**Supplementary Material**

Conservation of ecosystem services does not secure the conservation of birds in a Peruvian shade coffee landscape

RAF AERTS, SARAH SPRANGHERS and ÇAĞAN H. ŞEKERCIOĞLU

**Contents**

Table S1. Relative frequencies (RF) of preferred habitat and preferred diet of bird species recorded in 12 variable distance transect counts in a coffee agroecosystem in sub-Andean montane forest in SE Peru.

Data file: KML file for Google Earth of the trails used for the bird survey

Table S1.Relative frequencies (RF) of preferred habitat and preferred diet of bird species recorded in 12 variable distance transect counts in a coffee agroecosystem in sub-Andean montane forest in SE Peru.

|  |  |  |  |
| --- | --- | --- | --- |
| Species | RF | Preferred  habitat1 | Preferred  primary diet2 |
| Dusky-Green Oropendola (*Psarocolius atrovirens*) | 1.00 | forest edge | Invertebrate |
| Ruddy Ground Dove (*Columbina talpacoti*) | 1.00 | forest edge | Seed |
| Turkey Vulture (*Cathartes aura*) | 0.92 | open habitat. field. pasture | Scavenge |
| Crested Oropendola (*Psarocolius decumanus*) | 0.83 | forest edge and second growth | Fruit |
| Silver-Beaked Tanager (*Ramphocelus carbo*) | 0.83 | forest edge and second growth | Fruit |
| Bananaquit (*Coereba flaveola*) | 0.58 | forest edge | Nectar |
| Squirrel Cuckoo (*Piaya cayana*) | 0.58 | humid and semihumid forest | Invertebrate |
| Purplish Jay (*Cyanocorax cyanomelas*) | 0.50 | river edge. second growth. forest edge | Omnivore |
| Andean Cock-Of-The-Rock (*Rupicola peruvianus*) | 0.42 | humid montane forest | Fruit |
| Bluish-Fronted Jacamar (*Galbula cyanescens*) | 0.42 | treefall gaps and edges | Invertebrate |
| Fork-Tailed Woodnymph (*Thalurania furcata*) | 0.42 | interior and canopy of humid forest | Nectar |
| Magpie Tanager (*Cissopis leverianus*) | 0.42 | forest edge and second growth | Fruit |
| Military Macaw (*Ara militaris*) | 0.42 | humid montane forest | Fruit |
| Paradise Tanager (*Tangara chilensis*) | 0.42 | forest and second growth | Fruit |
| Rufous-Rumped Foliage Gleaner (*Philydor erythrocercum*) | 0.42 | forest | Invertebrate |
| Swallow-Tailed Kite (*Elanoides forficatus*) | 0.42 | above forest canopy | Invertebrate |
| Black Antbird (*Cercomacra serva*) | 0.33 | second growth | Invertebrate |
| Blue-Crowned Trogon (*Trogon curucui*) | 0.33 | forest edge and second growth | Invertebrate |
| Blue-Necked Tanager (*Tangara cyanicollis*) | 0.33 | forest edge | Fruit |
| House Wren (*Troglodytes aedon*) | 0.33 | open | Invertebrate |
| Masked Crimson Tanager (*Ramphocelus nigrogularis*) | 0.33 | second growth near water | Fruit |
| Masked Tityra (*Tityra semifasciata*) | 0.33 | Forest | Invertebrate |
| Yellow-Browed Sparrow (*Ammodramus aurifrons*) | 0.33 | edges. pastures | Invertebrate |
| Black-Capped Parakeet (*Pyrrhura rupicola*) | 0.25 | forest | Fruit |
| Blue Dacnis (*Dacnis cayana*) | 0.25 | forest. forest edge and second growth | Fruit |
| Blue-Headed Parrot (*Pionus menstruus*) | 0.25 | humid forest and forest edge | Seed |
| Orange-Breasted Falcon (*Falco deiroleucus*) | 0.25 | hills | Vertebrate |
| Plumbeous Kite (*Ictinia plumbea*) | 0.25 | humid forest and forest edge | Invertebrate |
| Purple Honeycreeper (*Cyanerpes caeruleus*) | 0.25 | forest | Fruit |
| Social Flycatcher (*Myiozetetes similis*) | 0.25 | forest edge and second growth | Invertebrate |
| Speckled Chachalaca (*Ortalis guttata*) | 0.25 | river edge. second growth. forest edge | Fruit |
| Three-Striped Warbler (*Basileuterus tristriatus*) | 0.25 | humid montane forest | Invertebrate |
| Bay-Headed Tanager (*Tangara gyrola*) | 0.17 | forest | Fruit |
| Bicolored Hawk (*Accipiter bicolor*) | 0.17 | forest | Vertebrate |
| Black-And-White Seedeater (*Sporophila luctuosa*) | 0.17 | grass | Seed |
| Blue-And-White Swallow (*Pygochelidon cyanoleuca*) | 0.17 | broken forest and towns | Invertebrate |
| Blue-Gray Tanager (*Thraupis episcopus*) | 0.17 | forest | Fruit |
| Buff-Throated Saltator (*Saltator maximus*) | 0.17 | forest edge and openings | Invertebrate |
| Channel-Billed Toucan (*Ramphastos vitellinus*) | 0.17 | forest | Fruit |
| Chestnut-Eared Aracari (*Pteroglossus castanotis*) | 0.17 | forest and second growth | Fruit |
| Golden-Bellied Euphonia (*Euphonia chrysopasta*) | 0.17 | humid forest and forest edge | Fruit |
| Gray-Fronted Dove (*Leptotila rufaxilla*) | 0.17 | forest edge | Seed |
| Hooded Siskin (*Carduelis magellanica*) | 0.17 | grass | Seed |
| Little Cuckoo (*Coccycua minuta*) | 0.17 | forest edge and thicket | Invertebrate |
| Long-Tailed Hermit (*Phaethornis superciliosus*) | 0.17 | understory of lowland forest | Nectar |
| Palm Tanager (*Thraupis palmarum*) | 0.17 | palms | Fruit |
| Short-Tailed Pygmy-Tyrant (*Myiornis ecaudatus*) | 0.17 | forest edge | Invertebrate |
| Stripe-Chested Antwren (*Myrmotherula longicauda*) | 0.17 | forest edge | Invertebrate |
| White-Winged Tanager (*Piranga leucoptera*) | 0.17 | humid montane forest | Invertebrate |
| Black-Backed Grosbeak (*Pheucticus aureoventris*) | 0.08 | forest edge | Invertebrate |
| Blue-Naped Chlorophonia (*Chlorophonia cyanea*) | 0.08 | humid montane forest | Fruit |
| Bronze-Green Euphonia (*Euphonia mesochrysa*) | 0.08 | humid montane forest | Fruit |
| Cerulean-Capped Manakin (*Lepidothrix coeruleocapilla*) | 0.08 | humid forest understory | Fruit |
| Chestnut-Backed Antshrike (*Thamnophilus palliatus*) | 0.08 | forest edge and openings | Invertebrate |
| Chestnut-Tipped Toucanet (*Aulacorhynchus derbianus*) | 0.08 | humid montane forest | Fruit |
| Chestnut-Vented Conebill (*Conirostrum speciosum*) | 0.08 | riverine forest edge | Invertebrate |
| Crimson-Crested Woodpecker (*Campephilus melanoleucos*) | 0.08 | forest edge and second growth | Invertebrate |
| Dull-Colored Grassquit (*Tiaris obscurus*) | 0.08 | forest edge | Seed |
| Emerald Toucanet (*Aulacorhynchus prasinus*) | 0.08 | humid montane forest | Fruit |
| Epaulet Oriole (*Icterus cayanensis*) | 0.08 | forest edge | Invertebrate |
| Giant Cowbird (*Molothrus oryzivorus*) | 0.08 | forest edge | Fruit |
| Golden-Bellied Warbler (*Basileuterus chrysogaster*) | 0.08 | humid montane forest | Invertebrate |
| Gray-Capped Flycatcher (*Myiozetetes granadensis*) | 0.08 | forest edge and second growth | Invertebrate |
| Guira Tanager (*Hemithraupis guira*) | 0.08 | forest | Invertebrate |
| Long-Tailed Tyrant (*Colonia colonus*) | 0.08 | forest edge and clearings | Invertebrate |
| Masked Tanager (*Tangara nigrocincta*) | 0.08 | forest and forest edge | Fruit |
| Olivaceous Woodcreeper (*Sittasomus griseicapillus*) | 0.08 | forest understory | Invertebrate |
| Ornate Antwren (*Epinecrophylla ornata*) | 0.08 | thickets | Invertebrate |
| Plain Xenops (*Xenops minutus*) | 0.08 | understory of lowland forest | Invertebrate |
| Plumbeous Pigeon (*Patagioenas plumbea*) | 0.08 | forest interior | Fruit |
| Red-Billed Scythebill (*Campylorhamphus trochilirostris*) | 0.08 | humid forest understory | Invertebrate |
| Red-Stained Woodpecker (*Veniliornis affinis*) | 0.08 | forest interior | Invertebrate |
| Short-Crested Flycatcher (*Myiarchus ferox*) | 0.08 | forest edge and second growth | Invertebrate |
| Streaked Flycatcher (*Myiodynastes maculatus*) | 0.08 | forest edge and clearings | Invertebrate |
| Thick-Billed Euphonia (*Euphonia laniirostris*) | 0.08 | river edge | Fruit |
| Variable Antshrike (*Thamnophilus caerulescens*) | 0.08 | forest edge and openings | Invertebrate |
| Vermilion Flycatcher (*Pyrocephalus rubinus*) | 0.08 | open scrub | Invertebrate |
| White-Backed Fire-Eye (*Pyriglena leuconota*) | 0.08 | forest edge | Invertebrate |
| White-Bellied Woodstar (*Chaetocercus mulsant*) | 0.08 | forest edge | Nectar |
| White-Browed Hermit (*Phaethornis stuarti*) | 0.08 | forest | Nectar |
| White-Crested Elaenia (*Elaenia albiceps*) | 0.08 | forest | Invertebrate |
| White-Flanked Antwren (*Myrmotherula axillaris*) | 0.08 | forest understory and second growth | Invertebrate |
| White-Throated Quail-Dove (*Geotrygon frenata*) | 0.08 | humid montane forest | Seed |
| White-Winged Becard (*Pachyramphus polychopterus*) | 0.08 | forest edge | Invertebrate |
| Yellow-Bellied Tanager (*Tangara xanthogastra*) | 0.08 | forest. forest edge and second growth | Fruit |
| Yellow-Browed Tody-Flycatcher (*Todirostrum chrysocrotaphum*) | 0.08 | forest and second growth | Invertebrate |
| 1,2 Preferred habitat and preferred diet in the analyses follow the world bird ecology database (Sekercioglu 2012). The information in this table was complemented by information in Schulenberg *et al.* (2007). | | | |