 87 families are met with in Jhalana Leopard Safari.

Table 1- Type of Forest with Major Species

Angiosperms	Families	Genera	Species
Monocoteledons	13	59	90
Dicoteledons	69	208	308
Total	82	267	398
Gymnosperms	2	2	2
Pteridophytes	3	3	4
Grand Total	87	272	404



Fauna (fish, amphibious, mammal & reptiles, bird):

The fauna comprises various species. They range from mammals and reptiles to colorful birds. The common animals here are Nilgai is commonly found in open plains and in the foothills of the Aravallis. Panther, Sambar, chital, rhesus macaque, languor, jackal, wolf, Indian porcupine, desert fox, Indian gerbil, five striped palm squirrel, desert gerbil, wild boar, jungle cat, desert cat and other wild animals. Like crocodiles are the monarchs of the aquatic life. Other reptiles include cobra, Indian chameleon and the garden lizard. Common mongoose and Indian mongoose are mostly found in this area. Thus the fauna of Jhalana Leopard Safari supports many kinds of animal species. More than 218 species of birds found at lake, another water bodies and surroundings Sanctuary area. The number of water fowls visiting this area, in winter season and so many other beautiful land birds also found in sanctuary area both domestic and migratory all over year.

Important sights:

Birds live in specific areas according to the climate and topographical surroundings. Although every area of park important bird habitat but Godiyana and Todaladi have more important.

Godiana: The main vegetations along the courses of park are planted acacia nilotica and Acacia tortilis along with Acacia senegal, whereas in the interior part is mixed type vegetation. Accordingly, the bird life along rivers and forest is also diverse, depending on the nature of the habitat. This is the reason why this area has more important for bird watching.

Todaladi: The main vegetations inside nallas are planted acacia nilotica and Acacia tortilis along with Acacia senegal and Munja. This area is very important for ground birds.

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Status of Birds:

The status was classified as following after distributions (3, 4), however, the classification and nomenclature was followed.

- Locally Common Resident (LCR) species, which are found in the Sanctuary area throughout the year in good numbers.
- * Not Common Resident (NCR) species, which are not found commonly in the Sanctuary area throughout the year.
- * Not Common Winter Visitor (NCWV) -species, which are found uncommonly during winter.
- ❖ Not Common Summer Visitor (NCSV) species, which are found uncommonly during summer.
- **Common Winter Visitor (CWV) -** species, which are found commonly during winter.
- Locally Common Summer Visitor (LCR) species, which are not found commonly in the Sanctuary area in the summer.
- ❖ Locally Common Winter Visitor (LCWV) species, which are found commonly during winter.
- **Common Resident (CR)** May be seen daily, in suitable habitat and season, but not in large numbers.
- * Not Common Passage Migrant (NCPM) species, which are stops uncommonly somewhere for a short time during a seasonal migration.
- ❖ Locally Common Passage Migrant (LCPM) species, which are sighted on the passage from their wintering grounds to the breeding grounds or vice versa.
- ❖ Vagrant (V) -species, which is not regularly sighted, nor winter migrant nor breeding migrant and hence supposed to be a stray bird sighting.

Residency Categories:

- **Breeder -** Population reproduces in the park.
- * Resident A significant population is maintained in the Sanctuary for more than two months each year, but it is not known to breed there.
- ❖ Migratory Migratory species that occurs in park approximately two months or less each year and does not breed there.
- ❖ Vagrant Sanctuary is outside of species' usual range.

Results:

The comprehensive checklist of birds given here consists of 218 species recorded from the Sanctuary belonging to 72 families. Out of which 13 species are common resident, 6 are not common passage migrant, 48 not common resident, 7 not common summer visitor, 30 not common winter visitor,1 common passage migrant, 7 common winter visitor, 1 locally common passage migrant, 82 locally common resident, 4 locally common summer visitor,17 locally common winter visitor and 2 vagrant species. 29 Family Alcedinidae, Anhingidae, Bucerotidae, Burhinidae, Caprimulgidae, Carduelinae, Centropodidae, Cerylidae, Dendrocygnidae, Falconidae, Glareolidae, Halcyonidae, Larini, Megalaiminae, Monarchidae, Nectariniinae, Pelecanidae, Pittidae, Podicipedidae, Rhipiduridae, Rostratulidae, Salpornithinae, Strigidae, Turdinae, Turnicidae, Tytonidae, Upupidae, Vangidae, Zosteropidae show the lowest representation with only one species each. Family Accipitridae shows the highest number of representatives of 16 species in the area. Species like, Indian Pitta (Pitta brachyuran) migrate to the area only during their breeding season, i.e. in monsoon. The list consists of 9 species listed in the IUCN threatened list, and 4 endemics.

Threatened Species:

Two species of vultures, namely, White-rumped Vulture Gyps bengalensis (Critically Endangered), Egyptian Vulture Neophron percnopterus (Endangered) reported from the Sanctuary.

Alexandrine Parakeet (*Psittacula eupatria*), Black-headed Ibis (*Threskiornis melanocephalus*), Painted Stork (*Mycteria leucocephala*) & River Tern (*Sterna aurantia*) are 4 Near Threatened Species in the sanctuary.

Two species, namely, Common Pochard (*Aythya ferina*) and White-naped Tit (*Machlolophus nuchalis*) are Vulnerable Species. Steppe Eagle (*Aquila nipalensis*) is a Endangered found in this area.

Endemic species: Following four species endemic to sanctuary has been found: Painted Spurfowl (*Galloperdix lunulata*), Rock Bush Quail (*Perdicula argoondah*), Rufous-tailed Lark (*Ammomanes phoenicura*) and White-naped Tit (*Machlolophus nuchalis*).

Table2: Most frequently found birds

Species	Name	Status
FAMILY- Accipitrinae		
Accipiter badius	Shikra	Not Common Winter Visitor
Accipiter gentilis	Northern Goshawk	Not Common Winter Visitor
Accipiter nisus	Eurasian Sparrowhawk	Not Common Winter Visitor
Aquila nipalensis	Steppe Eagle	Not Common Resident

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Buten rufinus	Aquila rapax	Tawny Eagle	Vagrant
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Hollastur indus	**		
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Neophron percopoteras Egyptian Vulture Common Resident			
Pernis pillorhyncus	ν		
Spilornis cheela Crested Serpent Eagle Not Common Resident			
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FAMILY- Bucerotidae Ocyceros birostris Indian Grey Hornbill Not Common Resident	Mesophoyx intermedia	Intermediate Egret	Locally Common Resident
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	FAMILY- Bucerotidae		
FAMILY- Burhinidae	Ocyceros birostris	Indian Grey Hornbill	Not Common Resident
	FAMILY- Burhinidae		
Burhinus oedicnemus Eurasian Thick- knee Locally Common Resident	Burhinus oedicnemus	Eurasian Thick- knee	Locally Common Resident
FAMILY- Caprimulgidae	FAMILY- Caprimulgidae		
Caprimulgus asiaticus Indian Nightjar Not Common Resident		Indian Nightjar	Not Common Resident
FAMILY- Carduelinae	FAMILY- Carduelinae		

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Carpodacus erythrinus	Common Rosefinch	Not Common Passage Migrant
FAMILY- Centropodidae	Common Rosennen	1 1101 Common 1 assage Wigiant
Centropus sinensis	Greater Coucal	Common Resident
FAMILY- Cerylidae	Greater Coucar	Common Resident
Ceryle rudis	Pied Kingfisher	Locally Common Resident
FAMILY- Charadriinae	Fled Kilighshei	Locally Collinion Resident
Charadrius dubius	Little Ringed Plover	Locally Common Resident
Vanellus indicus	Red-wattled Lapwing	Common Resident
Vanellus malarbaricus FAMILY- Ciconiidae	Yellow-wattled Lapwing	Not Common Resident
	A -: O L:11	I II C D: I4
Anastomu soscitans	Asian Openbill	Locally Common Resident Locally Common Resident
Ciconia episcopus	Woolly-necked Stork Painted Stork	Locally Common Resident Locally Common Resident
Mycteria leucocephala	Painted Stork	Locally Common Resident
FAMILY- Cisticolidae Cisticola juncidis	7:4: 0:-4:1-	I II C D: I
	Zitting Cisticola	Locally Common Resident
Prinia gracilis	Graceful Prinia	Locally Common Resident
Prinia hodgsonii	Grey-breasted Prinia	Not Common Resident
Prinia inornata	Plain Prinia	Locally Common Resident
Prinia socialis	Ashy Prinia	Locally Common Resident
FAMILY- Columbidae	D1- D:	Lesslle Comm. B. 11.
Columba livia	Rock Pigeon	Locally Common Resident
Streptopelia chinensis	Spotted Dove	Not Common Resident
Streptopelia decaocto	Eurasian Collared Dove	Locally Common Resident
Streptopelia senegalensis	Laughing Dove	Locally Common Resident
Streptopelia tranquebarica	Red Collared Dove	Locally Common Resident
Treron phoenicoptera	Yellow-footed Green Pigeon	Locally Common Resident
FAMILY- Coraciidae	I P B II	G D II
Coracias benghalensis	Indian Roller	Common Resident
Coracias garrulus	European Roller	Not Common Passage Migrant
FAMILY- Corvini	T	1 11 0 11 1
Corvus splendens	House Crow	Locally Common Resident
Dendrocitta vagabunda	Rufous Treepie	Locally Common Resident
FAMILY- Cuculidae		N. G. G. H.
Cacomantis passerinus	Grey-bellied Cuckoo	Not Common Summer Visitor
Clamator jacobinus	Pied Cuckoo	Not Common Summer Visitor
Eudynamys scolopacea	Asian Koel	Not Common Summer Visitor
Hierococcyx varius	Common Hawk Cuckoo	Not Common Summer Visitor
, , , , , , , , , , , , , , , , , , ,		M.C. D.11.
Phaenicophaeus leschenaultii	Sirkeer Malkoha	Not Common Resident
Phaenicophaeus leschenaultii FAMILY- Dendrocygnidae		
Phaenicophaeus leschenaultii FAMILY- Dendrocygnidae Dendrocygna javanica	Sirkeer Malkoha Lesser Whistling- duck	Not Common Resident Not Common Resident
Phaenicophaeus leschenaultii FAMILY- Dendrocygnidae Dendrocygna javanica FAMILY- Dicrurini	Lesser Whistling- duck	Not Common Resident
Phaenicophaeus leschenaultii FAMILY- Dendrocygnidae Dendrocygna javanica FAMILY- Dicrurini Dicrurus caerulescens	Lesser Whistling- duck White-bellied Drongo	Not Common Resident Not Common Resident
Phaenicophaeus leschenaultii FAMILY- Dendrocygnidae Dendrocygna javanica FAMILY- Dicrurini Dicrurus caerulescens Dicrurus macrocercus	Lesser Whistling- duck	Not Common Resident
Phaenicophaeus leschenaultii FAMILY- Dendrocygnidae Dendrocygna javanica FAMILY- Dicrurini Dicrurus caerulescens Dicrurus macrocercus FAMILY- Emberizini	Lesser Whistling- duck White-bellied Drongo Black Drongo	Not Common Resident Not Common Resident Locally Common Resident
Phaenicophaeus leschenaultii FAMILY- Dendrocygnidae Dendrocygna javanica FAMILY- Dicrurini Dicrurus caerulescens Dicrurus macrocercus FAMILY- Emberizini Emberiza bruniceps	Lesser Whistling- duck White-bellied Drongo Black Drongo Red-headed Bunting	Not Common Resident Not Common Resident Locally Common Resident Not Common Winter Visitor
Phaenicophaeus leschenaultii FAMILY- Dendrocygnidae Dendrocygna javanica FAMILY- Dicrurini Dicrurus caerulescens Dicrurus macrocercus FAMILY- Emberizini Emberiza bruniceps Emberiza buchanani	Lesser Whistling- duck White-bellied Drongo Black Drongo Red-headed Bunting Grey-necked Bunting	Not Common Resident Not Common Resident Locally Common Resident Not Common Winter Visitor Not Common Winter Visitor
Phaenicophaeus leschenaultii FAMILY- Dendrocygnidae Dendrocygna javanica FAMILY- Dicrurini Dicrurus caerulescens Dicrurus macrocercus FAMILY- Emberizini Emberiza bruniceps Emberiza stewarti	Lesser Whistling- duck White-bellied Drongo Black Drongo Red-headed Bunting Grey-necked Bunting White-capped Bunting	Not Common Resident Not Common Resident Locally Common Resident Not Common Winter Visitor Not Common Winter Visitor Not Common Winter Visitor
Phaenicophaeus leschenaultii FAMILY- Dendrocygnidae Dendrocygna javanica FAMILY- Dicrurini Dicrurus caerulescens Dicrurus macrocercus FAMILY- Emberizini Emberiza bruniceps Emberiza stewarti Emberiza striolata	Lesser Whistling- duck White-bellied Drongo Black Drongo Red-headed Bunting Grey-necked Bunting White-capped Bunting House Bunting	Not Common Resident Not Common Resident Locally Common Resident Not Common Winter Visitor Not Common Winter Visitor Not Common Winter Visitor Not Common Resident
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Phaenicophaeus leschenaultii FAMILY- Dendrocygnidae Dendrocygna javanica FAMILY- Dicrurini Dicrurus caerulescens Dicrurus macrocercus FAMILY- Emberizini Emberiza bruniceps Emberiza buchanani Emberiza stewarti Emberiza striolata Melophus lathami FAMILY- Estrildidae Amandava amandava Lonchura malabarica Lonchura punctulata FAMILY- Falconidae Falco tinnunculus FAMILY- Glareolidae Cursoriu scoromandelicus	Lesser Whistling- duck White-bellied Drongo Black Drongo Red-headed Bunting Grey-necked Bunting White-capped Bunting House Bunting Crested Bunting Red Avadavat Indian Silverbill Black-headed Munia Scaly-breasted Munia	Not Common Resident Locally Common Resident Not Common Winter Visitor Not Common Winter Visitor Not Common Winter Visitor Not Common Resident Locally Common Resident Not Common Resident Locally Common Resident Not Common Resident
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Riparia paludicola	Plain Martin	Not Common Resident
FAMILY- Jacanidae	I fam Matun	Not Common Resident
Hydrophasianus chirurgus	Pheasant-tailed Jacana	Locally Common Summer Visitor
Metopidius indicus	Bronze-winged Jacana	Locally Common Summer Visitor
FAMILY- Laniidae	Bronze winged sacand	Locary Common Summer Visitor
Lanius meridionalis	Southern Grey Shrike	Common Resident
Lanius schach	Long-tailed Shrike	Common Resident
Lanius vittatus	Bay-backed Shrike	Locally Common Resident
FAMILY- Larini	1	1 =
Larus ichthyaetus	Pallas's Gull	Not Common Passage Migrant
FAMILY- Megalaiminae		
Megalaima haemacephala	Coppersmith Barbet	Locally Common Resident
FAMILY- Meropidae	•	
Merops orientalis	Green Bee-eater	Locally Common Resident
Merops persicus	Blue-cheeked Bee-eater	Locally Common Summer Visitor
Merops philippinus	Blue-tailed Bee-eater	Not Common Passage Migrant
FAMILY- Monarchidae		
Terpsiphone paradisi	Asian Paradise- flycatcher	Not Common Summer Visitor
FAMILY- Motacillinae		
Anthus campestris	Tawny Pipit	Not Common Winter Visitor
Anthus hodgsoni	Olive-backed Pipit	Not Common Winter Visitor
Anthus rufulus	Paddyfield Pipit	Locally Common Resident
Anthus similis	Long-billed Pipit	Not Common Winter Visitor
Anthus trivialis	Tree Pipit	Not Common Winter Visitor
Motacilla cinerea	Grey Wagtail	Not Common Winter Visitor
Motacilla citreola	Citrine Wagtail	Not Common Winter Visitor
Motacilla flava	Yellow Wagtail	Not Common Winter Visitor
FAMILY- Muscicapini		T
Culicicapa ceylonensis	Grey-headed Canary Flycatcher	Not Common Winter Visitor
Cyornis tickelliae	Tickell's Blue Flycatcher	Not Common Resident
Eumyias thalassina	Verditer Flycatcher	Not Common Winter Visitor
Ficedula parva	Red-throated Flycatcher	Not Common Passage Migrant
Muscicapa dauurica	Asian Brown Flycatcher	Not Common Resident?
FAMILY- Nectariniinae Nectarinia asiatica	Purple Sunbird	Legally Common Besident
FAMILY- Oriolidae	Furple Sullollu	Locally Common Resident
Coracina macei	Large Cuckooshrike	Not Common Resident
Coracina melanoptera	Black-headed Cuckooshrike	Not Common Resident
Oriolus oriolus	Eurasian Golden Oriole	Locally Common Summer Visitor
Pericrocotus cinnamomeus	Small Minivet	Locally Common Resident
FAMILY- Paridae	Sman vimive	Boomly Common Resident
Parus major	Great Tit	Locally Common Resident
Parus nuchalis	White- naped Tit	Not Common Resident
FAMILY- Passerinae		
Passer domesticus	House Sparrow	Locally Common Resident
Passer hispaniolensis	Spanish Sparrow	Locally Common Resident
Petronia xanthocollis	Chestnut-shouldered Petronia	Locally Common Resident
FAMILY- Pelecanidae		
Pelecanus onocrotalus	GreatWhite Pelican	Not Common Winter Visitor
FAMILY- Phalacrocoracidae		
Phalacrocorax carbo	Great Cormorant	Locally Common Resident
Phalacrocorax fuscicollis	Indian Cormorant	Locally Common Resident
Phalacrocorax niger	Little Cormorant	Locally Common Resident
FAMILY- Phasianidae		
Coturnix coturnix	Common Quail	Not Common Resident
Francolinus francolinus	Black Francolin	Locally Common Resident
Francolinus pondicerianus	Grey Francolin	Locally Common Resident
Galloperdix lunulata	Painted Spurfowl	Not Common Resident
Pavo cristatus	Indian Peafowl	Locally Common Resident
Perdicula argoondah	Rock Bush Quail	Locally Common Resident
Perdicula asiatica	Jungle Bush Quail	Locally Common Resident
FAMILY- Picidae	Yellow-crowned Woodpecker	Locally Common Resident
Dendrocopo smahrattensis		L L coolly I Common Decident

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Dendrocopos nanus	Brown-capped Pygmy Woodpecke	r Not Common Resident
Dinopium benghalense	Black- rumped Flameback	Not Common Resident
Jynx torquilla	Eurasian Wryneck	Not Common Winter Visitor
FAMILY- Pittidae		•
Pitta brachyura	Indian Pitta	Not Common Summer Visitor
FAMILY- Ploceidae		
Ploceus benghalensis	Black-breasted Weaver	Not Common Resident
Ploceus manyar	Streaked Weaver	Not Common Resident
Ploceus philippinus	Baya Weaver	Locally Common Resident
FAMILY- Podicipedidae		
Tachybaptus ruficollis	Little Grebe	Locally Common Resident
FAMILY-Psittacidae		
Psittacula cyanocephala	Plum-headed Parakeet	Not Common Resident
Psittacula eupatria	Alexandrine Parakeet	Not Common Resident
Psittacula krameri	Rose-ringed Parakeet	Common Resident
FAMILY-Pteroclidae		
Pterocles exustus	Chestnut-bellied Sandgrouse	Common Resident
Pterocles indicus	Painted Sandgrouse	Locally Common Resident
FAMILY- Pycnonotidae		
Pycnonotus cafer	Red-vented Bulbul	Locally Common Resident
Pycnonotus leucotis	White-eared Bulbul	Locally Common Resident
FAMILY- Rallidae		
Amaurornis akool	Brown Crake	Not Common Resident
Fulica atra	Common Coot	Locally Common Resident
Gallinula chloropus	Common Moorhen	Locally Common Resident
Porphyrio porphyrio	Purple Swamphen	Locally Common Resident
Porzana pusilla	Baillon's Crake	Not Common Winter Visitor
FAMILY- Recurvirostrini		
Himantopushi mantopus	Black-winged Stilt	Locally Common Resident
Recurvirostra avosetta	Pied Avocet	Not Common Winter Visitor
FAMILY- Rhipiduridae		
Rhipidura aureola	White- browed Fantail	Locally Common Resident
FAMILY- Rostratulidae		
Rostratula benghalensis	Greater Painted-snipe	Not Common Summer Visitor
FAMILY- Salpornithinae		
Salpornis spilonotus	Spotted Creeper	Not Common Resident
FAMILY- Saxicolini		
Cercomela fusca	Brown Rock-chat	Locally Common Resident
Cercotrichas galactotes	Rufous- tailed Scrub Robin	Not Common Passage Migrant
Copsychus saularis	Oriental Magpie Robin	Locally Common Resident
Luscinia svecica	Bluethroat	Common Passage Migrant
Oenanthe deserti	Desert Wheatear	Common Winter Visitor
Oenanthe isabellina	Isabelline Wheatear	Common Winter Visitor
Oenanthe picata	Variable Wheatear	Common Winter Visitor
Phoenicurus ochruros	Black Redstart	Common Winter Visitor
Saxicola caprata	Pied Bushchat	Common Resident
Saxicola ferrea	Grey Bushchat	Not Common Winter Visitor
Saxicola torquata	Common Stonechat	Common Winter Visitor
Saxicoloides fulicata	Indian Robin	Locally Common Resident
FAMILY-Sterninae		
Sterna aurantia	River Tern	Locally Common Resident
Athene brama	Spotted Owlet	Locally Common Resident
FAMILY-Strigidae		
Otus bakkamoena	Collared Scops Owl	Not Common Resident
FAMILY-Sturnini		
Acridotheres ginginianus	Bank Myna	Locally Common Resident
Acridotheres tristis	Common Myna	Locally Common Resident
Sturnus contra	Asian Pied Starling	Not Common Resident
Sturnus pagodarum	Brahminy Starling	Locally Common Resident
Sturnus roseus	Rosy Starling	Locally Common Winter Visitor
Sturnus vulgaris	Common Starling	Not Common Winter Visitor
FAMILY-Sylviini		
Sylvia curruca	Lesser Whitethroat	Common Winter Visitor

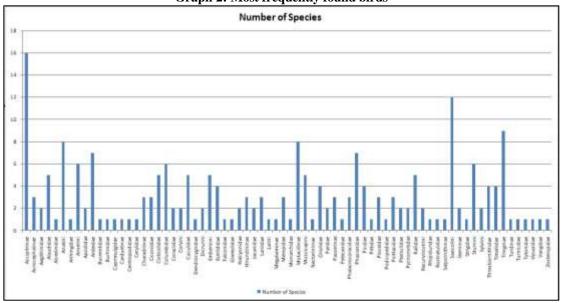
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Sylvia hortensis	OrpheanWarbler	Not Common Winter Visitor
FAMILY- Threskiornithidae		
Platalea leucorodia	Eurasian Spoonbill	Locally Common Resident
Plegadis falcinellus	Glossy Ibis	Not Common Resident
Pseudibis papillosa	Black Ibis	Locally Common Resident
Threskiornis melanocephalus	Black-headed Ibis	Locally Common Resident
FAMILY- Timaliidae	·	
Chrysomma sinense	Yellow-eyed Babbler	Locally Common Resident
Turdoides caudatus	Common Babbler	Locally Common Resident
Turdoides malcolmi	Large Grey Babbler	Locally Common Resident
Turdoides striatus	Jungle Babbler	Not Common Resident
FAMILY- Tringinae		·
Actitis hypoleucos	Common Sandpiper	Not Common Winter Visitor
Calidris minuta	Little Stint	Locally Common Winter Visitor
Calidris temminckii	Temminck's Stint	Locally Common Winter Visitor
Limosa limosa	Black-tailed Godwit	Locally Common Winter Visitor
Philomachus pugnax	Ruff	Locally Common Winter Visitor
Tringa glareola	Wood Sandpiper	Not Common Winter Visitor
Tringa nebularia	Common Greenshank	Not Common Winter Visitor
Tringa ochropus	Green Sandpiper	Not Common Winter Visitor
Tringato tanus	Common Redshank	Locally Common Winter Visitor
FAMILY- Turdinae		
Monticola solitarius	Blue Rock Thrush	Locally Common Winter Visitor
FAMILY- Turnicidae		
Turnix suscitator	Barred Buttonquail	Not Common Resident
FAMILY- Tytonidae		
Tyto alba	Barn Owl	Not Common Resident
FAMILY- Upupidae		
Upupa epops	Common Hoopoe	Common Resident
FAMILY- Vangidae	-	
Tephrodornis pondicerianus	Common Woodshrike	Locally Common Resident
FAMILY- Zosteropidae		-
Zosterops palpebrosus	Oriental White-eye	Locally Common Resident

Graph 2: Most frequently found birds



Conclusion:

The findings of this study showed that there were 218 familes of bird species, with the maximum number seen during the winter season and the lowest number during the summer season. The diverse ecosystems in Jhalawar harbour a wide array of avian species, underscoring the significance of the area. However, the richness of bird species in these environments is significantly impacted by anthropogenic influences. There is an immediate necessity to implement conservation measures that would focus on improving wildlife habitat management initiatives in the division.

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