



# Status of Faunal Diversity In Nanda Devi National Park (NDNP): Chamoli-Uttarakhand, India

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**Abstract:** This paper deals with observation of the status of faunal diversity in Nanda Devi National park (NDNP). Survey was carried out during May 2005 to April 2006. This paper observe checklist the mammals, birds, reptiles, over the course of study. Out of the total 185 faunal species belonging to 03 classes (mammals, birds and reptiles). The mammals belonging to 02 orders, 05 families, 27 species, birds belonging to 09 orders, 29 families, 154 species and reptiles belonging to 02 orders, 02 families, 04 species in recorded in study area.

**Keywords:** NDNP • Wildlife • Faunal diversity

## Introduction

Nanda Devi national park is a “world heritage” site that lies in eastern Uttaranchal state, near the Tibetan border in the Garhwal Himalaya (Chamoli district). The Nanda devi national park is the first and for most core of the Nanda Devi Biosphere Reserve and most valued property. Nanda Devi National Park is one of the most spectacular wilderness areas in the Garhwal Himalaya. The park is the catchment of river Alaknanda, the eastern tributary of river Ganga. Nanda Devi is the second highest peak (7,817masl) in India. Nanda Devi national park has a very diverse flora and is the habitat of several endangered species of mammals and birds. The first published observation on the wildlife of Nanda Devi are these of Dang (1961, 1967), LavKumar (1977, 1979) and for birds Reed (1979). Survey of the flora and mammalian fauna were carried out by the Botanical survey

of India (Hajra 1983a) and Zoological survey of India (Tak & Lamba 1984, 1985, Lamba 1987) respectively. Some 83 animal species were reported from the area of the Nanda Devi National Park by the Indian National MAB committee. 114 species of birds belonging to 30 families are reported (Sankaran 1993) from the Nanda Devi National park. Some 67 of these species were not recorded during earlier survey.

## Material and Methods

Study was carried out in Nanda devi National park (N 30<sup>0</sup> 16' to 30<sup>0</sup> 32' and longitude E 79<sup>0</sup> 44' to 80<sup>0</sup> 02') including part of Joshimath, Auli, Tolma, Latakhark, Badrinath, Mana, Gangriya, and Pandukeshwer in district Chamoli, Uttarakhand. Study area has large altitudinal range from 1900m asl (lower Rishi Ganga) to 7,817m asl (Nanda Devi west) with



unique topography, climate and soil supporting diverse ecosystems, habitats, communities and species richness. Study was carried out in urban and forest habitat for one year during May 2005 to April 2006. Following the transect walk and point count methods, and with help of the field binocular (10x50X) and pocket field guide (Birds of the Himalaya: by S. Ali, 1983), each faunal species was identified.

### Results and Discussion

Out of the total 185 faunal species belonging to 03 classes (mammals, birds and reptiles). The mammals belonging to 02 orders, 05 families, 27 species, are recorded in study area. The order Artiodactyla and family Cervidae in all habitats were dominant on other group of mammals. The NDNP serves as the perpetual reservoirs of water for most of the main rivers which are of immense value to the northern India. The region is drained by numerous rivers and rivulets, locally known as gad, gadhera or raula. NDNP has many streams some are seasonal and annually. Snow leopard *Panthera uncia* Leopard *Panthera pardus*, Brown bear *Ursus arctos isabellinus* Himalayan black bear *Selenarctos thibetanus* Barking deer *Muntiacus muntjak vaginalis* Wild boar *Sus scrofa* Musk deer *Moschus chrysogaster* Himalayan thar *Hemitragus jemlahicus* Himalayan goat *Nemorhaedus goral goral* etc found in study area. The birds belonging to 09 orders, 29 families, 154 species are recorded in study area. The order Passeriformes and family

Muscicapidae were dominant on other group of birds in all habitats. The study area presents a unique set of ecological characteristics over a complex variety of system that incorporates forests, meadows, savannah grassland, marshes and rivers. Forest are restricted largely to the Reshi gorge and are dominated by west Himalayan fir (*Abies pindrow*), Buransh (*Rhododendron campanulatum*) and Himalayan birch (*Betula utilis*) up to about 3,350mt. Initial floral surveys were mainly conducted by LuvKumar (1979), Hajra (1983a & b), Balodi (1993), and Hajra & Balodi (1995). Some game birds species The white crested kaleej pheasant *Lophura leucomelanes hamiltoni*, Cheer pheasant *Catreus wallichii*, Monal pheasant *Lophophorus impejanus*, Kokilas pheasant *Pucrasia macrolophs*, Crimson horned pheasant *Tragopan satyara*, Black francolin *Francolinus francolinus*, Hill partridge *Arbarphila torquola*, Chukar partridge *Alectoris chukar graeca*, Snow partridge *Leewa lerwa*, Himalayan snow partridge *Tetraogallus himalayensis himalayensis*, Western tragopan *Tragopan melanocephalus*, Blue breasted quail *Coutrinx chinensis chinensis*, Black breasted quail *Coutrinx caromendelica* were sighted in the study area.

The reptiles belonging to 02 orders, 02 families, 04 species are recorded in study area. Indian python *Python molurus*, Indian cobra *Naja naja* King cobra *Naja hunnah* Himalayan pit viper *Anurodon himalayanus* were sighted in the study area.



**Table 1** List of faunal diversity in Nanda Devi National park

S.N.	Class/Order/Family/Sub-Family	Zoological Name	Common Name	Local Name
A	Mammals			
	Carnivora			
	Felidae			
1		<i>Felis Chaus</i>	Jangle Cat	Jangle Billi
2		<i>Felis Bengalensis</i>	Leopard Cat	Ban Bilav/Bag Billi
3		<i>Panthera Parades</i>	Leopard	Bagh/Tendua/Guldar
4		<i>Panthera Uncial</i>	Snow Leopard	Him Bagh
	Canidae			
5		<i>Vulpus Vulpes Montana</i>	The Red F Ox	Lomri
6		<i>Canis Aureus Indicus</i>	Jackal	Gidher/Siyar
7		<i>Cuon Alpines Primaevus</i>	Indian Wild Dog	Jungle Kutta
	Ursidae			
8		<i>Ursus Arctos Isabellinus</i>	Brown Bear	Lal Bhalu/Reech
9		<i>Selenarctos Thibetanus</i>	Himalayan Black Bear	Kala Bhalu/Reech
	Artiodactyla			
	Bovidae			
10		<i>Hemitragus Jemlahicus</i>	Himalayan Thar	Thar
11		<i>Pseudois Nayaur Nayaur</i>	Blue Sheep	Bharal
12		<i>Nemorhaedus Goral Goral</i>	Himalayan Goat	Goral
13		<i>Capricornis Sumatraensis</i>	Serrow	Serrow
	Cervidae			
14		<i>Moschus Chrysogaster</i>	Musk Deer	Kastura
15		<i>Muntiacus Muntjak Vaginalis</i>	Barking Deer	Kakar
16		<i>Cervus Unicolor Nigar</i>	Sambhar	Jarow
17		<i>Cervus Duvaecli Duvaecli</i>	Swamp Deer	Swamp Deer
18		<i>Suscrofa Critatus</i>	Wild Boar	Jungle Suar
19		<i>Petaurista Petaurista</i>	Large Flying Squirrel	Karth/Sobali
20		<i>Ferimbulus Pnnanti</i>	Five Striped Palm Squirrel	Koribol Gilhari
21		<i>Lutra Lutra Moniticola</i>	Otter	Udvilaw
22		<i>Herpestes Edwardsiinyula</i>	The Common Mongoore	Newla
23		<i>Rattus Rattus</i>	House Mouse	Chuha
24		<i>Macaca Mulatta</i>	Monkey	Bandar
25		<i>Presbytis Entellus</i>	Langur	Guani
26		<i>Marmota Bobak</i>	Himalayan Marmot	Rhundu
27		<i>Rhinolophus Terrumegnum</i>	Harle Shoe Bat	Chamghadar
B	Aves			
	Falconiformes			
	Accipitridae			
1		<i>Gyps Himalayensis</i>	Himalayan Griffon	Gidth



		Vulture	
2	<i>Gypetus Barbats</i>	Bearded Vulture	Gidth
3	<i>Gyps Fulvs</i>	Indian Griffon Vulture	Gidth
4	<i>Sarcogyps Calvus</i>	Black/King Vulture	Gidth
5	<i>Aquila Chrysnetos</i>	Himalayan Golden Eagle	Sanhara
6	<i>Ictinaetus Malayensis</i>	Black Eagle	Kala Garud
7	<i>Accipiter Badius</i>	Shikra	Chidi Bagh
8	<i>Milvus Migrans</i>	Black Kite	Kala Cheel
9	<i>Holiastur Indus</i>	Brahminy Kite	Cheel
10	<i>Neophron Percnopterus</i>	Egyptian Vulture	
	Galliformes Phasianidae		
11	<i>Lophura Leucomelanes Hamiltoni</i>	The White Crested Kaleej Pheasant	Kaleej
12	<i>Catreus Wallichii</i>	Cheer Pheasant	Cheer
13	<i>Lophophorus Impejanus</i>	Monal Pheasant	Monal/Impeyan
14	<i>Pucrasia Macrolophs</i>	Kokalas Pheasant	Kokalas
15	<i>Tragopan Satyara</i>	Crimson Horned Pheasant	
16	<i>Francolinus Francolinus</i>	Black Francolin	Kala Thitar
17	<i>Arbarphila Torguoola</i>	Hill Partidge	Pahari Thitar
18	<i>Alectoris Chukar Graeca</i>	Chukar Partridge	Chakor
19	<i>Leewa Lerwa</i>	Snow Partridge	Partridge
20	<i>Tetraogallus Himalayensis Himalayensis</i>	Himalayan Snow Partidge	Himchukor
21	<i>Tragopan Melanocephaluus</i>	Western Tragopan	
22	<i>Coutrinix Chinensis Chinensis</i>	Blue Breasted Quail	Bater
23	<i>Coutrinix Caromendelica</i>	Black Breasted Quail	Kala Bater
	Columbiformes Columbidae		
24	<i>Columba Livia Treron Sphenura</i>	Blue Rock Pigeon Wedge Tailed Green Pigeon	Kabutar Hariyal
25	<i>Streptopelia Dacaocto</i>	Eurasian Collared Dove	Kalhat
26	<i>Streptopelia Orientalis</i>	Oriental Turtle Dove	Ghuguti
27	<i>Streptopelia Chinensis</i>	Spotted Dove	
28	<i>Chalcophaps Indica</i>	Emerald Dove	
29	<i>Columba Leuconota Leuconota</i>	Himalayan Snow Pigeon	
30	<i>Scolopax Rusticola</i>	Wood Cock	Shayama Kukuta
	Psittaciformes Psittacidae		
31	<i>Psittacula Himalayana</i>	Slaty Headed Parakeet	Tota
	Cuculiformes		



	Cuculidae			
32		<i>Clamator Coromandus</i>	Red Winged Crested Cuckoo	
	Strigiformes			
	Strigidae			
33		<i>Strix Aluco</i>	Tawny Owl	Oolu
34		<i>Strix Leptogrammica</i>	Brown Wooded Owl	
35		<i>Bubo Nipalensis</i>	Spot Bellied Eagle Owl	
36		<i>Bubo Bubo Bengalensis</i>	Indian Eagle Owl	
	Coraciiformes			
	Alcedinidae			
37		<i>Megaceryle Lugubris</i>	Crested Kingfisher	
38		<i>Halcyon Smyrnensis</i>	White Throated Kingfisher	
	Meropidae			
39		<i>Merops Orientalis</i>	Green Bee-Eater	
	Upupidae			
40		<i>Upupa Eops</i>	Common Hoopoe	
	Piciformes			
	Capitonidae			
41		<i>Megalaima Virens</i>	Great Barbet	Mewali
	Picidae			
42		<i>Picus Canus</i>	Grey Headed Woodpecker	Kathfoda
43		<i>Picus Chlorolophus</i>	Lesser Yellownape Woodpecker	Kathfoda
44		<i>Picus Squamatus</i>	Scally Bellied Woodpecker	Kathfoda
45		<i>Dendrocopos Auriceps</i>	Brown Fronted Woodpecker	Kathfoda
	Passeriformes			
	Alaudidae			
46		<i>Alauda Gulgula</i>	Oriental Sky Lark	
47		<i>Miraфра Assamica</i>	Rufous Winged Bush Lark	
	Hirundinidae			
48		<i>Hirundo Rustica</i>	Barn Swallow	
49		<i>Hirundo Daurica</i>	Red Rumped Swallow	
50		<i>Delichon Dasypus</i>	Asian House Marin	
	Laniidae			
51		<i>Lanius Schach Erythronotus</i>	Long Tailed Shrike(A)	
52		<i>Lanius Schach Tricolour</i>	Long Tailed Shrike(B)	
	Dicruridae			
53		<i>Dicrurus Leucophaeus</i>	Ashy Drongo	
54		<i>Dicrurus Macrocercus</i>	Black Drongo	



	Stunidae			
55		<i>Acredotheres Tristis</i>	Common Myna	Myna/Saitola
56		<i>Acredotheres Fuscus</i>	Jungle Myna	Ban Sarika
	Corvidae			
57		<i>Garrulus Lanceolatus</i>	Black Headed Jay	Neeelkanth
58		<i>Garrulus Glandarius</i>	Eurasian Jay	
59		<i>Urocissa Flavirstris</i>	Yellow Billed Blue Magpie	
60		<i>Pyrrhocorax Pyrrhocorax</i>	Red Billed Chough	
61		<i>Corvus Corax</i>	Common Raven	
62		<i>Corvus Macrorhynchus</i>	Large Billed Crow	Koaa
	Campephagidae			
63		<i>Lanius Tephronotus</i>	Grey Backed Shrike	
64		<i>Coracina Nevaehollandiae</i>	Large Cuckoo Shrike	
65		<i>Coracina Melanoptera</i>	Black Headed Cuckoo Shrike	
66		<i>Pericrocotus Flammeus</i>	Scarlet Minivet	
67		<i>Pericrocotus</i> <i>Cinnamomeus</i>	Small Minivet	
68		<i>Lanius Isabellinus</i>	Rufous Tailed Shrike	
69		<i>Pericrocotus Ethalogus</i>	Long Tailed Minivet	
	Pycnonotidae			
70		<i>Pycnonotus Leucogenys</i>	Himalayan Bulbul	Bulbul
71		<i>Pycnenotus Cafer</i>	Red Vented Bulbul	Bulbul
72		<i>Hypsipetes Mcclellandii</i>	Mountain Bulbul	Pahari Bulbul
73		<i>Hypsipetes</i> <i>Leucocephalus</i>	Black Bulbul	Bulbul
	Muscicapidae (Sub-Family)			
	Turdidae			
74		<i>Monticola Cinclorhynchus</i>	Blue Capped Rock Thrush	
75		<i>Monticola Solitarius</i>	Blue Rock Thrush	
76		<i>Monticola Rufiventris</i>	Chestnut Bellied Rock Thrush	
77		<i>Myiophonus Caeruleus</i>	Blue Whistling Thrush	Karchul
78		<i>Turdus Boulboul</i>	Grey Winged Black Bird	
79		<i>Turdus Albocinctus</i>	White Collared Black Bird	
80		<i>Zoothera Monticola</i>	Long Billed Thrush	
81		<i>Prinia Criniger</i>	Straited Prinia	
82		<i>Luscinia Brunnea</i>	Indian Blue Robin	
83		<i>Luscinia Pectoralis</i>	White Tailed Ruby Throat	
84		<i>Tarsiger Cyanurus</i>	Orange Flanked Bush Robin	
85		<i>Tarsiger Indicus</i>	White Browded Bush Robin	
86		<i>Tarsiger Hyperythrus</i>	Rufous Brested Bush	



		Robin	
87	<i>Tarsiger Chrysaeus</i>	Golden Bush Robin	
88	<i>Grandala Coelicolor</i>	Grandala	
89	<i>Saxicola Ferrea</i>	Grey Bush Chat	
90	<i>Saxicola Caprata</i>	Pied Bush Chat	
91	<i>Phaenicurus Hodgsoni</i>	Hodggsons Red Start	
92	<i>Rhyacornis Fuliginosus</i>	Plumbeous Water Red Start	
93	<i>Chaimarrornis</i>	White Capped Red Start	
	<i>Leucocephalus</i>	Start	
94	<i>Phoenicurus Frontale</i>	Blue Fronted Red Start	
95	<i>Phoenicurus</i>	Blue Capped Red Start	
	<i>Caeruleocephalus</i>		
96	<i>Enicurus Scouleri</i>	Little Forktail	
97	<i>Enicurus Maculates</i>	Spotted Forktail	
98	<i>Brachypteryx Leucephrys</i>	Lesser Shortwing	
	Timalidae		
99	<i>Pomatorhinus</i>	Rusty Checked	
	<i>Erythrogenys</i>	Scimitar Babbler	
100	<i>Yuhina Flavicollis</i>	Yellow Naped Yuhina	
101	<i>Heterophasia Capistrata</i>	Rufous Sibia	
102	<i>Garrulax Lineatus</i>	Streaked Laughing Thrush	Karchul
103	<i>Garrulax Albogularis</i>	White Throated Laughing Thrush	Karchul
	Sylviidae		
104			
105	<i>Chloropsis Hardwickii</i>	Orange Belled Leaf Bird	
106	<i>Phyllascopus</i>	Ashy Throated Warbler	
	<i>Maculipennis</i>	Warbler	
107	<i>Phyllascopus Trochiloides</i>	Greenish Warbler	
108	<i>Phyllascopus Affinis</i>	Tick Ells Leaf Warbler	
109	<i>Abroscopus Schisticeps</i>	Black Faced Warbler	
110	<i>Phyllascopus Griseolus</i>	Sulphar Belled Warbler	
111	<i>Phyllascopus Chloronotus</i>	Lemon Rumped Warbler	
112	<i>Celtia Major</i>	Chestnut Crowned Bush Warbler	
113	<i>Celtia Brunnifrons</i>	Grey Sided Bush Warbler	
114	<i>Seicercus Xanthoschistos</i>	Grey Hooded Warbler	
115	<i>Tesia Castaneocoronota</i>	Chest Nut-Headed Tesia	
116	<i>Cettia Acanthizoides</i>	Yellowish Billed Bush Warbler	
	Muscicapinae		
117	<i>Ficedula Westermanni</i>	Little Pied Flycatcher	
118	<i>Ficedula Superciliaris</i>	Ultramarine	



		Flycatcher	
119	<i>Ficedula Hyperythra</i>	Snowy Browed Flycatcher	
120	<i>Ficedula Tricolor</i>	Slaty Blue Flycatcher	
121	<i>Ficedula Strophinata</i>	Rufous Gorgated Flycatcher	
122	<i>Cyornis Banyumas</i>	Hill Blue Flycatcher	
123	<i>Eumyias Thalassina</i>	Verditer Flycatcher	
124	<i>Culicicapa Ceylonensis</i>	Grey Headed Canary Flycatcher	
125	<i>Muscicapa Sibirica</i>	Dark Sided Flycatcher	
126	<i>Niltawa Sundara</i>	Rufous Bellied Niltava	
	Sittidae		
127	<i>Sitta Castanea</i>	Chest Nut Billed Nut Hatch	Rakat Shirasha
	Paridae		
128	<i>Parus Xanthogenys</i>	Black Lored Tit	
129	<i>Parus Major</i>	Great Tit	Bulgulo
130	<i>Parus Monticolus</i>	Green Backed Tit	
131	<i>Parus Spilonotus</i>	Yellow Cheeked Tit	
132	<i>Aegitholos Concinnus</i>	Black Throated Tit	Kanth
	Pemizidae		
133	<i>Cephalopyrus Flammiceps</i>	Fire Capped Tit	
	Motacillidae		
134	<i>Moticilla Cinerea</i>	Grey Wagtail	
135	<i>Moticilla</i> <i>Maderaspatensis</i>	White Browded Wagtail	
136	<i>Motacilla Alba</i>	White Wagtail	Banjan
137	<i>Motacilla Flava</i>	Yellow Wagtail	
138	<i>Motacilla Citreola</i>	Citrine Wagtail	
	Dicaeidae		
139	<i>Dicaeum Ignipectus</i>	Fire Breasted Flowerpeker	Phool Dubaki
140	<i>Dicaeum Erythrorynchas</i>	Pale Billed Flowerpeker	
	Nectariniidae		
141	<i>Aethopyga Nipalensis</i>	Green Tailed Sunbird	Nepal Sigirika
142	<i>Aethopyga Gouldiae</i>	Mr. Goulds Sunbird	
143	<i>Aethopyga Ignicauda</i>	Fire Tailed Sunbird	Shakarkhora
	Ploceidae (Sub-Family) Passerinae		
144	<i>Passer Montanus</i>	Eurasian Tree Sparrow	Jungli Gauriya
145	<i>Passer Domsticus</i>	House Sparrow	Gauriya/Chidiya
146	<i>Passer Rutilanis</i>	Russet Sparrow	Churya
	Fringillidae (Sub-Family) Carduelinae		
147	<i>Serinus Pusillus</i>	Fire Fronted Serin	
148	<i>Cardueles Spinoides</i>	Yellow Breasted	





			Green Finch	
149	<i>Cardueles Erythrinus</i>		Common Rose Finch	
150	<i>Cardueles Nipalensis</i>		Dark Breasted Rose Finch	
151	<i>Cardueles Rodochrous</i>		Pink Browded Rose Finch	
152	<i>Cardueles Carduelis</i>		European Gold Finch	
153	<i>Leucosticte Nemoricola</i>		Plain Mountain Finch	
154	<i>Carpodacus Thura</i>		White Browded Rosefinch	
C	Reptiles			
	Squamata Sub-Order			
	Serpentes			
	Boidae			
1		<i>Python Molurus</i>	Indian Python	Ajgar
	Elapidae			
2		<i>Naja Naja</i>	Indian Cobra	Kohiala/Nag
3		<i>Naja Hunnah</i>	King Cobra	Nag
4		<i>Anustrodon Himalayanus</i>	Himalayan Pit Viper	Bhura Shanp

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