

## Bird diversity of Upper Mustang, Nepal

By: Raju Acharya (Sharma)  
B.Sc. Student , schEMS, Nepal  
rajuhugu\_13@yahoo.com

### **Summary:**

Total 96 species have been recorded from the 14<sup>th</sup> August to 7<sup>th</sup> September 2002. The annotated checklist suggests the occurrence of 533 species in the ACAP (Suwal, 2000) and 211 species within the upper mustang jurisdiction (Suwal, 2002). Total duration of the field was 24 days. In an average 22.9 bird species were observed in a day. There were only four species observed as passage migrants and two vagrant species. The vagrant species found in Upper Mustang were Scaly Breasted Munia at Samjung (3978m.) and house crow at Chuksang (2961m.). And the vagrant species seen in last year was Brahminy Myna (Shah, 2001) at Lomanthang (3840m.). The most common species found in Upper Mustang is the big soaring bird the Himalayan Griffon. The highest number seen in 110 in carcass near the Chungjung village. There are 13 CITES listed species occurring in Upper Mustang, four species in Appendix 1, five in Appendix 11, four in Appendix 111 (Chapagai and Dhakal, 2002).

### **Objectives:**

Bird study was the part of overall Bio-diversity survey: This survey was the part of the program under the Upper Mustang Biodiversity conservation Project (UMBCP) (Nep/99/G, GEF, Nep/99/021 Track/UNDP) executed by King Mahendra Trust for Nature Conservation / Annapurna Conservation Area Project. The objectives of Bird study in Upper Mustang,

- To study bird species richness of Upper Mustang during summer season.
- To determine the bird species that could be used as a key stone species to monitor the environment of Upper Mustang.
- To identify the threatened bird communities residing in Upper Mustang.
- To find out the hot spots for bird conservation in Upper Mustang.
- To know the bird conservation issues in Upper Mustang.
- To promote bird watching tourism in Upper Mustang.

### **Description of the area:**

Upper Mustang with an area of 2667 Sq.km. covers the northern half of mustang district (Ale.eds.2002). Annapurna conservation Area (ACA) was gazetted in B.S.2049 and covered 56 Village Development Committee (VDC) from 5 district. Upper Mustang is the destination where control tourism has been introducing due to its unique character. Upper Mustang is the northern part of Mustang district extended up to the Tibet autonomous region of China and ultimately up to the Europe. It consists of 7 VDC containing 33 Buddhist settlements with 5694 populations. On the basis of topographical features, bioclimatic condition & floristic composition, the ACA has been divided into 7 Phyto-geographical region (KMTNC /BCDP, 1994). The Upper Mustang Area (i.e. Upper Kaligandaki valley) belongs to the arid, trans-Himalayan zone. The area is known as extremely rich in flora and fauna due to steppe habitat. Trans-Himalayan zone receives an average rainfall of 132m.m. per annum (average of 1988-1992 in Jomsom). This area is drainage by Kaligandaki River containing numerous tributaries. The people of Upper Mustang

practice a combination of livestock farming, agriculture and winter trade. This unique marginal land lies between the east and west Himalayan; Tibetan Plateau and Himalayan range.

### Significant habitat of the area:

Area is least study area in terms of ornithology. Each study is adding a new species for Mustang, ACAP as well as for the Nepal. Bird diversity & population is governed by availability of food, cover, habitat condition, & local tradition. Habitat condition also indicates the health-ness of an ecosystem. Habitat characteristics of the area provided by the KMTNC/ BCDP (1994) and finding of present survey; the available habitat of the area are as follows. *Betula utilis* forest habitat, *Populus ciliata* strands habitat, Dry alpine shrub/bush habitat, Alpine meadow and other (Agriculture land, Human settlement, aquatic bodies (river & ponds), cliff & cave etc.) are the exiting habitat in the area. Survey covered the 2800 to 5500 meter elevation in different parts.

### Management constraints:

Large wooden pillars of Monastery built in Lomanthang & surrounding area suggest the existing of the small patches of Coniferous forest in Upper Mustang. The loss of forest cover in the region began from 1959 when Tibetan Khamba based their resistance movement in this region. In the absence of alternative fuel wood local inhabitants also accelerate the rate of destruction of forest. Huge amount of livestock leads to overgrazing of high mountain pasture around village. Traditional hunting system (on game bird like Chhukar partridge and other like Snow Pigeon in the winter season), lower awareness level, tourism incensement, glacier outlet burst (GOLF) in 1940s are some factor playing the destruction for habitat of the birds. Loss of vegetation cover, poaching of birds through non-native schoolteachers, unsustainable livestock husbandry, threats of transfer & poisoning, climatic factor are the major management constraints for the bird conservation. Annapurna Conservation Area Project, Upper Mustang Conservation & Development Project of King Mahendra Trust For Nature Conservation in actively working with local inhabitants for the betterment of overall ecosystem of Upper Mustang.

### Methodology:

- Local trails were followed for significant bird habitat and existing literature referred for species occurrence information; Site was visited on foot. Identification of Birds was made possible with the help of Nikon Binocular 8\*40 & Bushnell Telescope 22\*W.A. mm zoom. Bird observation route were planned according to trail, elevation, catchments, vegetation type; they were Kagbeni to Sammer-Ghemi-Tsring-Lomanthang-Chosyar and Panga-Lomanthang- Chojung and back. A book on the birds of the Indian Sub-Continent (Grimmet et al) and Birds of Nepal (Flemming, L and R). These transect route is drawn with the help of GPS. These transect if followed in the same time of the year could make a base for monitoring the key stone bird communities.
- Nesting location of birds of prey is confirmed by GPS. The nesting status will be a key feature for monitoring the birds in the future.
- Nikon 10x40 Binoculars and a 15x 20 Bushnell telescope were used to identify the birds.
- Bird identification reference is made with the help of Grimmett et. al., 2000. Birds of Nepal, Helm Field Guides

### **Ethno ornithological prospects:**

People still believe and widely practiced a dead Lammergeier corpse and intestine are used as an effective medicine for diarrhea treatment. After hanging the head of Golden eagles on the main door it is believed that evil is unable to reach inside the home. Feather of Black Kite and Owl is used in special ceremony of praying with god before people moves towards the winter trade. There is a significant relationship between the social culture and vulture in Upper Mustang. Himalayan Griffon (*Gyps himalayensis*), Eurasian Griffon (*Gyps fulvus*), Golden Eagle (*Aquila chrysaetos*) and Lammergeier (*Gypaetus barbatus*) took part in such ritual performance.

When a local person die, The Lama, who is the only the special cultural leader and the respected person of the area decides how to carry out funerals- rites. A few specific caste like Bista usually burn the dead body but the major cast of the area that is Mustangi Gurung which constitutes more than 90% population chop down the dead body in many piece and offered to vulture. Lama calls the vulture by praying and blowing his trumpet. If vultures do not visit the corpse it is believed that the person had committed some sorts of sin during his lifetime. When the vulture finished entire corpse by eating them it is said that they take bath in river before fly away. Same tradition can also be seen in the working caste like Biswokarma. Such tradition funeral-rites are prohibited in agricultural harvesting season but the body is cut into many pieces and thrown into a river. Thus instead of birds of prey the dead body is offered to aquatic life like fishes and insects. There for vulture keep the local environment neat and clean. It is also believed that vulture also take the soul of that person in the heaven.

This ritual has been practiced here since time immemorial. The vulture still remains a little studied bird throughout its distribution range in Nepal. Questions like the number of vulture taking part in such rituals, same or different number of vulture feeding on corpse of male and female, their species diversity, effect on local culture due to their decrease population, the future scenario if the birds are totally exterminated from the area etc to be answered by doing the detail study of the species in the area.

### **Result:**

The annotated checklist suggest the 211 bird species in the area which is based on the Survey done by Hari Sharan Nepali (1977,1978), Karan Bahadur Shah (2001), Rajendra Suwal (2002) and literature (Inskipp, 1999) in different time period. Total 96 species were observed during the field survey. Black Breasted Munia and House Crow was first recorded in such kind of Altitude. Majority of bird observed during the survey period were breeding resident 61.5% followed by summer visitor 32.4 % for breeding. There were only 4 species observed as passage migrants. Hot spot for birding in the area are Samar-Syangboche (3800m. -4000m.), Chungsi (3300m. -4000m.), Ghemi-Panga (4500m. -5000m.), Ithiphule -Chojung, (4300m. -5000m.). Nesting site of Griffon were identify except the Surkhang Village Development Committee and Damodar Kunda area. The annotated bird checklist suggests that nearly 48% of the birds of upper Mustang are breeding resident followed by summer visitor (close to 38%) for breeding. Upper Mustang is an important place for nesting activity for the summer visitor (Suwal, 2002). Peoples are closely associated with birds in terms of their culture.

# Upper Mustang Bird Survey Route 2002



Source:UMBCP 2002

## Appendix

### Detail of the Bird nest sighting

S N	Name of Birds	18 <sup>th</sup> May- 8 <sup>th</sup> June, 2001	14 <sup>th</sup> Aug.- 7 <sup>th</sup> Sep. 2002	Nesting site	Locality	Altitude (m)	Egg / Nestling
1	Rufous Turtle Dove	✓		Salix tree	Tsarang	3435	2 eggs
2	Hoopoe	✓	✓	Hole in Gonpa	Tsarang	3500	Unknown
3	Black Redstar	✓		Large boulder	Tsarang	3450	Unknown
4	Desert Wheatear	✓		Mud hole	Tsarang	3600	2 nestling
5	Grey Back Shrike	✓		Salix tree	Namasung	3740	2 nestling
6	Ruddy Shelduck	✓		Pond edge	Dhuk	2780	2 Chicken(5 -10 days)
7	Lammergeier	✓		Cliff edge	Chhojung	4750	1 egg, 1 nestling
8	Himalayan Griffon	✓	✓	Cave	Ghemi	3500	Unknown
9	Black Kite	✓	✓ (8 site)	Populus tree	Tsarang, around village	3435	Unknown
10	Plain Martin	✓		Cliff	Tsaile	2900	Unknown
11	Horned Lark	✓		Plain ground	Chhojung	4750	-
12	Robin Accentor	✓		Caragana bush	Chhojung	5000	3 egg
13	Humes Ground Paker	-	✓	Mud tanel	Ithiphule	4500	One adult
14	Hill Pigeon	-	✓	Rock, cave	Chosyar, comfort valley	3500	
15	Rock pgeion		✓	Rock, cave	Ithiphule	4300	Colony
16	Eurasion Crag Martin	-	✓	cave	Ghemi	3700	
17	Little owlet	-	✓	Dhiplung	Chojung	5000	One adult
18	Russet sparrow	-	✓	Old palace	Lomanthang, Thingar	3840,3900	
19	Eurasion Tree sparrow	✓	✓	Each settlement	Each village	-	-
20	Golden eagle		✓	Ghiling	Near village	3650	To be confirmed

### CITES listed bird species found in Upper Mustang

Common name	Scientific name	Status	CITES
TIBETAN SNOWCOCK	<i>Tetraogallus tibetanus</i>	BR(Breeding resident)	I
HIMALAYAN MONAL	<i>Lophophorus impejanus</i>	BR	I
CHEER PHEASANT	<i>Catreus wallichii</i>	BR	I
BLACK-NECKED CRANE	<i>Grus nigricollis</i>	WV(winter visitor)	I

Common name	Scientific name	Status	CITES
BLOOD PHEASANT	<i>Ithaginis cruentus</i>	BR	II
DEMOISELLE CRANE	<i>Grus virgo</i>	PV(Passage migrants)	II
COMMON BUZZARD	<i>Buteo buteo</i>	SV(summer visitor)	II
UPLAND BUZZARD	<i>Buteo hemilasius</i>	SV	II
GOLDEN EAGLE	<i>Aquila chrysaetos</i>	BR	II
NORTHERN SHOVELER	<i>Anas clypeata</i>	PV	III
NORTHERN PINTAIL	<i>Anas acuta</i>	PV	III
GARGANEY	<i>Anas querquedula</i>	PV	III
ROCK PIGEON	<i>Columba livia</i>	BR	III

Source: Chapagain and Dhakal 2002

### Appendix I Upper Mustang annotated bird checklist 2002

Common name	Scientific name	Kazi 77	Kazi 78	Inskipp' 99	Shah '01	Suwal '02	Status	BLI	C
SNOW PARTRIDGE	<i>Lerwa lerwa</i>			<input type="checkbox"/>			BR		
TIBETAN SNOWCOCK	<i>Tetraogallus tibetanus</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BR		I
HIMALAYAN SNOWCOCK	<i>Tetraogallus himalayensis</i>			<input type="checkbox"/>			BR		
CHUKAR	<i>Alectoris chukar</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BR		
TIBETAN PARTRIDGE	<i>Perdix hodgsoniae</i>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BR		
HILL PARTRIDGE	<i>Arborophila torqueola</i>			<input type="checkbox"/>			BR		
BLOOD PHEASANT	<i>Ithaginis cruentus</i>			<input type="checkbox"/>			BR		II
SATYR TRAGOPAN	<i>Tragopan satyra</i>			<input type="checkbox"/>			BR		
HIMALAYAN MONAL	<i>Lophophorus impejanus</i>			<input type="checkbox"/>			BR		I
CHEER PHEASANT	<i>Catreus wallichii</i>			<input type="checkbox"/>			BR	GT	I
RUDDY SHELDUCK	<i>Tadorna ferruginea</i>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		SV		
GADWALL	<i>Anas strepera</i>	<input type="checkbox"/>		<input type="checkbox"/>			PV		
BAIKAL TEAL	<i>Anas formosa</i>			<input type="checkbox"/>			IR		
MALLARD	<i>Anas platyrhynchos</i>			<input type="checkbox"/>			PV		
NORTHERN SHOVELER	<i>Anas clypeata</i>			<input type="checkbox"/>			PV		III
NORTHERN PINTAIL	<i>Anas acuta</i>	<input type="checkbox"/>					PV		III
GARGANEY	<i>Anas querquedula</i>	<input type="checkbox"/>		<input type="checkbox"/>			PV		III
CRIMSON-BREASTED WOODPECKER	<i>Dendrocopos cathpharius</i>			<input type="checkbox"/>			BR		
DARJEELING WOODPECKER	<i>Dendrocopos darjellensis</i>			<input type="checkbox"/>			BR		
SCALY-BELLIED WOODPECKER	<i>Picus squamatus</i>	<input type="checkbox"/>		<input type="checkbox"/>			BR		
COMMON HOOPOE	<i>Upupa epops</i>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SV		
COMMON KINGFISHER	<i>Alcedo atthis</i>					<input type="checkbox"/>	IR		
WHITE-THROATED KINGFISHER	<i>Halcyon smyrnensis</i>	<input type="checkbox"/>					IR		
EURASIAN CUCKOO	<i>Cuculus canorus</i>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SV		

Common name	Scientific name	Kazi 77	Kazi 78	Inskipp' 99	Shah '01	Suwal '02	Status	BLI	CI
COMMON SWIFT	<i>Apus apus</i>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SV		
FORK-TAILED SWIFT	<i>Apus pacificus</i>			<input type="checkbox"/>		<input type="checkbox"/>	SV		
HOUSE SWIFT	<i>Apus affinis</i>			<input type="checkbox"/>		<input type="checkbox"/>	SV		
TAWNY OWL	<i>Strix aluco</i>	<input type="checkbox"/>		<input type="checkbox"/>			BR		
LITTLE OWL	<i>Athene noctua</i>		<input type="checkbox"/>			<input type="checkbox"/>	BR		
ROCK PIGEON	<i>Columba livia</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BR		III
HILL PIGEON	<i>Columba rupestris</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BR		
SNOW PIGEON	<i>Columba leuconota</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BR		
SPECKLED WOOD PIGEON	<i>Columba hodgsonii</i>			<input type="checkbox"/>			BR		
ASHY WOOD PIGEON	<i>Columba pulchricollis</i>			<input type="checkbox"/>			BR		
ORIENTAL TURTLE DOVE	<i>Streptopelia orientalis</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SV		
SPOTTED DOVE	<i>Streptopelia chinensis.</i>					<input type="checkbox"/>	SV		
DEMOISELLE CRANE	<i>Grus virgo</i>			<input type="checkbox"/>			PV		II
COMMON CRANE	<i>Grus grus</i>			<input type="checkbox"/>			PV		
BLACK-NECKED CRANE	<i>Grus nigricollis</i>						WV?	GT	I
TIBETAN SANDGROUSE	<i>Syrrhaptes paradoxus</i>				<input type="checkbox"/>		IR		
EURASIAN WOODCOCK	<i>Scolopax rusticola</i>			<input type="checkbox"/>			SV		
PINTAIL SNIPE	<i>Gallinago stenura</i>					<input type="checkbox"/>	SV		
GREEN SANDPIPER	<i>Tringa ochropus</i>	<input type="checkbox"/>				<input type="checkbox"/>	PV		
COMMON SANDPIPER	<i>Actitis hypoleucos</i>					<input type="checkbox"/>	PV		
IBISBILL	<i>Ibidorhyncha struthersii</i>	<input type="checkbox"/>				<input type="checkbox"/>	SV		
BLACK KITE	<i>Milvus migrans</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BR		
LAMMERGEIER	<i>Gypaetus barbatus</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BR		
WHITE-RUMPED VULTURE	<i>Gyps bengalensis</i>	<input type="checkbox"/>					IR	GT	
HIMALAYAN GRIFFON	<i>Gyps himalayensis</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BR		
EURASIAN GRIFFON	<i>Gyps fulvus</i>				<input type="checkbox"/>	<input type="checkbox"/>	BR		
HEN HARRIER	<i>Circus cyaneus</i>			<input type="checkbox"/>	<input type="checkbox"/>		PV		
NORTHERN GOSHAWK	<i>Accipiter gentilis</i>	<input type="checkbox"/>		<input type="checkbox"/>			BR		
EURASIAN SPARROW- HAWK	<i>Accipiter nisus</i>			<input type="checkbox"/>		<input type="checkbox"/>	BR		
COMMON BUZZARD	<i>Buteo buteo</i>			<input type="checkbox"/>		<input type="checkbox"/>	SV		II
UPLAND BUZZARD	<i>Buteo hemilasius</i>		<input type="checkbox"/>				SV		II
BLACK EAGLE	<i>Ictinaetus malayensis</i>	<input type="checkbox"/>					BR		
GOLDEN EAGLE	<i>Aquila chrysaetos</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	BR		II
BOOTED EAGLE	<i>Hieraetus pennatus</i>					<input type="checkbox"/>	BR		
COMMON KESTREL	<i>Falco tinnunculus</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BR		
AMUR FALCON	<i>Falco amurensis</i>			<input type="checkbox"/>			IR		
MERLIN	<i>Falco columbarius</i>	<input type="checkbox"/>					IR?		
EURASIAN HOBBY	<i>Falco subbuteo</i>	<input type="checkbox"/>				<input type="checkbox"/>	BR		
INDIAN POND HERON	<i>Ardeola grayii</i>	<input type="checkbox"/>					IR		
LONG-TAILED SHRIKE	<i>Lanius schach</i>					<input type="checkbox"/>	SV		

Common name	Scientific name	Kazi 77	Kazi 78	Inskipp' 99	Shah '01	Suwal '02	Status	BLI	C]
GREY-BACKED SHRIKE	<i>Lanius tephronotus</i>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	SV		
YELLOW-BILLED BLUE MAGPIE	<i>Urocissa flavirostris</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			BR		
HUME'S GROUNDPECKER	<i>Pseudopodoces humilis</i>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	BR		
SPOTTED NUTCRACKER	<i>Nucifraga caryocatactes</i>			<input type="checkbox"/>			BR		
RED-BILLED CHOUGH	<i>Pyrhacorax pyrrhacorax</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BR		
YELLOW-BILLED CHOUGH	<i>Pyrhacorax graculus</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BR		
HOUSE CROW	<i>Corvus splendens</i>					<input type="checkbox"/>	BR		
LARGE-BILLED CROW	<i>Corvus macrorhynchos</i>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BR		
COMMON RAVEN	<i>Corvus corax</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BR		
YELLOW-BELLIED FANTAIL	<i>Rhipidura hypoxantha</i>			<input type="checkbox"/>			SV		
ASHY DRONGO	<i>Dicrurus leucophaeus</i>			<input type="checkbox"/>			SV		
WHITE-THROATED DIPPER	<i>Cinclus cinclus</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BR		
BROWN DIPPER	<i>Cinclus pallasii</i>			<input type="checkbox"/>		<input type="checkbox"/>	BR		
BLUE ROCK THRUSH	<i>Monticola solitarius</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SV		
BLUE WHISTLING THRUSH	<i>Myophonus caeruleus</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BR		
PLAIN-BACKED THRUSH	<i>Zoothera mollissima</i>			<input type="checkbox"/>			SV		
SCALY THRUSH	<i>Zoothera dauma</i>			<input type="checkbox"/>			SV		
WHITE-COLLARED BLACKBIRD	<i>Turdus albocinctus</i>			<input type="checkbox"/>			BR		
DARK-THROATED THRUSH	<i>Turdus ruficollis</i>			<input type="checkbox"/>			SV		
DUSKY THRUSH	<i>Turdus naumanni</i>			<input type="checkbox"/>			IR		
MISTLE THRUSH	<i>Turdus viscivorus</i>			<input type="checkbox"/>			SV		
DARK-SIDED FLYCATCHER	<i>Muscicapa sibirica</i>			<input type="checkbox"/>			SV		
RUSTY-TAILED FLYCATCHER	<i>Muscicapa ruficauda</i>				<input type="checkbox"/>		SV		
RUFOUS-GORGETED FLYCATCHER	<i>Ficedula strophliata</i>			<input type="checkbox"/>			SV		
ULTRAMARINE FLYCATCHER	<i>Ficedula superciliaris</i>			<input type="checkbox"/>			SV		
SLATY-BLUE FLYCATCHER	<i>Ficedula tricolor</i>			<input type="checkbox"/>	<input type="checkbox"/>		SV		
VERDITER FLYCATCHER	<i>Eumyias thalassina</i>			<input type="checkbox"/>			SV		
RUFOUS-BELLIED NILTAVA	<i>Niltava sundara</i>			<input type="checkbox"/>			SV		
GREY-HEADED CANARY FLYCATCHER	<i>Culicicapa ceylonensis</i>			<input type="checkbox"/>			SV		



Common name	Scientific name	Kazi 77	Kazi 78	Inskipp' 99	Shah '01	Suwal '02	Status	BLI	CI
WHITE-TAILED RUBYTHROAT	<i>Luscinia pectoralis</i>		<input type="checkbox"/>	<input type="checkbox"/>			SV		
INDIAN BLUE ROBIN	<i>Luscinia brunnea</i>			<input type="checkbox"/>			SV		
ORANGE-FLANKED BUSH ROBIN	<i>Tarsiger cyanurus</i>			<input type="checkbox"/>			SV		
GOLDEN BUSH ROBIN	<i>Tarsiger chrysaeus</i>			<input type="checkbox"/>			SV		
RUFOUS-BACKED REDSTART	<i>Phoenicurus erythronota</i>			<input type="checkbox"/>			SV		
BLUE-CAPPED REDSTART	<i>Phoenicurus coeruleocephalus</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			SV		
BLACK REDSTART	<i>Phoenicurus ochruros</i>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SV		
WHITE-THROATED REDSTART	<i>Phoenicurus schisticeps</i>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BR		
WHITE-WINGED REDSTART	<i>Phoenicurus erythrogaster</i>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	BR		
BLUE-FRONTED REDSTART	<i>Phoenicurus frontalis</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SV		
WHITE-CAPPED WATER REDSTART	<i>Chaimarrornis leucocephalus</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SV		
PLUMBEOUS WATER REDSTART	<i>Rhyacornis fuliginosus</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	SV		
WHITE-BELLIED REDSTART	<i>Hodgsonius phaenicuroides</i>			<input type="checkbox"/>		<input type="checkbox"/>	SV		
GRANDALA	<i>Grandala coelicolor</i>		<input type="checkbox"/>	<input type="checkbox"/>			BR		
LITTLE FORKTAIL	<i>Enicurus scouleri</i>	<input type="checkbox"/>		<input type="checkbox"/>			BR		
SPOTTED FORKTAIL	<i>Enicurus maculatus</i>			<input type="checkbox"/>			BR		
COMMON STONECHAT	<i>Saxicola torquata</i>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SV		
GREY BUSHCHAT	<i>Saxicola ferrea</i>			<input type="checkbox"/>			SV		
DESERT WHEATEAR	<i>Oenanthe deserti</i>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	SV		
ISABELLINE WHEATEAR	<i>Oenanthe isabellina</i>			<input type="checkbox"/>		<input type="checkbox"/>	BR		
BRAHMINY STARLING	<i>Sturnus pagodarum</i>	<input type="checkbox"/>			<input type="checkbox"/>		IR		
WHITE-TAILED NUTHATCH	<i>Sitta himalayensis</i>			<input type="checkbox"/>			BR		
WALLCREEPER	<i>Tichodroma muraria</i>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SV		
BROWN-THROATED TREECREEPER	<i>Certhia discolor</i>			<input type="checkbox"/>			BR		
WINTER WREN	<i>Troglodytes troglodytes</i>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	BR		
RUFOUS-NAPED TIT	<i>Parus rufonuchalis</i>			<input type="checkbox"/>			BR		
RUFOUS-VENTED TIT	<i>Parus rubidiventris</i>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	BR		
SPOT-WINGED TIT	<i>Parus melanolophus</i>						BR		
COAL TIT	<i>Parus ater</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	BR		
GREY-CRESTED TIT	<i>Parus dichrous</i>			<input type="checkbox"/>			BR		
GREEN-BACKED TIT	<i>Parus monticolus</i>			<input type="checkbox"/>			SV		
BLACK-THROATED TIT	<i>Aegithalos concinnus</i>			<input type="checkbox"/>			BR		

Common name	Scientific name	Kazi 77	Kazi 78	Inskipp' 99	Shah '01	Suwal '02	Status	BLI	C1
RUFOUS-FRONTED TIT	<i>Aegithalos iouschistos</i>			<input type="checkbox"/>			BR		
SAND MARTIN	<i>Riparia riparia</i>	<input type="checkbox"/>					SV		
PLAIN MARTIN	<i>Riparia paludicola</i>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	SV		
EURASIAN CRAG MARTIN	<i>Hirundo rupestris</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BR		
BARN SWALLOW	<i>Hirundo rustica</i>		<input type="checkbox"/>			<input type="checkbox"/>	SV		
NORTHERN HOUSE MARTIN	<i>Delichon urbica</i>	<input type="checkbox"/>				<input type="checkbox"/>	SV		
ASIAN HOUSE MARTIN	<i>Delichon dasypus</i>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BR		
NEPAL HOUSE MARTIN	<i>Delichon nipalensis</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BR		
GOLDCREST	<i>Regulus regulus</i>	<input type="checkbox"/>		<input type="checkbox"/>			BR		
STRIATED PRINIA	<i>Prinia criniger</i>			<input type="checkbox"/>			BR		
GREY-SIDED BUSH WARBLER	<i>Cettia brunnifrons</i>	<input type="checkbox"/>		<input type="checkbox"/>			SV		
WHITE-BROWED TIT WARBLER	<i>Leptopoecile sophiae</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	BR		
TICKELL'S LEAF WARBLER	<i>Phylloscopus affinis</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SV		
BUFF-BARRED WARBLER	<i>Phylloscopus pulcher</i>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	SV		
ASHY-THROATED WARBLER	<i>Phylloscopus maculipennis</i>			<input type="checkbox"/>			SV		
LEMON-RUMPED WARBLER	<i>Phylloscopus chloronotus</i>			<input type="checkbox"/>			SV		
HUME'S WARBLER	<i>Phylloscopus humei</i>			<input type="checkbox"/>			SV		
YELLOW-BROWED WARBLER	<i>Phylloscopus inornatus</i>		<input type="checkbox"/>	<input type="checkbox"/>			IR		
GREENISH WARBLER	<i>Phylloscopus trochiloides</i>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SV		
BLYTH'S LEAF WARBLER	<i>Phylloscopus reguloides</i>			<input type="checkbox"/>			SV		
GOLDEN-SPECTACLED WARBLER	<i>Seicercus burkii</i>			<input type="checkbox"/>			SV		
GREY-HOODED WARBLER	<i>Seicercus xanthoschistos</i>			<input type="checkbox"/>			SV		
BLACK-FACED WARBLER	<i>Abroscopus schisticeps</i>			<input type="checkbox"/>			SV		
WHITE-THROATED LAUGHINGTHRUSH	<i>Garrulax albogularis</i>			<input type="checkbox"/>			BR		
STRIATED LAUGHINGTHRUSH	<i>Garrulax striatus</i>					<input type="checkbox"/>	BR		
SPOTTED LAUGHINGTHRUSH	<i>Garrulax ocellatus</i>			<input type="checkbox"/>			BR		
VARIEGATED LAUGHINGTHRUSH	<i>Garrulax variegatus</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	BR		
BLACK-FACED	<i>Garrulax affinis</i>			<input type="checkbox"/>			BR		

Common name	Scientific name	Kazi 77	Kazi 78	Inskipp' 99	Shah '01	Suwal '02	Status	BLI	CI
LAUGHINGTHRUSH									
CHESTNUT-CROWNED LAUGHINGTHRUSH	<i>Garrulax erythrocephalus</i>	<input type="checkbox"/>		<input type="checkbox"/>			BR		
SCALY-BREASTED WREN BABBLER	<i>Pnoepyga albiventer</i>	<input type="checkbox"/>					SV		
STRIPE-THROATED YUHINA	<i>Yuhina gularis</i>						BR		
BLACK-THROATED PARROTBILL	<i>Paradoxornis nipalensis</i>						BR		
GREATER SHORT-TOED LARK	<i>Calandrella brachydactyla</i>			<input type="checkbox"/>			SV		
HUME'S SHORT-TOED LARK	<i>Calandrella acutirostris</i>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SV		
ORIENTAL SKYLARK	<i>Alauda gulgula</i>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	SV		
HORNED LARK	<i>Eremophila alpestris</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BR		
FIRE-BREASTED FLOWERPECKER	<i>Dicaeum ignipectus</i>			<input type="checkbox"/>			SV		
RUSSET SPARROW	<i>Passer rutilans</i>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BR		
EURASIAN TREE SPARROW	<i>Passer montanus</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BR		
TIBETAN SNOWFINCH	<i>Montifringilla adamsi</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BR		
WHITE-RUMPED SNOWFINCH	<i>Pyrgilauda taczanowskii</i>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		IR		
RUFOUS-NECKED SNOWFINCH	<i>Pyrgilauda ruficollis</i>	<input type="checkbox"/>		<input type="checkbox"/>			IR		
PLAIN-BACKED SNOWFINCH	<i>Pyrgilauda blanfordi</i>	<input type="checkbox"/>		<input type="checkbox"/>			IR		
WHITE WAGTAIL	<i>Motacilla alba</i>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SV		
GREY WAGTAIL	<i>Motacilla cinerea</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SV		
PADDYFIELD PIPIT	<i>Anthus rufulus</i>					<input type="checkbox"/>	SV?		
BLYTH'S PIPIT	<i>Anthus godlewskii</i>					<input type="checkbox"/>	SV?		
OLIVE-BACKED PIPIT	<i>Anthus hodgsoni</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SV		
ROSY PIPIT	<i>Anthus roseatus</i>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	SV		
ALPINE ACCENTOR	<i>Prunella collaris</i>			<input type="checkbox"/>		<input type="checkbox"/>	BR		
ALTAI ACCENTOR	<i>Prunella himalayana</i>	<input type="checkbox"/>		<input type="checkbox"/>			BR		
ROBIN ACCENTOR	<i>Prunella rubeculoides</i>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BR		
RUFOUS-BREASTED ACCENTOR	<i>Prunella strophiatea</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	BR		
BROWN ACCENTOR	<i>Prunella fulvescens</i>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BR		
SCALY-BREASTED MUNIA	<i>Lonchura punctulata</i>					<input type="checkbox"/>	SV		
CHAFFINCH	<i>Fringilla coelebs</i>	<input type="checkbox"/>		<input type="checkbox"/>			IR		
BRAMBLING	<i>Fringilla montifringilla</i>			<input type="checkbox"/>			IR		
FIRE-FRONTED SERIN	<i>Serinus pusillus</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BR		

Common name	Scientific name	Kazi 77	Kazi 78	Inskipp' 99	Shah '01	Suwal '02	Status	BLI	C
TIBETAN SISKIN	<i>Carduelis thibetana</i>	<input type="checkbox"/>					IR?		
YELLOW-BREASTED GREENFINCH	<i>Carduelis spinoides</i>			<input type="checkbox"/>			SV		
EUROPEAN GOLDFINCH	<i>Carduelis carduelis</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BR		
TWITE	<i>Carduelis flavirostris</i>	<input type="checkbox"/>		<input type="checkbox"/>			BR		
PLAIN MOUNTAIN FINCH	<i>Leucosticte nemoricola</i>			<input type="checkbox"/>		<input type="checkbox"/>	BR		
BRANDT'S MOUNTAIN FINCH	<i>Leucosticte brandti</i>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BR		
SPECTACLED FINCH	<i>Callacanthus burtoni</i>			<input type="checkbox"/>			IR		
DARK-BREASTED ROSEFINCH	<i>Carpodacus nipalensis</i>	<input type="checkbox"/>				<input type="checkbox"/>	SV		
COMMON ROSEFINCH	<i>Carpodacus erythrurus</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SV		
BEAUTIFUL ROSEFINCH	<i>Carpodacus pulcherrimus</i>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SV		
PINK-BROWED ROSEFINCH	<i>Carpodacus rodochrous</i>			<input type="checkbox"/>			SV		
VINACEOUS ROSEFINCH	<i>Carpodacus vinaceus</i>			<input type="checkbox"/>			IR		
DARK-RUMPED ROSEFINCH	<i>Carpodacus edwardsii</i>					<input type="checkbox"/>	IR?		
SPOT-WINGED ROSEFINCH	<i>Carpodacus rodopeplus</i>			<input type="checkbox"/>			BR		
WHITE-BROWED ROSEFINCH	<i>Carpodacus thura</i>			<input type="checkbox"/>			BR		
STREAKED ROSEFINCH	<i>Carpodacus rubicilloides</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BR		
GREAT ROSEFINCH	<i>Carpodacus rubicilla</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BR		
RED-FRONTED ROSEFINCH	<i>Carpodacus puniceus</i>			<input type="checkbox"/>			BR		
CRIMSON-BROWED FINCH	<i>Propyrrhula subhimachala</i>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		BR		
SCARLET FINCH	<i>Haematospiza sipahi</i>			<input type="checkbox"/>			BR		
RED CROSSBILL	<i>Loxia curvirostra</i>			<input type="checkbox"/>			BR		
RED-HEADED BULLFINCH	<i>Pyrrhula erythrocephala</i>			<input type="checkbox"/>			BR		
COLLARED GROSBEAK	<i>Mycerobas affinis</i>			<input type="checkbox"/>			BR		
WHITE-WINGED GROSBEAK	<i>Mycerobas carnipes</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BR		
PINE BUNTING	<i>Emberiza leucocephalos</i>			<input type="checkbox"/>			SV		
ROCK BUNTING	<i>Emberiza cia</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BR		
CHESTNUT-EARED BUNTING	<i>Emberiza fucata</i>			<input type="checkbox"/>			BR		
LITTLE BUNTING	<i>Emberiza pusilla</i>			<input type="checkbox"/>			SV		
<b>TOTAL</b>		<b>94</b>	<b>51</b>	<b>170</b>	<b>64</b>	<b>96</b>	<b>211</b>	<b>3</b>	

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