**Supplementary Material**

Status, diversity and trends of the bird communities in Volcanoes National Park and surrounds, Rwanda

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Table S1. List of all study sites and their vegetation type and elevation

|  |  |  |
| --- | --- | --- |
| Site | Broad vegetation type | Altitude (m) |
| **Inside VNP** |  |  |
| Horezo | Bamboo/ mixed bamboo; Mixed forest | 2416 - 2572 |
| Kansoro | Bamboo/ mixed bamboo | 2474 - 2913 |
| Kageri | Meadow; Sub-alpine | 2515 - 3301 |
| Kabatwa | Waterbody | 2531 - 2542 |
| Ryamusugi | Brush ridge; Meadow; Sub-Alpine | 2534 - 3374 |
| Rwamikore | Bamboo/ mixed bamboo | 2546 - 2672 |
| Kibumbu | Bamboo/ mixed bamboo; Brush ridge | 2575 - 2761 |
| Rugezi | Waterbody | 2592 - 2595 |
| Mumihati | Hagenia/Hypericum; Mixed forest; Sub-Alpine | 2626 - 3515 |
| Gasindikira | Waterbody | 2649 - 2727 |
| Nyirambubu | Waterbody | 2650 - 2654 |
| Malalo | Waterbody | 2661 - 2662 |
| Bushokoro | Brush ridge; Herbaceous; Mixed forest | 2718 - 2958 |
| Ngando | Bamboo/ mixed bamboo; Hagenia/Hypericum | 2723 - 3034 |
| Ngezi Trail | Bamboo/ mixed bamboo; Hagenia/Hypericum; Mixed forest | 2724 - 2888 |
| Mitimbili | Bamboo/ mixed bamboo; Brush ridge; Hagenia/Hypericum | 2727 - 3058 |
| Kimbagira | Sub-alpine | 2736 - 2979 |
| Gatabi | Bamboo/ mixed bamboo | 2736 - 2979 |
| Mapfundo | Hagenia/Hypericum; Mixed forest | 2740 - 3047 |
| Kiyira | Bamboo/ mixed bamboo; Hagenia/Hypericum | 2749 - 3042 |
| Nyabitondore | Bamboo/ mixed bamboo; Hagenia/Hypericum; Mixed forest; Sub-Alpine | 2801 - 3255 |
| Kabashumba | Bamboo/ mixed bamboo; Hagenia/Hypericum; Mixed forest | 2815 - 3058 |
| Ngezi Swamp | Waterbody | 2844 - 2881 |
| Bisoke | Brush ridge; Hagenia/Hypericum; Herbaceous; Sub-alpine | 2984 - 3622 |
| Muntu | Bamboo/ mixed bamboo; Brush ridge; Hagenia/Hypericum | 2990 - 3170 |
| Sabyinyo | Mixed forest; Sub-Alpine | 3011 - 3336 |
| Ngando-Rtlm | Brush ridge; Hagenia/Hypericum | 3087 - 3472 |
| Kiyira-Rtlm | Brush ridge; Hagenia/Hypericum; Sub-alpine | 3095 - 3839 |
| Muhabura | Meadow | 3377 - 4127 |
| Karisimbi | Sub-alpine | 3587 - 4303 |
| **Outside VNP** |  |  |
| Nyagahinga | Crops | 2117 - 2249 |
| Minagri | Crops | 2312 - 2333 |
| Kampande | Crops | 2465 - 2502 |
| Mutura | Crops | 2531 - 2602 |
| Bisate | Crops | 2594 - 2627 |
| **Inside Buhanga** |  |  |
| Buhanga2 | Dracaena | 1597 - 1641 |
| Buhanga1 | Dracaena | 1620 - 1648 |
| **Outside Buhanga** |  |  |
| Buhanga East | Crops | 1598 - 1649 |
| Buhanga West | Crops | 1572 - 1655 |

Table S2. Abundance of threatened and Albertine Rift Endemic (ARE) bird species in each vegetation type, inside and outside the VNP (including inside and outside Buhanga). LC = Least Concern; VU = Vulnerable; EN = Endangered; CR = Critically Endangered.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Common name | Scientific name | Red List status | Endemism | Broad vegetation type | | | | | | | | | | | Total abundance |
| Inside VNP | | | | | | | |  | Outside VNP/ Buhanga | |
| Bamboo/ Mixed bamboo | Brush ridge | Hagenia/ Hypericum | Herbaceous | Meadow | Mixed forest | Sub- Alpine | Waterbody |  | Crops | Dracaena |
| Abyssinian Ground-Thrush | *Geokichla piaggiae* | LC | ARE | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 3 | 0 | 15 |
| Archer's Ground Robin | *Dessonornis archeri* | LC | ARE | 229 | 73 | 119 | 26 | 29 | 116 | 74 | 35 |  | 51 | 0 | 752 |
| Blue-headed Sunbird | *Cyanomitra alinae* | LC | ARE | 5 | 0 | 0 | 0 | 0 | 9 | 2 | 7 |  | 2 | 4 | 29 |
| Collared Apalis | *Oreolais ruwenzorii* | LC | ARE | 129 | 5 | 51 | 4 | 3 | 78 | 5 | 27 |  | 18 | 0 | 320 |
| Dusky Crimsonwing | *Cryptospiza jacksoni* | LC | ARE | 14 | 5 | 12 | 0 | 1 | 14 | 3 | 0 |  | 2 | 0 | 51 |
| Grauer's Rush Warbler\* | *Bradypterus graueri* | EN | ARE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 96 |  | 0 | 0 | 96 |
| Grey-crowned Crane‡ | *Balearica regulorum* | EN |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  | 2 | 0 | 2 |
| Handsome Francolin\* | *Pternistis nobilis* | LC | ARE | 11 | 0 | 6 | 2 | 2 | 3 | 0 | 5 |  | 0 | 0 | 29 |
| Hooded Vulture | *Necrosyrtes monachus* | CR |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |  | 0 | 45 | 46 |
| Martial Eagle | *Polemaetus bellicosus* | VU |  | 0 | 1 | 1 | 0 | 2 | 2 | 1 | 0 |  | 1 | 0 | 8 |
| Montane Nightjar\* | *Caprimulgus poliocephalus* | LC | ARE | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |  | 0 | 0 | 2 |
| Mountain Masked Apalis | *Apalis personata* | LC | ARE | 26 | 9 | 12 | 1 | 6 | 39 | 0 | 5 |  | 3 | 0 | 101 |
| Red-faced Woodland Warbler | *Phylloscopus laetus* | LC | ARE | 373 | 29 | 50 | 2 | 6 | 110 | 7 | 58 |  | 13 | 0 | 648 |
| Regal Sunbird | *Cinnyris regius* | LC | ARE | 154 | 3 | 19 | 2 | 20 | 148 | 2 | 33 |  | 13 | 0 | 394 |
| Ruwenzori Batis | *Batis diops* | LC | ARE | 46 | 14 | 41 | 0 | 15 | 67 | 2 | 6 |  | 5 | 0 | 196 |
| Ruwenzori Double-collared Sunbird | *Cinnyris stuhlmanni* | LC | ARE | 267 | 511 | 839 | 76 | 104 | 259 | 335 | 167 |  | 66 | 0 | 2624 |
| Ruwenzori Turaco | *Gallirex johnstoni* | LC | ARE | 97 | 40 | 72 | 0 | 26 | 167 | 107 | 19 |  | 18 | 0 | 546 |
| Shelley's Crimsonwing\* | *Cryptospiza shelleyi* | EN | ARE | 0 | 11 | 0 | 0 | 0 | 1 | 0 | 0 |  | 0 | 0 | 12 |
| Strange Weaver | *Ploceus alienus* | LC | ARE | 1 | 0 | 6 | 0 | 0 | 11 | 0 | 0 |  | 1 | 9 | 28 |
| Stripe-breasted Tit\* | *Melaniparus fasciiventer* | LC | ARE | 6 | 29 | 89 | 3 | 2 | 23 | 4 | 0 |  | 0 | 0 | 156 |
| Total Abundance |  |  |  | 1370 | 729 | 1316 | 116 | 216 | 1045 | 541 | 458 |  | 195 | 13 | 5999 |
| Total Species Richness |  |  |  | 14 | 11 | 12 | 8 | 12 | 14 | 10 | 11 |  | 12 | 2 | 17 |

\* denotes species recorded only inside the VNP

‡ denotes species recorded only outside Buhanga eco-park

Table S3. Abundance of each bird species in each of the vegetation types surveyed in the study

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Common name | Scientific name | Inside VNP | | | | | | | | Outside VNP/ Buhanga | | Total abundance |
| Bamboo/ mixed bamboo | Brush ridge | Hagenia/ Hypericum | Herbaceous | Meadow | Mixed forest | Sub- Alpine | Waterbody | Crops | Dracaena |
| African Black Duck‡ | *Anas sparsa* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 5 |
| African Black Swift† | *Apus barbatus* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 |
| Western Citril | *Crithagra frontalis* | 1 | 0 | 3 | 0 | 2 | 0 | 0 | 1 | 37 | 41 | 85 |
| African Crowned Eagle\* | *Stephanoaetus coronatus* | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| African Dusky Flycatcher | *Muscicapa adusta* | 11 | 1 | 12 | 1 | 2 | 14 | 0 | 4 | 46 | 13 | 104 |
| African Emerald Cuckoo† | *Chrysococcyx cupreus* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| African Firefinch | *Lagonosticta rubricata* | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 135 | 62 | 201 |
| African Golden Oriole† | *Oriolus auratus* | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 12 | 0 | 15 |
| African Golden-breasted Bunting | *Emberiza flaviventris* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| African Goshawk | *Accipiter tachiro* | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 5 | 8 |
| African Green Pigeon† | *Treron calvus* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| African Harrier-hawk | *Polyboroides typus* | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 7 | 9 | 19 |
| African Hill-babbler | *Sylvia abyssinica* | 59 | 23 | 67 | 3 | 21 | 46 | 2 | 17 | 8 | 14 | 260 |
| African Hobby\* | *Falco cuvierii* | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| African Paradise-flycatcher | *Terpsiphone viridis* | 3 | 2 | 4 | 1 | 1 | 10 | 0 | 2 | 60 | 82 | 165 |
| African Pied Wagtail | *Motacilla aguimp* | 0 | 2 | 1 | 0 | 0 | 0 | 2 | 6 | 106 | 8 | 125 |
| African Pitta† | *Pitta angolensis* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 |
| African Pygmy Kingfisher‡ | *Ispidina picta* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| African Spoonbill‡ | *Platalea alba* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 |
| African Thrush‡ | *Turdus pelios* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 |
| African Wood Owl\* | *Strix woodfordii* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Alpine Swift\* | *Tachymarptis melba* | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Angola Swallow | *Hirundo angolensis* | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 14 | 16 | 0 | 32 |
| Archer's Robin-Chat | *Dessonornis archeri* | 229 | 73 | 119 | 26 | 29 | 116 | 74 | 35 | 51 | 0 | 752 |
| Arrow-marked Babbler | *Turdoides jardineii* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 63 | 190 | 253 |
| Augur Buzzard | *Buteo augur* | 2 | 1 | 5 | 0 | 12 | 2 | 0 | 6 | 91 | 19 | 138 |
| Baglafecht Weaver | *Ploceus baglafecht* | 6 | 11 | 16 | 0 | 5 | 6 | 3 | 7 | 281 | 56 | 391 |
| Banded Prinia | *Prinia bairdii* | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 4 |
| Barn Swallow\* | *Hirundo rustica* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 0 | 0 | 21 |
| Black Cuckoo-Shrike | *Campephaga flava* | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 3 | 55 | 61 |
| Black Kite | *Milvus migrans* | 2 | 2 | 3 | 0 | 2 | 11 | 9 | 11 | 97 | 42 | 179 |
| Black Saw-wing | *Psalidoprocne pristoptera* | 31 | 16 | 17 | 0 | 6 | 13 | 4 | 52 | 226 | 44 | 409 |
| Black-and-white Mannikin† | *Spermestes bicolor* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 22 |
| Black-collared Barbet | *Lybius torquatus* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 |
| Black-crowned Tchagra | *Tchagra senegalus* | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 3 | 9 | 14 |
| Black-crowned Waxbill | *Estrilda nonnula* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 191 | 123 | 314 |
| Black-headed Heron | *Ardea melanocephala* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 2 | 13 |
| Black-headed Waxbill | *Estrilda atricapilla* | 14 | 13 | 4 | 6 | 0 | 17 | 1 | 47 | 71 | 6 | 179 |
| Black-headed Weaver | *Ploceus cucullatus* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 15 | 26 |
| Blue-headed Coucal | *Centropus monachus* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 10 | 49 | 60 |
| Blue-headed Sunbird | *Cyanomitra alinae* | 5 | 0 | 0 | 0 | 0 | 9 | 2 | 7 | 2 | 4 | 29 |
| Brimstone Canary | *Crithagra sulphurata* | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 3 | 0 | 6 |
| Bronze Mannikin | *Spermestes cucullata* | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 24 | 554 | 109 | 691 |
| Bronze Sunbird | *Nectarinia kilimensis* | 0 | 0 | 3 | 0 | 4 | 1 | 0 | 15 | 281 | 234 | 538 |
| Brown Woodland Warbler | *Phylloscopus umbrovirens* | 11 | 54 | 81 | 0 | 56 | 29 | 175 | 2 | 8 | 0 | 416 |
| Brown-backed Scrub-robin | *Cercotrichas hartlaubi* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 54 | 60 |
| Brown-crowned Tchagra | *Tchagra australis* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 46 | 55 |
| Brown-necked Parrot\* | *Poicephalus fuscicollis* | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 18 | 0 | 0 | 22 |
| Brown-throated Wattle-eye† | *Platysteira cyanea* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 11 |
| Cape Robin-chat | *Dessonornis caffer* | 8 | 1 | 2 | 0 | 28 | 5 | 50 | 12 | 111 | 6 | 223 |
| Cape Wagtail | *Motacilla capensis* | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 74 | 9 | 84 |
| Cattle Egret‡ | *Bubulcus ibis* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Chestnut-throated Apalis | *Apalis porphyrolaema* | 77 | 34 | 95 | 11 | 44 | 92 | 6 | 18 | 25 | 1 | 403 |
| Chin-spot Batis | *Batis molitor* | 1 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 38 | 36 | 87 |
| Chubb's Cisticola | *Cisticola chubbi* | 184 | 109 | 161 | 36 | 69 | 194 | 19 | 180 | 540 | 131 | 1623 |
| Cinnamon Bracken Warbler | *Bradypterus cinnamomeus* | 477 | 239 | 457 | 11 | 237 | 214 | 288 | 193 | 77 | 3 | 2196 |
| Cinnamon-chested Bee-eater | *Merops oreobates* | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 61 | 16 | 80 |
| Collared Apalis | *Oreolais ruwenzorii* | 129 | 5 | 51 | 4 | 3 | 78 | 5 | 27 | 18 | 0 | 320 |
| Collared Sunbird | *Hedydipna collaris* | 0 | 0 | 0 | 0 | 3 | 0 | 2 | 0 | 4 | 22 | 31 |
| Common Bulbul | *Pycnonotus barbatus* | 40 | 5 | 12 | 2 | 56 | 59 | 1 | 91 | 308 | 615 | 1189 |
| Common Buzzard\* | *Buteo buteo* | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Common Fiscal | *Lanius collaris* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 112 | 20 | 134 |
| Common Kestrel | *Falco tinnunculus* | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 5 |
| Common Sandpiper‡ | *Actitis hypoleucos* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Common Stonechat | *Saxicola torquatus* | 2 | 3 | 8 | 0 | 2 | 2 | 5 | 18 | 231 | 3 | 274 |
| Common Waxbill | *Estrilda astrild* | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 3 | 437 | 70 | 511 |
| Dark-capped Yellow Warbler | *Iduna natalensis* | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 16 | 17 | 35 |
| Diederik Cuckoo† | *Chrysococcyx caprius* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 10 |
| Doherty's Bush-shrike\* | *Telophorus dohertyi* | 6 | 3 | 3 | 0 | 26 | 3 | 6 | 1 | 0 | 0 | 48 |
| Double-toothed Barbet† | *Pogonornis bidentatus* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 14 |
| Dusky Crimsonwing | *Cryptospiza jacksoni* | 14 | 5 | 12 | 0 | 1 | 14 | 3 | 0 | 2 | 0 | 51 |
| Dusky Turtle Dove | *Streptopelia lugens* | 16 | 1 | 5 | 0 | 35 | 6 | 9 | 3 | 44 | 0 | 119 |
| European Bee-eater | *Merops apiaster* | 0 | 0 | 0 | 15 | 0 | 75 | 14 | 43 | 20 | 28 | 195 |
| Familiar Chat | *Oenanthe familiaris* | 0 | 2 | 6 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 22 |
| Fan-tailed Widowbird | *Euplectes axillaris* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 2 | 21 |
| Fawn-breasted Waxbill‡ | *Estrilda paludicola* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 11 |
| Grassland Pipit | *Anthus cinnamomeus* | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 7 | 93 | 1 | 102 |
| Grauer's Rush Warbler\* | *Bradypterus graueri* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 96 | 0 | 0 | 96 |
| Great Sparrowhawk | *Accipiter melanoleucus* | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 12 | 20 |
| Green-backed Woodpecker† | *Campethera cailliautii* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 5 |
| Green-headed Sunbird | *Cyanomitra verticalis* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 99 | 107 |
| Grey-backed Camaroptera | *Camaroptera brachyura* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 200 | 226 |
| Grey-backed Fiscal† | *Lanius excubitoroides* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Grey-backed Woodpecker† | *Dendropicos goertae* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Grey-capped Warbler | *Eminia lepida* | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 29 | 202 | 235 |
| Grey-crowned Crane‡ | *Balearica regulorum* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 |
| Grey-headed Bush-shrike\* | *Malaconotus blanchoti* | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 4 |
| Grey-headed Sparrow | *Passer griseus* | 0 | 2 | 8 | 0 | 7 | 0 | 1 | 0 | 189 | 21 | 228 |
| Hadada Ibis | *Bostrychia hagedash* | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 8 | 119 | 46 | 178 |
| Hamerkop | *Scopus umbretta* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 20 | 0 | 21 |
| Handsome Francolin\* | *Pternistis nobilis* | 11 | 0 | 6 | 2 | 2 | 3 | 0 | 5 | 0 | 0 | 29 |
| Holub's Golden Weaver | *Ploceus xanthops* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 44 | 42 | 87 |
| Hooded Vulture | *Necrosyrtes monachus* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 45 | 46 |
| Abyssinian Ground-thrush | *Geokichla piaggiae* | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 15 |
| Klaas's Cuckoo | *Chrysococcyx klaas* | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 22 | 29 | 55 |
| Lagden's Bush-shrike\* | *Malaconotus lagdeni* | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Lanner Falcon | *Falco biarmicus* | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 13 | 9 | 26 |
| Lesser Striped Swallow† | *Cecropis abyssinica* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 14 |
| Levaillant's Cuckoo‡ | *Clamator levaillantii* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Little Grebe\* | *Tachybaptus ruficollis* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 0 | 0 | 26 |
| Little Sparrowhawk | *Accipiter minullus* | 0 | 1 | 0 | 2 | 1 | 1 | 0 | 0 | 3 | 0 | 8 |
| Little Swift† | *Apus affinis* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 17 |
| Lizzard Buzzard† | *Kaupifalco monogrammicus* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 |
| Long-crested Eagle† | *Lophaetus occipitalis* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 12 |
| Mackinnon's Fiscal | *Lanius mackinnoni* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 108 | 129 |
| Malachite Kingfisher | *Corythornis cristatus* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 2 | 16 |
| Marico Sunbird‡ | *Cinnyris mariquensis* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 |
| Martial Eagle | *Polemaetus bellicosus* | 0 | 1 | 1 | 0 | 2 | 2 | 1 | 0 | 1 | 0 | 8 |
| Mountain Sooty Boubou | *Laniarius poensis* | 136 | 74 | 132 | 15 | 43 | 127 | 101 | 52 | 26 | 0 | 706 |
| Mountain Buzzard | *Buteo oreophilus* | 45 | 15 | 38 | 9 | 12 | 28 | 44 | 31 | 17 | 0 | 239 |
| Mountain Greenbul | *Arizelocichla nigriceps* | 178 | 18 | 50 | 7 | 45 | 156 | 19 | 33 | 13 | 0 | 519 |
| Mountain Illadopsis\* | *Illadopsis pyrrhoptera* | 12 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 15 |
| Mountain Masked Apalis | *Apalis personata* | 26 | 9 | 12 | 1 | 6 | 39 | 0 | 5 | 3 | 0 | 101 |
| Mountain Yellow Warbler | *Iduna similis* | 210 | 70 | 247 | 8 | 27 | 115 | 23 | 72 | 19 | 0 | 791 |
| Narina Trogon | *Apaloderma narina* | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 4 |
| Northern Puffback | *Dryoscopus gambensis* | 39 | 3 | 8 | 1 | 4 | 22 | 3 | 16 | 10 | 0 | 106 |
| Nubian Woodpecker† | *Campethera nubica* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 |
| African Olive Pigeon | *Columba arquatrix* | 38 | 25 | 79 | 12 | 11 | 40 | 10 | 10 | 3 | 0 | 228 |
| Northern Olive Thrush | *Turdus abyssinicus* | 12 | 2 | 9 | 1 | 3 | 18 | 6 | 8 | 40 | 21 | 120 |
| Olive Woodpecker | *Dendropicos griseocephalus* | 17 | 12 | 39 | 0 | 0 | 8 | 0 | 0 | 2 | 2 | 80 |
| Olive-bellied Sunbird | *Cinnyris chloropygius* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 2 | 8 |
| Pied Crow | *Corvus albus* | 8 | 9 | 7 | 0 | 3 | 9 | 2 | 8 | 207 | 556 | 809 |
| Pied Kingfisher‡ | *Ceryle rudis* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 |
| Pin-tailed Whydah | *Vidua macroura* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 0 | 13 |
| Red-billed Firefinch | *Lagonosticta senegala* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 154 | 14 | 170 |
| Red-capped Robin-Chat | *Cossypha natalensis* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 45 | 48 |
| Red-chested Cuckoo | *Cuculus solitarius* | 1 | 0 | 0 | 0 | 2 | 4 | 0 | 1 | 19 | 55 | 82 |
| Red-eyed Dove | *Streptopelia semitorquata* | 1 | 1 | 3 | 0 | 8 | 30 | 0 | 8 | 154 | 116 | 321 |
| Red-faced Woodland Warbler | *Phylloscopus laetus* | 373 | 29 | 50 | 2 | 6 | 110 | 7 | 58 | 13 | 0 | 648 |
| Red-headed Bluebill† | *Spermophaga ruficapilla* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Red-knobbed Coot\* | *Fulica cristata* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 80 | 0 | 0 | 80 |
| Red-necked Francolin | *Pternistis afer* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 24 | 25 |
| Red-rumped Swallow | *Cecropis daurica* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 | 51 | 75 |
| Red-throated Wryneck† | *Jynx ruficollis* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 5 |
| Regal Sunbird | *Cinnyris regius* | 154 | 3 | 19 | 2 | 20 | 148 | 2 | 33 | 13 | 0 | 394 |
| Ring-necked Dove\* | *Streptopelia capicola* | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| Large Rock Martin | *Ptyonoprogne fuligula* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 13 | 28 |
| Ross's Turaco† | *Musophaga rossae* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Rufous-breasted Sparrowhawk | *Accipiter rufiventris* | 5 | 4 | 1 | 0 | 1 | 1 | 1 | 2 | 4 | 0 | 19 |
| Ruwenzori Batis | *Batis diops* | 46 | 14 | 41 | 0 | 15 | 67 | 2 | 6 | 5 | 0 | 196 |
| Ruwenzori Double-collared Sunbird | *Cinnyris stuhlmanni* | 267 | 511 | 839 | 76 | 104 | 259 | 335 | 167 | 66 | 0 | 2624 |
| Montane Nightjar\* | *Caprimulgus poliocephalus* | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| Ruwenzori Turaco | *Gallirex johnstoni* | 97 | 40 | 72 | 0 | 26 | 167 | 107 | 19 | 18 | 0 | 546 |
| Sacred Ibis | *Threskiornis aethiopicus* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 34 | 5 | 39 |
| Sand Martin† | *Riparia riparia* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 |
| Scaly Francolin† | *Pternistis squamatus* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| Scaly-throated Honeyguide† | *Indicator variegatus* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 |
| Scarce Swift | *Schoutedenapus myoptilus* | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 36 | 15 | 55 |
| Scarlet-chested Sunbird | *Chalcomitra senegalensis* | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 33 | 40 | 74 |
| Scarlet-tufted Malachite Sunbird | *Nectarinia johnstoni* | 9 | 11 | 2 | 5 | 19 | 0 | 329 | 55 | 11 | 0 | 441 |
| Shelley's Crimsonwing\* | *Cryptospiza shelleyi* | 0 | 11 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 12 |
| Singing Cisticola | *Cisticola cantans* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 3 | 22 |
| Slender-billed Starling\* | *Onychognathus tenuirostris* | 0 | 0 | 0 | 0 | 41 | 0 | 0 | 21 | 0 | 0 | 62 |
| Sooty Chat† | *Myrmecocichla nigra* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Southern Red Bishop† | *Euplectes orix* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Speckled Mousebird | *Colius striatus* | 7 | 10 | 10 | 10 | 32 | 17 | 0 | 1 | 42 | 414 | 543 |
| Speckled Pigeon+ | *Columba guinea* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 11 |
| Spectacled Weaver | *Ploceus ocularis* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 3 | 11 |
| Spot-flanked Barbet | *Tricholaema lacrymosa* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 52 | 60 |
| Spotted Eagle-Owl | *Bubo africanus* | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 2 | 5 |
| Strange Weaver | *Ploceus alienus* | 1 | 0 | 6 | 0 | 0 | 11 | 0 | 0 | 1 | 9 | 28 |
| Streaky Seedeater | *Crithagra striolata* | 15 | 45 | 77 | 12 | 36 | 27 | 27 | 33 | 925 | 73 | 1270 |
| Stripe-breasted Tit\* | *Melaniparus fasciiventer* | 6 | 29 | 89 | 3 | 2 | 23 | 4 | 0 | 0 | 0 | 156 |
| Swamp Flycatcher | *Muscicapa aquatica* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 37 | 12 | 49 |
| Tambourine Dove | *Turtur tympanistria* | 3 | 0 | 0 | 0 | 1 | 8 | 0 | 3 | 9 | 71 | 95 |
| Tawny Eagle | *Aquila rapax* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 6 |
| Tawny-flanked Prinia | *Prinia subflava* | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 31 | 15 | 47 |
| Thick-billed Seedeater | *Crithagra burtoni* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 11 | 13 |
| Tree Pipit | *Anthus trivialis* | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 5 | 6 |
| Tropical Boubou | *Laniarius aethiopicus* | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 37 | 159 | 197 |
| Variable Sunbird | *Cinnyris venustus* | 11 | 3 | 6 | 0 | 19 | 0 | 3 | 6 | 241 | 67 | 356 |
| Verreaux's Eagle-owl† | *Bubo lacteus* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 3 |
| Violet-backed Starling† | *Cinnyricinclus leucogaster* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Western Green Tinkerbird\* | *Pogoniulus coryphaea* | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 |
| White-browed Crombec\* | *Sylvietta leucophrys* | 3 | 0 | 2 | 0 | 0 | 3 | 0 | 1 | 0 | 0 | 9 |
| White-browed Robin-chat | *Cossypha heuglini* | 2 | 1 | 4 | 0 | 4 | 0 | 0 | 0 | 99 | 74 | 184 |
| White-browed Scrub-robin | *Cercotrichas leucophrys* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 4 | 6 |
| White-chinned Prinia | *Schistolais leucopogon* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 26 | 31 |
| White-eyed Slaty Flycatcher | *Melaenornis fischeri* | 10 | 9 | 25 | 9 | 6 | 13 | 0 | 4 | 63 | 16 | 155 |
| White-headed Saw-wing | *Psalidoprocne albiceps* | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 33 | 19 | 56 |
| White-naped Raven | *Corvus albicollis* | 29 | 16 | 33 | 2 | 105 | 21 | 133 | 11 | 112 | 0 | 462 |
| White-rumped Swift\* | *Apus caffer* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 0 | 12 |
| White-starred Robin | *Pogonocichla stellata* | 104 | 10 | 21 | 6 | 1 | 18 | 7 | 13 | 8 | 0 | 188 |
| White-tailed Blue-flycatcher | *Elminia albicauda* | 1 | 0 | 0 | 2 | 3 | 4 | 0 | 0 | 37 | 26 | 73 |
| White-tailed Crested-flycatcher | *Elminia albonotata* | 13 | 0 | 1 | 2 | 1 | 14 | 0 | 0 | 3 | 1 | 35 |
| White-winged Tit | *Melaniparus leucomelas* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 5 | 9 |
| Winding Cisticola‡ | *Cisticola marginatus* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 |
| Yellow Bishop | *Euplectes capensis* | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 2 | 122 | 23 | 152 |
| Yellow White-eye | *Zosterops senegalensis* | 269 | 200 | 270 | 26 | 164 | 208 | 71 | 86 | 126 | 80 | 1500 |
| Yellow-backed Weaver | *Ploceus melanocephalus* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 218 | 12 | 230 |
| Yellow-bellied Waxbill | *Coccopygia quartinia* | 0 | 1 | 0 | 0 | 4 | 0 | 0 | 0 | 32 | 15 | 52 |
| Yellow-billed Duck\* | *Anas undulata* | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 36 | 0 | 0 | 40 |
| Yellow-billed Stork | *Mycteria ibis* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 4 |
| Yellow-crowned Canary | *Serinus flavivertex* | 3 | 1 | 33 | 0 | 20 | 25 | 1 | 1 | 914 | 0 | 998 |
| Yellow-fronted Canary | *Crithagra mozambica* | 6 | 7 | 17 | 0 | 0 | 3 | 0 | 19 | 573 | 70 | 695 |
| Yellow-mantled Widowbird+ | *Euplectes macroura* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| Yellow-rumped Tinkerbird\* | *Pogoniulus bilineatus* | 4 | 0 | 1 | 1 | 7 | 13 | 2 | 0 | 0 | 0 | 28 |
| Yellow-throated Mountain Greenbul | *Atimastillas flavicollis* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 86 | 91 |
| Yellow-whiskered Greenbul | *Eurillas latirostris* | 57 | 0 | 0 | 0 | 0 | 93 | 2 | 5 | 1 | 0 | 158 |
| Total Abundance |  | 3585 | 1806 | 3439 | 332 | 1476 | 2902 | 1927 | 1954 | 9894 | 5570 | 32885 |
| Total Species Richness |  | 72 | 58 | 76 | 35 | 73 | 74 | 51 | 80 | 141 | 129 | 199 |

\* denotes species recorded only inside the VNP

+ denotes species recorded only outside the VNP

† denotes species recorded only inside Buhanga eco-park

‡ denotes species recorded only outside Buhanga eco-park