**Supplementary Material**

Atlas data indicate forest dependent bird species declines in South Africa

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Appendix S1. Forest dependent birds of South Africa.

Appendix S2.Indications by percentage of how much each response group represented each characteristic.

Appendix S1. Forest dependent birds of South Africa, as per Oatley (1989) and BirdLife International (2014), as well as the forest types that they occur in as per BirdLife International (2014).

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| --- | --- | --- | --- |
| **Scientific name** | **Common name (as per SABAP)** | **Source** | **Forest types** |
| *Accipiter rufiventris* | Rufous-chested sparrowhawk | BirdLife International 2014 | Montane |
| *Accipiter tachiro* | African goshawk | Oatley 1989 | Mangrove, lowland, montane |
| *Aquila pomarina* | Lesser spotted eagle | BirdLife International 2014 | Temperate |
| *Buteo trizonatus* | Forest buzzard | BirdLife International 2014 | Montane |
| *Circaetus fasciolatus* | Southern banded snake-eagle | BirdLife International 2014 | Lowland |
| *Pernis apivorus* | European honey-buzzard | BirdLife International 2014 | Dry, temperate |
| *Stephanoaetus coronatus* | African crowned eagle | Both | Dry, lowland, montane |
| *Bycanistes bucinator* | Trumpeter hornbill | Both | Dry, lowland, montane |
| *Tockus alboterminatus* | Crowned hornbill | BirdLife International 2014 | Dry, lowland, montane |
| *Coracina caesia* | Grey cuckooshrike | Oatley 1989 | Lowland, montane |
| *Pogoniulus bilineatus* | Yellow-rumped tinkerbird | Oatley 1989 | Dry, lowland, montane |
| *Stactolaema olivacea* | Green barbet | Both | Dry, lowland, montane |
| *Aplopelia larvata* | Lemon dove | Oatley 1989 | Lowland, montane |
| *Columba delegorguei* | Eastern bronze-naped pigeon | Oatley 1989 | Lowland, montane |
| *Turtur tympanistria* | Tambourine dove | Oatley 1989 | Lowland, montane |
| *Chrysococcyx cupreus* | African emerald cuckoo | Oatley 1989 | Lowland |
| *Dicrurus ludwigii* | Square-tailed drongo | Oatley 1989 | Dry, lowland |
| *Estrilda perreini* | Grey waxbill | Oatley 1989 | Lowland |
| *Hypargos margaritatus* | Pinkthroated twinspot | Oatley 1989 | Montane |
| *Mandingoa nitidula* | Green-backed twinspot | Oatley 1989 | Lowland |
| *Smithornis capensis* | African broadbill | Oatley 1989 | Dry, lowland, montane |
| *Crithagra scotops* | Forest canary | Oatley 1989 | Lowland, montane |
| *Telophorus nigrifrons* | Black-fronted bush-shrike | Oatley 1989 | Lowland, montane |
| *Telophorus olivaceus* | Olive bush-shrike | Oatley 1989 | Dry, lowland, montane |
| *Motacilla clara* | Mountain wagtail | BirdLife International 2014 | Riverine |
| *Batis capensis* | Cape batis | Oatley 1989 | Lowland, montane, temperate |
| *Batis fratrum* | Woodward's batis | Oatley 1989 | Dry, lowland |
| *Trochocerus cyanomelas* | Blue-mantled crested-flycatcher | Both | Montane, lowland |
| *Tauraco corythaix* | Knysna turaco | Both | Lowland, montane |
| *Tauraco livingstonii* | Livingstone's turaco | BirdLife International 2014 | Lowland |
| *Cyanomitra olivacea* | Olive sunbird | Oatley 1989 | Dry, mangrove, lowland |
| *Hedydipna collaris* | Collared sunbird | Oatley 1989 | Dry, lowland, montane, swamp |
| *Nectarinia chalybea* | Southern double-collared sunbird | Oatley 1989 | Lowland |
| *Guttera edouardi* | Crested guineafowl | Oatley 1989 | Dry, lowland |
| *Oriolus oriolus* | Eurasian golden oriole | BirdLife International 2014 | Dry, montane, temperate |
| *Dendropicos griseocephalus* | Olive woodpecker | Oatley 1989 | Dry, lowland, montane |
| *Ploceus bicolor* | Dark-backed weaver | Oatley 1989 | Dry, lowland |
| *Prionops retzii* | Retz's helmet-shrike | Oatley 1989 | Mangrove, dry |
| *Poicephalus robustus* | Cape parrot | Oatley 1989 | Mangrove, montane |
| *Chlorocichla flaviventris* | Yellowbellied greenbul | Oatley 1989 | Dry, lowland |
| *Phyllastrephus flavostriatus* | Yellow-streaked greenbul | Oatley 1989 | Lowland, montane |
| *Sarothrura elegans* | Buffspotted flufftail | Oatley 1989 | Lowland, montane, swamp |
| *Strix woodfordii* | African wood-owl | Oatley 1989 | Lowland, montane |
| *Indicator variegatus* | Scalythroated honeyguide | Oatley 1989 | Lowland |
| *Lamprotornis corruscus* | Black-bellied starling | Both | Lowland |
| *Bradypterus barratti* | Barratt's warbler | Oatley 1989 | Montane |
| *Camaroptera brachyura* | Green-backed camaroptera | Oatley 1989 | Mangrove, lowland, montane |
| *Lioptilus nigricapillus* | Bush blackcap | Oatley 1989 | Montane, temperate |
| *Apaloderma narina* | Narina trogon | Both | Dry, lowland, montane |
| *Apalis thoracica* | Barthroated apalis | Oatley 1989 | Lowland |
| *Cossypha dichroa* | Chorister robin-chat | Oatley 1989 | Lowland, montane |
| *Erythropygia quadrivirgata* | Bearded scrub-robin | Oatley 1989 | Dry, lowland |
| *Erythropygia signata* | Brown scrub-robin | Oatley 1989 | Dry, lowland, montane |
| *Phylloscopus ruficapilla* | Yellow-throated woodland-warbler | Both | Dry, lowland, montane |
| *Pogonocichla stellata* | White-starred robin | Oatley 1989 | Lowland, montane |
| *Zoothera gurneyi* | Orange ground-thrush | Both | Montane |
| *Zoothera guttata* | Spotted ground-thrush | Both | Dry, lowland, montane |

Appendix S2.Indications by percentage of how much each response group represented each characteristic.

**Characteristic Increasers Decreasers Stable**

Occurs in plantations 45,45 53,57 14,29

Threatened 9,09 21,43 28,57

Montane 31,82 89,29 71,43

Mangrove 9,09 10,71 0,00

Lowland 81,82 71,43 100,00

Dry 54,55 25,00 57,14

Riverine 0,00 3,57 0,00

Swamp 4,55 3,57 0,00

Generalist 59,09 35,71 42,86

Specialist 40,91 64,29 57,14

Sedentary 81,82 67,86 85,71

Mobile 18,18 32,14 14,29

Resident 90,91 96,43 85,71

Migrant 9,09 3,57 14,29

Endemic 9,09 28,57 0,00

Not endemic 86,36 75,00 100,00

Edge 18,18 3,57 0,00

Interior 40,91 39,29 85,71

Edge and interior 40,91 57,14 14,29

Predator (mammals, birds, reptiles) 9,09 21,43 0,00

Omnivore 50,00 21,43 14,29

Frugivore 9,09 7,14 14,29

Insectivore 22,73 42,86 71,43

Seedeater 9,09 3,57 0,00

Nectivore 0,00 3,57 0,00

Small body size (<20cm) 68,18 50,00 85,71

Medium body size (20-50cm) 18,18 39,29 0,00

Large body size (50-80cm) 13,64 10,71 0,00

Very large body size (>80cm) 0,00 3,57 0,00

Built nest 59,09 64,29 57,14

Platform nest 0,00 17,86 0,00

Cavity nest 22,73 14,29 28,57

Scrape nest 4,55 0,00 0,00

Brood parasite 4,55 0,00 14,29

Non breeding migrant 9,09 3,57 0,00

Monogamous 86,36 96,43 85,71

Polygamous 4,55 0,00 14,29

Non-breeding migrant 9,09 3,57 0,00

Solitary nest dispersion 90,91 100,00 85,71

Social nest dispersion 4,55 0,00 0,00

Brood parasite 4,55 0,00 14,29

Nest site fidelity 22,73 50,00 28,57

Nest site infidelity 77,27 50,00 71,43

Low mass (<100g) 72,73 64,29 100,00

Medium mass (100-500g) 13,64 21,43 0,00

High mass (500-1000g) 4,55 10,71 0,00

Very high mass (>1000g) 9,09 3,57 0,00

Altricial 95,45 96,43 100,00

Precocial 4,55 3,57 0,00

1 egg 4,55 3,57 14,29

2 eggs 22,73 53,57 42,86

3 eggs 45,45 25,00 28,57

3+ eggs 27,27 17,86 14,29

<4 months breeding season 4,55 7,14 28,57

4-6 months breeding season 50,00 53,57 57,14

7-9 months breeding season 36,36 17,86 14,29

All year breeding season 9,09 21,43 0,00

Summer breeding 86,36 71,43 100,00

Winter breeding 0,00 7,14 0,00

All year breeding 13,64 21,43 0,00

Solitary 40,91 75,00 71,43

Gregarious 59,09 25,00 28,57