**Electronic Supplementary Material 1:** List of resident birds’ species recorded in 16 study sites in Swat Khyber Pakhtunkhwa, Pakistan

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| --- | --- | --- | --- | --- |
| **Order** | **Family** | **Scientific name** | **Status** | **IUCN Category** |
| Ciconiiformes | Ardeidae | *Ardea modesta* | R (r) | LC |
| Ciconiiformes | Ardeidae | *Ixobrychus flvicollis* | R (r) | LC |
| Ciconiiformes | Ardeidae | *Nycticorax nycticorax* | R (r) | LC |
| Ciconiiformes | Ardeidae | *Ardea cinerea* | R (r) | LC |
| Ciconiiformes | Ardeidae | *Ardea goliath* | R (r) | LC |
| Ciconiiformes | Ardeidae | *Ardea purpurea* | R (r) | LC |
| Ciconiiformes | Ardeidae | *Egretta intermedia* | R (r) | LC |
| Ciconiiformes | Ardeidae | *Egretta gularis* | R (r) | LC |
| Ciconiiformes | Ardeidae | *Egretta garzetta* | R (r) | LC |
| Ciconiiformes | Ardeidae | *Ardeola grayii* | R (r) | LC |
| Ciconiiformes | Ardeidae | *Bubulcus ibis* | R (r) | LC |
| Ciconiiformes | Ardeidae | *Butorides striata* | R (r) | LC |
| Ciconiiformes | Ardeidae | *Ixobrychus minutus* | R (r) | LC |
| Ciconiiformes | Ardeidae | *Ixobrychus cinnamomeus* | R (r) | LC |
| Ciconiiformes | Ciconiidae | *Ciconia nigra* | R (C) | LC |
| Ciconiiformes | Ciconiidae | *Ephippiorhynchus asiaticus* | R (C) | NT |
| Ciconiiformes | Ciconiidae | *Ciconia ciconia* | R (C) | LC |
| Columbiformes | Columbidae | *Chalcophaps indica* | R (C) | LC |
| Columbiformes | Columbidae | *Columba rupestris* | R (C) | LC |
| Columbiformes | Columbidae | *Columba leuconota* | R (C) | LC |
| Columbiformes | Columbidae | *Streptopelia turtur* | R (C) | VU |
| Columbiformes | Columbidae | *Streptopelia chinensis* | R (C) | LC |
| Columbiformes | Columbidae | *Streptopelia senegalensis* | R (C) | LC |
| Columbiformes | Columbidae | *Treron phoenicoptera* | R (C) | LC |
| Columbiformes | Columbidae | *Streptopelia orientalis* | R (C) | LC |
| Columbiformes | Columbidae | *Treron pompadora* | R (r) | LC |
| Columbiformes | Columbidae | *Columba hodgsonii* | R (C) | LC |
| Columbiformes | Columbidae | *Columba livia* | R (C) | LC |
| Coraciiformes | Alcedinidae | *Halcyon pileata* | R (r) | LC |
| Coraciiformes | Alcedinidae | *Alcedo atthis* | R (C) | LC |
| Coraciiformes | Alcedinidae | *Megaceryle lugubris* | R (r) | LC |
| Coraciiformes | Alcedinidae | *Coracias garrulus* | R (r) | LC |
| Coraciiformes | Upupidae | *Upupa epops* | R (r) | LC |
| Galliformes | Phasianidae | *Alectoris chukar* | R (C) | LC |
| Galliformes | Phasianidae | *Francolinus francolinus* | R (C) | LC |
| Galliformes | Phasianidae | *Francolinus pondicerianus* | R (C) | LC |
| Galliformes | Phasianidae | *Coturnix coturnix* | R (C) | LC |
| Galliformes | Phasianidae | *Coturnix coromandelica* | R (C) | LC |
| Gruiformes | Turnicidae | *Turnix suscitator* | R (C) | LC |
| Gruiformes | Gruidae | *Grus antigone* | R (C) | VU |
| Gruiformes | Rallidae | *Gallicrex cinerea* | R (C) | LC |
| Accipitriformes | [Accipitridae](https://en.wikipedia.org/wiki/Accipitridae) | *Gyps himalayensis* | R (C) | NT |
| Passeriformes | Sturnidae | *Acridotheres ginginianus* | R (C) | LC |
| Passeriformes | Sturnidae | *Sturnus vulgaris* | R (C) | LC |
| Passeriformes | Zosteropidae | *Zosterops palpebrosus* | R (C) | LC |
| Passeriformes | Dicaeidae | *Dicaeum erythrorhynchos* | R (C) | LC |
| Passeriformes | [Hirundinidae](https://en.wikipedia.org/wiki/Swallow) | *Cecropis daurica* | R (C) | LC |
| Passeriformes | [Hirundinidae](https://en.wikipedia.org/wiki/Swallow) | *Hirundo rustica* | R (C) | LC |
| Passeriformes | Campephagidae | *Pericrocotus erythropygius* | R (C) | LC |
| Passeriformes | Leiothrichidae | *Trochalopteron lineatum* | R (r) | LC |
| Passeriformes | Emberizidae | *Emberiza stewarti* | R (r) | LC |
| Passeriformes | Emberizidae | *Emberiza cia* | R (r) | LC |
| Passeriformes | Turdidae | *Copsychus saularis* | R (C) | LC |
| Passeriformes | Turdidae | *Saxicola maurus* | R (C) | LC |
| Passerine | Paridae | *Parus cinereus* | R (r) | LC |
| Passeriformes | Fringillidae | *Chloris spinoides* | R (r) | LC |
| Passeriformes | Certhiidae | *Certhia hodgsoni* | R (r) | LC |
| Passeriformes | Certhiidae | *Certhia himalayana* | R (r) | LC |
| Passeriformes | Passeridae | *Passer domesticus* | R (C) | LC |
| Passeriformes | Passeridae | *Passer rutilans* | R (C) | LC |
| Passeriformes | Motacillidae | *Motacilla citreola* | R (C) | LC |
| Passeriformes | Motacillidae | *Motacilla lugens* | R (C) | LC |
| Passeriformes | Motacillidae | *Motacilla cinerea* | R (C) | LC |
| Passeriformes | Motacillidae | *Anthus sylvanus* | R (C) | LC |
| Passeriformes | [Monarchidae](https://www.google.com/search?q=Monarchidae&stick=H4sIAAAAAAAAAONgVuLUz9U3MDaIrzRaxMrtm5-XWJSckZmSmAoAI9IF0RsAAAA&sa=X&ved=2ahUKEwigo7XUnrbrAhVSSxoKHVTbDI4QmxMoATAiegQIChAD) | *Terpsiphone paradise* | R (r) | LC |
| Passeriformes | Corvidae | *Corvus corone* | R (C) | LC |
| Passeriformes | Dicruridae | *Dicrurus macrocercus* | R (C) | LC |
| Passeriformes | Ploceidae | *Ploceus philippinus* | R (C) | LC |
| Passeriformes | Laniidae | *Lanius vittatus* | R (C) | LC |
| Passeriformes | Laniidae | *Lanius schach* | R (C) | LC |
| Passeriformes | Pycnonotidae | *Pycnonotus atriceps* | R (C) | LC |
| Passeriformes | Regulidae | *Regulus regulus* | R (C) | LC |
| Passeriformes | Aegithinidae | *Aegithina tiphia* | R (C) | LC |
| Passeriformes | Cinclidae | *Cinclus pallasii* | R (C) | LC |
| Piciformes | Picidae | *Dendrocopos moluccensis* | R (C) | LC |
| Pelecaniformes | Anhingidae | *Anhinga melanogaster* | R (C) | NT |
| Pelecaniformes | Phaethontidae | *Phaethon aethereus* | R (C) | LC |
| Pelecaniformes | Pelecanidae | *Pelecanus onocrotalus* | R (C) | LC |
| Pelecaniformes | Pelecanidae | *Pelecanus philippensis* | R (C) | NT |
| Pelecaniformes | Pelecanidae | *Pelecanus crispus* | R (C) | NT |
| Psittaciformes | Psittacidae | *Psittacula krameri* | R (C) | LC |
| Psittaciformes | Psittacidae | *Psittacula himalayana* | R (r) | LC |
| Psittaciformes | Psittacidae | *Psittacula cyanocephala* | R (r) | LC |
| Phoenicopteriformes | Phoenicopteridae | *Phoenicopterus roseus* | R (r) | LC |
| Phoenicopteriformes | Phoenicopteridae | *Phoenicopterus minor* | R (r) | NT |

**R: Residents, r: Rare, C: Common**