



The birds of the Lesio-Louna and Lefini Reserves, Congo: a preliminary analysis



White-bellied Bustard, *Eupodotis senegalensis*, Outarde du Sénégal

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Summary

The birds of the Lesio-Louna and Lefini Reserves, Congo: a preliminary analysis

This report is a preliminary attempt to collate all known information regarding the avifauna of the Lesio-Louna and Lefini Reserves, located approximately 140 km north of Brazzaville in the Batéké Plateaux region of the Republic of Congo. During the period 2002 to 2007, a total of 257 species were recorded. Sixty-nine of these can be added to the list of 240 species given by Dowsett-Lemaire (1997), plus two more species given only by Bailey *et al.* (1996), giving a total of 311 species recorded from the two reserves. Four species are reported for the first time in Congo (Miombo Pied Barbet, Yellow-fronted Tinkerbird, Sladen's Barbet and Martial Eagle).

Resumé

Les oiseaux des Réserves Lesio-Louna et Lefini : une analyse préliminaire

Ce rapport constitue une première tentative pour regrouper toutes les informations connues concernant l'avifaune des Réserves Lesio-Louna et Lefini, situées à environ 140 km au nord de Brazzaville dans la région des Plateaux Bateke en République du Congo. Entre 2002 et 2007, un total de 257 espèces a été enregistré. 69 d'entre elles peuvent compléter la liste de 240 espèces établie par Dowsett-Lemaire (1997), à laquelle s'ajoutent deux espèces supplémentaires données par Bailey *et al.* (1996), ce qui représente un total de 311 espèces enregistrées pour les deux réserves (voir Appendix 7). Quatre espèces sont rapportées pour la première fois au Congo (Barbican du Miombo, Petit Barbu à front jaune, Barbican de Sladen et Aigle martial).

Les 311 espèces enregistrées pour les deux réserves représentent 63 familles différentes. Les familles les plus riches en espèces dans les réserves sont Sylviidae (23 espèces) et Accipitridae (19 espèces), suivies de Nectarinidae (16), Estrilidae (16) et Ploceidae (15). Le statut de nombreuses espèces demeure incertain, mais parmi les 311 espèces, au moins 212 sont résidentes, et 30 à 45 autres pourraient l'être. 20 à 25 sont des espèces migratrices du Paléarctique, et probablement 4 à 15 sont des espèces migratrices du continent africain. Environ 10 espèces sont de rares visiteurs. Toutes les observations connues sur chaque espèce sont exposées et reprendent des notes succinctes sur la distribution, les types d'habitat, les observations à caractère saisonnier et de reproduction, ainsi qu'un résumé des informations issues d'études utilisant la méthode des Listes MacKinnon, de transects par rivière et véhicule, et de tout oiseau pris au filet.

225 listes MacKinnon de 10 espèces chacune ont été établies entre décembre 2003 et avril 2007. 185 d'entre elles ont été réalisées sur 7 sites principaux, parmi lesquels les étangs Iboubikro et Idzoua Inkou abritaient l'avifaune la plus diverse. 175 espèces ont été enregistrées sur les 7 sites. L'espèce la plus communément enregistrée était le Bulbul des jardins, avec un IRV (Indice de Visibilité Relative) $\geq 0,1$ sur les 7 sites, et un IRV moyen de 0,55. Quatre autres espèces ont également été enregistrées sur les 7 sites, mais avec des IRV moyen plus faibles (Martinet noir, Hirondelle à collier, Tourtelette améthystine et Guêpier d'Europe).

Des transects par véhicule ont été effectués le long de deux routes principales, de Iboubikro à Mt Blanc (63 transects), et de Mpoumako à Abio (39). Les pourcentages des observations sont présentés pour une sélection de 25 espèces. En général, les rapaces ont été observés plus souvent entre Mpoumako et Abio, à l'exception du Faucon crécerelle plus souvent observé entre Iboubikro et Mt Blanc. Les Francolin de Finsch et Francolin à gorge rouge ont été plus souvent aperçus entre Iboubikro et Mt Blanc. Les Outardes à ventre noir ont été observées à des

fréquences similaires le long des deux transects, tandis que les Outardes du Sénégal étaient beaucoup plus fréquentes entre Mpoumako et Abio. Le Traquet du Congo a été observé durant plus des trois quarts des déplacements le long de la route Abio/Mpoumako, mais seulement durant le tiers de ceux effectués le long de la route Iboubikro/Mt Blanc. Le Tisserin à menton noir n'a été que rarement observé sur les deux routes.

638 oiseaux ont été pris au filet durant la période d'échantillonnage, représentant 86 espèces différentes, comprenant un pipit pour lequel l'identification spécifique requiert confirmation, et deux souimangas non identifiés. L'espèce la plus fréquemment prise au filet était de loin le Bulbul verdâtre (26,6% de toutes les captures), suivi du Souimanga olivâtre de l'Ouest (9%) et du Bulbul des jardins (5,9%). Le Bulbul verdâtre et le Souimanga olivâtre de l'Ouest étaient également les espèces les plus fréquemment prises au filet en forêt, suivis des Bulbul jaunelore, Cossyphe à calotte rousse, Pririt châtain, Sénégali (ou Grosbec) sanguin et Gobemouche à sourcils blancs. En savane, les espèces les plus fréquemment capturées étaient les Tisserin noir, Beaumarquet à dos jaune, Guêpier à collier bleu, Traquet commandeur, Moineau bridé, Souimanga améthyste et Euplecte à dos d'or. Des 638 oiseaux pris au filet, 39 ont été recapturés, notamment trois qui l'ont été deux fois. 11 oiseaux ont été recapturés plus de deux semaines après la première capture, les périodes les plus longues entre captures étant de 16 semaines (Souimanga olivâtre de l'Ouest), 14 et 12 semaines (toutes deux pour Tchitrec de Bates). Trois oiseaux ont été recapturés à un site autre que celui de la première capture, tous trois ayant été capturés d'abord à Iboubikro, ensuite au camp des écogardes, à environ 600 m sur le côté opposé de la forêt-galerie de la Lesio (Martin-pêcheur pygmée, Bulbul des jardins et Souimanga olivâtre de l'Ouest). Les oiseaux recapturés n'ont pas été pris en compte pour l'analyse de la mue, à l'exception de ceux capturés à des périodes différentes, ce qui représente un total de 647 données de mue. Parmi celles-ci, 171 ont été enregistrées comme mue des primaires, et trois demeurent inconnues. Les observations des mues des primaires sont reprises dans les informations individuelles pour chaque espèce, tandis qu'une présentation préliminaire simple du caractère saisonnier de la mue est fournie. Il semble qu'une saison de mue majeure commence en octobre chez les oiseaux des savanes, suivie d'une période de plus petite activité durant la saison sèche. Par exemple, plusieurs espèces de Ploceidae, telles des euplectes et travailleurs, ont des plumages de reproduction distincts arborés durant la saison des pluies, plus ou moins de novembre à mai, avant de muer en un plumage de non reproduction pour la saison sèche. De nombreux oiseaux de forêt semblent également muer entre octobre et décembre, mais la tendance est moins nette que pour les oiseaux des savanes, et plusieurs ont aussi été observés en mue durant la saison sèche.

Tant la découverte d'espèces de savanes arbustives d'Afrique méridionale, telles le Barbican du Miombo, que celle d'espèces de forêt humide d'Afrique centrale, telles le Barbican de Sladen, abondent dans le sens de la catégorisation par Dowsett-Lemaire (2001) des Plateaux Bateke comme partie de la zone de transition Guinéo-Congolienne/Zambézienne de White (1983). Le mélange de ces deux majeures avifaunes africaines sur les Plateaux résulte en une communauté aviaire hautement diversifiée, bien que la richesse générale en espèces soit pauvre en comparaison avec d'autres sites du Congo abritant des avifaunes forestières beaucoup plus complètes.

Par conséquent, dans une optique de conservation, l'avifaune de savane des deux réserves présente une valeur plus élevée que celle de forêt. Comme partout ailleurs sur les Plateaux Bateke, les réserves sont un refuge important pour les Tisserin à menton noir, Francolin de Finsch et Traquet du Congo. Toujours en matière de conservation, parmi d'autres espèces intéressantes, l'observation unique d'une Hirondelle de Brazza, seulement la cinquième donnée publiée pour le Congo, suggère que l'espèce visite les deux réserves en-dehors de sa période de reproduction. Le Guêpier à tête noire, l'une des plus grandes espèces de la famille et peut-être la

plus rare, est relativement commun, se reproduisant dans des trous creusés à même le sol sableux à la lisière de la forêt-galerie. A part la chasse au gibier, les menaces majeures pesant sur les oiseaux des réserves semblent être le brûlage excessif des zones savanicoles, souvent quatre ou cinq fois par an, et la déforestation des falaises le long de la limite orientale de la Réserve Lesio-Louna pour la production de charbon de bois et les plantations.

Les Réserves Lesio-Louna et Lefini n'abritent pas une communauté aviaire particulièrement riche en espèces, et les visiteurs sont souvent surpris par l'apparente absence d'une avifaune bruyante et visible. Cependant, avec temps et effort, les réserves peuvent permettre à un ornithologue enthousiaste d'entrevoir une diversité satisfaisante et unique d'espèces forestières et savanicoles, comprenant notamment de grandes espèces de savanes telles l'Outarde à ventre noir et l'Outarde du Sénégal, des espèces endémiques des savanes d'Afrique centrale telles les Traquet du Congo, Francolin de Finsch et Tisserin à menton noir, des spécialités rarement observées telles les Guêpier à tête noire et Barbican de Sladen, des favoris des forêts tels le Perroquet gris et des espèces variées de calaos et touracos, une mine de martin-pêcheurs, barbicans, petits barbus, souimangas, euplectes ou tisserins, sans oublier le spectacle extraordinaire de la migration annuelle de milliers de Cigognes d'Abdim entre février et mai. Explorer la diversité des habitats des deux réserves est la clé pour en apprécier la diversité de l'avifaune, depuis la forêt-galerie de la Lesio et les étangs saisonniers à Iboubikro, la savane arborée cernant l'îlot forestier d'Idzoua Inkou, le marais herbeux et la savane à *Hyparrhenia* environnante du Mt Blanc, les plaines herbeuses à *Loudetia* entre Mpoumako et Abio, et la sinuueuse rivière Louna entre le camp Abio et l'île Abio. Avec un peu plus d'effort, les impressionnantes escarpements des Mt Abio, Mt Epopé et Mt Ngaka augmentent les chances d'apercevoir des rapaces et hirondelles. Pour les plus aventureux, les forêts sur les falaises le long de la limite orientale de la Réserve Lesio-Louna ont jusqu'à présent été peu visitées, et doivent probablement abriter d'autres espèces forestières non encore enregistrées. De la même manière, le Lac Sampion a été insuffisamment étudié, tout comme l'entièreté des secteurs nord et est de la Réserve Lefini. Bien que ce rapport accroisse de façon non négligeable notre connaissance des oiseaux des Réserves Lesio-Louna et Lefini, beaucoup reste encore à découvrir et toutes les données fiables sur la zone devraient être regroupées et transmises aux autorités en charge, telles la Société Ornithologique d'Afrique de l'Ouest ou l'« African Bird Club ».



Violet-backed Starling, *Cinnyricinclus leucogaster*, Spréo améthyste

Introduction

The Lesio-Louna and Lefini Reserves lie approximately 140 km north of Brazzaville in the Republic of Congo (fig 1). The two reserves form part of the Batéké Plateaux, an area of rolling savanna and patchy forest extending from south-west Gabon across central Congo and extending into the Democratic Republic of Congo. This region is well-known amongst ornithologists for the unique diversity of its avifauna (Dowsett-Lemaire 1997, 2001, Christy 2001b), which may be

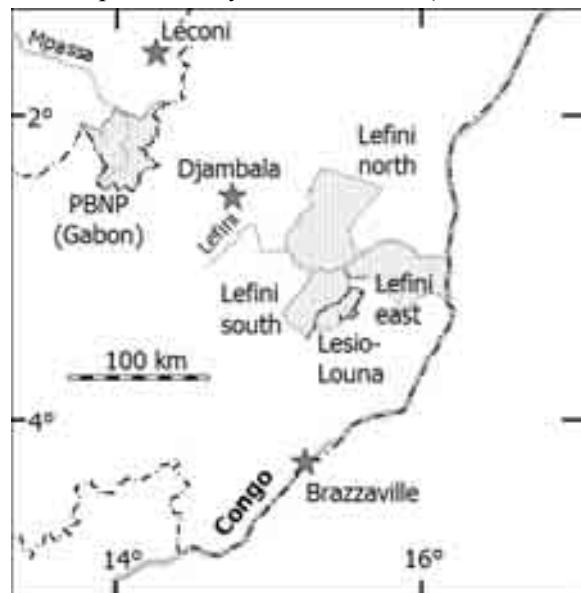


Fig 1. Location of the Lesio-Louna and Lefini Reserves in the Republic of Congo, and other sites mentioned in the text, including the Plateaux Batéké National Park (PBNP) in Gabon.

attributed to the diversity of forest and grassland-woodland habitats in the area. These varied habitats support elements of both the Guinea-Congo forest biome and Zambezian (southern grassland/woodland) biome avifaunas (Fishpool & Evans 2001), and the presence of certain near-endemics of the Zambezian biome, such as Sousa's Shrike *Lanius souzae* and Tinkling Cisticola *Cisticola rufilatus*, prompted Dowsett-Lemaire (2001) to categorise the Batéké Plateaux as part of the Guinea-Congolian/Zambezian transition zone of White (1983). The richness of the savanna avifauna of the Batéké Plateaux was one of the principle reasons for the classification of the Lesio-Louna and Lefini Reserves as an "Important Bird Area" (IBA) of Congo (Dowsett-Lemaire 2001), the Bombo-Lumene Game Reserve as an IBA in DRC (Demey & Louette 2001), and for the creation of the Plateaux Batéké National Park (PBNP) in Gabon (Christy 2001b).

Despite the internationally recognised diversity and importance of the Batéké Plateaux avifauna, in reality very little is known about it. The main reports available for Gabon give 267 species for the zone around Léconi (Christy 2001b) and 218 species for the PBNP (Christy 2001b, King 2007b). In Congo, Dowsett-Lemaire (1997) gives a list of 240 species for the Lefini Reserve, based primarily on a week-long visit to the Mâh and Lac Bleu region of the Lesio-Louna Reserve, and a further nine species were added by King *et al.* (2004). King *et al.* (2004) also provide information on timing of moult amongst forest and savanna birds, based on a small mist-net survey during 2002.

The current report is a preliminary attempt to collate all known information regarding the avifauna of the Lesio-Louna and Lefini Reserves in Congo, including records of another 60 species newly reported for the reserves, plus a preliminary analysis of seasonality, breeding, moult and morphological data collected during the period 2002 to 2007. This report, and any responses to it, will be used as the base of a subsequent, more detailed report at a later date.

Legislation and Management of the Lesio-Louna and Lefini Reserves

The Lefini Reserve was created in 1951, covering approximately 400,000 ha, with the original aims of "saving from destruction the wildlife typical of the Batéké Plateaux, and protecting its

forests, basin and watercourses, and to encourage photography of the landscape and live animals” (*Arrêté no 3671 créant une Réserve de Chasse dite « de la Lefini »*, 26/11/1951). Following the request of the Téké King Makoko, the reserve was enlarged to 630,000 ha in 1963 (*Arrêté 0046/MAEEFGR-CH-CN*, 7/1/1963), to include a large area to the east of the previous limits, stretching all the way to the Congo river (fig 1). From this moment, the reserve became known as a Faunal Reserve, rather than a Hunting Reserve. In 1984, a further document (*Arrêté no 7262/MEF/Sgef/PIAF*, 7/8/1984) corroborated the previous laws, removing all user rights from the area (except photography and cinematography) and providing complete protection of the natural resources of the reserve (Ikoli *et al.* 1998). Despite the legislation, the reserve has received very little management or enforcement since its creation.

The Lesio-Louna Reserve is an area of 44,000 ha adjacent to the eastern boundary of the south-west portion of the Lefini Reserve (fig 1). It was created in 1993 through an agreement between The John Aspinall Foundation (JAF) of the UK and the Ministry of Forest Economy and the Environment (MEFE) of the government of Congo, as a sanctuary for the reintroduction of gorillas orphaned by the illegal bush-meat trade (*Protocole d'accord portant création du Sanctuaire Lesio-Louna...*, 28/12/1993). It was upgraded to a Natural Reserve by Presidential Decree in 1999 (*Décret no 99-309 du 31 décembre 1999 portant création et organisation de la réserve naturelle de gorilles de Lésio-Louna*).

The Lesio-Louna reserve is currently managed through a joint JAF-MEFE partnership project, created through a partnership protocol in 2002 (*Protocole d'accord sur l'aménagement et la gestion de la Réserve Naturelle de gorilles de Lésio-Louna*) and officially titled ‘Projet Lesio-Louna’. Since 2003, the Projet Lesio-Louna has also been managing the south-west portion of the Lefini Reserve, with the gradual transfer of the gorilla reintroduction programme from the original Lesio-Louna to the south-west Lefini between 2003 and 2007 (King *et al.* 2006, King & Chamberlain 2007). The northern and eastern sectors remain under the management of MFE, but with little logistical or financial support (Mathot *et al.* 2006).

The aims of the Lesio-Louna Reserve are given in the 1999 Presidential decree creating the reserve, and are fairly standard for protected areas, except for the rather unique addition of gorilla reintroduction:

- To assure, conforming with the two 1993 agreements with JAF, the reintroduction of orphan gorillas;
- To protect the gorillas and the ecosystem of the reserve;
- To organise and promote education, training, outreach, and biodiversity research;
- To promote and develop, in collaboration with appropriate services, tourism;
- To organise, with local community participation, an integrated system of natural resource protection in the reserve.

Site description

The major habitats of the two reserves are open *Loudetia* grassland and lightly wooded *Loudetia* or *Hyparrhenia* grassland, with gallery and swamp forests along the water-courses, plus some patches of dry forest on higher ground (Moutsamboté 1994, 1998, Dowsett-Lemaire 1997, King *et al.* 2004). Much of the wooded grassland is dominated by *Hymenocardia acida*, while other woody species present include *Annona senegalensis*, *Bridelia ferruginea*, *Gardenia ternifolia*, *Syzygium guineense* var. *macrocarpum*, *Maprounea africana*, *Chaetocarpus africanus*, *Nauclea latifolia*, *Strychnos* spp., *Vitex* spp. and *Albizia adianthifolia*.

The climate of the reserves is similar to that elsewhere on the plateaux, with a dry season from late May to September, the heaviest rains in October–November and March–April, with a drier period around January–February (Moutsamboté 1994, Dowsett-Lemaire 1997, King *et al.* 2004). The altitude ranges from 300 m to 750 m. The savanna within and outside the reserve is burned regularly by local users, perhaps four or five times per year in places. These fires can spread into forest patches, particularly in the latter parts of the dry season.

Weather records

Rainfall and temperature was measured from June 2002 to mid-December 2002 at Iboubikro (the base camp for the Lesio-Louna Reserve; summary in King *et al.* 2004), and then rainfall was measured from July 2005 onwards at both Iboubikro and the Confluent camp (at the confluence of the Louna and Lefini rivers in the Lefini Reserve) (fig 2). A long dry season in 2005, with no rain at all in August and the first big rains of the wet season on the 20 September, resulted in savanna fires burning further into forest areas than normal. The year 2006 showed a surprisingly large difference in rainfall between the two sites, with Iboubikro receiving a relatively high 2013 mm, and the Confluent camp 1483 mm. By totalling the mean monthly rainfall for all available data from 2002 to 2006, an ‘average’ annual rainfall for the two reserves can be estimated as 1660 mm (table 1).

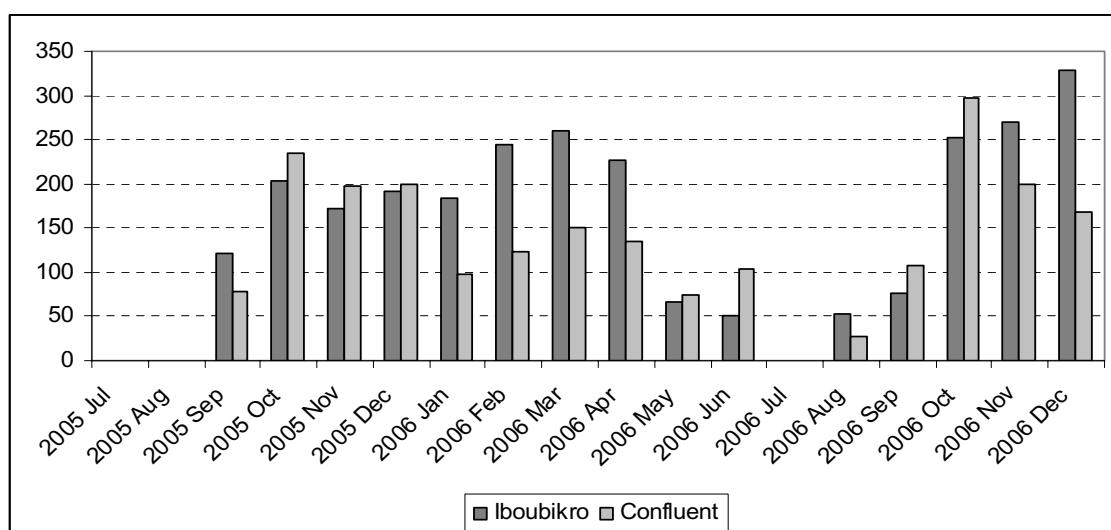


Fig 2. Rainfall in mm for Iboubikro (Lesio-Louna Reserve) and Confluent (Lefini Reserve) from July 2005 to Dec 2006.

Table 1. Monthly rainfall figures available for Iboubikro and Confluent, 2002 to 2006, with mean monthly rainfall calculated

| Month | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|----------------|-------|-----|-------|-----|------|------|-----|-----|-------|-----|-------|-----|-------|
| Iboubikro 2002 | | | | | | | 0 | 30 | 165 | 177 | 247 | | |
| Iboubikro 2005 | | | | | | | 0 | 0 | 121 | 203 | 173 | 191 | |
| Iboubikro 2006 | 184 | 244 | 261 | 227 | 67 | 50 | 0 | 52 | 76 | 253 | 270 | 329 | 2013 |
| Confluent 2005 | | | | | | | 0 | 0 | 79 | 235 | 198 | 199 | |
| Confluent 2006 | 97 | 124 | 150 | 135 | 74 | 103 | 0 | 28 | 107 | 297 | 199 | 169 | 1483 |
| Mean | 140.5 | 184 | 205.5 | 181 | 70.5 | 76.5 | 0 | 22 | 109.6 | 233 | 217.4 | 222 | 1662 |

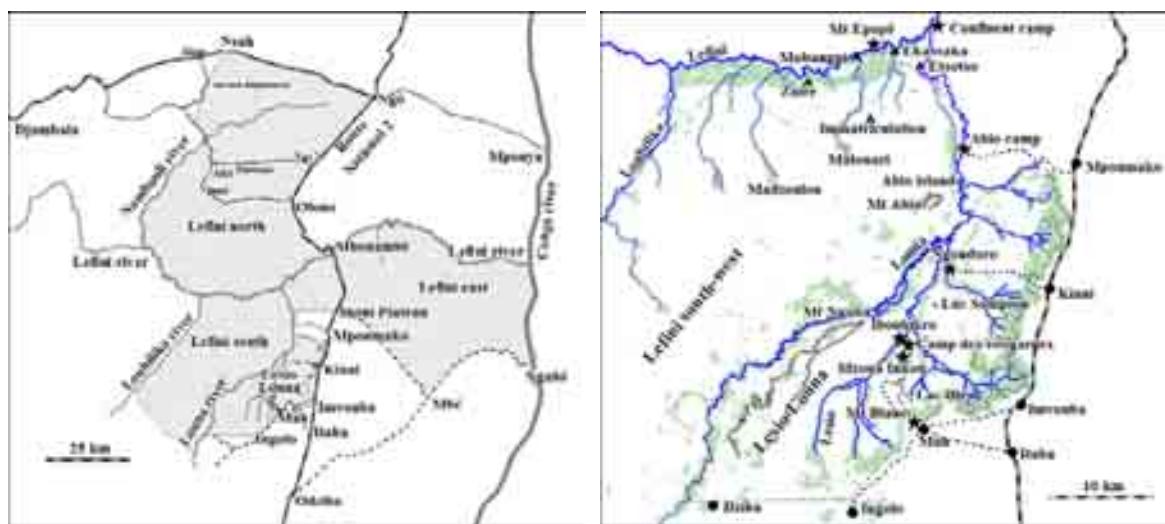


Fig 3. The Lesio-Louna & Lefini Reserves, and selected villages and other features.

Fig 4. Survey sites & other localities in the Lesio-Louna & south-west Lefini Reserves, with forest cover within the study area in green.



Fig 5. Views of the Lesio-Louna & Lefini Reserves: (a) Lefini gallery forest looking south-east from Mt Epopé; (b) Louna gallery forest looking north from Mt Ngaka towards Mt Abio; (c) Abio island on Louna river from Mt Abio; (d) *Loudetia* grassland between Mpoumako and Abio; (e) seasonal ponds at Iboubikro; (f) cliff forests near Mâh from ridge above Lac Bleu. (Photos: A. Sully (a), T. King (b-e), P. King (f))

Methods

Mist-netting

Mist-netting was carried out in the Lesio-Louna Reserve in 2002 (results summarised in King *et al.* 2004), very briefly in 2003, then again from late 2005 to early 2007. Most netting was carried out in the close vicinity of Iboubikro, the base camp for the Lesio-Louna management project (named “Base-Vie” in King *et al.* 2004), and the nearby sites of Camp des ecogardes and Idzoua Inkou. In 2002 (and briefly in 2003), netting was also carried out at Ngondoro, and very briefly at Lac Bleu. Habitats surveyed included gallery forest interior, forest/savanna transition, and lightly wooded savanna. Generally, three to five nets (6 x 2.5 m, 38 mm mesh) were set at a time, almost always at 0.5–5 m from the ground. Birds captured were identified (and sexed and aged by plumage characters if possible) using Borrow & Demey (2001), whose nomenclature we follow. Mass was measured using spring balances to the nearest g, except heavier birds where stated to the nearest 5 g. Wing length was measured to the nearest mm, using a wing-rule and flattening the primaries gently against the rule (following Svensson 1992). Tail length was measured with the reverse side of the wing-rule, to the base of the tail feathers above the undertail coverts (unless otherwise stated). Other measurements were taken using a pair of dial callipers, such as bill length to the feathers of the head (Bill (f)), bill length to the skull (Bill (s)), tarsus, body length (tip of bill to base of tail feathers) and total length (tip of bill to tip of tail). Notes on brood patch were recorded from November 2005 onwards. Moult of flight and tail feathers was noted throughout the sampling period. Each flight and tail feather was assessed, and a bird was recorded as being in moult if at least one primary feather was either growing or still had a sheath. Birds exhibiting primary moult were assigned cumulative scores between 0 and 50 based on a score between 0 and 5 for each primary feather (0 = old feather, 1 = pin, 2 = pin with emerging feather, 3 = half-grown feather, 4 = three-quarter-length feather, 5 = full-grown new feather). Similarly, birds exhibiting secondary moult were assigned cumulative scores between 0 and 30 for most species (with six secondaries), or more for some non-passerines with more than six secondaries. Moult scores presented here are for the left wing; right wing scores were generally but not always similar. Birds were marked with marker pen on the underside of the wings, to allow identification of recaptured birds for up to several weeks after capture.



Figs 6 & 7. Primary & secondary wing moult in Common Bulbul, and tail moult in a Western Olive Sunbird. (Photos: C. Chamberlain)

MacKinnon Lists

A variation on the MacKinnon List method (Bibby *et al.* 1998) was used for quantitative comparisons between species and sites. Various sites were visited on a regular basis, and the first ten bird species seen were noted in sequence of being seen. The proportion of times each species was noted at each site was then used as an ‘Index of Relative Visibility’ (IRV) for the species at that site. The more popular term ‘Index of Relative Abundance’ was not used, as various factors other than abundance affect the Index value, for example the behaviour of the species or the ease of identification. Extreme examples include the Grey Parrot and the African Pied Hornbill which are very vocal and can be seen and identified from great distance, compared to secretive and cryptic species such as many of the small passerines, or species groups that are hard to distinguish except at close quarters such as Blue-Breasted and Little Bee-eaters. Pipits (*Anthus* spp.) were generally excluded from the list samples due to the difficulty of identification. Species that were heard but not seen were not included in the lists, as the competence of the observer was not sufficient to identify many species by voice. Had such species been included, the term ‘Index of Relative Detectability’ would have been appropriate (Turner *et al.* 2002).

Motorised transects

Several routes were used regularly to travel between sites in the two reserves, either by vehicle or by motorised pirogue. These travel routes were utilised as effective transects for the recording of various appropriate species. In the case of vehicle routes, these included bustards, francolins, waders, raptors, and some other selected species of particular interest such as Congo Moor Chat. During the pirogue rides, all species seen could be recorded. These transects allowed the calculation of the percentage chance of seeing a particular species on each route.

Opportunistic observations

While the MacKinnon List method utilised the first ten species seen as the sample for quantitative analysis, all other species seen or heard at the same time were also noted as complementary observations, as were any unusual or interesting observations made *ad hoc* throughout the reserve. Observations included species, maximum group size noted (1, 2, 3-9, 10-29, 30-99, 100+), evidence of breeding (breeding or non-breeding plumage, on nest, feeding juveniles, carrying nest material etc) and any other notable information. Identification of food stuffs was generally difficult, but occasional notes on food plants were made, with botanical identifications based on Nsongola *et al.* (2006).

General results

A total of 257 species were recorded during the period 2002 to 2007. Eight of these species were recorded only during the mist-net survey, including 5 new to the reserves (Yellow-fronted Tinkerbird, Buff-spotted Woodpecker, Red-capped Robin Chat, Fire-crested Alethe, Garden Warbler) and three already given by Dowsett-Lemaire (1997) (Thick-billed Honeyguide, Cabanis' Bunting and *Anthus* sp.). In all, sixty-nine of the species recorded can be added to the list of 240 given by Dowsett-Lemaire (1997), plus two more species given only by Bailey *et al.* (1996) (African Scops Owl, Square-tailed Nightjar), giving a total of 311 species recorded from the two reserves. Fifty-two of the species given by Dowsett-Lemaire (1997) were not recorded during the survey period, including ten based on observations other than her own (Wood Sandpiper, Long-crested Eagle, Montagu's Harrier, Western Grey Plantain-eater, Black Wood-hoopoe, Blue-cheeked Bee-eater, Namaqua Dove, Red-headed Lovebird, Congo Sunbird, Common Waxbill). Four species constitute the first records for Congo (Miombo Pied Barbet, Yellow-fronted Tinkerbird, Sladen's Barbet (King & Chamberlain in press) and Martial Eagle). Full details of all known observations of each species are given in the individual species accounts below.

The 311 species recorded for the two reserves represent 63 different families. The most species-rich families in the reserves are Sylviidae (23 species) and Accipitridae (19 species), followed by Nectariniidae (16), Estrildidae (16) and Ploceidae (15) (table 2).

Table 2. The most species-rich bird families in the Lesio-Louna and Lefini Reserves.

| Family | | Total |
|---------------|-----------------------------|-------|
| Sylviidae | Warblers etc | 23 |
| Accipitridae | Eagles, buzzards, kites etc | 19 |
| Nectariniidae | Sunbirds | 16 |
| Estrildidae | Finches, waxbills etc | 16 |
| Ploceidae | Weavers, widowbirds etc | 15 |
| Cuculidae | Coucals & cuckoos | 14 |
| Alcedinidae | Kingfishers | 13 |
| Ardeidae | Herons, bitterns & egrets | 12 |
| Hirundinidae | Swallows & martins | 12 |
| Pycnonotidae | Bulbuls, greenbulbs etc | 12 |
| Capitonidae | Barbets & tinkerbirds | 10 |
| Columbidae | Doves & pigeons | 9 |
| Meropidae | Bee-eaters | 8 |
| Turdidae | Chats, thrushes etc | 8 |
| Picidae | Woodpeckers | 7 |
| Motacillidae | Pipits, wagtails, longclaws | 7 |
| Muscicapidae | Flycatchers | 6 |

The status of many species remains uncertain, but of the 311 species recorded from the reserves, at least 212 are resident, and another 30-45 may well be. Between 20 and 25 are Palearctic migrants, and probably between 4 and 15 are intra-African migrants. About 10 species are rare visitors. The status given for each species in this preliminary report will be reviewed following expert comments, and will be refined for the final report.

Photographs of many species will be presented in a photographic guide to the birds of the two reserves (King in prep.), but a few photos and descriptions are presented here to facilitate resolution of some debatable or unresolved specific or subspecific identifications.

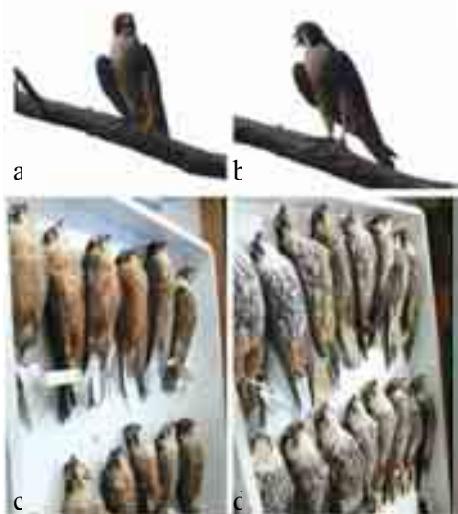


Fig 8. (a,b) *Falco* sp., 6 Feb 2007;
(c) African hobby & (d) Eurasian
Hobby (Photos: T. King, c & d ©
Natural History Museum)



Fig 9. (a) Purple-banded Sunbird; (b)
Orange-tufted Sunbird; (c,d,e) *Cinnyris* sp. 1
Mar 2007 (Photos: T. King, a & b © Natural
History Museum)



Fig 10. Hairy-breasted Barbet pair,
Dec 2004 (Photos: T. King)



Fig 11. Hairy-breasted Barbet, 15
Feb 2007 (Photos: T. King)



Fig 12. Hairy-breasted Barbet
Tricholaema hirsuta races:
(a) *ansorgii*
(b) *hirsuta*
(c) *flavipunctata*
(d) *angolensis*
(Photos: T. King, © Royal Museum
of Central Africa, Tervuren)

Common Kestrel, Falconidae, *Falco tinnunculus*



Most observations of Common Kestrel were made from large distances, and so subspecific identification was not possible. However, a pair seems to be resident in the zone between Iboubikro and Mâh, being recorded in all months of the year except May, June and September, and is therefore most probably the afrotropical race *rufescens* (fig 13). On the other hand, a male observed perched in a savanna tree the 11 Mar 2007 along the track between Mpoumako and Abio appeared to have a plain (not-barred) grey tail, which suggests it may have been of the Palearctic race *tinnunculus*.

Fig 13. Female Common Kestrel,
Dec 2005 (Photo: T. King)

African Hobby, Falconidae, *Falco cuvierii*

A single falcon *Falco* sp. was observed perched at dusk at the top of a dead tree at the confluent camp 6 Feb 2007 (fig 8). The photos are poor due to the bad light, but most experts suggested that the bird was a hobby. The bird was vocal, and relatively lightly streaked on the underparts, both of which suggest that it is an African Hobby *F. cuvierii* rather than the Palearctic migrant Eurasian Hobby *F. subbuteo*.

Grey-headed Kingfisher, Alcedinidae, *Halcyon leucocephala*



Fig 14. Grey-headed Kingfisher; (a) Mt Blanc 16 Apr 2007; (b) Iboubikro 5 Aug 2006; (c) Iboubikro 29 May 2005 (Photos: T. King)

Singlets of Grey-headed Kingfisher were seen in wooded grassland throughout the two reserves, including Iboubikro camp, Idzoua Inkou, Mt Blanc and Etsotso. Of a total of 18 observations, 17 were during the 4 month period mid-April to early August, with the only exception a single observation at Idzoua Inkou the 21 Dec 2005. In July of both 2005 and 2006, one was observed daily for at least a week within Iboubikro camp. Therefore it is clear that the majority of individuals of this species are migrants. Comparison of the photos (fig 14) with

museum specimens should resolve the subspecific placement of these birds, which are either the *leucocephala* race, which has a bright chestnut belly, or the southern *pallidiventris* race, which has a paler grey head and a pale chestnut belly, and has been reported as a non-breeding visitor in S Congo (Borrow & Demey 2001). Unfortunately, no photo is available for the one observation in December.

Hairy-breasted Barbet, Capitonidae, *Tricholaema hirsuta*



Fig 15. Approximate distributions of the four recognised subspecies of Hairy-breasted Barbet, with the Batéké Plateaux region in red (from King submitted)

Summary from King (submitted) (see figs 10, 12 & 15): In December 2005, a pair of Hairy-breasted Barbets *Tricholaema hirsuta* was observed excavating a hole in a dead tree in the Lesio-Louna Reserve, Republic of Congo. Photographs of both individuals are presented here. In one of the pair the moustachial stripe is broad and distinct, while the supercilium consists of just four small white streaks. In the other, the supercilium is much more distinct, although still broken into four streaks, while the moustachial stripe is non-existent towards the bill, but is apparent near the shoulder. Both birds possess strong yellow spotting on the forehead through to the nape and back. The upperparts of the first bird appear fairly brown, with no great contrast with the underparts, while the second appears blacker above and yellower below. Both birds have a whitish throat mottled black. These characters suggest that the birds are intermediate between the *ansorgii* race and either the *flavipunctata* or the *angolensis* race.

A further individual was photographed at Iboubikro the 15 Feb 2007 (fig 11) appeared to have a generally black head, with only a hint of a white supercilium, some yellow speckling on the nape, a mottled whitish throat, a blackish-brown back and yellowish underside. Again, these characters suggest an intermediate form.

Orange-tufted Sunbird, Nectariniidae, *Cinnyris bouvieri*

A sunbird photographed 1 Mar 2007 on the road along northern boundary of Lefini north appears to be an orange-tufted sunbird *C. bouvieri* (King 2007b). The large extent of the iridescent green, covering the entire head, throat, mantle and wing coverts, excludes green-headed and green-throated sunbirds; the long bill and dark belly excludes green and collared sunbirds; the lack of a broad bright red breast band excludes olive-bellied and Congo sunbirds. The only sunbirds known from western and western central Africa with the combination of green head, throat and mantle, dark purple breast band and dark belly are Palestine, purple-banded and orange-tufted sunbirds. However, only the orange-tufted has a dark brown, rather than black, belly, and the small bluish forehead and throat patches apparent in the photos (fig 9).

Village Weaver, Ploceidae, *Ploceus cucullatus*



Fig 16. Male village weaver, 27 Dec 2005 (Photos: T. King).

The male village weaver in breeding plumage netted at camp des ecogardes the 27 Dec 2005 exhibited a broad chestnut breast band and only a very thin strip of chestnut on the back of the neck (fig 16). It therefore appears to be of the race *collaris* (known from coastal Gabon to S Congo after Borrow & Demey 2001), rather than of the race *bohndorffii* known from most of Gabon and Congo. However, the mantle is not as heavily marked as the figure of *collaris* shown in Borrow & Demey (2001). This subspecific placement should be verified by examination of museum specimens.

Holub's Golden Weaver, Ploceidae, *Ploceus xanthops*

A large, fairly plain yellow weaver was photographed 16 Apr 2007, between Mâh and Imvouba, in rank plateau grassland. The photos show the bird to have a yellow head, black beak, thin black eye-stripe, pale eye, orangey throat, yellow breast, belly & undertail coverts, rest of undertail dark, darkish wings, and pink legs (fig 17). A female slender-billed weaver has blackish legs and a dark eye, a female lesser masked weaver has bluish-grey legs, horn-coloured beak and a whitish vent, a non-breeding male village weaver has a dark red eye, a female spectacled weaver has a thick eye-stripe and blackish legs. A male orange weaver has a deeper orange tinge to the head and underparts. Therefore it is most likely a male Holub's golden weaver, although the thin eye-stripe is not apparent in Borrow & Demey (2001) or Sinclair & Ryan (2003). Examination of museum specimens will be useful, as will attempts to identify the nests in the photo. Previous observations of Holub's golden weaver in the area included this description of a pair at Mt Blanc the 6 Jan 2006: "two large, bright yellow weavers, black bill, one with reddish throat patch".



Fig 17. *Ploceus* sp., 16 Apr 2007 (Photos: T. King).

MacKinnon List Results

A total of 225 lists of 10 species were completed between December 2003 and April 2007. There was an uneven sampling effort between months of the year, with many lists carried out between November and February, and few between May and August (fig 18). 185 of these lists were conducted at 7 sites, the remaining 40 lists at a further 20 sites. Only the 7 most frequently visited sites will be used in the analysis.

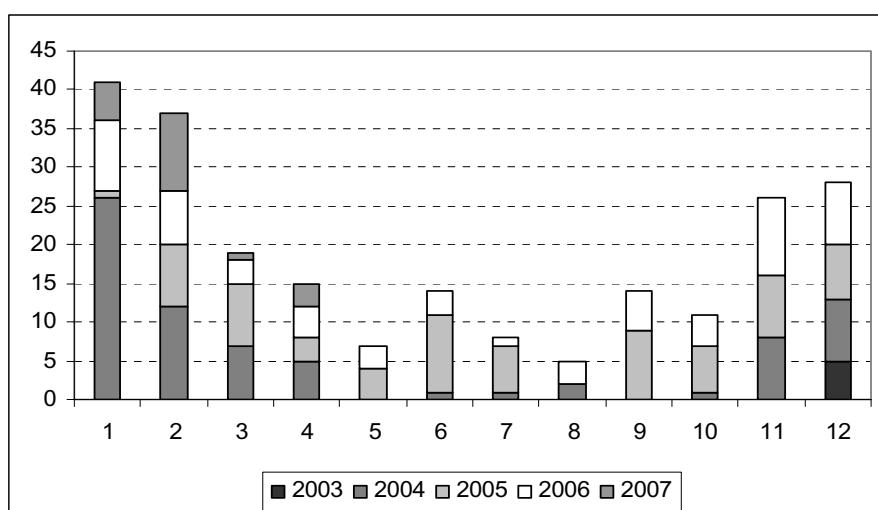


Fig 18. Number of lists of 10 species completed by month.

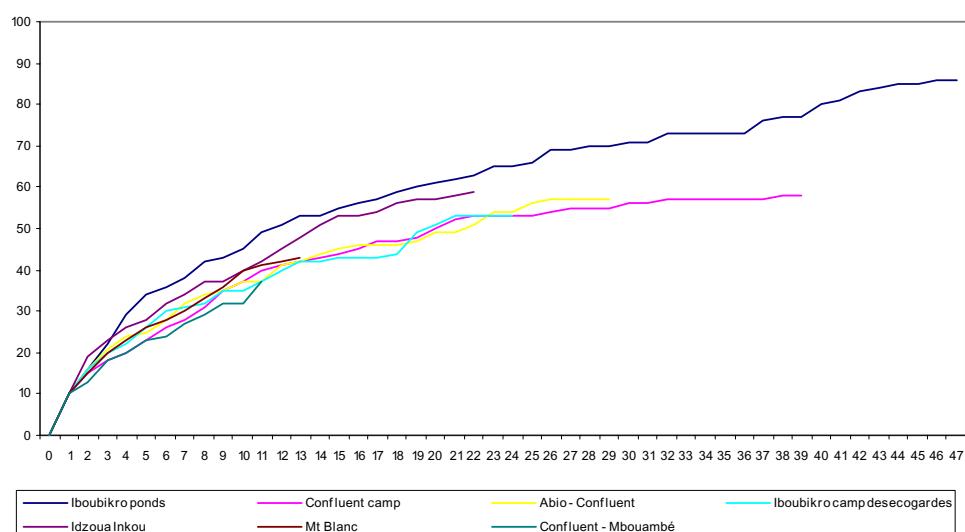


Fig 19. Species discovery curves for each site (species totals by number of completed lists).

The most frequently visited site was Iboubikro ponds, with 47 lists, followed by confluent camp (39 lists), Louna river from Abio camp to confluent camp (29), camp des ecogardes (24), Idzoua Inkou (22), Mt Blanc (13) and Lefini river from confluent camp to Mbouambé (13). Of the five most frequently-visited sites, Iboubikro ponds and Idzoua Inkou supported the most diverse avifauna, with 63 and 59 species respectively recorded after 22 lists, while the other three sites exhibited very similar diversities with 51 to 53 species each after the same number of lists (fig 19).

175 species were recorded at the 7 principle sites (appendix 1), and a further 4 at the remaining sites. The most commonly recorded species was the common bulbul, with an IRV ≥ 0.1 at all 7 sites, and a mean IRV of 0.55 (table 3). Four other species were also recorded at all 7 sites, but with lower mean IRVs (Common Swift, Banded Martin, Blue-spotted Wood Dove and European Bee-eater).

Table 3. Indices of Relative Visibility (IRVs) for 33 bird species recorded at 4 or more of the 7 sites.

| English name | Abio - Confluent | Confluent - Mbouambe | Confluent camp | Ibouibkro ponds | Camp des eogardes | Idzoua | Inkou | Mt Blanc | Sites | Mean IRV |
|--------------------------------|------------------|----------------------|----------------|-----------------|-------------------|--------|-------|----------|-------|----------|
| Common Bulbul | 0.52 | 0.18 | 0.62 | 0.81 | 0.46 | 0.50 | 0.77 | 7 | 0.55 | |
| Common Swift | 0.24 | 0.45 | 0.28 | 0.15 | 0.08 | 0.23 | 0.08 | 7 | 0.22 | |
| Banded Martin | 0.38 | 0.09 | 0.03 | 0.04 | 0.17 | 0.05 | 0.62 | 7 | 0.20 | |
| Blue-spotted Wood Dove | 0.07 | 0.18 | 0.18 | 0.19 | 0.04 | 0.14 | 0.15 | 7 | 0.14 | |
| European Bee-eater | 0.14 | 0.09 | 0.08 | 0.09 | 0.13 | 0.09 | 0.15 | 7 | 0.11 | |
| Bronze Mannikin | 0.10 | 0.09 | | 0.28 | 0.38 | 0.27 | 0.54 | 6 | 0.24 | |
| Red-eyed Dove | 0.10 | 0.09 | 0.26 | 0.26 | 0.42 | 0.45 | | 6 | 0.23 | |
| Rufous-chested Swallow | 0.10 | 0.09 | | 0.02 | 0.17 | 0.05 | 0.08 | 6 | 0.07 | |
| Grey Parrot | 0.62 | 0.82 | 1.00 | 0.19 | 0.33 | | | 5 | 0.42 | |
| Copper Sunbird | | | 0.23 | 0.23 | 0.33 | 0.05 | 0.85 | 5 | 0.24 | |
| Yellow-mantled Widowbird | 0.03 | | | 0.02 | 0.42 | 0.23 | 0.92 | 5 | 0.23 | |
| African Pied Hornbill | 0.34 | 0.45 | 0.31 | 0.23 | 0.21 | | | 5 | 0.22 | |
| Blue-breasted Bee-eater | 0.10 | | | 0.02 | 0.42 | 0.14 | 0.62 | 5 | 0.18 | |
| African Green Pigeon | 0.17 | 0.36 | 0.31 | 0.09 | | 0.09 | | 5 | 0.15 | |
| Broad-billed Roller | 0.28 | 0.27 | 0.21 | 0.02 | 0.13 | | | 5 | 0.13 | |
| Cinnamon-breasted Rock Bunting | | | | 0.18 | 0.11 | 0.42 | 0.05 | 0.08 | 5 | 0.12 |
| Vieillot's Black Weaver | 0.03 | 0.27 | | | 0.02 | 0.38 | | 0.08 | 5 | 0.11 |
| African Palm Swift | | 0.18 | | | 0.13 | 0.08 | 0.05 | 0.08 | 5 | 0.07 |
| Green-throated Sunbird | | | 0.15 | 0.09 | 0.04 | 0.09 | 0.08 | | 5 | 0.06 |
| White-throated Blue Swallow | 1.00 | 1.00 | 0.38 | | 0.04 | | | | 4 | 0.35 |
| Woodland Kingfisher | 0.38 | 0.64 | 0.82 | 0.43 | | | | | 4 | 0.32 |
| Sooty Chat | 0.21 | | | | 0.75 | 0.41 | 0.23 | | 4 | 0.23 |
| Orange-cheeked Waxbill | 0.03 | | | 0.34 | 0.21 | | 0.85 | | 4 | 0.20 |
| Reichenbach's Sunbird | 0.14 | 0.09 | 0.49 | 0.70 | | | | | 4 | 0.20 |
| Hamerkop | 0.48 | 0.09 | 0.05 | 0.28 | | | | | 4 | 0.13 |
| Yellow-throated Longclaw | 0.03 | | | 0.09 | 0.63 | 0.14 | | | 4 | 0.13 |
| Violet-backed Starling | 0.03 | | | 0.04 | 0.04 | 0.55 | | | 4 | 0.09 |
| Tawny-flanked Prinia | | | | 0.06 | 0.33 | 0.18 | 0.08 | | 4 | 0.09 |
| Western Bronze-naped Pigeon | 0.14 | 0.27 | 0.15 | 0.09 | | | | | 4 | 0.09 |
| Violet-tailed Sunbird | 0.03 | 0.09 | 0.28 | 0.17 | | | | | 4 | 0.08 |
| Black-headed Bee-eater | 0.24 | 0.09 | 0.05 | | 0.04 | | | | 4 | 0.06 |
| African Pygmy Kingfisher | 0.03 | | 0.13 | 0.13 | | 0.05 | | | 4 | 0.05 |
| Piping Hornbill | 0.03 | | 0.15 | 0.04 | 0.04 | | | | 4 | 0.04 |

Site descriptions

The lists of most frequently recorded species at the three sites on the Louna and Lefini rivers are made up of a mixture of water-loving birds, including White-throated Blue Swallow, Cassin's Flycatcher, Giant and Pied Kingfisher, forest birds, such as Grey Parrot, African Pied Hornbill, Swamp Palm Bulbul and African Green Pigeon, and ubiquitous species such as Common Bulbul, Woodland Kingfisher and the Palearctic migrant Common Swift (tables 4 & 5).

Table 4. Indices of Relative Visibility (IRVs) for the most frequently recorded species along the Louna river between Abio and confluent, and along the Lefini river between confluent and Mbouambé.

| | Abio – Confluent | | Confluent – Mbouambé | |
|----|-----------------------------|------|------------------------------|------|
| 1 | White-throated Blue Swallow | 1.00 | White-throated Blue Swallow | 1.00 |
| 2 | Cassin's Flycatcher | 0.90 | Grey Parrot | 0.82 |
| 3 | Grey Parrot | 0.62 | Little Swift | 0.82 |
| 4 | Giant Kingfisher | 0.52 | Cassin's Flycatcher | 0.64 |
| 5 | Common Bulbul | 0.52 | Woodland Kingfisher | 0.64 |
| 6 | Hamerkop | 0.48 | African Pied Hornbill | 0.45 |
| 7 | Banded Martin | 0.38 | Common Swift | 0.45 |
| 8 | Woodland Kingfisher | 0.38 | Swamp Palm Bulbul | 0.45 |
| 9 | Pied Kingfisher | 0.38 | Lesser Striped Swallow | 0.45 |
| 10 | African Pied Hornbill | 0.34 | African Green Pigeon | 0.36 |
| 11 | Swamp Palm Bulbul | 0.31 | Pied Kingfisher | 0.36 |
| 12 | Broad-billed Roller | 0.28 | Broad-billed Roller | 0.27 |
| 13 | Black-headed Bee-eater | 0.24 | Giant Kingfisher | 0.27 |
| 14 | Common Swift | 0.24 | Western Bronze-naped Pigeon | 0.27 |
| 15 | Sooty Chat | 0.21 | Vieillot's Black Weaver | 0.27 |
| 16 | African Green Pigeon | 0.17 | Village Weaver | 0.18 |
| 17 | Abdim's Stork | 0.17 | Northern Grey-headed Sparrow | 0.18 |
| 18 | Green-backed Heron | 0.17 | African Palm Swift | 0.18 |
| 19 | Black Bee-eater | 0.14 | Common Bulbul | 0.18 |
| 20 | Western Bronze-naped Pigeon | 0.14 | Blue-spotted Wood Dove | 0.18 |
| 21 | Marsh Widowbird | 0.14 | | |
| 22 | European Bee-eater | 0.14 | | |
| 23 | Reichenbach's Sunbird | 0.14 | | |
| 24 | African Jacana | 0.10 | | |
| 25 | Blue-breasted Bee-eater | 0.10 | | |
| 26 | Bronze Mannikin | 0.10 | | |
| 27 | Common Sandpiper | 0.10 | | |
| 28 | Black Kite | 0.10 | | |
| 29 | Rufous-chested Swallow | 0.10 | | |
| 30 | Purple Heron | 0.10 | | |
| 31 | Red-eyed Dove | 0.10 | | |

Human-associated species were regularly recorded on the Lefini river towards the village of Mbouambé, such as Little Swift, Vieillot's Black Weaver, Village Weaver, Northern Grey-headed Sparrow and African Palm Swift. The Louna river passes through more areas of grassland than the Lefini river, hence the presence of grassland species such as Banded Martin, Sooty Chat and Marsh Widowbird. Species such as Hamerkop and Black-headed Bee-eater were more frequently recorded along the Louna river than elsewhere, while Grey Parrot was more often recorded along the Lefini river. While the Abio-Confluent and Confluent-Mbouambé sites were assessed by boat, the confluent camp site was assessed in a more sedentary manner, hence

the prominence of smaller species such as Olive-bellied, Reichenbach's, Violet-tailed and Copper Sunbirds, Little Greenbul and Speckled Tinkerbird.

Table 5. Indices of Relative Visibility (IRVs) for the most frequently recorded species at sites Confluent camp and Iboubikro ponds.

| | Confluent camp | | Iboubikro ponds | |
|----|-----------------------------|------|-----------------------------|------|
| 1 | Grey Parrot | 1.00 | Common Bulbul | 0.81 |
| 2 | Woodland Kingfisher | 0.82 | Reichenbach's Sunbird | 0.70 |
| 3 | Olive-bellied Sunbird | 0.74 | Olive-bellied Sunbird | 0.62 |
| 4 | Common Bulbul | 0.62 | Woodland Kingfisher | 0.43 |
| 5 | Reichenbach's Sunbird | 0.49 | Winding Cisticola | 0.43 |
| 6 | Little Greenbul | 0.41 | African Jacana | 0.40 |
| 7 | White-throated Blue Swallow | 0.38 | Orange-cheeked Waxbill | 0.34 |
| 8 | African Green Pigeon | 0.31 | Bronze Mannikin | 0.28 |
| 9 | African Pied Hornbill | 0.31 | Hamerkop | 0.28 |
| 10 | Common Swift | 0.28 | Western Olive Sunbird | 0.28 |
| 11 | Violet-tailed Sunbird | 0.28 | Red-eyed Dove | 0.26 |
| 12 | Red-eyed Dove | 0.26 | African Pied Hornbill | 0.23 |
| 13 | Copper Sunbird | 0.23 | Copper Sunbird | 0.23 |
| 14 | Speckled Tinkerbird | 0.21 | Green-headed Sunbird | 0.21 |
| 15 | Broad-billed Roller | 0.21 | Senegal Coucal | 0.21 |
| 16 | Giant Kingfisher | 0.21 | Blue-spotted Wood Dove | 0.19 |
| 17 | Pied Kingfisher | 0.18 | Grey Parrot | 0.19 |
| 18 | Blue-spotted Wood Dove | 0.18 | White-winged Black Tit | 0.17 |
| 19 | Swamp Palm Bulbul | 0.18 | Violet-tailed Sunbird | 0.17 |
| 20 | Cassin's Flycatcher | 0.18 | Yellow-throated Tinkerbird | 0.17 |
| | Cinnamon-breasted Rock | | | |
| 21 | Bunting | 0.18 | Green Crombec | 0.15 |
| 22 | Green-throated Sunbird | 0.15 | Common Swift | 0.15 |
| 23 | Piping Hornbill | 0.15 | Little Grebe | 0.13 |
| 24 | Western Bronze-naped Pigeon | 0.15 | African Pygmy Kingfisher | 0.13 |
| 25 | Long-tailed Hawk | 0.13 | Speckled Tinkerbird | 0.13 |
| 26 | Collared Sunbird | 0.13 | Collared Sunbird | 0.13 |
| 27 | African Pygmy Kingfisher | 0.13 | African Palm Swift | 0.13 |
| 28 | Afep Pigeon | 0.10 | Bates's Paradise Flycatcher | 0.11 |
| 29 | Yellow-crested Woodpecker | 0.10 | Black-throated Seedeater | 0.11 |
| | | | Cinnamon-breasted Rock | |
| 30 | Splendid Glossy Starling | 0.10 | Bunting | 0.11 |
| 31 | Fraser's Forest Flycatcher | 0.10 | Marsh Widowbird | 0.11 |
| 32 | Velvet-mantled Drongo | 0.10 | | |

The Iboubikro ponds site was dominated by forest edge or thicket and wooded grassland species, plus a few species associated with water such as Winding Cisticola, African Jacana, Hamerkop and Little Grebe (table 5). Of the two wooded grassland sites (table 6), Idzoua Inkou supported the more diverse avifauna, with species such as Violet-backed Starling, Black-headed Batis, Amethyst Sunbird and Green-capped Eremomela featuring in the top-ten most visible species. The camp des ecogardes site supported a variety of more open grassland species, such as Yellow-throated Longclaw, Bronze Mannikin, Tawny-flanked Prinia and Croaking Cisticola.

Table 6. Indices of Relative Visibility (IRVs) for the most frequently recorded species at the wooded grassland sites Idzoua Inkou and Camp des ecogardes.

| | Idzoua Inkou | | Camp des ecogardes |
|----|--------------------------|------|--------------------------|
| 1 | Flappet Lark | 0.68 | Sooty Chat |
| 2 | Violet-backed Starling | 0.55 | Yellow-throated Longclaw |
| 3 | Common Bulbul | 0.50 | Flappet Lark |
| 4 | Red-eyed Dove | 0.45 | Common Bulbul |
| | | | Cinnamon-breasted Rock |
| 5 | Black-headed Batis | 0.45 | Bunting |
| 6 | Sooty Chat | 0.41 | Yellow-mantled Widowbird |
| 7 | Yellow-throated Petronia | 0.41 | Red-eyed Dove |
| 8 | White-winged Black Tit | 0.36 | Blue-breasted Bee-eater |
| 9 | Amethyst Sunbird | 0.36 | Bronze Mannikin |
| 10 | Green-capped Eremomela | 0.32 | Common Fiscal |
| 11 | Zitting Cisticola | 0.32 | Zitting Cisticola |
| 12 | Pale Flycatcher | 0.27 | Vieillot's Black Weaver |
| 13 | Bronze Mannikin | 0.27 | Tawny-flanked Prinia |
| 14 | Piping Cisticola | 0.23 | Grey Parrot |
| 15 | Green-headed Sunbird | 0.23 | Copper Sunbird |
| 16 | Yellow-mantled Widowbird | 0.23 | Croaking Cisticola |
| 17 | Black-throated Seedeater | 0.23 | Little Bee-eater |
| 18 | Common Swift | 0.23 | White-winged Black Tit |
| 19 | Yellow-rumped Tinkerbird | 0.18 | African Pied Hornbill |
| 20 | Dark Chanting Goshawk | 0.18 | Orange-cheeked Waxbill |
| 21 | Striped Kingfisher | 0.18 | Rufous-chested Swallow |
| 22 | Tawny-flanked Prinia | 0.18 | Banded Martin |
| 23 | Little Bee-eater | 0.18 | European Bee-eater |
| 24 | Yellow-bellied Hyliota | 0.18 | Sladen's Barbet |
| 25 | Blue-spotted Wood Dove | 0.14 | Spotted Flycatcher |
| 26 | Pale-fronted Negrofinch | 0.14 | Broad-billed Roller |
| 27 | Yellow-throated Longclaw | 0.14 | Red-necked Francolin |
| 28 | Blue-breasted Bee-eater | 0.14 | |

The Mt Blanc site shared numerous grassland species with Idzoua Inkou and Camp des ecogardes, but in addition supported marsh-associated species such as Marsh Tchagra, White-winged Widowbird and Winding Cisticola. It also supported various species seemingly more abundant on the plateau than in the valley-bottom locations of the other sites, including Speckled Mousebird, Compact Weaver, Blue-billed Firefinch and Pin-tailed Whydah (table 7).

A small number of lists made at Ngondoro in late 2003 and early 2004 require further analysis and are not presented here.

Table 7. Indices of Relative Visibility (IRVs) for the most frequently recorded species at Mt Blanc.

| | Mt Blanc | |
|----|--------------------------|------|
| 1 | Yellow-mantled Widowbird | 0.92 |
| 2 | Orange-cheeked Waxbill | 0.85 |
| 3 | Copper Sunbird | 0.85 |
| 4 | Common Bulbul | 0.77 |
| 5 | Banded Martin | 0.62 |
| 6 | Blue-breasted Bee-eater | 0.62 |
| 7 | Lesser Striped Swallow | 0.54 |
| 8 | Bronze Mannikin | 0.54 |
| 9 | Speckled Mousebird | 0.46 |
| 10 | Compact Weaver | 0.31 |
| 11 | Black Saw-wing | 0.23 |
| 12 | Sooty Chat | 0.23 |
| 13 | European Bee-eater | 0.15 |
| 14 | Marsh Tchagra | 0.15 |
| 15 | Blue-spotted Wood Dove | 0.15 |
| 16 | Piping Cisticola | 0.15 |
| 17 | Red-headed Quelea | 0.15 |
| 18 | Blue-billed Firefinch | 0.15 |
| 19 | White-winged Widowbird | 0.15 |
| 20 | Winding Cisticola | 0.15 |
| 21 | Pin-tailed Whydah | 0.15 |



Figs 20 & 21. Common Bulbul, the most frequently recorded species during the MacKinnon List survey, and European Bee-eater, also recorded from all seven survey sites (Photos: T. King).

River Transect Results

66 species were sighted during 37 transects along the Louna river between Abio and the confluent, and 41 species during 15 transects along the Lefini river between the confluent and Mbouambé (appendix 2). The most frequently sighted species are given in table 8.

Table 8. Percentage values for most frequently sighted species during river transects.

| | Louna | | Lefini | |
|----|-----------------------------|-------|------------------------------|-------|
| 1 | White-throated Blue Swallow | 100.0 | White-throated Blue Swallow | 100.0 |
| 2 | Cassin's Flycatcher | 91.9 | Grey Parrot | 93.3 |
| 3 | Grey Parrot | 75.7 | Little Swift | 80.0 |
| 4 | Giant Kingfisher | 62.2 | African Pied Hornbill | 80.0 |
| 5 | Hamerkop | 54.1 | Cassin's Flycatcher | 80.0 |
| 6 | Pied Kingfisher | 54.1 | Woodland Kingfisher | 66.7 |
| 7 | African Pied Hornbill | 54.1 | Lesser Striped Swallow | 53.3 |
| 8 | Banded Martin | 54.1 | Giant Kingfisher | 46.7 |
| 9 | Common Bulbul | 54.1 | Vieillot's Black Weaver | 46.7 |
| 10 | Woodland Kingfisher | 51.4 | Common Swift | 40.0 |
| 11 | Swamp Palm Bulbul | 35.1 | African Palm Swift | 33.3 |
| 12 | Sooty Chat | 35.1 | Pied Kingfisher | 33.3 |
| 13 | Green-backed Heron | 32.4 | Swamp Palm Bulbul | 33.3 |
| 14 | Broad-billed Roller | 29.7 | African Green Pigeon | 26.7 |
| 15 | Common Swift | 27.0 | Western Bronze-naped Pigeon | 26.7 |
| 16 | Abdim's Stork | 24.3 | Broad-billed Roller | 26.7 |
| 17 | Black-headed Bee-eater | 24.3 | Northern Grey-headed Sparrow | 26.7 |
| 18 | Piping Hornbill | 21.6 | Blue-spotted Wood Dove | 20.0 |
| 19 | African Green Pigeon | 18.9 | Red-eyed Dove | 20.0 |
| 20 | Red-eyed Dove | 18.9 | Common Bulbul | 20.0 |
| 21 | Black Bee-eater | 18.9 | Bronze Mannikin | 20.0 |
| 22 | European Bee-eater | 18.9 | Black Kite | 13.3 |
| 23 | African Fish Eagle | 16.2 | Banded Martin | 13.3 |
| 24 | African Jacana | 16.2 | Village Weaver | 13.3 |
| 25 | Western Bronze-naped Pigeon | 16.2 | | |
| 26 | Bronze Mannikin | 16.2 | | |



Figs 22 & 23. White-throated Blue Swallow and Cassin's Flycatcher, two of the most frequently recorded species along the Louna and Lefini rivers (Photos: T. King).

Vehicle Transect Results

Vehicle transects were conducted along two principle routes, from Iboubikro to Mt Blanc (63 transects) and from Mpoumako to Abio (39). The percentages of sightings are presented for 25 selected species in table 9. Raptors were generally more often sighted between Mpoumako and Abio than between Iboubikro and Mt Blanc, with the notable exception of Common Kestrel which was observed more often between Iboubikro and Mt Blanc. Finsch's and Red-necked Francolins were more often sighted between Iboubikro and Mt Blanc, but African Crake was observed considerably more often between Mpoumako and Abio (mainly in the rank grassland on the plateau near Mpoumako). Black-bellied Bustards were sighted at similar frequencies along the two transects, but White-bellied Bustards were a lot more frequent between Mpoumako and Abio. A pair of lilac-breasted rollers resident in the zone around Mpieri accounted for the high frequency of sightings between Iboubikro and Mt Blanc. Congo Moor Chat was sighted on more than three quarters of trips along the Abio/Mpoumako road, compared to a third of trips along the Iboubikro/Mt Blanc route. Conversely, Common Fiscal was more often seen towards Mt Blanc. Black-chinned Weaver were sighted only rarely on both routes, and Red-collared Widowbird exclusively in the zone of rank grassland near Mpoumako.

Table 9. Percentage values for selected species sighted during vehicle transects.

| English name (B&D 2001) | Iboubikro - Mt Blanc | Mpoumako-Abio |
|-----------------------------|----------------------|---------------|
| Black-shouldered Kite | 1.6 | 2.6 |
| Black Kite | 1.6 | 10.3 |
| Black-breasted Snake Eagle | 0.0 | 2.6 |
| Bateleur | 0.0 | 2.6 |
| Eurasian Marsh Harrier | 0.0 | 2.6 |
| Dark Chanting Goshawk | 1.6 | 0.0 |
| African Goshawk | 1.6 | 0.0 |
| Lizard Buzzard | 0.0 | 2.6 |
| Red-necked Buzzard | 9.5 | 12.8 |
| Martial Eagle | 0.0 | 2.6 |
| Common Kestrel | 25.4 | 12.8 |
| Finsch's Francolin | 7.9 | 2.6 |
| Red-necked Francolin | 9.5 | 2.6 |
| Helmeted Guineafowl | 3.2 | 2.6 |
| African Crake | 6.3 | 23.1 |
| White-bellied Bustard | 19.0 | 53.8 |
| Black-bellied Bustard | 23.8 | 23.1 |
| Temminck's Courser | 4.8 | 10.3 |
| Lesser Black-winged Lapwing | 11.1 | 7.7 |
| Lilac-breasted Roller | 28.6 | 7.7 |
| Hoopoe | 6.3 | 5.1 |
| Congo Moor Chat | 30.2 | 79.5 |
| Common Fiscal | 31.7 | 7.7 |
| Black-chinned Weaver | 3.2 | 2.6 |
| Red-collared Widowbird | 0.0 | 17.9 |
| Total transects | 63 | 39 |

Mist-netting Results

638 birds were netted over the course of the sampling period (table 10). 39 of these were subsequently recaptured, including 3 which were recaptured a third time, giving a total of 680 net registrations. An additional bird, a Woodland Kingfisher, was rescued from a bar in Imvouba having been captured by local people apparently near Itaba. These birds represent 86 different species, including one pipit for which the specific identification requires confirmation, plus two unidentified sunbirds (see below).

Table 10. Number of birds netted per location per year.

| | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | Total |
|-----------------------|------|------|------|------|------|------|-------|
| Iboubikro | 83 | 2 | | 129 | 152 | 14 | 380 |
| Camp des ecogardes | 5 | | | 83 | 47 | | 135 |
| Ngondoro | 74 | 4 | | | | | 78 |
| Idzoua-Inkou | 4 | | | 11 | 28 | | 43 |
| Lac Bleu | 2 | | | | | | 2 |
| Total (no recaptures) | 168 | 6 | 0 | 223 | 227 | 14 | 638 |
| Recaptures | 2 | 0 | 0 | 20 | 20 | 0 | 42 |
| Imvouba rescue | | | | 1 | | | 1 |
| Total | 170 | 6 | 0 | 244 | 247 | 14 | 681 |

Table 11. Number of birds netted per location per habitat type (including recaptures).

| Location | Forest interior | Savanna | Transition forest/savanna | Total |
|--------------------|-----------------|---------|---------------------------|----------|
| Iboubikro | 93 | 0 | 318 | 411 |
| Camp des ecogardes | 0 | 42 | 102 | 144 |
| Ngondoro | 0 | 46 | 33 | 79 |
| Idzoua-Inkou | 0 | 34 | 10 | 44 |
| Lac Bleu | 1 | 1 | 0 | 2 |
| Total birds | 94 | 123 | 463 | 680 |
| Total species | 19 | 40 | 66 (+ 2 sunbirds?) | 86 (+2?) |

The majority of birds (and species) were netted in transitional forest/savanna habitat, with much fewer in forest interior or savanna (Table 11). The most frequently netted species overall was by far the Little Greenbul (26.6% of all netted birds), followed by Western Olive Sunbird (9%) and Common Bulbul (5.9%) (table 12). The same three species were also the most frequently netted birds in the forest/savanna transition habitat class. Little Greenbul and Western Olive Sunbird were also the most frequently netted species in forest interior, while Common Bulbul was never netted in this habitat type (table 13). Lesser Bristlebill, Red-capped Robin Chat, Chestnut Wattleye, Western Bluebill and White-browed Forest Flycatcher were the next most frequently netted species in forest interior. In savanna nets, the most frequently netted species were Vieillot's Black Weaver, Orange-winged Pytilia, Blue-breasted Bee-eater, Sooty Chat, Yellow-throated Petronia, Amethyst Sunbird and Yellow-mantled Widowbird (table 13).

Table 12. Twenty most frequently netted species, including recaptures, all habitats combined and by habitat type ‘Transition forest/savanna’.

| Combined total | n | % | Transition forest/savanna | n | % |
|-----------------------------------|-----|------|--------------------------------|-----|------|
| 1 Little Greenbul | 181 | 26.6 | Little Greenbul | 138 | 29.8 |
| 2 Western Olive Sunbird | 61 | 9.0 | Western Olive Sunbird | 47 | 10.2 |
| 3 Common Bulbul | 40 | 5.9 | Common Bulbul | 37 | 8.0 |
| 4 Vieillot's Black Weaver | 29 | 4.3 | African Pygmy Kingfisher | 18 | 3.9 |
| 5 African Pygmy Kingfisher | 22 | 3.2 | Bates's Paradise Flycatcher | 14 | 3.0 |
| 6 Yellow-throated Petronia | 20 | 2.9 | Yellow-throated Petronia | 14 | 3.0 |
| 7 Bates's Paradise Flycatcher | 15 | 2.2 | Green Crombec | 11 | 2.4 |
| 8 Orange-winged Pytilia | 14 | 2.1 | Olive-bellied Sunbird | 10 | 2.2 |
| 9 Yellow-throated Tinkerbird | 12 | 1.8 | Yellow-throated Tinkerbird | 9 | 1.9 |
| 10 Green Crombec | 12 | 1.8 | Black-throated Seedeater | 9 | 1.9 |
| 11 Grey-backed Camaroptera | 11 | 1.6 | Grey-backed Camaroptera | 8 | 1.7 |
| 12 Black-throated Seedeater | 11 | 1.6 | Lead-coloured Flycatcher | 8 | 1.7 |
| 13 Olive-bellied Sunbird | 10 | 1.5 | Reichenbach's Sunbird | 8 | 1.7 |
| 14 Sooty Chat | 9 | 1.3 | Green-headed Sunbird | 7 | 1.5 |
| 15 Green-headed Sunbird | 9 | 1.3 | Sladen's Barbet | 6 | 1.3 |
| 16 Amethyst Sunbird | 9 | 1.3 | Speckled Tinkerbird | 6 | 1.3 |
| 17 Blue-breasted Bee-eater | 8 | 1.2 | Cinnamon-breasted Rock Bunting | 6 | 1.3 |
| 18 Lead-coloured Flycatcher | 8 | 1.2 | Western Nicator | 5 | 1.1 |
| 19 Reichenbach's Sunbird | 8 | 1.2 | Pale Flycatcher | 5 | 1.1 |
| 20 Lesser Bristlebill | 7 | 1.0 | Violet-tailed Sunbird | 5 | 1.1 |
| 21 Yellow-mantled Widowbird | 7 | 1.0 | Vieillot's Black Weaver | 5 | 1.1 |
| 22 Cinnamon-breasted Rock Bunting | 7 | 1.0 | | | |

Table 13. Twenty most frequently netted species, including recaptures, by habitat types ‘Forest interior’ and ‘Savanna’.

| Forest interior | N | % | Savanna | n | % |
|----------------------------------|----|------|--------------------------|----|------|
| 1 Little Greenbul | 42 | 44.7 | Vieillot's Black Weaver | 24 | 19.5 |
| 2 Western Olive Sunbird | 14 | 14.9 | Orange-winged Pytilia | 13 | 10.6 |
| 3 Lesser Bristlebill | 7 | 7.4 | Blue-breasted Bee-eater | 6 | 4.9 |
| 4 Red-capped Robin Chat | 4 | 4.3 | Sooty Chat | 6 | 4.9 |
| 5 Chestnut Wattle-eye | 4 | 4.3 | Yellow-throated Petronia | 6 | 4.9 |
| 6 Western Bluebill | 4 | 4.3 | Amethyst Sunbird | 5 | 4.1 |
| 7 White-browed Forest Flycatcher | 3 | 3.2 | Yellow-mantled Widowbird | 5 | 4.1 |
| 8 Blue-breasted Kingfisher | 2 | 2.1 | African Pygmy Kingfisher | 4 | 3.3 |
| 9 Shining-blue Kingfisher | 2 | 2.1 | Tawny-flanked Prinia | 4 | 3.3 |
| 10 Yellow-throated Tinkerbird | 2 | 2.1 | Orange-cheeked Waxbill | 4 | 3.3 |
| 11 Green Hylia | 2 | 2.1 | Bronze Mannikin | 4 | 3.3 |
| 12 Red-eyed Dove | 1 | 1.1 | Swamp Nightjar | 3 | 2.4 |
| 13 Black Bee-eater | 1 | 1.1 | Common Bulbul | 3 | 2.4 |
| 14 Buff-spotted Woodpecker | 1 | 1.1 | Grey-backed Camaroptera | 3 | 2.4 |
| 15 Western Nicator | 1 | 1.1 | Little Bee-eater | 2 | 1.6 |
| 16 Fire-crested Alethe | 1 | 1.1 | Yellow-rumped Tinkerbird | 2 | 1.6 |
| 17 Green Crombec | 1 | 1.1 | Flappet Lark | 2 | 1.6 |
| 18 Bates's Paradise Flycatcher | 1 | 1.1 | Croaking Cisticola | 2 | 1.6 |
| 19 Violet-tailed Sunbird | 1 | 1.1 | Green-headed Sunbird | 2 | 1.6 |
| 20 | | | Violet-backed Starling | 2 | 1.6 |
| 21 | | | Black-throated Seedeater | 2 | 1.6 |

Recaptures

Of 638 birds netted, 39 were recaptured, including 3 which were recaptured twice. 17 species were recaptured, the most frequent being little greenbul (table 14). Eleven birds were recaptured more than two weeks after first capture, the longest time between captures being 16 weeks (Western Olive Sunbird), 14 weeks and 12 weeks (both Bates' Paradise Flycatcher) (table 15). Three birds were recaptured at a site different to the original capture site, all three being first netted at Iboubikro and then subsequently at camp des ecogardes, approximately 600 m away on the opposite side of the Lesio gallery forest (African Pygmy Kingfisher, Common Bulbul and Western Olive Sunbird) (table 16).

Table 14. Recaptures during mist-netting.

| Bird Species | Birds recaptured once | Birds recaptured twice | Total birds recaptured |
|-----------------------------|-----------------------|------------------------|------------------------|
| Little Greenbul | 13 | 2 | 15 |
| African Pygmy Kingfisher | 3 | 1 | 4 |
| Western Olive Sunbird | 4 | | 4 |
| Bates's Paradise Flycatcher | 2 | | 2 |
| Yellow-throated Petronia | 2 | | 2 |
| Shining-blue Kingfisher | 1 | | 1 |
| Speckled Tinkerbird | 1 | | 1 |
| Yellow-rumped Tinkerbird | 1 | | 1 |
| Lesser Bristlebill | 1 | | 1 |
| Common Bulbul | 1 | | 1 |
| Western Nicator | 1 | | 1 |
| Winding Cisticola | 1 | | 1 |
| Grey-backed Camaroptera | 1 | | 1 |
| Lead-coloured Flycatcher | 1 | | 1 |
| Chestnut Wattle-eye | 1 | | 1 |
| Amethyst Sunbird | 1 | | 1 |
| Vieillot's Black Weaver | 1 | | 1 |
| Total | 36 | 3 | 39 |

Table 15. Recaptures two weeks or more after first capture.

| BirdID | Bird Species | First | Last | Time between captures |
|--------|-----------------------------|-----------|-----------|-----------------------|
| 572 | Western Olive Sunbird | 24 Jan 06 | 17 May 06 | 16 weeks |
| 667 | Bates's Paradise Flycatcher | 10 Aug 06 | 14 Nov 06 | 14 weeks |
| 679 | Bates's Paradise Flycatcher | 10 Aug 06 | 29 Oct 06 | 12 weeks |
| 694 | Little Greenbul | 11 Aug 06 | 07 Oct 06 | 8 weeks |
| 685 | Grey-backed Camaroptera | 10 Aug 06 | 07 Oct 06 | 8 weeks |
| 391 | Shining-blue Kingfisher | 04 Nov 05 | 22 Dec 05 | 7 weeks |
| 524 | Western Nicator | 22 Dec 05 | 23 Jan 06 | 5 weeks |
| 414 | Speckled Tinkerbird | 29 Nov 05 | 25 Dec 05 | 4 weeks |
| 728 | African Pygmy Kingfisher | 07 Oct 06 | 28 Oct 06 | 3 weeks |
| 640 | Chestnut Wattle-eye | 18 May 06 | 10 Jun 06 | 3 weeks |
| 747 | Little Greenbul | 28 Oct 06 | 15 Nov 06 | 2.5 weeks |

Table 16. Recaptures at different sites.

| BirdID | Bird Species | First | Last | Distance | Time |
|--------|--------------------------|-----------|--------------------|----------|--------|
| 347 | African Pygmy Kingfisher | Iboubikro | Camp des ecogardes | 600 m | 9 days |
| 535 | Common Bulbul | Iboubikro | Camp des ecogardes | 600 m | 4 days |
| 529 | Western Olive Sunbird | Iboubikro | Camp des ecogardes | 600 m | 3 days |



Figs 24 - 26. Little Greenbul, Lesser Bristlebill & Red-capped Robin Chat, three of the most frequently netted species in forest interior (Photos: C. Chamberlan)



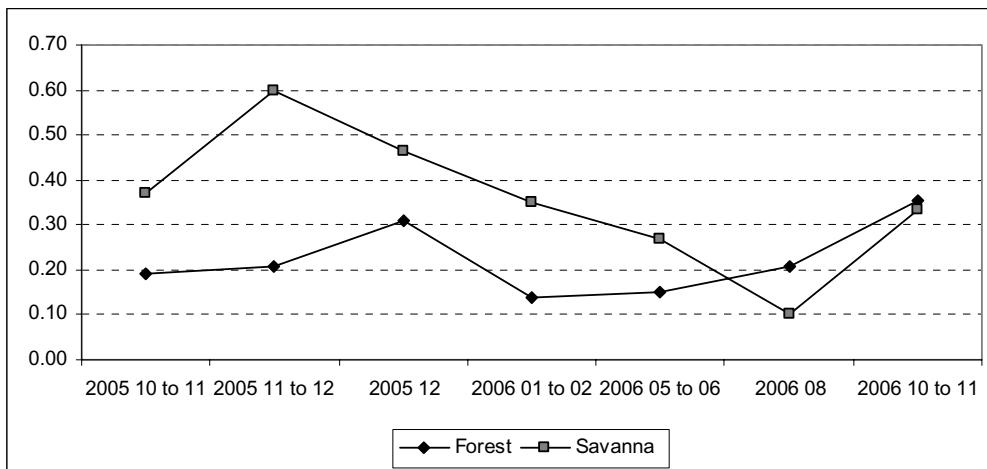
Figs 27 - 29. Vieillot's Black Weaver, Orange-winged Pytilia & Blue-breasted Bee-eater, three of the most frequently netted species in wooded savanna (Photos: C. Chamberlan, D. Hayman & T. King)

Moult

Recaptured birds were excluded from the moult analysis except those captured in different time periods, giving a total of 647 moult registrations. Of these 171 were recorded as being in primary moult, and three as unknown. Observations of primary moult are given in the individual species accounts below, but a full analysis of the moult data, including secondary, tertiary and tail moult, is out of the scope of this preliminary report. However, a simplified preliminary presentation of seasonality of moult is provided, in order to investigate the suggestion by King *et al.* (2004) that there was a difference in moult seasons between forest and savanna species in the reserve, based on an analysis of a relatively small sample size collected during 2002. Savanna species were suggested to start moult ‘perhaps as early as September, but certainly by October’ and to end ‘before the end of February’. Forest species were suggested to start moult ‘no earlier than November’, and continuing to March.

To test these suggestions, species netted were categorised as “forest resident” or “savanna resident”, based on observations of preferred habitat in the Lesio-Louna. A small number of species could be argued either way, but their placement should not affect the statistical rigour of the analysis. Migrant species are excluded from the analysis.

Fig 30. Proportion of resident forest and savanna birds netted exhibiting primary moult during distinct periods from Oct 2005 to Nov 2006. Note that no data is available for the period late Feb to early May 2006.



The data from 2005 to 2006 corroborate the general patterns from 2002, in that a major moult season starts around the beginning of the wet season (Oct/Nov; unfortunately no data is available for September). In 2005, as in 2002, savanna birds showed a peak in moult activity slightly earlier than forest birds (late Nov/early Dec and mid- to late Dec respectively), followed by a decline in moult activity in Jan/Feb. The lack of data from late Feb to early May is unfortunate, obscuring any pre-dry season moult patterns (analysis of moult scores and secondary and tail moult may give some idea of moult activity through this time though). Moult activity in savanna birds then declined through the dry season, before another steep increase in Oct/Nov 2006. In contrast, forest bird moult appeared to increase slowly through the dry season, and then rapidly in Oct/Nov 2006, apparently earlier than was the case in 2002 or 2005. Generally, though, forest birds showed milder fluctuations in moult proportions over the season, suggesting their annual cycles may be more flexible than the seemingly relatively rigid cycle of savanna birds.

A second way of analysing the data was to group data from all years into periods of one to three consecutive months, with sample size relatively equal between periods. The “Jun-Aug” period corresponds to the dry season in the reserve, and the “Jan-Mar” period to a generally drier period of the long wet season. Figure 31 shows that very few savanna birds were in primary moult during the dry season “Jun-Aug” (10%), but almost half were in primary moult by “Sep-Oct” (45%), a figure sustained through November (40%) and December (51%). The proportion in moult then declined relatively slowly through “Jan-Mar” (35%) and “Apr-May” (33%). The forest birds exhibited less fluctuation, with the proportion in primary moult increasing slowly from the dry season “Jun-Aug” (17%) through “Sep-Oct” (24%) to Nov (31%) and Dec (28%), then decreasing in “Jan-Mar” (14%) before a little increase in “Apr-May” (18%). These results confirm the major moulting season to follow the dry season, with few birds in moult from Jun-Aug, and many in moult between Sep/Oct and Dec. The lack of sufficient sample sizes in each of the following months, however, obscures the detail of moult during the second half of the wet season. The current presentations suggest a possible second period of moult in Apr-May, prior to the following dry season, but further analysis is required to add precision to this hypothesis.

Fig 31. Proportion of resident forest and savanna birds netted in primary moult during different months (excluding birds from 2002).

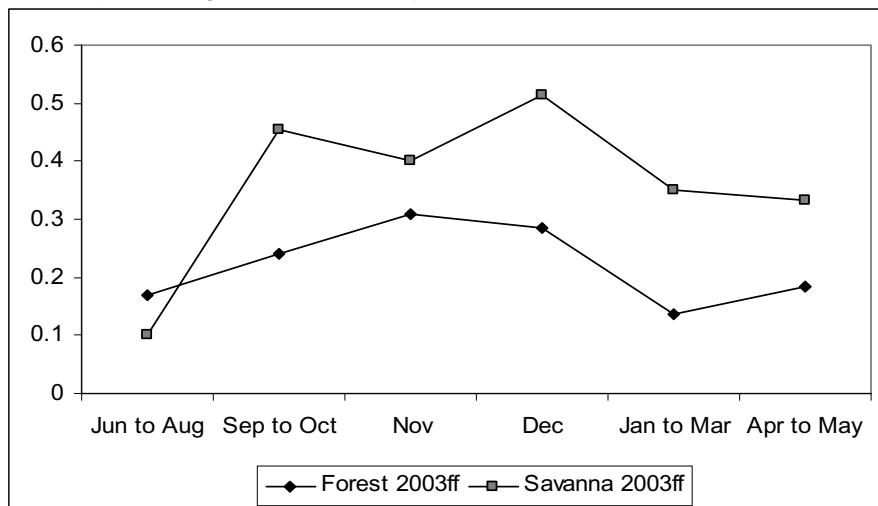
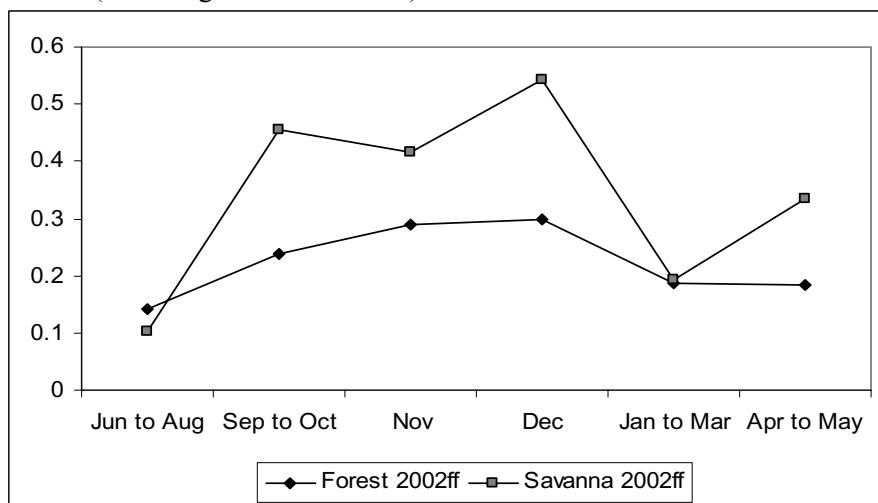


Fig 32. Proportion of resident forest and savanna birds netted in primary moult during different months (including birds from 2002).



Morphometrics

Ranges for mass and wing measurements are given in the individual species accounts below, while full details of morphometric measurements are given in appendices 3 & 4.

Identification of netbird 224

The identification of bird 224 netted 1 Jul 2002 remains unclear. Apart from the mass, which in any case must surely be erroneous, the morphometrics for bird 224 seem consistent with that of the Flappet Lark netted in 2005, and with published measurements for this species in Birds of Africa (table 17). The photo resembles a pipit, but pipits have long tertials reaching the tips of the primaries (Borrow & Demey 2001). This can be seen in the photo of *Anthus* sp., but does not appear to be the case for bird 224 (fig 33). Therefore the bird appears to be a Flappet Lark, as given by King *et al.* (2004), but the mass should be rejected as an error.

Table 17. Morphometrics of Flappet Lark, *Anthus* sp. & unidentified netbird 224, and published morphometrics for Rufous-naped and Flappet Larks (from Birds of Africa (BoA)).

| | Bird Species | Sex | Mass | Wing | Tail (f) | Tarsus | Bill (f) |
|-----------|---------------------------------|-----|-----------|--------|----------|--------|----------|
| BoA | Rufous-naped Lark | M | 41.3-47.5 | 89-102 | 56-65 | | |
| BoA | Rufous-naped Lark | F | 33-49 | 79-99 | 47-62 | | |
| BoA | ssp nykae | | 51, 51.7 | | | | |
| BoA | Flappet Lark | M | 21-30 | 75-81 | 48-55 | | |
| BoA | Flappet Lark | F | 21-32.4 | 67-80 | 45-53 | | |
| 05-Nov-05 | Flappet Lark | | 29 | 79 | 52 | 24.4 | 18.3 |
| 01-Jul-02 | Bird 224 | | 55? | 75 | 56 | 24 | 19 |
| 14-Aug-06 | <i>Anthus</i> cf <i>nyassae</i> | | 26 | 83 | 62 | 23.3 | 16.9 |



Fig 33. Flappet Lark, unidentified netbird 224, & *Anthus* sp. netted in the Lesio-Louna Reserve. (Photos: C Chamberlain (a), T King (b,c)).

Identification of *Anthus* sp.

A pipit *Anthus* sp. was netted on 14 Aug 2006 at camp des ecogardes (fig 33), but it's specific identification remains indetermined. Its morphometrics are given in table 17, and it had a very long hindclaw (fig 34; left hindclaw 8.7mm (toe 7.9) right 9.5 (toe 8.8)). These need to be compared to published measurements. Its feathers were worn. Its plumage was described as: “outer tail feathers dirty whitish, crown & upperparts streaked; breast buff streaked brown; eyebrow distinct whitish; belly & throat whitish; flanks & undertail coverts buffish”.

Fig 34. Feet of *Anthus* sp. showing long hindclaws (Photo: T King).

Of the pipits recorded in the area, short-tailed pipit *A. brachyurus* is too small, and plain-backed pipit *A. leucophrys* and long-legged pipit *A. pallidiventris* have plain not streaked crown and upperparts. This leaves woodland pipit *A. nyassae* and grassland pipit *A. cinnamomeus* as the most likely candidates, with woodland pipit the more likely of the two due to the relatively weak head and breast markings.

Identification of *Euplectes* sp.

King *et al.* (2004) included in their analysis an unidentified *Euplectes* sp. netted 5 Mar 2002 at Ngondoro. Subsequent netting indicates that its morphometrics and description are consistent with those of female yellow-mantled widowbirds *Euplectes macrourus* (table 18), and so it has been included with that species in the data analysis for this report. The only other *Euplectes* sp. seen in the area, the marsh widowbird *E. hartlaubi* is a larger bird (Borrow & Demey 2001), and the female lacks the yellow supercilium noted in the netted bird. The white-winged widowbird *E. albonotatus* was never seen near Ngondoro.

Table 18. Morphometrics of selected Ploceidae netted in the Lesio-Louna Reserve.

| Date | Bird Species | Sex | Mass | Wing | Tail (f) | Tarsus | Bill (f) |
|-----------|--------------------------|--------|------|------|----------|--------|----------|
| 30-Aug-02 | Red-headed Quelea | F/nb m | 16 | 64 | 31 | 19 | 13.5 |
| 29-Nov-05 | Red-headed Quelea | F/nb m | 15 | 60 | 32 | 16.9 | 12.1 |
| 27-Dec-05 | Yellow-mantled Widowbird | F | 25 | 75 | 57 | 21.8 | 14.2 |
| 27-Dec-05 | Yellow-mantled Widowbird | F | 23 | 69 | 54 | 20.4 | 13.8 |
| 04-Feb-06 | Yellow-mantled Widowbird | F | 20 | 67 | 49 | 21.3 | 13.8 |
| 05-Mar-02 | <i>Euplectes</i> sp. | F | 19 | 66 | 57* | 22.2 | 13.8 |

Identification of sunbirds 185 and 293

King *et al.* (2004) included in their analysis two unidentified Nectariniidae sp. netted 6 Mar 2002 at Ngondoro and 1 Dec 2002 at Iboubikro. The morphometrics for sunbird 185 (Ngondoro) are consistent with those of female western olive sunbirds (table 19). The lack of pectoral tufts in the female may explain why the bird was unidentified at the time, if this was not clear from the fieldguide available at that time. The tarsus and bill (f) measurements are larger than those for the only female copper sunbird and female green-throated sunbird netted, and the wing measurement is smaller than those for female amethyst sunbird. The only other nondescript female sunbird recorded in the area is the blue-throated brown sunbird, but this is a larger species.

Table 19. Morphometrics of selected sunbirds netted in the Lesio-Louna Reserve, for comparison with unidentified sunbird 185.

| Bird Species | Sex | N | Mass | Wing | Tail (f) | Tarsus | Bill (f) |
|--------------------|-----|----|-------|-------|----------|-----------|-----------|
| Amethyst | F | 3 | 11-14 | 63-65 | 38-40 | 16-18.5 | 21.2-25.5 |
| Green-throated | F | 1 | 10 | 60 | 36 | 15.3 | 17.6 |
| Western Olive | F | 13 | 9-12 | 56-60 | 40-44 | 14.4-17.8 | 20.5-23.5 |
| Copper | F | 1 | 9 | 57 | 41 | 14.5 | 16.6 |
| Olive-bellied | F | 2 | 6 | 47-48 | 32 | 13.4-14.9 | 16.5-17.4 |
| <i>Sunbird 185</i> | F | 1 | 10 | 57 | 45* | 18 | 22.8 |

*tail measured to anus/cloaca

Sunbird 293 was small, with a “deep yellow belly, orange breast band, & throat mottled dirty yellow”. Its morphometrics are consistent with those of olive-bellied sunbirds (table 20), but the description is inconsistent with any of the species known from the area. Therefore the individual remains unidentified.

Table 20. Morphometrics of selected sunbirds netted in the Lesio-Louna Reserve, for comparison with unidentified sunbird 193.

| Bird Species | Sex | N | Mass | Wing | Tail (f) | Tarsus | Bill (s) |
|--------------------|-----|---|------|-------|----------|-----------|-----------|
| Reichenbach's | Ad | 6 | 7-12 | 53-60 | 40-50 | 14.9-18.5 | 19.2-20.6 |
| Copper | M&F | 2 | 8-9 | 57-59 | 41-46 | 14-14.5 | 20.8-23.1 |
| Collared | M&F | 3 | 8 | 50-53 | 29-33 | 13.7-15.5 | 16.2-17.8 |
| Olive-bellied | M | 5 | 6-7 | 50-52 | 31-36 | 14.4-17.1 | 21.5-22.4 |
| Olive-bellied | F | 2 | 6 | 47-48 | 32 | 13.4-14.9 | 21.1-21.8 |
| Olive-bellied | Juv | 3 | 5-7 | 47-50 | 30-33 | 13.8-15.1 | 21.4-22.5 |
| <i>Sunbird 293</i> | | 1 | 6 | 46 | 33 | 15.8 | 21.7 |

A green-headed sunbird that was netted at Ngondoro in March 2002 was recorded as a male, but its wing measurement seems closer to those for females. If a photo can be found this would verify or otherwise this identification.

Sexing of Vieillot's Black Weavers

Numerous Vieillot's Black Weavers were netted, but it appeared that at least some of the individuals in apparent female plumage may in fact have been immature males. Adult males have all black plumage and bright yellow eyes, females were smaller, have brown plumage and their eyes appeared duller. However, some brown birds had eyes which appeared brighter than others, and one showed some black feathers as if moulting into adult male plumage. By plotting mass against wing length (fig 36), two main clusters are apparent – the larger birds were males in adult plumage, the smaller birds were females, a juvenile, and most of the possible immature males, including the one with some black breast feathers. However, two birds seem intermediate in size: one with a wing of 80 mm which had been recorded as an immature male due to its yellow eyes, another with a wing of 81 mm which had been recorded as a female, and photos of which show no evidence that the bird may in fact be an immature male (fig 35). Further library and museum research is required.



Fig 35. Bird551, Vieillot's Black Weaver, in female plumage but rather large (Photo: T. King)

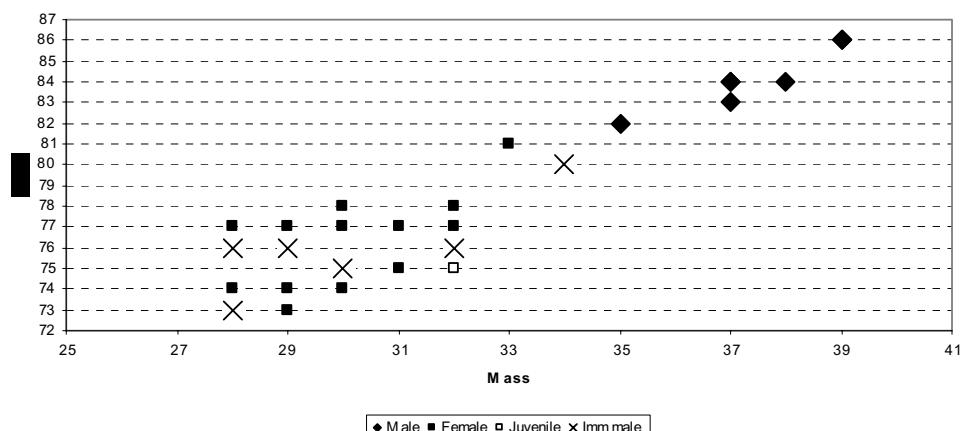


Fig 36. Wing (mm) and mass (g) of Vieillot's Black Weavers netted in the Lesio-Louna Reserve.

Species accounts

The following species accounts follow the sequence and nomenclature of Borrow & Demey (2001). Brief notes are given on distribution, habitat types, seasonality and breeding observations, plus a summary of information from the MacKinnon List surveys, the river and vehicle transects, and from any netted birds. For the list survey sites, "Louna river" refers to the Louna between Abio camp and the confluence with the Lefini river, and "Lefini river" refers to the Lefini between the confluence with the Louna and the village of Mbouambé. Comments preceded by 'DL 97' are those given by Dowsett-Lemaire (1997) for the species she listed, and are her own observations unless followed by the initials of another observer (K Bailey (KB), L Booth (LB), R Dowsett (RJD), L Mastromatteo (LM)). A preliminary assessment of status is given after each English name: Resident (R), Intra-African Migrant (M), Palearctic Migrant (P), Rare Visitor (V), or identification to be confirmed (X).

Little Grebe, R, Podicipedidae, *Tachybaptus ruficollis*, Grèbe castagneux
Singly or pair Iboubikro ponds Oct, Nov, Jan, Feb (2004, 2005) & Lac Bleu Nov (2006); small groups Lac Bleu Jul 2004 (5), Jul 2005 (7); breeding plumage Nov
DL 97: ponds & lakes (LM)

African Darter, R/M?, Anhingidae, *Anhinga rufa*, Anhinga d'Afrique
Lefini, Louna & Lesio rivers, Feb-Aug; singly except pair resident at Abio island Jul 2006
DL 97: visitor Lac Sampion (LM)

Little Bittern, P, Ardeidae, *Ixobrychus minutus*, Blongios nain
Etsotso, 8 Jan 2007; ssp *minutus* (migrant)
DL 97: 1 imm, Nov, marsh (LM)

White-crested Tiger Heron, R, Ardeidae, *Tigriornis leucocephalus*, Onoré à huppe blanche
One on nest Oct-Nov 2006, Louna river, Abio

White-backed Night Heron, R, Ardeidae, *Gorsachius leuconotus*, Bihoreau à dos blanc
DL 97: gallery forest; Lac Bleu (KB) (Lac Bleu 15 juin 1975 et seq. KB in Dowsett & Dowsett-Lemaire 1989)

Black-crowned Night Heron, R, Ardeidae, *Nycticorax nycticorax*, Bihoreau gris
Louna river near Etsotso, 13 Apr & 20 Jul 2003; Abio island March 2007; 1-3 individuals
DL 97: gallery forest & ponds

Squacco Heron, P, Ardeidae, *Ardeola ralloides*, Crabier chevelu
4 obs; Oct, Dec, Mar, Iboubikro ponds & Lefini river
DL 97: Pal. Visitor, marsh (LM)

Cattle Egret, R, Ardeidae, *Bubulcus ibis*, Héron garde-boeufs
Widespread; breeding plumage Nov
DL 97: mainly near villages

Green-backed Heron, R, Ardeidae, *Butorides striatus*, Héron strié
Louna river Nov-Jun; juvenile Feb; also Iboubikro ponds & Lefini river

Little Egret, P, Ardeidae, *Egretta garzetta*, Aigrette garzette
2 obs; Nov, Dec; Iboubikro ponds & Confluent
DL 97: Pal. Visitor, ponds (LM)

Intermediate Egret, R/M?, Ardeidae, *Egretta intermedia*, Aigrette intermédiaire
Nov, Dec; Iboubikro, Louna river

Great Egret, P?, Ardeidae, *Egretta alba*, Grande Aigrette
Mt Blanc, Jan, Feb 2005; Iboubikro ponds Dec 2004
DL 97: Pal. Visitor, ponds & lakes (LM)

Purple Heron, R, Ardeidae, *Ardea purpurea*, Héron pourpré

Resident, Louna & Lefini rivers; Visitor Iboubikro ponds Oct-Dec; Juvenile Apr, Oct

Similar IRV values along Louna (0.10) & Lefini (0.09) rivers

DL 97: Pal visitor, marsh (LM)

Grey Heron, P, Ardeidae, *Ardea cinerea*, Héron cendré

Iboubikro ponds & Louna river, Feb-Mar 2003

DL 97: Pal visitor, marsh (LM)

Hamerkop, R, Scopidae, *Scopus umbretta*, Ombrette africaine

Singly or pairs all year Louna river & Iboubikro ponds; groups of 3-5 Jul-Oct; rare Lefini river

Variable IRV values show preference for Louna river (0.48) over Lefini river (0.09)

DL 97: ponds (LM)

Abdim's Stork, M, Ciconiidae, *Ciconia abdimii*, Cigogne d'Abdim

Feb-May (earliest 6 Feb 2007; latest 14 May 2005); esp Louna & Lefini rivers

DL 97: esp Mar-Apr

Woolly-necked Stork, V/M?, Ciconiidae, *Ciconia episcopus*, Cigogne épiscopale

1 obs 22 Nov 2004, on sand bank opposite confluent camp; a pair reported from Lesio-Louna

Reserve, probably Iboubikro, 5-12 Jul 1998 (Mbani Akangala in PPG 1998).

Spot-breasted Ibis, R, Threskiornithidae, *Bostrychia rara*, Ibis vermiculé

Regularly heard at dawn & dusk

DL 97: common, gallery forest

Hartlaub's Duck, R?, Anatidae, *Pteronetta hartlaubii*, Canard de Hartlaub

1 obs 15 Oct 2003, Lefini river 3km west of confluent

Knob-billed Duck, V/M?, Anatidae, *Sarkidiornis melanotos*, Canard à bosse

20 Nov 2004 Louna river (CC); two 5 Jun 2006 Iboubikro ponds

DL 97: rare visitor to ponds, Aug (LM)

African Pygmy Goose, V/M?, Anatidae, *Nettapus auritus*, Anserelle naine

29 Dec 2002 Lefini river east of confluent, group of 3; 7 Jan 2007 Abio lac, 1 male & 2 females

DL 97: rare visitor to ponds, Apr (LM)

Osprey, P, Pandionidae, *Pandion haliaetus*, Balbuzard pêcheur

2 obs: 31 Jan 2005 Lac Bleu, 16 Oct 2006 Louna river south of Abio island

European Honey Buzzard, P, Accipitridae, *Pernis apivorus*, Bondrée apivore

Nov-Dec 2003, Lefini river confluent to Epopé

Black-shouldered Kite, R, Accipitridae, *Elanus caeruleus*, Elanion blanc

Sep-Mar, esp on Mâh plateau

DL 97: tall grassland, plateau (LM)

Black Kite, R/M?, Accipitridae, *Milvus migrans*, Milan noir

Widespread, incl Lefini north; all year

Observed during 10.3% of vehicle transects between Mpoumako & Abio, but only during 1.6% from Iboubikro to Mâh

DL 97: rare visitor, ponds, Aug (LM)

African Fish Eagle, R, Accipitridae, *Haliaeetus vocifer*, Pygargue vocifer

Louna & Lefini rivers, all year; juvenile Oct, Feb

Observed during 16.2% of river transects along Louna

DL 97: rare visitor (LM)

Palm-nut Vulture, R, Accipitridae, *Gypohierax angolensis*, Palmiste africain

Dec-Jul, Lefini, Louna & Lesio rivers; juvenile Feb, Mar, May

DL 97: rare visitor to ponds, Aug (LM)

Black-breasted Snake Eagle, R/M?, Accipitridae, *Circaetus pectoralis*, Circaète à poitrine noire
1 obs 5 Feb 2007, between Abio & Mpoumako

Bateleur, R, Accipitridae, *Terathopius ecaudatus*, Bateleur des savanes
Sep-Dec, Mar, general area of Abio; juvenile Oct (with 2 adults)
DL 97: Rare resident

African Harrier Hawk, R, Accipitridae, *Polyboroides typus*, Gymnogène d'Afrique
Jan, Jun, Oct; wooded savanna (Ngondoro hill, Idzoua Inkou) & gallery forest (confluent)
DL 97: common in forest

Montagu's Harrier, P/X?, Accipitridae, *Circus pygargus*, Busard cendré
DL 97: rare pal migrant, Jan (LM)

African Marsh Harrier, R/M?, Accipitridae, *Circus ranivorus*, Busard grenouillard
5 & 7 Jan 2006, Mt Blanc marsh; barred tail

Eurasian Marsh Harrier, P, Accipitridae, *Circus aeruginosus*, Busard des roseaux
4 obs: 13 Jan (Mt Blanc marsh) & 2 Dec 2004 (Confluent), 6 (Abio) & 8 Feb 2007 (Etsotso
marsh)

Dark Chanting Goshawk, R, Accipitridae, *Melierax metabates*, Autour sombre
Singles regularly in wooded grassland near Idzoua Inkou; carrying nesting material late March
2006; pair Oct 2005
DL 97: wooded grassland

African Goshawk, R, Accipitridae, *Accipiter tachiro*, Autour tachiro
4 Jul 2005, heavily wooded grassland ancienne piste
DL 97: forest

Long-tailed Hawk, R, Accipitridae, *Urotriorchis macrourus*, Autour à longue queue
5 obs, all at confluent; Feb, Jun, Nov; juvenile Nov 2004

Lizard Buzzard, R, Accipitridae, *Kaupifalco monogrammicus*, Autour unibande
Singles Jul, Dec-Feb; wooded grassland throughout
DL 97: wooded grassland

Red-necked Buzzard, R, Accipitridae, *Buteo auguralis*, Buse d'Afrique
Singles or pairs throughout, all year; in moult Feb
Observed during 12.8% of vehicle transects between Mpoumako & Abio, and during 9.5% from
Iboubikro to Mâh
DL 97: common, nests on cliffs

Tawny Eagle, R?, Accipitridae, *Aquila rapax*, Aigle ravisseur
DL 97: not uncommon resident; one nest in tree Lac Sanpion (LM)

Long-crested Eagle, R?, Accipitridae, *Lophaetus occipitalis*, Aigle huppard
DL 97: forest (LM)

Martial Eagle, R?, Accipitridae, *Polemaetus bellicosus*, Aigle martial
New species for Congo; juvenile 21 Jul 2006 photographed near port Albert perched on termite
mound in savanna beside Louna river; 2 probable sightings of adults Nov 2006 Epopé & Abio

Common Kestrel, R & P?, Falconidae, *Falco tinnunculus*, Faucon crécerelle
Grassland throughout; observed all year (except May & June); group of three Aug
Observed during 12.8% of vehicle transects between Mpoumako & Abio, and during 25.4%
from Iboubikro to Mâh
DL 97: common resident, seen daily by cliffs

African Hobby, X?, Falconidae, *Falco cuvierii*, Faucon de Cuvier
One at confluent camp 6 Feb 2007 (to be confirmed; vocal & not heavily streaked underparts
suggest not Eurasian Hobby)

Finsch's Francolin, R, Phasianidae, *Francolinus finschi*, Francolin de Finsch

Singles or pairs in grassland, particularly on both pistes towards Mâh, but also camp des ecogardes & Mpoumako-Abio region

Observed during 2.6% of vehicle transects between Mpoumako & Abio, and during 7.9% from Iboubikro to Mâh

DL 97: widespread in open *Loudetia* grassland, but low densities (c. 1 pair/km²)

Scaly Francolin, R, Phasianidae, *Francolinus squamatus*, Francolin écailleux

DL 97: common, forests & thickets

Red-necked Francolin, R, Phasianidae, *Francolinus afer*, Francolin à gorge rouge

Grassland throughout; all year; group of three Oct

Observed during 2.6% of vehicle transects between Mpoumako & Abio, and during 9.5% from Iboubikro to Mâh

DL 97: common, wooded grassland, tall rank grassland

Crested Guineafowl, R, Numididae, *Guttera pucherani*, Pintade huppée

DL 97: forest

Helmeted Guineafowl, R, Numididae, *Numida meleagris*, Pintade commune

Singles & pairs in Oct 2002, 2005, 2006 (twice); small group Jun

Little Buttonquail, R?, Turnicidae, *Turnix sylvatica*, Turnix d'Andalousie

DL 97: widespread in grassland

Black-rumped Buttonquail, R?, Turnicidae, *Turnix hottentotta*, Turnix nain

DL 97: moist grassland

White-spotted Flufftail, R, Rallidae, *Sarothrura pulchra*, Râle perlé

DL 97: common in gallery forest

Red-chested Flufftail, R, Rallidae, *Sarothrura rufa*, Râle à camale

DL 97: marsh

African Crake, R/M?, Rallidae, *Crex egregia*, Râle des prés

Singles & pairs Nov - May; esp along roads on plateau

Observed during 23.1% of vehicle transects between Mpoumako & Abio, and during 6.3% from Iboubikro to Mâh

DL 97: tall grassland

Black Crake, R, Rallidae, *Amaurornis flavirostris*, Râle à bec jaune

Lac Sampion, 28 Aug 2002

DL 97: marsh

African Finfoot, R, Heliornithidae, *Podica senegalensis*, Grébifoulque d'Afrique

Singles all year, Louna river; also Lefini & Lesio rivers

DL 97: forest streams

White-bellied Bustard, R, Otididae, *Eupodotis senegalensis*, Outarde du Sénégal

Singles, pairs & small groups in grassland all year, esp Mpoumako-Abio; small chicks Sept 2005 (jackal nearby)

Observed during 53.8% of vehicle transects between Mpoumako & Abio, and during 19.0% from Iboubikro to Mâh

DL 97: common in *Loudetia* grassland

Black-bellied Bustard, R, Otididae, *Eupodotis melanogaster*, Outarde à ventre noir

Singles & pairs in grassland all year (except May-June), esp Iboubikro-Mt Blanc;

Observed during 23.1% of vehicle transects between Mpoumako & Abio, and during 23.8% from Iboubikro to Mâh

DL 97: widespread in open & wooded grassland

- African Jacana**, R, Jacanidae, *Actophilornis africana*, Jacana à poitrine dorée
Singles & pairs all year; juveniles Feb-Jun; Iboubikro ponds (esp Jan-Jun) & Louna river, also Lefini river
IRV values 0.40 at Iboubikro ponds & 0.10 Louna river
DL 97: marsh (LM)
- Temminck's Courser**, R/M?, Glareolidae, *Cursorius temminckii*, Courvite de Temminck
Singles, pairs & groups in grassland Apr-Nov
Observed during 10.3% of vehicle transects between Mpoumako & Abio, and during 4.8% from Iboubikro to Mâh
DL 97: short grassland
- Bronze-winged Courser**, M?, Glareolidae, *Rhinoptilus chalcopterus*, Courvite à ailes bronzées
Singles 21 & 23 Jan 2004, grassland towards Ngondoro, at dusk
- Lesser Black-winged Lapwing**, R/M?, Charadriidae, *Vanellus lugubris*, Vanneau terne
Grassland throughout; singles & pairs all year, flocks Dec-Apr
Observed during 7.7% of vehicle transects between Mpoumako & Abio, and during 11.1% from Iboubikro to Mâh
DL 97: short grassland
- Great Snipe**, P, Scolopacidae, *Gallinago media*, Bécassine double
Single Ngondoro marsh, flushed 4 times 8 & 9 Jan 2004; silent when flushed
- Common Greenshank**, P, Scolopacidae, *Tringa nebularia*, Chevalier aboyeur
Singles 28 Oct 2006 (Iboubikro ponds) & 6 Jan 2007 (Louna river)
- Wood Sandpiper**, P/X?, Scolopacidae, *Tringa glareola*, Chevalier sylvain
DL 97: pal visitor, marsh (LM)
- Common Sandpiper**, P, Scolopacidae, *Actitis hypoleucos*, Chevalier guignette
Singles Jul-Apr, commonly from Sep; three in Aug 2004; Louna river; also Lefini river & Iboubikro ponds
- African Skimmer**, V, Rynchopidae, *Rynchops flavirostris*, Bec-en-ciseaux d'Afrique
Pair 15 Jun 2003, Lefini river at confluent
- African Green Pigeon**, R, Columbidae, *Treron calva*, Colombar (ou Pigeon vert) à front nu
Common in forest; singles all year; small groups Oct-Jun; calling Aug-May
Highest IRV values along Lefini river (0.36), including Confluent camp (0.31)
One netted Dec 2005, in 1° moult; mass 190; wing 167
DL 97: as *T. australis*; common in forests & thickets
- Blue-headed Wood Dove**, R, Columbidae, *Turtur brehmeri*, Tourtelette demoiselle
4 singles obs: Lefini river (near Loubilika 24 Aug 2003 & near confluent 16 Feb 2006) & Louna river (near Abio island 12 Jul 2006 & 14 Feb 2007)
- Tambourine Dove**, R, Columbidae, *Turtur tympanistria*, Tourtelette tambourette
Singles & pairs; confluent & Iboubikro
One male netted Aug 2006, in 1° moult; mass 80; wing 119
DL 97: common in forests & thickets
- Blue-spotted Wood Dove**, R, Columbidae, *Turtur afer*, Tourtelette améthystine
Singles in wooded grassland & forest edges throughout, all year; pairs Jan, Feb
Recorded at all 7 list sites, IRV range 0.04-0.19
Three netted; 1° moult Feb; mass 59-68; wing 109-111
DL 97: thickets, forest edges
- Namaqua Dove**, V, Columbidae, *Oena capensis*, Toutelette masquée
DL 97: vagrant, 1 male, Sept (LM)

- Western Bronze-naped Pigeon**, R, Columbidae, *Columba iriditorques*, Pigeon à nuque bronzée
Singles & pairs in forest throughout, all year; calling Oct-Feb
Recorded at 4 most-forested list sites, esp Lefini river (IRV 0.27)
One female netted Feb 2006; mass 125; wing 152
DL 97: as *C. delegorguei*; forest
- Afep Pigeon**, R, Columbidae, *Columba unicincta*, Pigeon gris
8 obs, Lefini & Louna rivers, confluent camp; Jul, Aug, Nov, Dec, Jan, Mar
DL 97: forest, seasonal? (KB)
- Red-eyed Dove**, R, Columbidae, *Streptopelia semitorquata*, Tourterelle à collier
Singles, pairs & groups in wooded grassland & forest edges throughout, all year
Recorded at 6 of 7 list sites (not Mt Blanc), esp Idzoua Inkou (IRV 0.45) & camp des ecogardes (0.42)
One adult netted Jan 2006; in 1° moult; mass 220; wing 180
DL 97: wooded grassland & thickets
- Ring-necked Dove**, R/V?, Columbidae, *Streptopelia capicola*, Tourterelle du Cap
2 singles obs: on track from Mâh to Imvouba 19 Feb 2004; camp des ecogardes 13 Nov 2006
- Grey Parrot**, R, Psittacidae, *Psittacus erithacus*, Perroquet gris
Forest throughout, but especially Lefini river; singles, pairs, small & large flocks all year
Recorded at 5 list sites, esp in north along Lefini river; IRV values: Confluent camp (1.00), Lefini river (0.82), Louna river (0.62), camp des ecogardes (0.33), Iboubikro ponds (0.19)
DL 97: fairly common in forest
- Red-headed Lovebird**, V?, Psittacidae, *Agapornis pullarius*, Inséparable à tête rouge
DL 97: occasional visitor (flocks) (LM)
- Great Blue Turaco**, R, Musophagidae, *Corythaeaola cristata*, Touraco géant
4 obs: Louna, Lefini & Loubilika rivers, Lac Bleu; pair April
DL 97: wanderer to Lac Bleu (KB)
- Green Turaco**, R, Musophagidae, *Tauraco persa*, Touraco vert
Heard in forest throughout, but only 6 direct obs, mainly on Louna river; small group Nov
DL 97: common in forest
- Western Grey Plantain-eater**, X?, Musophagidae, *Crinifer piscator*, Touraco gris
DL 97: 1 on Lesio river, Feb (JB)
- Levaillant's Cuckoo**, M, Cuculidae, *Oxylophus levaillantii*, Coucou de Levaillant
3 singles obs: Jul, Sep, Dec
DL 97: occasional visitor to forest edges (LM)
- Red-chested Cuckoo**, R, Cuculidae, *Cuculus solitarius*, Coucou solitaire
Singing in forest throughout, Sep-Mar; only one direct obs
DL 97: common in forest
- Black Cuckoo**, R?, Cuculidae, *Cuculus clamosus*, Coucou criard
ssp *gabonensis*; one photographed along Louna river 9 Jan 2007
DL 97: forest (LM)
- African Cuckoo**, M?, Cuculidae, *Cuculus gularis*, Coucou africain
2 singles obs in wooded grassland, Jul & Nov
DL 97: common in wooded grassland
- Dusky Long-tailed Cuckoo**, R, Cuculidae, *Cercococcyx mechowi*, Coucou de Mechow
DL 97: common in forest
- Olive Long-tailed Cuckoo**, R, Cuculidae, *Cercococcyx olivinus*, Coucou olivâtre
DL 97: forest

African Emerald Cuckoo, R, Cuculidae, *Chrysococcyx cupreus*, Coucou foliotocol

Singing in forest throughout Aug-Feb; only 3 direct obs

DL 97: widespread in forest

Klaas's Cuckoo, R, Cuculidae, *Chrysococcyx klaas*, Coucou de Klaas

DL 97: widespread in forest

Didric Cuckoo, R, Cuculidae, *Chrysococcyx caprius*, Coucou didric

6 obs in wooded grassland: Jan, Mar, Sep, Nov, Dec

Two males (mass 26-32; wing 106-112) & two females netted (mass 36-39; wing 114-119); male in 1° moult Nov

Yellowbill, R, Cuculidae, *Ceuthmochares aereus*, Malcoha à bec jaune

Singles & pairs in forest or forest edge throughout; Mar, May, Sep, Oct, Dec

DL 97: common, forests & thickets

Gabon Coucal, R, Cuculidae, *Centropus anselli*, Coucal du Gabon

4 singles in forest/forest edge, Iboubikro & Louna river; Jan, Mar, Oct

DL 97: forest

Black Coucal, R?, Cuculidae, *Centropus grillii*, Coucal de Grill

Singles & pairs in dense grassland on Mâh plateau; also near Etsotso marsh 6 Jan 2007

DL 97: tall grassland

Senegal Coucal, R, Cuculidae, *Centropus senegalensis*, Coucal du Sénégal

Singles in wooded grassland & forest edges throughout; no obs May-Aug

Recorded at 2 list sites: Iboubikro ponds (IRV 0.21) & Louna river (0.07)

DL 97: common in wooded grassland

Blue-headed Coucal, R/X?, Cuculidae, *Centropus monachus*, Coucal moine

One juvenile at Iboubikro ponds 3 Jul 2005: small coucal, black tail, rufous back, streaky brown head, pale dirty white throat

Barn Owl, R?, Tytonidae, *Tyto alba*, Effraie des clochers

One 14 Dec 2005 between Mâh & Mt Blanc

African Scops Owl, X?, Strigidae, *Otus senegalensis*, Petit-duc africain

Given by Bailey et al. 1996, but no other observations

Spotted Eagle Owl, R, Strigidae, *Bubo africanus*, Grand-duc africain

Pair at Idzoua Inkou 1 Mar 2004

DL 97: common near cliffs

Pel's Fishing Owl, R, Strigidae, *Scotopelia peli*, Chouette-pêcheuse de Pel

DL 97: forested rivers

Vermiculated Fishing Owl, R, Strigidae, *Scotopelia bouvieri*, Chouette-pêcheuse de Bouvier

DL 97: swamp forest

African Wood Owl, R, Strigidae, *Strix woodfordii*, Chouette africaine

DL 97: common in forest

Swamp Nightjar, R, Caprimulgidae, *Caprimulgus natalensis*, Engoulevent du Natal

Grassland throughout

Three netted in 2002; mass 50 (to nearest 5g); wing 141-142

DL 97: abundant in any grassland

Long-tailed Nightjar, R/M?, Caprimulgidae, *Caprimulgus climacurus*, Engoulevent à longue queue

Camp des ecogardes (Nov 2005) & grassland near SE forest 5 (Jun 2005)

DL 97: grassland, less numerous than C. natalensis

Square-tailed Nightjar, X?, Caprimulgidae, *Caprimulgus fossii*, Engoulevent du Mozambique

Given by Bailey et al. 1996, but no other observations

Fiery-necked Nightjar, R, Caprimulgidae, *Caprimulgus pectoralis*, Engoulevent musicien
DL 97: forest edges & ponds

Pennant-winged Nightjar, M, Caprimulgidae, *Macrodipteryx vexillarius*, Engoulevent porte-étendard

Grassland; Jul, Aug
DL 97: common intra-African migrant (LM)

African Palm Swift, R, Apodidae, *Cypsiurus parvus*, Martinet des palmiers
Singles, pairs & small groups throughout, all year
Recorded at 5 list sites, IRV range 0.05-0.18

DL 97: breeds on palms

Common Swift, P, Apodidae, *Apus apus*, Martinet noir
Large flocks throughout Sep-Mar; earliest 20 Sep, latest 29 Mar
Recorded at all 7 list sites, IRV range 0.08-0.45

DL 97: common pal visitor

White-rumped Swift, ?, Apodidae, *Apus caffer*, Martinet cafre
DL 97: uncommon

Horus Swift, ?, Apodidae, *Apus horus*, Martinet horus
Small numbers at Abio camp 29 Mar 2007, with large flock of common swifts and a few little swifts; probably previously overlooked due to similarity to little swift

Little Swift, R, Apodidae, *Apus affinis*, Martinet des maisons
Large breeding colony at bridge over Lefini river in Mbouambé, on nest Feb; small numbers observed throughout reserve
IRV 0.82 for Lefini river due to colony at Mbouambé

Speckled Mousebird, R, Coliidae, *Colius striatus*, Coliou rayé
Small groups common around Mâh
Recorded at just list site: Mt Blanc (IRV 0.46)
DL 97: wooded grasslands & thickets

Narina's Trogan, R, Trogonidae, *Apaloderma narina*, Trogan narina
DL 97: common in forest

Chocolate-backed Kingfisher, R, Alcedinidae, *Halcyon badia*, Martin-chasseur marron
One in forest at Iboubikro parking 8 Apr 2006
DL 97: common in forest

Brown-hooded Kingfisher, R, Alcedinidae, *Halcyon albiventris*, Martin-chasseur à tête brune
Singles in Jan, Feb & Nov at Mt Blanc, Idzoua Inkou, Ekassaka, Confluent, & plateau near Mpoumako
Recorded at 2 list sites: Mt Blanc (IRV 0.08) & Idzoua Inkou (0.05)

DL 97: thickets and dense wooded grassland

Grey-headed Kingfisher, M & R?, Alcedinidae, *Halcyon leucocephala*, Martin-chasseur à tête grise
Singles in wooded grassland throughout, including Iboubikro camp, Idzoua Inkou, Mt Blanc, Etsotso; Apr-Aug except 1 obs in Dec
Recorded at 2 list sites: Idzoua Inkou (IRV 0.09) & Louna river (0.07)

Blue-breasted Kingfisher, R, Alcedinidae, *Halcyon malimbica*, Martin-chasseur à poitrine bleue
Heard in forest throughout Oct-Apr; only 2 direct obs
Three netted; mass 75-85 (to nearest 5g); wing 106-117
DL 97: common in forest

Woodland Kingfisher, R, Alcedinidae, *Halcyon senegalensis*, Martin-chasseur du Sénégal

Singles & pairs all year; forest edges, esp along Louna & Lefini rivers and Iboubikro ponds; groups of three Jan, Feb, Jun, Nov; juvenile Nov

Recorded at 4 most forested list sites, with high IRV values (range 0.38-0.82)

Three netted: mass 54-58; wing 95-104

DL 97: forest edges

Striped Kingfisher, R, Alcedinidae, *Halcyon chelicuti*, Martin-chasseur strié

Wooded grassland in LL & on Mâh plateau; singles all year (except Apr-Jun), pair Dec

Recorded at 1 list site, Idzoua Inkou (IRV 0.18)

DL 97: common in wooded grassland

African Dwarf Kingfisher, R, Alcedinidae, *Ceyx lecontei*, Martin-pêcheur à tête rousse

One Iboubikro ponds 2 Dec 2006

DL 97: forest

African Pygmy Kingfisher, R, Alcedinidae, *Ceyx pictus*, Martin-pêcheur pygmée

Forest edges throughout, including Iboubikro, Idzoua Inkou, Mt Blanc, Confluent; singles all year, pair Feb, Nov; hunting dragonflies Feb

Recorded at 4 list sites, IRV range 0.03-0.13

17 netted: mass 11-14; wing 50-55; 1° moult Dec; active brood patch Oct; juv Oct; imm May; 4 recaptured (incl 1 twice): max time 9 days; max distance Iboubikro to camp des ecogardes (c600m)

DL 97: thickets & forest edges

White-bellied Kingfisher, R, Alcedinidae, *Alcedo leucogaster*, Martin-pêcheur à vent blanc

DL 97: swamp forest

Malachite Kingfisher, R, Alcedinidae, *Alcedo cristata*, Martin-pêcheur huppé

One 8 Dec 2006 perched by ox-bow lake behind Abio camp; one at puddles in road along Lefini north Feb 2007

DL 97: ponds in savanna

Shining-blue Kingfisher, R, Alcedinidae, *Alcedo quadribrachys*, Martin-pêcheur azuré

Lefini, Louna & Lesio rivers, Iboubikro ponds; singles throughout year

1 male netted 4 Nov 2005; mass 32; wing 79; recaptured 22 Dec 05 (same net, 7 weeks)

DL 97: forest streams

Giant Kingfisher, R, Alcedinidae, *Megaceryle maxima*, Martin-pêcheur géant

Singles & pairs; all year; Lefini & Louna rivers, also Loubilika river & Iboubikro ponds

Recorded at 3 river-based list sites, IRV range 0.21-0.52 (highest along Louna river)

DL 97: large forest streams

Pied Kingfisher, R, Alcedinidae, *Ceryle rudis*, Martin-pêcheur pie

Singles & pairs all year; Lefini & Louna rivers; fight with swimming cobra Jun 2005 (Epopé)

Recorded at 3 river-based list sites, IRV range 0.18-0.38

DL 97: occ visitor to ponds & lakes (LM)

Black-headed Bee-eater, R, Meropidae, *Merops breweri*, Guêpier à tête noire

Singles & pairs all year; small groups Feb, Jun, Nov; forest edges, Louna & Lefini rivers, Iboubikro

Recorded at 4 list sites, esp Louna river (IRV 0.24), other 3 sites IRV range 0.04-0.09

DL 97: ecotone of gallery forest/savanna, not uncommon

Black Bee-eater, R, Meropidae, *Merops gularis*, Guêpier noir

Singles & pairs all year; small groups Jan, Apr; forest edges Lefini, Louna & Lesio rivers, Iboubikro; often at sandbank at camp des ecogardes Aug

Recorded at 2 list sites, Louna river (IRV 0.14) & camp des ecogardes (0.04)

1 netted in Jun 2002; mass 33; wing 99

DL 97: forest edges

Little Bee-eater, R, Meropidae, *Merops pusillus*, Guêpier nain

Grassland from Iboubikro to Mâh; singles & pairs all year; small groups Jan, May, Jun, Dec; juveniles Nov-Jan

Recorded at 3 least-forested list sites: camp des ecogardes (IRV 0.21), Idzoua Inkou (0.18) & Mt Blanc (0.08)

3 adults & 1 ju netted: mass 13-15 (ad), 14 (juv); wing 78-79 (ad), 78 (juv); juv Dec, in 1° moult; adult in 1° moult Nov; possible active brood patch Aug

DL 97: tall grassland

Blue-breasted Bee-eater, R, Meropidae, *Merops variegatus*, Guêpier à collier bleu

Grassland throughout, including Iboubikro to Mâh, Ngondoro, Abio, Etsotso; all year; small groups all year except Mar-May; juveniles Nov-Jan

Recorded at 5 list sites, esp Mt Blanc (IRV 0.62) & camp des ecogardes (0.42); more widespread than Little Bee-eater, and generally higher IRV values except Idzoua Inkou (0.14 compared to 0.18)

8 adults netted: mass 18-21; wing 80-86; possible active brood patch Aug

DL 97: grassland (more in valley bottoms?)

White-throated Bee-eater, P, Meropidae, *Merops albicollis*, Guêpier à gorge blanche

Flocks Nov-Apr in wooded grassland & forest edges throughout; earliest 7 Nov 2006, latest 2 Apr 2007

1 adult netted 2 Dec 2005; in 1° moult; mass 23; wing 95

DL 97: common intra-African migrant

Blue-cheeked Bee-eater, P/V?, Meropidae, *Merops persicus*, Guêpier de Perse

DL 97: pal migrant, 2 on 4 Feb (JB)

European Bee-eater, P, Meropidae, *Merops apiaster*, Guêpier d'Europe

Flocks Sep-Apr in wooded grassland & forest edges throughout; earliest 26 Sep 2006, latest 3 Apr 2007

Recorded at all 7 list sites, IRV range 0.08-0.15

DL 97: common pal migrant

Rosy Bee-eater, R/M?, Meropidae, *Merops malimbicus*, Guêpier gris-rose

Flocks Nov-Feb, Jun, Aug, Sep; forest edges near Louna river, also Lefini river

Recorded at 1 list site: Louna river (IRV 0.07)

DL 97: one flock in Aug (LM)

European Roller, P, Coraciidae, *Coracias garrulus*, Rollier d'Europe

One 16 Feb 2007, perched in wooded grassland between Mâh & Ingolo

Lilac-breasted Roller, R, Coraciidae, *Coracias caudatus*, Rollier à longs brins

Singly or in pairs in wooded grassland between Mpieri forest (just west of Idzoua Inkou) & Mâh, & between Mpoumako & Abio; all year; pair copulating Aug

Observed during 7.7% of vehicle transects between Mpoumako & Abio, and during 28.6% from Iboubikro to Mâh

DL 97: widespread in wooded grassland

Blue-throated Roller, R, Coraciidae, *Eurystomus gularis*, Rolle à gorge bleue

Gallery forest from Abio to confluent, Sep, Jan; pair investigating hole in dead tree at confluent Jan 2007

DL 97: visitor (forest) in Oct (LM)

Broad-billed Roller, R?, Coraciidae, *Eurystomus glaucurus*, Rolle violet

Wooded grassland & forest edges throughout; all year; large flocks Dec, Jan

Recorded at 5 list sites, esp Louna, Lefini & confluent camp (IRVs 0.28, 0.27, 0.21)

DL 97: migrant (gallery forest), mainly Feb - Apr (LM)

Black Wood-hoopoe, R/X?, Phoeniculidae, *Rhinopomastus aterrimus*, Irrisor noir
DL 97: edges of gallery forest (LM)

Hoopoe, M?, Upupidae, *Upupa epops*, Huppe fasciée

7 observations in 3-week period between 21 Sep & 14 Oct 2006, singly or in groups of 3 to 5, in wooded grassland between camp des ecogardes & Mâh, and between Mpoumako & Abio; otherwise only an undated obs in 2002

DL 97: rare, 1 obs on plateau

White-crested Hornbill, R?, Bucerotidae, *Tropicranus albocristatus*, Calao à huppe blanche

DL 97: forest, often follows monkeys

Red-billed Dwarf Hornbill, R?, Bucerotidae, *Tockus camurus*, Calao pygmée

One 31 Oct 2005 in gallery forest at Iboubikro

African Pied Hornbill, R, Bucerotidae, *Tockus fasciatus*, Calao longibande

Common in gallery forest throughout; singles, pairs and small groups all year; carrying nest material Feb

Recorded at 5 most forested list sites, IRV range 0.21-0.45

DL 97: common in forest

Piping Hornbill, R, Bucerotidae, *Bycanistes fistulator*, Calao siffleur

Gallery forest along Lefini & Louna rivers, also Iboubikro & even Idzoua Inkou; singles, pairs & small groups all year; large flocks Feb (7 pairs), Jul (9 birds), Dec (11)

Recorded at 4 list sites, IRVs much lower than African Pied Hornbill (range 0.03-0.15)

White-thighed Hornbill, R, Bucerotidae, *Bycanistes albotibialis*, Calao à cuisses blanches

Three above forest canopy at base of cliffs, Mâh, 7 Nov 2006

DL 97: rare, forest

Grey-throated Barbet, R, Capitonidae, *Gymnobucco bonapartei*, Barbican à gorge grise

Singles, pairs & small groups in forest & forest edge, Iboubikro

1 adult netted in Oct 2006; active brood patch & in 1° moult; mass 45; wing 83

DL 97: common in any forest

Sladen's Barbet, R, Capitonidae, *Gymnobucco sladenii*, Barbican de Sladen

New species for Congo; small groups in gallery forest at Iboubikro all year; nesting colony Oct 2006; large feeding flocks c20-30 birds Nov 2006; fruits eaten include *Vitex*, *Uapaca*, *Canthium*, *Dioscorea*

Recorded at 1 list site: camp des ecogardes (IRV 0.13)

5 adults & 1 imm netted: mass 45-48 (ad), 42 (imm); wing 85-88 (ad), 86 (imm); 1° moult Aug, Nov; active brood patch Aug

Speckled Tinkerbird, R, Capitonidae, *Pogoniulus scolopaceus*, Barbion grivelé

Forest edges throughout; singles all year; pairs Jun, Dec

Recorded at 3 forested list sites, IRV range 0.03-0.21

5 netted: mass 15-17; wing 57-60; 1° moult Nov-Jan; possible active brood patch Dec, Jan; 1 recaptured (4 weeks later, near-by net (242 & 243))

DL 97: common, forest & thickets

Red-rumped Tinkerbird, R, Capitonidae, *Pogoniulus atroflavus*, Barbion à croupion rouge

Forest edge Iboubikro; Dec, Jan, Mar

3 netted: mass 18; wing 62-66

Yellow-throated Tinkerbird, R, Capitonidae, *Pogoniulus subsulphureus*, Barbion à gorge jaune

Forest edges throughout; singles all year; pairs Jun, Oct, Dec; fed on small flying termites

Recorded at 3 list sites, esp Iboubikro ponds (IRV 0.17), also Idzoua Inkou (0.05) & confluent (0.05)

12 netted (incl at least 1 juv, Oct): mass 8-10; wing 47-52

DL 97: common, forest & thickets

Yellow-rumped Tinkerbird, R, Capitonidae, *Pogoniulus bilineatus*, Barbion à croupion jaune
Forest edges throughout, esp Idzoua Inkou; all year

Recorded at 3 list sites, esp Idzoua Inkou (IRV 0.18), also Mt Blanc (0.18) & confluent (0.03)
3 adults netted: mass 11; wing 51-53; possible active brood patch Feb; 1 recapture (1 day, near-by net (295 & 296))

DL 97: common, thickets, open forest

Yellow-fronted Tinkerbird, R?, Capitonidae, *Pogoniulus chrysocorus*, Petit Barbu à front jaune

New species for Congo; one mist-netted in wooded grassland at Idzoua Inkou
1 adult netted 30 May 2006; mass 10; wing 58

Hairy-breasted Barbet, R, Capitonidae, *Tricholaema hirsuta*, Barbican hérissé

Pair excavating hole in dead tree 2 to 5 Dec 2005 near camp des ecogardes; nesting in hole for rest of Dec; single singing in gallery forest at Iboubikro camp Feb 2007; heard again Apr

Miombo Pied Barbet, R, Capitonidae, *Tricholaema frontata*, Barbican du Miombo

New species for Congo; pair in wooded grassland at Idzoua Inkou Jul to Oct 2005, Feb & May 2006; seen feeding on Hymenocardia acida seeds, Maprounea africana fruits, invertebrates
1 adult netted 3 Oct 2005; mass 28; wing 74

Black-backed Barbet, R?, Capitonidae, *Lybius minor*, Barbican de Levaillant

One in wooded grassland at Mt Blanc 28 Nov 2006; yellowish bill, whitish head sides, grey crown/nape

Greater Honeyguide, R?, Indicatoridae, *Indicator indicator*, Grand Indicateur

One in burnt clearing at confluent 21 Jan 2004

Thick-billed Honeyguide, R, Indicatoridae, *Indicator conirostris*, Indicateur à gros bec

1 netted in Nov 2005; mass 29; wing 94

DL 97: as *I. minor*; forest

Red-throated Wryneck, R?, Picidae, *Jynx ruficollis*, Torcol à gorge rousse

DL 97: common in open wooded grassland (with scattered low trees)

Green-backed Woodpecker, R, Picidae, *Campethera cailliautii*, Pic à dos vert

Ngondoro (one, Jan) & Iboubikro (pair, Nov)

2 males & 1 female netted: mass 43-46 (m), 48 (f); wing 92-98 (m), 97 (f); female in 1° moult Oct

DL 97: forest & thickets

Buff-spotted Woodpecker, R, Picidae, *Campethera nivosa*, Pic tacheté

1 male (19 Dec 05) & 1 female (7 Oct 06, active brood patch) netted; mass 35 (m), 38 (f); wing 82 (m), 90 (f)

Brown-eared Woodpecker, R, Picidae, *Campethera caroli*, Pic à oreillons bruns

Singles or pairs in burnt clearing at confluent Mar, Apr, Dec 2004; Iboubikro Mar 2007

DL 97: forest

Cardinal Woodpecker, R, Picidae, *Dendropicos fuscescens*, Pic cardinal

Wooded grassland, esp near Idzoua Inkou; Jan, May, Jun, Oct, Nov

Recorded at 2 list sites: Idzoua Inkou (IRV 0.09) & camp des ecogardes (0.04)

2 males netted: mass 22-24; wing 79-80; in 1° moult Nov, Dec

DL 97: common in wooded grassland

Yellow-crested Woodpecker, R, Picidae, *Dendropicos xantholophus*, Pic à couronne d'or

Degraded forest, confluent & Iboubikro; singles, pairs, small groups; Feb, Mar, Jun, Oct-Dec; male in hole Dec

Recorded at 1 list site: confluent (IRV 0.10)

Elliot's Woodpecker, V?, Picidae, *Dendropicos elliotii*, Pic d'Elliot
One in gallery forest, Iboubikro, 12 Dec 2002 (Simon Tyler)

Rufous-naped Lark, R, Alaudidae, *Mirafra africana*, Alouette à nuque rousse
DL 97: common in *Loudetia* grassland

Flappet Lark, R, Alaudidae, *Mirafra rufocinnamomea*, Alouette bourdonnante
Grassland throughout, incl Mt Blanc; all year
Recorded at 2 list sites: Idzoua Inkou (IRV 0.68) & camp des ecogardes (0.58)
2 netted: mass 29-55 (error? BoA 21-32); wing 75-79; 1° moult July
DL 97: common in any grassland

Square-tailed Saw-wing, R?, Hirundinidae, *Psalidoprocne nitens*, Hirondelle à queue courte
DL 97: forest

Black Saw-wing, R, Hirundinidae, *Psalidoprocne pristoptera*, Hirondelle hérissée
Singles, pairs & small groups; Mt Blanc, confluent, Lac Bleu, Epopé; esp Nov-Apr, also Jun, Sep
Recorded at 1 list site: Mt Blanc (IRV 0.23)
DL 97: common at edges of forest & thickets

Brazza's Martin, V, Hirundinidae, *Phedina brazzae*, Hirondelle de Brazza
One observed along wooded grassland ridge above Lac Bleu 20 Jun 2005; with small numbers of
Lesser Striped Swallows and Rock Martins

Banded Martin, R, Hirundinidae, *Riparia cincta*, Hirondelle à collier
Most frequently observed grassland hirundine, throughout; singles, pairs & small groups all year;
large flock (12+) Dec; carrying nest materials Nov (Mt Blanc); visiting holes in large sand bank
Nov (Louna river)
Recorded at all 7 list sites, esp Mt Blanc (IRV 0.62), Louna river (0.38) & camp des ecogardes
(0.17); other sites IRV range 0.03-0.09
DL 97: savanna

Rufous-chested Swallow, R/M?, Hirundinidae, *Hirundo semirufa*, Hirondelle à ventre roux
Grassland throughout; singles & pairs Jul-Feb; flock Jul; investigating buildings Aug, Nov (camp
des ecogardes)
Recorded at 6 list sites, not confluent; IRV range 0.02-0.17
DL 97: savanna

Mosque Swallow, R?, Hirundinidae, *Hirundo senegalensis*, Hirondelle des mosquées
Two at Ngondoro 8 Jan 2004
DL 97: savanna (rocks)

Lesser Striped Swallow, R, Hirundinidae, *Hirundo abyssinia*, Hirondelle striée
Grassland throughout; all year; carrying nest material Jan; nesting Jun, Sep (Mt Blanc); juveniles
Jan; large flocks Mbouambé
Recorded at 2 list sites closest to villages: Mt Blanc (IRV 0.54) & Lefini river (0.45)
DL 97: savanna (breeds on rocks)

Red-throated Cliff Swallow, V?, Hirundinidae, *Hirundo rufigula*, Hirondelle à gorge fauve
Large flock Ngondoro 8 & 9 Jan 2004

Rock Martin, R, Hirundinidae, *Hirundo fuligula*, Hirondelle isabelline
Rocky outcrops throughout (Mt Abio, Epopé, Ngaka, above Lac Bleu); Feb, Jun, Sep, Nov, Dec
DL 97: cliffs & rocks

White-throated Blue Swallow, R, Hirundinidae, *Hirundo nigrita*, Hirondelle à bavette
Lefini & Louna rivers; occasionally Ngondoro camp & camp des ecogardes; singles & pairs all
year; large flocks (10+) Dec-Feb, Apr; nest-building Jan; on nest Feb, Apr; juveniles Mar, Sep,
Oct
IRV 1.00 for both Lefini & Louna rivers, 0.38 for confluent camp & 0.04 for camp des ecogardes

DL 97: large forested rivers, visitor to Lesio

Barn Swallow, P, Hirundinidae, *Hirundo rustica*, Hirondelle rustique

Surprisingly uncommon, only 7 obs in the reserves: usually singly; Nov, Dec, Apr; one 19 Jul 2003, latest 3 Apr 2007; abundant elsewhere on Batéké Plateaux (eg King 2007b)

Recorded at just 1 list site: camp des ecogardes (IRV 0.04)

DL 97: common pal migrant

Common House Martin, P, Hirundinidae, *Delichon urbica*, Hirondelle de fenêtre

Only 4 obs: pairs or small groups; Sep, Dec, Jan, Mar; earliest 20 Sep 2006, latest 10 Mar 2007

Yellow Wagtail, P, Motacillidae, *Motacilla flava*, Bergeronnette printanière

One 30 Nov 2005, camp des ecogardes

DL 97: pal migrant, ponds (LM)

Grassland Pipit, R?, Motacillidae, *Anthus cinnamomeus*, Pipit africain

DL 97: as *A. richardi*; *Loudetia* grassland (local)

Woodland Pipit, R, Motacillidae, *Anthus nyassae*, Pipit forestier

1 pipit netted (species to be confirmed): mass 26; wing 83; long hindclaw: left 8.7mm (toe 7.9) right 9.5 (toe 8.8); 2 7 longer than 1-6

DL 97: as *A. similis* Long-billed Pipit; common in woodland & rocky hills

Plain-backed Pipit, R, Motacillidae, *Anthus leucophrys*, Pipit à dos uni

Ngondoro, Lac Bleu; generally overlooked

DL 97: common in short grassland

Long-legged Pipit, R?, Motacillidae, *Anthus pallidiventris*, Pipit à longues pattes

Iboubikro ponds Jul & Sep 2005; very plain pipit, greyish head, pale eyebrow, bobbing tail

Short-tailed Pipit, R, Motacillidae, *Anthus brachyurus*, Pipit à queue courte

DL 97: common in short grassland

Yellow-throated Longclaw, R, Motacillidae, *Macronyx croceus*, Sentinelle à gorge jaune

Grassland throughout; singles & pairs all year; groups of three Mar, Nov; carrying nest material Jan, Feb

Recorded at 4 list sites, esp camp des ecogardes (IRV 0.63); elsewhere IRV range 0.03-0.14

DL 97: widespread in any grassland

Little Greenbul, R, Pycnonotidae, *Andropadus virens*, Bulbul verdâtre

Forest throughout; all year; small groups Jun, Jul, Nov

Most frequently netted species, but recorded at only 2 list sites: confluent (IRV 0.41) & Iboubikro ponds (0.09)

164 netted (incl juvs): mass 20-30 (ad), 19-26 (juv); wing 69-84 (ad), 70-80 (juv); active brood patch Dec; 1° moult all year but esp Oct-Jan/Feb; juvs Oct-Dec, Mar-Jun; 15 recaptured (2 twice; all Iboubikro camp; max time 8 weeks)

DL 97: common in forest & large thickets

Little Grey Greenbul, R, Pycnonotidae, *Andropadus gracilis*, Bulbul gracile

Forest throughout; Mar, Jun, Oct, Dec

2 adults netted; mass 18-21; wing 73-74; 1° moult Apr, Aug

DL 97: common in forest & large thickets

Slender-billed Greenbul, R, Pycnonotidae, *Andropadus gracilirostris*, Bulbul à bec grêle

Pair 6 Apr 2007, Iboubikro; otherwise overlooked

DL 97: common in forest & large thickets (canopy)

Honeyguide Greenbul, R, Pycnonotidae, *Baeopogon indicator*, Bulbul à queue blanche

Pair regularly in mixed species flocks for 2 weeks in Jun 2006, Iboubikro camp

DL 97: common in forest

- Simple Leaflove**, R?, Pycnonotidae, *Chlorocichla simplex*, Bulbul modeste
One 15 Jan 2004, Iboubikro camp
- Yellow-throated Leaflove**, R, Pycnonotidae, *Chlorocichla flavigularis*, Bulbul à gorge claire
DL 97: gallery forest & thickets
- Swamp Palm Bulbul**, R, Pycnonotidae, *Thescelocichla leucopleura*, Bulbul des raphias
Small vocal groups in gallery forest Lefini & Louna rivers, & Ngondoro; all year; carrying nest material Jan
Recorded at 3 gallery forest list sites, esp Lefini river; IRV range 0.18-0.45
3 netted at Ngondoro, 2002: mass 50-55 (to nearest 5g); wing 100-112
DL 97: gallery forest (with palms)
- Leaflove**, R, Pycnonotidae, *Pyrrhurus scandens*, Bulbul à queue rousse
DL 97: common in any forest
- Lesser Bristlebill**, R, Pycnonotidae, *Bleda notata*, Bulbul jaunelore
Yellow eyes => ssp *ugandae*; forest understorey Iboubikro
1 female netted (mass 44, wing 99) & 5 others (males?; mass 45-50; wing 102-106); 1° moult Dec; 1 recapture (1 day, distance approx 100m (nets 259 & 260))
DL 97: as *B. eximia*; common in forest understorey
- Common Bulbul**, R, Pycnonotidae, *Pycnonotus barbatus*, Bulbul des jardins
Bright yellow undertail coverts => ssp *tricolor*; singles, pairs & small groups in wooded grassland & forest edges throughout; all year; carrying nest material Jul
Most visible species, recorded from all 7 list sites, in top five most frequently recorded species at 6 sites (IRV range 0.46-0.81), except Lefini river (0.18)
39 netted (incl 2 juvs); mass 30-42 (ad), 36-37 (juv); wing 85-103 (ad); 89 (juv); active brood patch Aug, Oct; large propns in 1° moult Oct-May; juv Oct, Nov; 1 recapture (4 days; Iboubikro - ecogarde camp, 600m)
DL 97: common in wooded grassland, thickets, forest edges
- Black-collared Bulbul**, R, Pycnonotidae, *Neolestes torquatus*, Bulbul à collier noir
2 obs: wooded grassland; Ngondoro, Mt Blanc; Jan, Feb
1 female netted, camp des ecogardes 25 Dec 2005; active brood patch; mass 25, wing 76
DL 97: widespread in wooded grassland
- Western Nicator**, R, Pycnonotidae, *Nicator chloris*, Bulbul nicator
Forest Iboubikro, confluent
1 male, 3 females (based on size) & 1 juv netted: mass 61 (m), 43-47 (f), 41 (juv); wing 112 (m), 92-96 (f), 94 (juv); 1 recapture (5 weeks, Iboubikro (nets 257 & 262))
DL 97: common in forest
- Red-capped Robin Chat**, R?, Turdidae, *Cossypha natalensis*, Cossyphe à calotte rousse
4 adults netted in gallery forest understorey, Iboubikro, Jun 2002, Nov-Dec 2005
4 adults netted: mass 31-35; wing 90-91; 1° moult Dec; probable active brood patch Dec
- Snowy-crowned Robin Chat**, R, Turdidae, *Cossypha niveicapilla*, Cossyphe à calotte neigeuse
DL 97: common in thickets
- Fire-crested Alethe**, R?, Turdidae, *Alethe diademata*, Alète à huppe rousse
1 adult netted, 22 Dec 2005, gallery forest understorey, Iboubikro; mass 33; wing 85
- Rufous Flycatcher Thrush**, R, Turdidae, *Stizorhina fraseri*, Stizorhin de Fraser
Vocal in forest, Iboubikro
DL 97: common in forest
- White-browed Scrub Robin**, R, Turdidae, *Cercotrichas leucophrys*, Agrobate à dos roux
Singles & pairs, Idzoua Inkou
5 adults netted: mass 15-17; wing 60-66; 1° moult Feb

DL 97: common in wooded grassland & thicket edges

Common Stonechat, R, Turdidae, *Saxicola torquata*, Tarier pâtre
ssp *salax*; rocky grassland above Lac Bleu 25 Jan 2004 & 11 Apr 2007; sand bank at Epopé 12 Nov 2006

DL 97: rocky grassland

Congo Moor Chat, R, Turdidae, *Myrmecocichla tholloni*, Traquet du Congo
Non-wooded grassland throughout, esp Mpoumako-Abio; singles & pairs all year; small groups Sep-Mar, Jun
Observed during 79.5% of vehicle transects between Mpoumako & Abio, and during 30.2% from Iboubikro to Mâh

DL 97: common in open *Loudetia* grassland (few or no trees), up to 6 pairs/km² near Mâh

Sooty Chat, R, Turdidae, *Myrmecocichla nigra*, Traquet commandeur

Wooded grassland throughout; singles, pairs, small groups all year

Recorded at 4 most grassy list sites, esp camp des ecogardes (IRV 0.75, others range 0.21-0.45)
7 males & 2 females netted: mass 39-46 (m), 36-40 (f); wing 95-100 (m), 94-95 (f); active brood patch Aug; 1° moult Nov, Dec

DL 97: common in wooded grassland

African Moustached Warbler, R?, Sylviidae, *Melocichla mentalis*, Mélocichle à moustaches

DL 97: tall rank grassland

Whistling Cisticola, R, Sylviidae, *Cisticola lateralis*, Cisticole siffleuse

Idzoua Inkou

DL 97: locally common in rank grass & thicket edges

Tinkling Cisticola, R, Sylviidae, *Cisticola rufilatus*, Cisticole grise

DL 97: common in wooded grassland

Winding Cisticola, R, Sylviidae, *Cisticola galactotes*, Cisticole roussâtre

Grassy marshes, ponds & rivers throughout; vocal all year

Recorded at 2 marshy list sites: Iboubikro ponds (IRV 0.43) & Mt Blanc (0.15); under-recorded along rivers due to elusive habits

3 netted: mass 17-19; wing 60-63; 1° moult Dec; 1 recapture (same net, same day)

DL 97: common in tall grass/sedges near water

Croaking Cisticola, R, Sylviidae, *Cisticola natalensis*, Cisticole striée

Grassland throughout; vocal Sep-Apr

Recorded at 1 list site: camp des ecogardes (IRV 0.25)

1 adult & 1 juv netted: mass 26 (ad), 22 (juv); wing 74 (ad), 66 (juv); juv Apr

DL 97: common in grassland

Short-winged Cisticola, R, Sylviidae, *Cisticola brachypterus*, Cisticole à ailes courtes

Idzoua Inkou

1 netted at camp des ecogardes: mass 8; wing 48

DL 97: fairly common in wooded grassland

Piping Cisticola, R, Sylviidae, *Cisticola fulvicapillus*, Cisticole à couronne rousse

Wooded grassland throughout; vocal Dec-Jun

Recorded at 3 list sites, esp Idzoua Inkou (IRV 0.23) & Mt Blanc (0.15)

DL 97: common in wooded grassland

Zitting Cisticola, R, Sylviidae, *Cisticola juncidis*, Cisticole des jones

Grassland throughout; vocal Sep-May

Recorded at 2 list sites: camp des ecogardes (IRV 0.38) & Idzoua Inkou (0.32)

DL 97: common in any grassland

Pectoral-patch Cisticola, R, Sylviidae, *Cisticola brunnescens*, Cisticole brune

Ngondoro, Jan 2004

DL 97: common in short grassland (*Loudetia*)

Pale-crowned Cisticola, R?, Sylviidae, *Cisticola cinnamomeus*, Cisticole châtain

DL 97: very local (grassy marsh, Mâh), June 1989

Tawny-flanked Prinia, R, Sylviidae, *Prinia subflava*, Prinia modeste

Wooded/rank grassland throughout; singles & pairs all year; small groups Dec, Jan; carrying nest material Feb

Recorded at 4 most grassy list sites, esp camp des ecogardes (IRV 0.33) & Idzoua Inkou (0.18)
6 netted (but data missing for 1 in 2002): 1 small (mass 6, wing 48), 4 larger (mass 8-10, wing 52-55); 1° moult Dec, Jan

DL 97: common in rank grassland

White-chinned Prinia, R, Sylviidae, *Schistolais leucopogon*, Prinia à gorge blanche

Small vocal groups, Idzoua Inkou; also Mt Blanc

Recorded at 1 list site: Idzoua Inkou (IRV 0.09)

DL 97: rank grass & thickets

Buff-throated Apalis, R, Sylviidae, *Apalis rufogularis*, Apalis à gorge rousse

DL 97: common in forest

Grey-backed Camaroptera, R, Sylviidae, *Camaroptera brachyura*, Camaroptère à tête grise

Forest edge, Iboubikro & Idzoua Inkou

10 netted: mass 11-14; wing 50-56; active brood patch Aug, Oct (same bird); 1° moult May; 1 recapture (8 weeks, Iboubikro (nets 291 & 298))

DL 97: common in thickets & forest understorey

Yellow-browed Camaroptera, R, Sylviidae, *Camaroptera superciliaris*, Camaroptère à sourcils jaunes

DL 97: locally common in forest clearings

Salvadori's Eremomela, R, Sylviidae, *Eremomela salvadorii*, Erémomèle de Salvadori

Mt Blanc, Idzoua Inkou

1 netted: mass 8; wing 56

DL 97: as *E. icteropygialis*; widespread in wooded grassland

Green-capped Eremomela, R, Sylviidae, *Eremomela scotops*, Erémomèle à calotte verte

Small vocal groups in wooded grassland, Idzoua Inkou; also camp des ecogardes; all year

Recorded at 2 list sites, esp Idzoua Inkou (IRV 0.32)

DL 97: common in wooded grassland

Red-capped Crombec, R, Sylviidae, *Sylvietta ruficapilla*, Crombec à calotte rousse

DL 97: widespread in wooded grassland

Green Crombec, R, Sylviidae, *Sylvietta virens*, Crombec vert

Forest edge, Iboubikro; singles & pairs all year; small group Mar

12 netted: mass 8-10; wing 48-53; 1° moult May, Oct, Nov

DL 97: common in forest & thickets

Willow Warbler, P, Sylviidae, *Phylloscopus trochilus*, Pouillot fitis

Iboubikro, 17 Sep 2005, 1 & 18 Oct 2006

Garden Warbler, P, Sylviidae, *Sylvia borin*, Fauvette des jardins

1 adult netted 2 Dec 2005; mass 18; wing 79; plumage worn

Yellow-bellied Hyliota, R, Sylviidae, *Hyliota flavigaster*, Hyliote à ventre jaune

Wooded grassland, esp Idzoua Inkou

DL 97: dense wooded grassland

Green Hylia, R, Sylviidae, *Hylia prasina*, Hylia verte

Forest, Iboubikro

3 netted: mass 12,16,16; wing 58,67,69

DL 97: common in forest

Fraser's Forest Flycatcher, R, Muscicapidae, *Fraseria ocreata*, Gobemouche forestier

Small vocal groups in forest canopy, Iboubikro, confluent, Loubilika; all year

DL 97: common in forest canopy

White-browed Forest Flycatcher, R, Muscicapidae, *Fraseria cinerascens*, Gobemouche à sourcils blancs

Forest understorey, Iboubikro, Lefini river

3 netted, incl 2 larger (mass 23, 22; wing 82, 83) & 1 smaller (mass 19, wing 79) with active brood patch (Jan); 1° moult Dec

DL 97: forest understorey near water

Pale Flycatcher, R, Muscicapidae, *Malaenornis pallidus*, Gobemouche pâle

Wooded grassland throughout; singles & pairs all year; small groups Nov, Dec

Recorded at 2 wooded grassland list sites: Idzoua Inkou (IRV 0.27) & camp des ecogardes (0.08)

6 netted: dimorphic?; 4 smaller (mass 24-28, wing 89-95), 2 larger (mass 30-31, wing 103-105); 1° moult Dec

DL 97: as *Bradornis pallidus*; widespread in wooded grassland

Spotted Flycatcher, P, Muscicapidae, *Muscicapa striata*, Gobemouche gris

Wooded grassland throughout (camp des ecogardes, Idzoua Inkou, Abio); singles, pairs, small groups; Sep (4 obs), Mar (1), Apr (1); earliest 19 Sep 2005, latest 7 Apr 2006

1 adult netted 5 Nov 2006; mass 14; wing 88

Cassin's Flycatcher, R, Muscicapidae, *Muscicapa cassini*, Gobemouche de Cassin

Lefini, Louna & Lesio rivers; singles & pairs all year; nest-building Feb; on nest Jan, Feb, Sep

Recorded frequently at Louna & Lefini river list sites (IRV 0.90 & 0.64), also confluent (0.18)

DL 97: common on large forest streams

Lead-coloured Flycatcher, R, Muscicapidae, *Myioparus plumbeus*, Gobemouche mésange

Wooded grassland & forest edges Iboubikro, Idzoua Inkou, Ngondoro; Oct, Dec-Feb; juvenile Feb

6 adults & 1 juv netted: mass 12-18 (ad), 11 (juv); wing 62-67 (ad), 63 (juv); juv Feb; 1 recapture (2 days, ecogarde nets 242 & 296)

DL 97: widespread in wooded grassland, thickets, forest edges

Blue-headed Crested Flycatcher, R, Monarchidae, *Trochocercus nitens*, Tchitrec noir

DL 97: forest with dense mid-stratum

African Paradise Flycatcher, R?, Monarchidae, *Terpsiphone viridis*, Tchitrec d'Afrique

4 obs: Iboubikro & Ngondoro

DL 97: wooded grassland & thickets

Bates's Paradise Flycatcher, R, Monarchidae, *Terpsiphone batesi*, Tchitrec de Bates

Forest & forest edge, Iboubikro; singles & pairs; on nest Oct, Dec, Jan; nestlings Oct, Dec; males & females on nest

13 netted: mass 13-16; wing 72-83; active brood patch Aug (?), Oct, Dec; 1° moult Dec; 2 recaptures (12 & 14 weeks, Iboubikro nets 291 & 406, 290 & 299)

DL 97: as *T. rufocinerea bannermani*; widespread in forest

Black-and-white Flycatcher, R, Platysteiridae, *Bias musicus*, Bias musicien

Forest edges throughout; singles & pairs; Nov-Mar, Jul

Recorded at 3 list sites, IRV range 0.02-0.04

1 male netted 6 Nov 2005; mass 22; wing 88

DL 97: forest, locally thickets & wooded grassland

Chestnut Wattle-eye, R, Platysteiridae, *Dyaphorophyia castanea*, Pririt châtain

Forest understorey, Iboubikro

1 male & 2 females netted: mass 15 (m), 13-15 (f); wing 62 (m), 59-60 (f); possible active brood patches both males & females Apr, May, Jun; 1 recapture (male, 3 weeks, Iboubikro nets 259 & 284)

DL 97: common in forest understorey

Common Wattle-eye, R, Platysteiridae, *Platysteira cyanea*, Pririt à collier

Pair, Idzoua Inkou 25 Feb 2004

DL 97: thickets, also village groves

Black-headed Batis, R, Platysteiridae, *Batis minor*, Pririt à joues noires

Idzoua Inkou, also camp des ecogardes; singles & pairs all year; small group Jul

Recorded at 2 list sites: Idzoua Inkou (IRV 0.45) & camp des ecogardes (0.04)

1 female netted Dec 2005; mass 11; wing 58

DL 97: widespread in wooded grassland

Angola Batis, R, Platysteiridae, *Batis minulla*, Pririt de l'Angola

Idzoua Inkou & camp des ecogardes; less frequent than Black-headed Batis

Recorded at 1 list site: camp des ecogardes (IRV 0.04)

DL 97: widespread in thickets & forest edges/gallery forest

White-winged Black Tit, R, Paridae, *Parus leucomelas*, Mésange à epaulettes

Wooded grassland throughout LL; singles & pairs all year; small groups Aug-Feb, May

Recorded at 3 list sites, esp Idzoua Inkou (IRV range 0.17-0.36)

4 adults netted: mass 21-28; wing 80-89; active brood patch Aug

DL 97: common in wooded grassland

Grey Penduline Tit, R, Remizidae, *Anthoscopus caroli*, Rémiz de Carol

Iboubikro 5 Nov 2004 & 1 Oct 2006

DL 97: wooded grassland (local); race ansorgei

Violet-tailed Sunbird, R, Nectariniidae, *Anthreptes aurantium*, Souimanga à queue violette

Lefini, Louna & Lesio rivers, also Lac Bleu; singles & pairs all year, also small groups; nest-building Apr, Jul; at nest Nov; feeding nestlings Dec; feeding juveniles Jan, Jul, Oct; juveniles Jan, Mar, Jun, Jul, Oct, Dec; cooperative breeding observed

Recorded at 4 list sites, esp confluent camp (IRV 0.28) & Iboubikro ponds (0.17)

2 males, 3 females & 1 juv netted: mass 12-13 (m), 12-13 (f), 13 (juv); wing 65-66 (m), 62 (f), 64 (juv); 1° moult Jan; juv Jan

DL 97: forest on the edge of water

Green Sunbird, R, Nectariniidae, *Anthreptes rectirostris*, Souimanga à bec droit

7 obs: Iboubikro Oct-Dec, Mar; almost always in pairs

Little Green Sunbird, R?, Nectariniidae, *Anthreptes seimundi*, Souimanga de Seimund

One 8 Mar 2005, confluent; small group 30 Mar 2007, Abio island

Fraser's Sunbird, R, Nectariniidae, *Deleornis fraseri*, Souimanga de Fraser

DL 97: common in forest

Reichenbach's Sunbird, R, Nectariniidae, *Anabathmis reichenbachii*, Souimanga de Reichenbach

Lefini, Louna & Lesio rivers, Iboubikro ponds, Ngondoro marsh; singles, pairs, small groups; carrying nest material Mar; nesting Mar, Jun, Nov, Dec; feeding nestlings & fledglings Nov; feeding juvenile Feb; juveniles Feb, Jul, Oct, Nov; aggressive

Recorded at 4 list sites, esp Iboubikro ponds (where 2nd most visible species, IRV 0.70) & confluent camp (5th most visible species, IRV 0.49)

7 adults & 1 juv netted: mass 7-12 (ad), 10 (juv); wing 53-60 (ad), 58 (juv); active brood patch Dec; 1° moult Mar, Jul

Green-headed Sunbird, R, Nectariniidae, *Cyanomitra verticalis*, Souimanga à tête verte
Iboubikro & Idzoua Inkou; also Mt Blanc & confluent; singles & pairs all year; juveniles Feb, Mar

Recorded at 3 list sites, esp Idzoua Inkou (IRV 0.23) & Iboubikro ponds (0.21)
5 males & 4 females netted: mass 10-15 (m), 10-16 (f); wing 58-67 (m), 60-62 (f); active brood patch Feb; head moulting from juv to female plumage Dec
DL 97: thickets

Blue-throated Brown Sunbird, R, Nectariniidae, *Cyanomitra cyanolaema*, Souimanga à gorge bleue

Forest & forest edge, Iboubikro
1 male netted: mass 14, wing 71
DL 97: forest

Western Olive Sunbird, R, Nectariniidae, *Cyanomitra obscura*, Souimanga olivâtre de l'Ouest
Forest & forest edge throughout; singly or in pairs; all year

Most frequently netted sunbird, but recorded at only 2 list sites: Iboubikro ponds (IRV 0.28) & confluent camp (0.08)
37 males, 13 females, 5 juvs & 2 imm males netted: mass 10-14 (m), 9-12 (f), 8-11 (juv); wing 61-68 (m), 56-60 (f), 56-64 (juv), 59-64 (imm male); prob brood patches Dec; 1° moult Jul-Dec, Feb; juv May, Nov, Dec; 4 recaptured (max Ib-eco; max time 16 wks)
DL 97: as *Nectarinia olivacea*; common in forest & thickets

Green-throated Sunbird, R, Nectariniidae, *Chalcomitra rubescens*, Souimanga à gorge verte
Forest edge throughout, incl Mt Blanc; singles & pairs all year, also small groups; nest-building Sep (using parts of old nest & spiders web); at nest Mar; pair with juvenile Oct
With Copper Sunbird, most widely recorded sunbird, from 5 lists sites, but IRV range lower (0.04-0.15)

3 males (1 ad & 2 imm) & 1 female netted: mass 11 (m), 10 (f); wing 66-68 (m), 60 (f); 1° moult Oct, Nov; imm male Nov

Amethyst Sunbird, R, Nectariniidae, *Chalcomitra amethystina*, Souimanga améthyste
Wooded grassland, esp Idzoua Inkou; singles & pairs all year, also small groups; juvenile Feb; imm male Aug, Nov

Recorded at 3 list sites, esp Idzoua Inkou (IRV 0.36)
5 males (2 ad & 3 imm) & 3 females netted: mass 12-14 (m), 11-14 (f); wing 69-71 (m), 63-65 (f); 1° moult Feb (ad female), May & Aug (imm males); 1 recapture (female, 1 day, ecogarde nets 296 & 297)

DL 97: common in wooded grassland & thicket edges

Collared Sunbird, R, Nectariniidae, *Hedydipna collaris*, Souimanga à collier
Forest edge throughout (but not Idzoua Inkou or Mt Blanc); singles & pairs all year; also small groups; carrying nest material April

Recorded at 2 list sites, Iboubikro ponds & confluent camp (both IRV 0.13)
1 male & 2 females netted: mass 8 (m), 8 (f); wing 53 (m), 50-51 (f); active brood patch Dec; 1° moult Oct

DL 97: common in forest & thickets

Olive-bellied Sunbird, R, Nectariniidae, *Cinnyris chloropygius*, Souimanga à ventre olive
Forest edge throughout, incl Mt Blanc (but not Idzoua Inkou); singles all year; pairs Dec-Apr; also small groups

Recorded at 3 list sites, with high IRV values at confluent camp (0.74) & Iboubikro ponds (0.62)
5 males, 2 females & 3 juveniles netted: mass 6-7 (m), 6 (f), 5-7 (juv); wing 50-52 (m), 47-48 (f), 47-50 (juv); active brood patch Nov; 1° moult Dec; juv Oct, Nov

DL 97: common in forest & thickets

Congo Sunbird, V?, Nectariniidae, *Cinnyris congensis*, Souimanga du Congo
DL 97: male between Lefini R. & Ngo, 1 Feb 1994 (RJD)

Orange-tufted Sunbird, ?, Nectariniidae, *Cinnyris bouvieri*, Souimanga de Bouvier
One photographed 1 Mar 2007 on road along northern boundary of Lefini north

Johanna's Sunbird, R, Nectariniidae, *Cinnyris johannae*, Souimanga de Johanna
DL 97: forest

Copper Sunbird, R, Nectariniidae, *Cinnyris cupreus*, Souimanga cuivré
Wooded grassland & degraded forest throughout; singles all year; also pairs & small groups;
carrying nest material Feb; at nest Feb; feeding nestlings Mar
With Green-throated Sunbird, most widely recorded sunbird, from 5 lists sites, with high IRV
values, esp Mt Blanc (IRV 0.85, others IRV range 0.05-0.33)
1 male & 1 female netted: mass 8 (m), 9 (f); wing 59 (m), 57 (f);
DL 97: common in wooded grassland

Common Fiscal, R, Laniidae, *Lanius collaris*, Pie-grièche fiscale
Wooded grassland throughout LL & plateau; singles all year; juveniles Nov, Dec, Jan
Recorded at 3 list sites, esp camp des ecogardes (IRV 0.38, others 0.02-0.05). Observed during
7.7% of vehicle transects between Mpoumako & Abio, and during 31.7% from Iboubikro to Mâh
DL 97: common in wooded & rocky grassland

Sousa's Shrike, R?, Laniidae, *Lanius souzae*, Pie-grièche de Sousa
DL 97: wooded grassland (local)

Marsh Tchagra, R, Malaconotidae, *Antichromus minutus*, Tchagra des marais
Mt Blanc marsh, in pairs
IRV value 0.15 at Mt Blanc
DL 97: as *Tchagra minuta*; rank grassland

Black-crowned Tchagra, R, Malaconotidae, *Tchagra senegala*, Tchagra à tête noire
Wooded grassland throughout; singles & pairs all year; small group Nov
DL 97: common in wooded grassland

Northern Puffback, R, Malaconotidae, *Dryoscopus gambensis*, Cubla de Gambie
3 obs: Idzoua Inkou & Mt Blanc
DL 97: thickets & forest

Sooty Boubou, R, Malaconotidae, *Laniarius leucorhynchus*, Gonolek fuligineux
Iboubikro ponds
3 adults netted: mass 54-57; wing 94-101; 1° moult Aug, Dec
DL 97: common in forest & large thickets

Square-tailed Drongo, R, Dicruridae, *Dicrurus ludwigii*, Drongo de Ludwig
Forest edge, Idzoua Inkou (4 obs)
DL 97: gallery forest

Velvet-mantled Drongo, R, Dicruridae, *Dicrurus modestus*, Drongo modeste
Confluent (5 obs) & Louna river (1); always singly, perched high on exposed branch in gallery
forest

Pied Crow, R, Corvidae, *Corvus albus*, Corbeau pie
Mâh; one flying high westwards over confluent 16 Apr 2004
DL 97: villages

Forest Chestnut-winged Starling, R, Sturnidae, *Onychognathus fulgidus*, Rufipenne de forêt
Lefini river (2 obs)
DL 97: common in forest

Purple-headed Glossy Starling, R, Sturnidae, *Lamprotornis purpureiceps*, Choucador à tête pourprée

Iboubikro (3 obs), confluent (2) & Louna river (1); pairs; all year

Cape Glossy Starling, V?, Sturnidae, *Lamprotornis nitens*, Choucador à épaulettes rouges
DL 97: 1 pair at Lac Bleu (2nd record for Congo)

Splendid Glossy Starling, R, Sturnidae, *Lamprotornis splendidus*, Choucador splendide
Gallery forest throughout; pairs & small groups; flock of 24 at Ngondoro 9 Jan 2004; Aug-Jan,
Apr, Jun
DL 97: On passage (forest: LM)

Violet-backed Starling, R, Sturnidae, *Cinnyricinclus leucogaster*, Spréo améthyste
Wooded grassland throughout, esp Idzoua Inkou; pairs Mar-Sep; small groups Feb-Oct; flocks
10+ Apr, May, Sep
Recorded at 4 list sites, esp Idzoua Inkou (where 2nd most visible species, IRV 0.55, elsewhere
IRV range 0.03-0.04)

2 males & 4 females netted: mass 38-39 (m), 40-43 (f); wing 104-106 (m), 97-103 (f); 1° moult
Dec

DL 97: common in wooded grassland & thickets

Northern Grey-headed Sparrow, R, Passeridae, *Passer griseus*, Moineau gris

Singles & pairs in camps & villages; Dec-Jun

1 netted Feb 2002: mass 28; wing 85

DL 97: villages

Yellow-throated Petronia, R, Passeridae, *Petronia superciliaris*, Moineau bridé

Wooded grassland, esp Idzoua Inkou; singles & pairs all year; small groups May, Sep; feeding
juvenile Sep

Recorded at 2 list sites: Idzoua Inkou (IRV 0.41) & camp des ecogardes (0.04)

16 adults & 2 juv/imm netted: mass 23-28 (ad), 24-26 (juv/imm); wing 87-95 (ad), 82-85
(juv/imm); all in 1° moult Nov-Dec, also May; juv Nov; 2 recaptures (3 days, ecogarde nets 242
& 243, 243 & 249)

DL 97: common in wooded grassland

Black-chinned Weaver, R, Ploceidae, *Ploceus nigrimentum*, Tisserin à menton noir

Wooded grassland; between Iboubikro & Mâh (13 Jan 2004, 20 Jun 2006) & by sand-pits near
Abio camp (11 Sep 2006)

DL 97: widespread in wooded grassland, in pairs/families

Holub's Golden Weaver, R, Ploceidae, *Ploceus xanthops*, Tisserin safran

Mt Blanc; 28 Feb 2004 (1), 7 Jan 2006 (pair) & 16 Apr 2007 (male, beside 2 or 3 nests; see
photos)

Vieillot's Black Weaver, R, Ploceidae, *Ploceus nigerrimus*, Tisserin noir

Wooded grassland, forest edges, rivers, camps & villages; nesting colonies Aug-Feb;
Recorded at 5 list sites, IRV range 0.02-0.38

7 m, 13 f & 8 others netted: mass 35-39 (m), 28-33 (f), 28-34 (?); wing 82-86 (m), 73-81 (f), 73-
80 (?); 1° moult Mar; possible active brood patches Dec, Jan (but fairly yellow eyes); does eye
colour in male change during moult to ad plumage?; 1 recap

Village Weaver, R, Ploceidae, *Ploceus cucullatus*, Tisserin gendarme

Breeding colonies in villages; ssp *collaris*? See photos

1 adult male netted in breeding plumage 27 Dec 2005, camp des ecogardes: mass 40; wing 85

Yellow-mantled Weaver, R/V?, Ploceidae, *Ploceus tricolor*, Tisserin tricolore

Confluent 19-21 Jan 2004 (1) & 6 Dec 2004 (pair)

- Compact Weaver**, R, Ploceidae, *Ploceus superciliosus*, Tisserin gros-bec
Pairs or small groups, Mt Blanc; breeding plumage Nov, Jan-Mar
IRV 0.31 at Mt Blanc
- Blue-billed Malimbe**, R, Ploceidae, *Malimbus nitens*, Malimbe à bec bleu
Gallery forest & ponds, Iboubikro (3 obs) & Louna river (1 obs); Jan, Feb, Nov; singles & pairs
DL 97: gallery forest (LM)
- Crested Malimbe**, R, Ploceidae, *Malimbus malimbicus*, Malimbe huppé
DL 97: gallery forest
- Red-headed Malimbe**, R/V?, Ploceidae, *Malimbus rubricollis*, Malimbe à tête rouge
Singles high in gallery forest at confluent 19 & 20 Jan 2004, 25 Mar 2004
- Red-headed Quelea**, R, Ploceidae, *Quelea erythrops*, Travailleur à tête rouge
Flocks in grassland throughout (Ngondoro, Mt Blanc, camp des ecogardes, Lefini river);
breeding plumage Dec-Mar
2 females or non-breeding males netted, Aug & Nov: mass 15-16; wing 60-64
- Black-winged Red Bishop**, R, Ploceidae, *Euplectes hordeaceus*, Euplecte monseigneur
Mâh plateau (only 2 obs), Lefini north (abundant); breeding plumage Feb, Mar, May
- Yellow-mantled Widowbird**, R, Ploceidae, *Euplectes macrourus*, Euplecte à dos d'or
Singles & flocks common in grassland throughout; breeding plumage Nov-May, non-breeding
Jul-Nov, in moult Nov
Recorded at 5 list sites, esp Mt Blanc (IRV 0.92), camp des ecogardes (0.42) & Idzoua Inkou
(0.23)
3 m (incl 2 in breeding plumage) & 4 f netted; mass 24-29 (m), 19-25 (f); wing 81 (m), 66-75 (f);
active brood patch Feb; male at end of 1° moult to non-breeding plumage Aug; 1° moult finished
& tail moult nearly finished to breeding plumage 29 Nov
DL 97: common in any grassland
- White-winged Widowbird**, R, Ploceidae, *Euplectes albonotatus*, Euplecte à épaules blanches
Mt Blanc marsh (2 obs): 14 Feb 2005 (breeding plumage), 28 Dec 2005 (in moult)
DL 97: v local, tall plateau grassland
- Red-collared Widowbird**, R, Ploceidae, *Euplectes ardens*, Euplecte veuve-noire
Rank grassland on plateau, esp near Mpoumako; Lefini north (abundant); Iboubikro ponds (1
obs); breeding plumage Feb-May
Observed during 17.9% of vehicle transects between Mpoumako & Abio, and during 0% from
Iboubikro to Mâh
- Marsh Widowbird**, R, Ploceidae, *Euplectes hartlaubi*, Euplecte des marais
Moist grasslands throughout, but not on plateau; singles pairs, & small groups; breeding plumage
Nov-Jun, non-breeding Jun-Jul
Recorded at 2 list sites: Louna river (IRV 0.14) & Iboubikro ponds (0.11)
DL 97: common in dense moist grassland
- Grey-crowned Negrofinch**, R, Estrildidae, *Nigrita canicapilla*, Nigrette à calotte grise
Iboubikro camp, 17 & 26 Sep 2005
1 female netted 16 Aug 2006: mass 12; wing 56; possible active brood patch; 1° moult
DL 97: forest (LM)
- Pale-fronted Negrofinch**, R, Estrildidae, *Nigrita luteifrons*, Nigrette à front jaune
Forest edges throughout (Idzoua Inkou, Iboubikro, confluent); singles & pairs; nest-building Jan
Recorded at 3 list sites, IRV range 0.03-0.14
DL 97: forest edges
- Chestnut-breasted Negrofinch**, R, Estrildidae, *Nigrita bicolor*, Nigrette à ventre roux
Iboubikro ponds (14 Jan 2004), confluent (12 Nov 2004)

DL 97: gallery forest

White-breasted Negronfinch, R, Estrildidae, *Nigrita fusconota*, Nigrette à ventre blanc

DL 97: widespread in any forest

Orange-winged Pytilia, R, Estrildidae, *Pytilia afra*, Beaumarquet à dos jaune

Small flocks in wooded grassland (Idzoua Inkou, camp des ecogardes)

12 adults & 2 juveniles netted: mass 14-19 (ad), 17-19 (juv); wing 57-63 (ad), 61 (juv); 1° moult

Aug, Oct, Feb; juv Oct

DL 97: wooded grassland with rank grass

Black-bellied Seedcracker, R, Estrildidae, *Pyrenestes ostrinus*, Pyréneste ponceau

Bushy vegetation, Iboubikro ponds (2 obs) & confluent (2 obs); singles; singing Jan

DL 97: rank grass with bushes, thicket edges

Western Bluebill, R, Estrildidae, *Spermophaga haematina*, Sénégal (ou Grosbec) sanguin

ssp *pustulata*; forest, Iboubikro & confluent

4 males, 1 female & 1 juvenile netted: mass 23-25 (m), 24 (f), 22 (juv); wing 67-75 (m), 66 (f),

70 (juv); 1° moult Dec; juv Jan

DL 97: forest understorey

Blue-billed Firefinch, R, Estrildidae, *Lagonosticta rubricata*, Amarante flambé

Singles & pairs, Mt Blanc & elsewhere on Mâh plateau

1 male netted Ngondoro 4 Dec 2002: mass 10; wing 46

DL 97: thickets & forest understorey (near edges)

Fawn-breasted Waxbill, R, Estrildidae, *Estrilda paludicola*, Astrild à poitrine fauve

Moist grassland (Ngondoro marsh, Mt Blanc, Etsotso); juveniles Jan

DL 97: moist grassland

Orange-cheeked Waxbill, R, Estrildidae, *Estrilda melpoda*, Astrild à joues oranges

Tall grassland throughout; pairs, small groups & flocks; juveniles Feb

Recorded at 4 list sites, esp Mt Blanc (IRV 0.85), Iboubikro ponds (0.34) & camp des ecogardes (0.21)

4 netted: mass 6-8; wing 43-47

DL 97: wooded grassland & open secondary grassland

Common Waxbill, X?, Estrildidae, *Estrilda astrild*, Astrild ondulé

DL 97: moist grassland (LM)

Zebra Waxbill, M?, Estrildidae, *Amandava subflava*, Bengali zébré

ssp *clarkei*; tall grassland Nov-Jan (8 obs); camp des ecogardes, Iboubikro, Idzoua Inkou, Ngondoro; singles, pairs & small groups

Locust Finch, R?, Estrildidae, *Ortygospiza locustella*, Astrild-caille à gorge rouge

DL 97: short moist grassland

Black-chinned Quailfinch, R?, Estrildidae, *Ortygospiza gabonensis*, Astrild-caille à gorge noire

One Iboubikro ponds 1 Jun 2006

DL 97: widespread in short grassland

Bronze Mannikin, R, Estrildidae, *Lonchura cucullata*, Capucin nonnette

Small & large flocks common in grassland throughout; nest-building Jan, Feb; at nest Dec, Feb; juveniles Feb-May, Sep; group of 7 juveniles without adults Feb 2007

Recorded at 6 list sites, IRV range 0.09-0.54

5 netted: mass 8-9; wing 47-49; 1° moult Apr, Jul

DL 97: common in tall grassland & wooded grassland

Black-and-white Mannikin, R, Estrildidae, *Lonchura bicolor*, Capucin bicolor

DL 97: common in tall grassland (more on forest edges)

Pin-tailed Whydah, R, Viduidae, *Vidua macroura*, Veuve dominicaine

Common in grassland on plateau; rarely in reserve except non-breeding birds at camps; breeding plumage Nov-Apr, non-breeding plumage Sep-Nov

1 adult netted, non-breeding plumage, but in 1° moult, Iboubikro 4 Nov 2006: mass 13; wing 70

Black-throated Seedeater, R, Fringillidae, *Serinus atrogularis*, Serin à gorge noire

Wooded grassland throughout; pairs & small flocks; carrying nest material Feb

Recorded at 3 list sites, esp Idzoua Inkou (IRV 0.23)

11 netted: mass 9-11; wing 65-70; large propn in 1° moult Nov, Dec

DL 97: common in wooded grassland

Yellow-fronted Canary, R, Fringillidae, *Serinus mozambicus*, Serin du Mozambique

Mt Blanc 15 Jan 2004 (small group) & 11 Feb 2005 (single)

Cinnamon-breasted Rock Bunting, M, Emberizidae, *Emberiza tahapisi*, Bruant cannelle

Wooded grassland & camps with bare ground, Oct-Apr; singles, pairs & small groups

Recorded at 5 list sites, IRV range 0.05-0.42

7 netted (incl at least 6 females), Oct-Dec, Mar: mass 12-16; wing 72-78; 1° moult Mar

DL 97: bare ground with rocks, with seasonal movements

Cabanis's Bunting, R, Emberizidae, *Emberiza cabanisi*, Bruant de Cabanis

1 adult netted, camp des ecogardes 5 Nov 2005; mass 23, wing 76

DL 97: widespread in wooded grassland



Figs 37-41. White-crested Tiger Heron on nest, juvenile Martial Eagle, Black-breasted Snake Eagle, Common Greenshank & Zebra Waxbill – five of the 60 species newly reported for the Lesio-Louna & Lefini Reserves (Photos: T. King)

Discussion

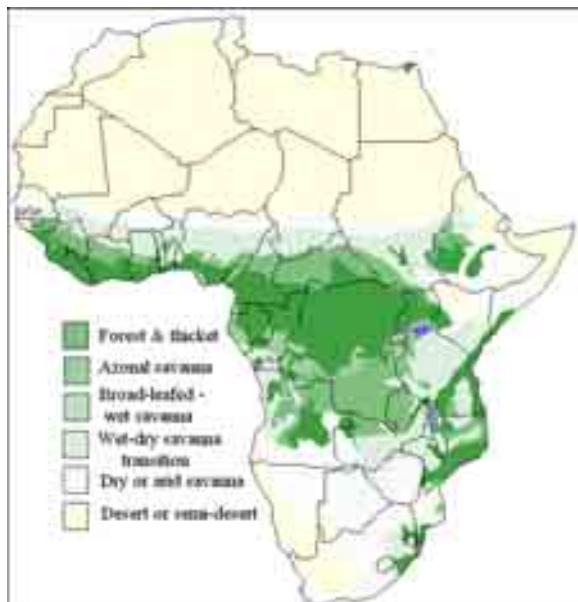


Fig 42. Simplified and generalised distribution of major vegetation types in Africa, adapted from NASA (undated). Forest and thicket = “Humid forest” and “Coastal forest, or evergreen thicket”; Azonal savanna = “Azonal savanna in wet savanna zone”; Broad-leaved – wet savanna = “Broad-leaved savanna – wet savanna”; Wet-dry savanna transition = “Transition zone wet and dry savanna (Northern Hemisphere)” and “Fine-leaved dry savanna - transition (Southern Hemisphere)”; Dry or arid savanna = “Fine-leaved dry savanna (Northern Hemisphere)”, “Fine-leaved dry arid savanna (Southern Hemisphere)” and “Fine-leaved dry savanna (Southern Hemisphere)”; Desert or semi-desert = “Desert, semi-desert, and water”.

The preliminary analysis presented in this report of the information available regarding the avifauna of the Lesio-Louna and Lefini Reserves requires refinement and completion, but still provides the most complete picture currently available for a single location within the Batéké Plateaux region of Central Africa. The discoveries of both southern African woodland species, such as Miombo Pied Barbet, and of central African rainforest species, such as Sladen’s Barbet, reinforce the categorisation by Dowsett-Lemaire (2001) of the Batéké Plateaux as part of the Guinea-Congolian/Zambezian transition zone of White (1983). The mixing of these two major African avifaunas on the Plateaux provides a highly diverse bird community, although overall species richness is poor when compared to other sites in Congo with much more complete forest avifaunas. Therefore it is the savanna avifauna of the reserves which is of higher conservation value than that of the forest. As elsewhere on the Batéké Plateaux, the reserves are an important refuge for the Black-chinned Weaver, Finsch’s Francolin and Congo Moor Chat. The Black-chinned Weaver prefers wooded grassland, while the Congo Moor Chat is abundant in open plains of *Loudetia* grassland, being easily seen along the track from Mpoumako to Abio. Finsch’s Francolin is generally difficult to see, except when surprised along savanna tracks, but is widely distributed in both wooded and open *Loudetia* grasslands. The species presumably suffers to a certain extent from local hunting pressure, although the species most frequently observed for sale in villages were Red-necked Francolin, African Crake, and Little Buttonquail. Of other species of conservation interest, the single sighting of Brazza’s Martin, only the fifth published record for Congo (King 2007a), suggests that the species is a non-breeding visitor to the reserves, as breeding birds would otherwise have been expected to have been recorded during the numerous boat trips along the Louna or Lefini rivers. The Black-headed Bee-eater, one of the largest members of the family and possibly the rarest, is fairly common, breeding in holes in the sandy grassland border of gallery forest throughout the area. Apart from hunting of game birds, the major threats to the birds of the reserves appear to be the excessive burning of savanna areas, often four or five times a year, which surely disrupts grassland nesting activities and perhaps also availability of arthropod and seed food sources, and the deforestation of the cliff forests along the eastern boundary of the Lesio-Louna Reserve for charcoal and crop plantations (fig 43).

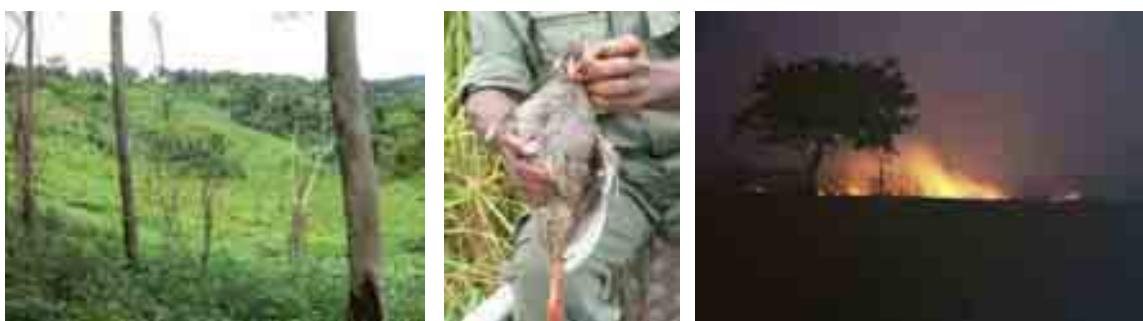


Fig 43. Threats to birds of the Lesio-Louna and Lefini Reserves and surrounding areas: severe deforestation of cliff forests, hunting of game birds, and excessive savanna burning (Photos: T. King (a,b), S. Muilerman (c))

Some of the most interesting discoveries during the survey were of various species of barbet and tinkerbird (family Capitonidae), showing the area to support a particularly rich and diverse assemblage of barbet species, with 10 species recorded in the Lesio-Louna reserve alone. For three of these species (Miombo Pied Barbet, Yellow-fronted Tinkerbird and Sladen's Barbet), the Lesio-Louna is the only known locality where they exist in Congo (King & Chamberlain in press). Outside Africa, the barbet family is exclusively forest-dwelling (Short & Horne 2001). Their high diversification in Africa is regarded to be due to extreme cyclical changes that have repeatedly restricted lowland and upland forests, favouring adaptations in ancestral barbets to leave the forest and penetrate the woodland, bushland and scrubland habitats that today dominate much of the continent (Short & Horne 2001). Once forest-dependence was broken, speciation

processes appear to have been most active within the woodland-grassland fringe of the African forest (Short & Horne 1988), due to the separation of woodland segments by forests or by xeric conditions (Short & Horne 1991), while mutations relating to replacement plumage patterning may also have played a role (Short *et al.* 1983). Given its geographic location in the heart of the Congo Forest Basin and its diversity of woodland and forest habitats it is unsurprising, therefore, that the Batéké Plateaux supports a rich barbet fauna, containing species associated with both the south-central African woodlands and the large Congolian forest block.



Fig 44. Nine of the ten species of Capitonidae found in the Lesio-Louna Reserve: Red-rumped, Yellow-rumped, Yellow-throated & Speckled Tinkerbirds, Miombo Pied Barbet, Yellow-fronted Tinkerbird, Hairy-breasted, Sladen's & Grey-throated Barbets (Photos: D. Hayman (a,b), C. Chamberlain (c,d,e,h,i), T. King (f,g))

Much of the data collected during this survey was aimed at trying to understand the seasonality in breeding and moult cycles of the bird communities. This preliminary analysis has only touched the surface of this wealth of information, and a full analysis was outside the scope of this report. However, some broad patterns have emerged, such as the apparent rigidity of the annual cycles of the savanna avifauna, and the relatively more flexible cycles of the forest avifauna. There appears to be a major moult season in savanna birds beginning around October, following a period of very little moult activity during the dry season. For example, several species of Ploceidae, such as the widowbirds and queleas, have distinct breeding plumages which are worn during the wet season, more-or-less from Nov to May, before moulting into non-breeding plumage for the dry season. Many forest birds also appear to moult around October to December, but the pattern is less distinct than for savanna birds, and several were also found to be in moult during the dry season.



Figs 45-47. Congo Moor Chat, Finsch's Francolin & Black-headed Bee-eater, three of the highlights of a visit to the Lesio-Louna and Lefini Reserves (Photos: T. King)

The Lesio-Louna and Lefini Reserves do not support a particularly species-rich bird community, and visitors are often surprised by the apparent absence of a noisy and visible avifauna. However, with time and effort, the reserves can provide a rewarding and unique diversity of forest and savanna species for the enthusiastic birdwatcher, including large enigmatic grassland species such as Black-bellied and White-bellied Bustards, central African grassland endemics such as Congo Moor Chat, Finsch's Francolin and Black-chinned Weaver, rarely-seen specialities such as Black-headed Bee-eater and Sladen's Barbet, forest favourites such as Grey Parrot and various species of Hornbill and Turaco, a wealth of kingfishers, barbets, tinkerbirds, sunbirds, widowbirds and weavers, and of course the amazing spectacle of the annual migration of thousands of Abdim's Storks between February and May. Exploring the diversity of habitats within the reserves is the key to appreciating the diversity of the avifauna, from the Lesio gallery forest and seasonal ponds at Iboubikro, the wooded grassland surrounding the forest islet of Idzoua Inkou, the grassy marsh and surrounding rank *Hyparrhenia* grassland at Mt Blanc, the open *Loudetia* grassy plains between Mpoumako and Abio, and the meandering Louna river between Abio camp and Abio island. With a bit more effort, the impressive escarpments of Mt Abio, Mt Epopé and Mt Ngaka provide better chances of seeing raptors and hirundines. For the adventurous, the cliff forests along the eastern boundary of the Lesio-Louna reserve have so far been little visited, and are likely to support further forest species than have yet been recorded. Equally, Lac Sampion has been inadequately surveyed, as has the whole of the northern and eastern sectors of the Lefini Reserve. While this report adds much to our knowledge of the birds of the Lesio-Louna and Lefini Reserves, much is still to be discovered, and any reliable records from the area should be collated and passed on to an appropriate authority, such as the West African Ornithological Society or the African Bird Club.

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Appendix 1. Indices of Relative Visibility (IRVs) for 175 bird species at 7 sites in the Lesio-Louna and Lefini reserves.

| English name (B&D 2001) | Abio - Confluent | Confluent - Mbouambé | Confluent camp | Camp des ecogardes | Iboubikro ponds | Idzoua Inkou | Mt Blanc | Sites IRV>0 |
|-----------------------------|------------------|----------------------|----------------|--------------------|-----------------|--------------|----------|-------------|
| Little Grebe | | | | | 0.13 | | | 1 |
| African Darter | 0.03 | 0.09 | | | | | | 2 |
| Squacco Heron | | | 0.03 | | 0.04 | | | 2 |
| Cattle Egret | 0.03 | 0.09 | | | 0.06 | | | 3 |
| Green-backed Heron | 0.17 | | 0.03 | | 0.04 | | | 3 |
| Little Egret | | | 0.03 | | | | | 1 |
| Intermediate Egret | | | | 0.02 | | | | 1 |
| Great Egret | | | | 0.08 | | | | |
| Purple Heron | 0.10 | 0.09 | | | 0.04 | | | 3 |
| Grey Heron | | | | | 0.04 | | | 1 |
| Hamerkop | 0.48 | 0.09 | 0.05 | | 0.28 | | | 4 |
| Abdim's Stork | 0.17 | | | | | | | 1 |
| European Honey Buzzard | | | 0.03 | | | | | 1 |
| Black-shouldered Kite | | | | 0.02 | | | | 1 |
| Black Kite | 0.10 | 0.09 | 0.03 | | | | | 3 |
| African Fish Eagle | 0.07 | | | | | | | 1 |
| Palm-nut Vulture | | | | 0.04 | | | | 1 |
| Eurasian Marsh Harrier | | | | | 0.18 | | | 1 |
| Dark Chanting Goshawk | | | | | | | | 1 |
| Long-tailed Hawk | | | 0.13 | | | | | |
| Lizard Buzzard | 0.07 | | | | | | | 1 |
| Red-necked Buzzard | 0.03 | | | | | 0.05 | 0.08 | 3 |
| Finsch's Francolin | | | | | 0.04 | | | 1 |
| Red-necked Francolin | | | | | 0.13 | | | 1 |
| African Finfoot | | | | | | | | 1 |
| White-bellied Bustard | | | | | | 0.05 | | 2 |
| African Jacana | | | | | | | | 1 |
| Temminck's Courser | | | | | | | 0.05 | 1 |
| Lesser Black-winged Lapwing | | | | | | 0.02 | 0.05 | 2 |
| Common Sandpiper | 0.10 | | | 0.03 | | | 0.04 | 3 |

| English name (B&D 2001) | Abio - Confluent | Confluent - Mbouambé | Confluent camp | Camp des écogardes | Iboubikro ponds | Idzoua Inkou | Mt Blanc | Sites I RV>0 |
|-----------------------------|------------------|----------------------|----------------|--------------------|-----------------|--------------|----------|--------------|
| African Green Pigeon | 0.17 | 0.36 | 0.31 | 0.09 | 0.09 | 0.09 | 0.09 | 5 |
| Blue-headed Wood Dove | | 0.09 | | | | | | 1 |
| Tambourine Dove | | | 0.05 | | | | | 1 |
| Blue-spotted Wood Dove | 0.07 | 0.18 | 0.18 | 0.04 | 0.19 | 0.14 | 0.15 | 7 |
| Western Bronze-naped Pigeon | 0.14 | 0.27 | 0.15 | 0.10 | 0.09 | | | 4 |
| Afep Pigeon | 0.03 | | | | | | | 2 |
| Red-eyed Dove | 0.10 | 0.09 | 0.26 | 0.42 | 0.26 | 0.45 | | 6 |
| Grey Parrot | 0.62 | 0.82 | 1.00 | 0.33 | 0.19 | | | 5 |
| Great Blue Turaco | 0.03 | | | | | | | 1 |
| Green Turaco | 0.07 | | | | | | | 1 |
| Red-chested Cuckoo | | | 0.03 | | | | | 1 |
| African Cuckoo | | | | | 0.05 | 0.08 | | 1 |
| Didric Cuckoo | | | | | | 0.02 | | 1 |
| Gabon Coucal | | | | | | 0.21 | | 2 |
| Senegal Coucal | 0.07 | | | | | 0.02 | | 1 |
| Blue-headed Coucal | | | | | | | | 1 |
| Spotted Eagle Owl | | | | | 0.05 | | | 1 |
| Swamp Nightjar | | | | | 0.04 | | | 1 |
| Long-tailed Nightjar | | | | | 0.08 | | | 1 |
| African Palm Swift | | | | | 0.08 | 0.13 | 0.05 | 5 |
| Common Swift | 0.24 | 0.45 | 0.28 | 0.08 | 0.15 | 0.23 | 0.08 | 7 |
| Little Swift | 0.03 | 0.82 | | | 0.06 | | | 3 |
| Speckled Mousebird | | | | | | | 0.46 | 1 |
| Brown-hooded Kingfisher | 0.07 | | | | | 0.05 | 0.08 | 2 |
| Grey-headed Kingfisher | | | | | | 0.09 | | 2 |
| Blue-breasted Kingfisher | | | | | 0.02 | | | 1 |
| Woodland Kingfisher | 0.38 | 0.64 | 0.82 | | 0.43 | | | 4 |
| Striped Kingfisher | | | | | | 0.18 | | 1 |
| African Pygmy Kingfisher | 0.03 | | | | | 0.13 | 0.05 | 4 |
| Shining-blue Kingfisher | | | | | | 0.05 | | 2 |
| Giant Kingfisher | 0.52 | 0.27 | | | 0.21 | | | 3 |

| English name (B&D 2001) | Abio - Confluent | Confluent - Mbouambé | Confluent camp | Camp des écogardes | Iboubikro ponds | Idzoua Inkou | Mt Blanc | Sites I RV>0 |
|-----------------------------|------------------|----------------------|----------------|--------------------|-----------------|--------------|----------|--------------|
| Pied Kingfisher | 0.38 | 0.36 | 0.18 | | | | | 3 |
| Black-headed Bee-eater | 0.24 | 0.09 | 0.05 | 0.04 | | | | 4 |
| Black Bee-eater | 0.14 | | | 0.04 | | | | 2 |
| Little Bee-eater | | | | 0.21 | | | | 3 |
| Blue-breasted Bee-eater | 0.10 | | | 0.42 | | | | 5 |
| White-throated Bee-eater | 0.03 | | | | 0.02 | | | 1 |
| European Bee-eater | 0.14 | 0.09 | 0.08 | 0.13 | 0.09 | 0.09 | 0.15 | 7 |
| Rosy Bee-eater | 0.07 | | | | | | | 1 |
| Broad-billed Roller | 0.28 | 0.27 | 0.21 | 0.13 | 0.02 | | | 5 |
| African Pied Hornbill | 0.34 | 0.45 | 0.31 | 0.21 | 0.23 | | | 5 |
| Piping Hornbill | 0.03 | | 0.15 | 0.04 | 0.04 | | | 4 |
| Sladen's Barbet | | | | 0.13 | | | | 1 |
| Speckled Tinkerbird | 0.03 | | 0.21 | | 0.13 | | | 3 |
| Red-rumped Tinkerbird | | | | | 0.04 | | | 1 |
| Yellow-throated Tinkerbird | | | | 0.17 | | | | 3 |
| Yellow-rumped Tinkerbird | | | | 0.05 | | | | 3 |
| Miombo Pied Barbet | | | | 0.03 | | | | 1 |
| Black-backed Barbet | | | | | 0.09 | | | 1 |
| Brown-eared Woodpecker | | | | | 0.08 | | | 2 |
| Cardinal Woodpecker | | | | | | 0.09 | | 1 |
| Yellow-crested Woodpecker | | | | | | 0.08 | | 1 |
| Flaplet Lark | | | | | 0.04 | | 0.09 | 2 |
| Black Saw-wing | | | | | 0.58 | | 0.68 | 2 |
| Banded Martin | 0.38 | 0.09 | 0.03 | 0.17 | 0.04 | 0.05 | 0.62 | 7 |
| Rufous-chested Swallow | 0.10 | 0.09 | 0.45 | 0.17 | 0.02 | 0.05 | 0.08 | 6 |
| Lesser Striped Swallow | | | | | | | 0.54 | 2 |
| Rock Martin | | | | 0.03 | | | | 1 |
| White-throated Blue Swallow | | | | 0.38 | 0.04 | | | 4 |
| Barn Swallow | | | | | 0.04 | | | 1 |
| Long-legged Pipit | | | | | | 0.04 | | 1 |
| Yellow-throated Longclaw | 0.03 | | | | 0.63 | 0.09 | 0.14 | 4 |

| English name (B&D 2001) | Abio - Confluent | Confluent - Mbouambé | Confluent camp | Camp des écogardes | Iboubikro ponds | Idzoua Inkou | Mt Blanc | Sites I RV>0 |
|-----------------------------|------------------|----------------------|----------------|--------------------|-----------------|--------------|--------------|--------------|
| Little Greenbul | | | 0.41 | | 0.09 | | | 2 |
| Little Grey Greenbul | | | 0.05 | | | | | 1 |
| Swamp Palm Bulbul | 0.31 | 0.45 | 0.18 | | | | | 3 |
| Common Bulbul | 0.52 | 0.18 | 0.62 | 0.46 | 0.81 | 0.50 | 0.77 0.08 | 7 1 |
| Black-collared Bulbul | | | | | | | | |
| Western Nicator | | 0.09 | | | 0.06 | | | 2 |
| Sooty Chat | 0.21 | | | 0.75 | | 0.41 | 0.23 0.15 | 4 2 |
| Winding Cisticola | | | | 0.43 | | | | |
| Croaking Cisticola | | | 0.25 | | | | | |
| Short-winged Cisticola | | | | | | 0.05 | | 1 |
| Piping Cisticola | | | | | 0.02 | 0.23 | 0.15 | 3 |
| Zitting Cisticola | | | | | 0.38 | | 0.32 | 2 |
| Tawny-flanked Prinia | | | | | 0.33 | 0.06 | 0.18 | 4 |
| White-chinned Prinia | | | | | | | 0.09 | 1 |
| Grey-backed Camaroptera | | | | | 0.02 | 0.05 | 0.05 | 2 |
| Salvador's Eremomela | | | | | | 0.05 | 0.08 | 2 |
| Green-capped Eremomela | | | | 0.08 | | 0.32 | | 2 |
| Green Crombec | | | | | 0.15 | | | 1 |
| Willow Warbler | | | | | 0.02 | | 0.18 | 1 |
| Yellow-bellied Hyliota | | | | | | | | 1 |
| Fraser's Forest Flycatcher | | | | 0.10 | | 0.02 | | 2 |
| Pale Flycatcher | | | | | | | 0.27 0.09 | 2 |
| Spotted Flycatcher | | | | | | | | 2 |
| Cassin's Flycatcher | 0.90 | 0.64 | 0.18 | | 0.08 0.13 | | | 3 |
| Lead-coloured Flycatcher | | | | | | 0.02 | | 1 |
| African Paradise Flycatcher | | | | | | 0.02 | | 1 |
| Bates's Paradise Flycatcher | | | | | | 0.11 | | 1 |
| Black-and-white Flycatcher | | | | | | 0.02 | | 3 |
| Common Wattle-eye | | | | | | 0.04 | | 1 |
| Black-headed Batis | | | | | | 0.04 | | 2 |
| Angola Batis | | | | | | 0.45 | | 1 |

| English name (B&D 2001) | Abio - Confluent | Confluent - Mbouambé | Confluent camp | Camp des écogardes | Iboubikro ponds | Idzoua Inkou | Mt Blanc | Sites I RV>0 |
|---------------------------------|------------------|----------------------|----------------|--------------------|-----------------|--------------|----------|--------------|
| White-winged Black Tit | | | | 0.21 | 0.17 | 0.36 | | 3 |
| Grey Penduline Tit | 0.03 | 0.09 | 0.28 | | 0.02 | | | 1 |
| Violet-tailed Sunbird | | | | | 0.17 | | | 4 |
| Green Sunbird | 0.14 | 0.09 | 0.49 | | 0.02 | | | 1 |
| Reichenbach's Sunbird | | | | | 0.70 | | | 4 |
| Green-headed Sunbird | | | | | 0.21 | 0.23 | 0.08 | 1 |
| Blue-throated Brown Sunbird | | | | | 0.02 | | | 2 |
| Western Olive Sunbird | | | | | 0.28 | | | 2 |
| Green-throated Sunbird | | | | | 0.15 | 0.04 | 0.09 | 3 |
| Amethyst Sunbird | | | | | 0.04 | 0.04 | 0.36 | 3 |
| Collared Sunbird | | | | | 0.13 | 0.13 | | 2 |
| Olive-bellied Sunbird | 0.09 | 0.74 | | | 0.62 | | | 3 |
| Copper Sunbird | | 0.23 | | | 0.23 | 0.05 | 0.85 | 5 |
| Common Fiscal | | | | | 0.38 | 0.02 | 0.05 | 3 |
| Marsh Tchagra | | | | | | | 0.15 | 1 |
| Black-crowned Tchagra | | | | | | 0.02 | 0.05 | 2 |
| Northern Puffback | | | | | | 0.09 | 0.08 | 2 |
| Sooty Boubou | | | | | | 0.02 | | 1 |
| Square-tailed Drongo | | | | | | | 0.09 | 1 |
| Velvet-mantled Drongo | | | | | | | | 1 |
| Pied Crow | | | | | | | | 1 |
| Forest Chestnut-winged Starling | 0.09 | 0.03 | | | | | | 2 |
| Purple-headed Glossy Starling | 0.03 | 0.03 | | | 0.02 | | | 3 |
| Splendid Glossy Starling | | 0.10 | | | 0.02 | | | 2 |
| Violet-backed Starling | 0.03 | 0.18 | | | 0.04 | 0.55 | | 4 |
| Northern Grey-headed Sparrow | | | | | 0.08 | | 0.08 | 3 |
| Yellow-throated Petronia | | | | | 0.04 | 0.41 | | 2 |
| Holub's Golden Weaver | 0.03 | 0.27 | | | | | 0.08 | 1 |
| Vieillot's Black Weaver | | 0.18 | | | | | 0.08 | 5 |
| Village Weaver | | | | | | | | 1 |
| Compact Weaver | | | | | | | 0.31 | 1 |

| English name (B&D 2001) | Abio - Confluent | Confluent - Mbouambé | Confluent camp | Camp des écogardes | Iboubikro ponds | Idzoua Inkou | Mt Blanc | Sites IRV>0 |
|--------------------------------|------------------|----------------------|----------------|--------------------|-----------------|--------------|----------|-------------|
| Blue-billed Malimbe | | | 0.05 | | 0.04 | | | 1 |
| Red-headed Malimbe | | | | | | | | 1 |
| Red-headed Quelea | 0.03 | | | 0.42 | 0.02 | 0.23 | 0.15 | 1 |
| Yellow-mantled Widowbird | | | | | | 0.92 | 0.92 | 5 |
| White-winged Widowbird | | | | | | 0.15 | 0.15 | 1 |
| Red-collared Widowbird | | | | | 0.02 | | | 1 |
| Marsh Widowbird | 0.14 | | | | 0.11 | | | 2 |
| Pale-fronted Negrofinch | | | 0.03 | | 0.04 | 0.14 | | 3 |
| Chestnut-breasted Negrofinch | | | 0.03 | | 0.02 | | | 2 |
| Orange-winged Pytilia | | | | | 0.05 | | | 1 |
| Black-bellied Seedcracker | | | | 0.04 | | | | 1 |
| Western Bluebill | | | 0.03 | | | | | 1 |
| Blue-billed Firefinch | | | | | | 0.15 | 0.15 | 1 |
| Fawn-breasted Waxbill | 0.03 | | | 0.04 | | 0.08 | 0.08 | 2 |
| Orange-cheeked Waxbill | | | | 0.21 | 0.34 | 0.85 | 0.85 | 4 |
| Zebra Waxbill | | | | 0.04 | | | | 1 |
| Black-chinned Quailfinch | | | | | 0.02 | | | 1 |
| Bronze Mannikin | 0.10 | 0.09 | | 0.38 | 0.28 | 0.27 | 0.54 | 6 |
| Pin-tailed Whydah | | | | 0.04 | | | 0.15 | 2 |
| Black-throated Seedeater | | | | 0.08 | 0.11 | 0.23 | | 3 |
| Cinnamon-breasted Rock Bunting | | | 0.18 | 0.42 | 0.11 | 0.05 | 0.08 | 5 |
| Total species IRV>0 | 57 | 37 | 58 | 53 | 86 | 59 | 43 | 175 |
| Total lists completed | 29 | 11 | 39 | 47 | 24 | 22 | 13 | 185 |

Appendix 2. Percentages of species sighted during river transects on the Louna and Lefini rivers.

| English name (B&D 2001) | Louna (Abio – Confluent) | Lefini (Confluent – Mbouambé) |
|-----------------------------|--------------------------|-------------------------------|
| African Darter | 2.7 | 6.7 |
| Cattle Egret | 10.8 | 6.7 |
| Green-backed Heron | 32.4 | |
| Purple Heron | 10.8 | 6.7 |
| Hamerkop | 54.1 | 6.7 |
| Abdim's Stork | 24.3 | 6.7 |
| Black Kite | 10.8 | 13.3 |
| African Fish Eagle | 16.2 | |
| Palm-nut Vulture | 2.7 | |
| Bateleur | 5.4 | |
| Lizard Buzzard | 5.4 | |
| Red-necked Buzzard | 2.7 | |
| African Finfoot | 8.1 | |
| African Jacana | 16.2 | |
| Common Sandpiper | 13.5 | |
| African Green Pigeon | 18.9 | 26.7 |
| Blue-headed Wood Dove | | 6.7 |
| Blue-spotted Wood Dove | 13.5 | 20.0 |
| Western Bronze-naped Pigeon | 16.2 | 26.7 |
| Afep Pigeon | 2.7 | |
| Red-eyed Dove | 18.9 | 20.0 |
| Grey Parrot | 75.7 | 93.3 |
| Great Blue Turaco | 2.7 | |
| Green Turaco | 5.4 | |
| Levaillant's Cuckoo | | 6.7 |
| African Emerald Cuckoo | 2.7 | |
| Gabon Coucal | 2.7 | |
| Senegal Coucal | 5.4 | |
| African Palm Swift | 2.7 | 33.3 |
| Common Swift | 27.0 | 40.0 |
| Little Swift | 8.1 | 80.0 |
| Grey-headed Kingfisher | 5.4 | |
| Woodland Kingfisher | 51.4 | 66.7 |
| African Pygmy Kingfisher | 8.1 | |
| Shining-blue Kingfisher | 8.1 | |
| Giant Kingfisher | 62.2 | 46.7 |
| Pied Kingfisher | 54.1 | 33.3 |
| Black-headed Bee-eater | 24.3 | 6.7 |
| Black Bee-eater | 18.9 | |
| Blue-breasted Bee-eater | 8.1 | |
| White-throated Bee-eater | 5.4 | |
| European Bee-eater | 18.9 | 6.7 |
| Rosy Bee-eater | 5.4 | |
| Broad-billed Roller | 29.7 | 26.7 |
| African Pied Hornbill | 54.1 | 80.0 |
| Piping Hornbill | 21.6 | |
| Speckled Tinkerbird | 5.4 | |
| Banded Martin | 54.1 | 13.3 |
| Rufous-chested Swallow | 8.1 | 6.7 |
| Lesser Striped Swallow | | 53.3 |

Birds of the Lesio-Louna & Lefini Reserves: a preliminary analysis

| English name (B&D 2001) | Louna (Abio – Confluent) | Lefini (Confluent – Mbouambé) |
|---------------------------------|--------------------------|-------------------------------|
| White-throated Blue Swallow | 100.0 | 100.0 |
| Yellow-throated Longclaw | 2.7 | |
| Swamp Palm Bulbul | 35.1 | 33.3 |
| Common Bulbul | 54.1 | 20.0 |
| Western Nicator | | 6.7 |
| Sooty Chat | 35.1 | |
| Winding Cisticola | 2.7 | 6.7 |
| Cassin's Flycatcher | 91.9 | 80.0 |
| Black-and-white Flycatcher | 2.7 | |
| Violet-tailed Sunbird | 8.1 | 6.7 |
| Reichenbach's Sunbird | 13.5 | 6.7 |
| Olive-bellied Sunbird | | 6.7 |
| Velvet-mantled Drongo | 2.7 | |
| Forest Chestnut-winged Starling | | 6.7 |
| Purple-headed Glossy Starling | 2.7 | |
| Violet-backed Starling | 2.7 | |
| Northern Grey-headed Sparrow | | 26.7 |
| Vieillot's Black Weaver | 2.7 | 46.7 |
| Village Weaver | | 13.3 |
| Blue-billed Malimbe | 2.7 | |
| Red-headed Quelea | | 6.7 |
| Yellow-mantled Widowbird | 2.7 | |
| Marsh Widowbird | 13.5 | |
| Orange-cheeked Waxbill | 2.7 | |
| Bronze Mannikin | 16.2 | 20.0 |
| Total species | 66 | 41 |
| Total transects | 37 | 15 |

Appendix 3. Summary of mass (g), wing and tail (mm) measurements for birds netted in the Lesio-Louna Reserve 2002-2007.

| Bird Species | Age/Sex group | Mass | | | | | | Wing | | | | | | Tail (f) | | | | | |
|-----------------------------|---------------|------|-----|-------|------|----|-----|------|-------|------|----|-----|-----|----------|------|----|--|--|--|
| | | Min | Max | Mean | sd | n | Min | Max | Mean | sd | n | Min | Max | Mean | sd | n | | | |
| Sunbird 185 | | 10 | 10 | 10.0 | | 1 | 57 | 57 | 57.0 | | 1 | 33 | 33 | 33.0 | | 0 | | | |
| Sunbird 293 | Juv | 6 | 6 | 6.0 | | 1 | 46 | 46 | 46.0 | | 1 | 89 | 89 | 89.0 | | 1 | | | |
| African Green Pigeon | Adult | 190 | 190 | 190.0 | | 1 | 167 | 167 | 167.0 | | 1 | 90 | 90 | 90.0 | | 1 | | | |
| Tambourine Dove | Male | 80 | 80 | 80.0 | | 1 | 119 | 119 | 119.0 | | 1 | 102 | 102 | 102.0 | | 1 | | | |
| Blue-spotted Wood Dove | Adult | 59 | 68 | 62.3 | 4.93 | 3 | 109 | 111 | 110.3 | 1.15 | 3 | 85 | 91 | 88.0 | 3.00 | 3 | | | |
| Western Bronze-naped Pigeon | Female | 125 | 125 | 125.0 | | 1 | 152 | 152 | 152.0 | | 1 | 125 | 125 | 125.0 | | 1 | | | |
| Red-eyed Dove | Adult | 220 | 220 | 220.0 | | 1 | 180 | 180 | 180.0 | | 1 | 125 | 125 | 125.0 | | 1 | | | |
| Didric Cuckoo | Female | 36 | 39 | 37.5 | 2.12 | 2 | 114 | 119 | 116.5 | 3.54 | 2 | 80 | 83 | 81.5 | 2.12 | 2 | | | |
| Didric Cuckoo | Male | 26 | 32 | 29.0 | 4.24 | 2 | 106 | 112 | 109.0 | 4.24 | 2 | 77 | 77 | 77.0 | 0.00 | 2 | | | |
| Swamp Nightjar | | 50 | 50 | 50.0 | 0.00 | 3 | 141 | 142 | 141.7 | 0.58 | 3 | 87 | 92 | 89.0 | 2.65 | 3 | | | |
| Blue-breasted Kingfisher | Adult | 75 | 85 | 80.0 | 5.00 | 3 | 106 | 117 | 112.7 | 5.86 | 3 | 70 | 79 | 76.0 | 5.20 | 3 | | | |
| Woodland Kingfisher | Adult | 54 | 58 | 55.7 | 2.08 | 3 | 95 | 104 | 100.0 | 4.58 | 3 | 60 | 65 | 63.3 | 2.89 | 3 | | | |
| African Pygmy Kingfisher | | 11 | 14 | 12.3 | 0.90 | 15 | 50 | 54 | 52.3 | 1.40 | 15 | 22 | 26 | 24.9 | 1.03 | 15 | | | |
| African Pygmy Kingfisher | Imm | 12 | 12 | 12.0 | | 1 | 55 | 55 | 55.0 | | 1 | 23 | 23 | 23.0 | | 1 | | | |
| African Pygmy Kingfisher | Juv | 14 | 14 | 14.0 | | 1 | 54 | 54 | 54.0 | | 1 | 25 | 25 | 25.0 | | 1 | | | |
| Shining-blue Kingfisher | Male | 32 | 32 | 32.0 | | 1 | 79 | 79 | 79.0 | | 1 | 36 | 36 | 36.0 | | 1 | | | |
| Black Bee-eater | Adult | 33 | 33 | 33.0 | | 1 | 99 | 99 | 99.0 | | 1 | 75 | 75 | 75.0 | | 1 | | | |
| Little Bee-eater | Adult | 13 | 15 | 14.3 | 1.15 | 3 | 78 | 79 | 78.3 | 0.58 | 3 | 59 | 62 | 60.7 | 1.53 | 3 | | | |
| Little Bee-eater | Juv | 14 | 14 | 14.0 | | 1 | 78 | 78 | 78.0 | | 1 | 63 | 63 | 63.0 | | 1 | | | |
| Blue-breasted Bee-eater | | 18 | 21 | 20.1 | 1.13 | 8 | 80 | 86 | 82.9 | 2.59 | 8 | 59 | 64 | 61.6 | 1.92 | 8 | | | |
| White-throated Bee-eater | Adult | 23 | 23 | 23.0 | | 1 | 95 | 95 | 95.0 | | 1 | 76 | 76 | 76.0 | | 1 | | | |
| Grey-throated Barbet | Adult | 45 | 45 | 45.0 | | 1 | 83 | 83 | 83.0 | | 1 | 46 | 46 | 46.0 | | 1 | | | |
| Sladen's Barbet | Adult | 45 | 48 | 46.6 | 1.14 | 5 | 85 | 88 | 86.8 | 1.10 | 5 | 47 | 51 | 49.4 | 1.52 | 5 | | | |
| Sladen's Barbet | Imm | 42 | 42 | 42.0 | | 1 | 86 | 86 | 86.0 | | 1 | 47 | 47 | 47.0 | | 1 | | | |
| Speckled Tinkerbird | | 15 | 17 | 15.8 | 0.84 | 5 | 57 | 60 | 57.8 | 1.30 | 5 | 31 | 34 | 33.2 | 1.30 | 5 | | | |
| Red-rumped Tinkerbird | | 18 | 18 | 18.0 | 0.00 | 3 | 62 | 66 | 64.0 | 2.00 | 3 | 30 | 32 | 31.3 | 1.15 | 3 | | | |
| Yellow-throated Tinkerbird | | 8 | 10 | 9.2 | 0.75 | 11 | 47 | 52 | 48.7 | 1.49 | 11 | 22 | 24 | 22.7 | 0.87 | 9 | | | |
| Yellow-throated Tinkerbird | Juv | 10 | 10 | 10.0 | | 1 | 50 | 50 | 50.0 | | 1 | 22 | 22 | 22.0 | | 1 | | | |
| Yellow-rumped Tinkerbird | | 11 | 11 | 11.0 | 0.00 | 3 | 51 | 53 | 52.3 | 1.15 | 3 | 26 | 27 | 26.7 | 0.58 | 3 | | | |
| Yellow-fronted Tinkerbird | | 10 | 10 | 10.0 | | 1 | 58 | 58 | 58.0 | | 1 | 33 | 33 | 33.0 | | 1 | | | |

| Bird Species | Age/Sex group | Mass | | | | | | Wing | | | | | | Tail (f) | | | | | |
|--------------------------|---------------|------|-----|------|-------|-----|-----|------|-------|------|-----|-----|-----|----------|------|-----|--|--|--|
| | | Min | Max | Mean | sd | n | Min | Max | Mean | sd | n | Min | Max | Mean | sd | n | | | |
| Miombo Pied Barbet | Adult | 28 | 28 | 28.0 | | 1 | 74 | 74 | 74.0 | | 1 | 45 | 45 | 45.0 | | 1 | | | |
| Thick-billed Honeyguide | | 29 | 29 | 29.0 | | 1 | 94 | 94 | 94.0 | | 1 | 60 | 60 | 60.0 | | 1 | | | |
| Green-backed Woodpecker | Female | 48 | 48 | 48.0 | | 1 | 97 | 97 | 97.0 | | 1 | 63 | 63 | 63.0 | | 1 | | | |
| Green-backed Woodpecker | Male | 43 | 46 | 44.5 | 2.12 | 2 | 92 | 98 | 95.0 | 4.24 | 2 | 54 | 57 | 55.5 | 2.12 | 2 | | | |
| Buff-spotted Woodpecker | Female | 38 | 38 | 38.0 | | 1 | 90 | 90 | 90.0 | | 1 | 45 | 45 | 45.0 | | 1 | | | |
| Buff-spotted Woodpecker | Male | 35 | 35 | 35.0 | | 1 | 82 | 82 | 82.0 | | 1 | 42 | 42 | 42.0 | | 1 | | | |
| Cardinal Woodpecker | Male | 22 | 24 | 23.0 | 1.41 | 2 | 79 | 80 | 79.5 | 0.71 | 2 | 40 | 41 | 40.5 | 0.71 | 2 | | | |
| Flapet Lark | | 29 | 55 | 42.0 | 18.38 | 2 | 75 | 79 | 77.0 | 2.83 | 2 | 52 | 56 | 54.0 | 2.83 | 2 | | | |
| Woodland Pipit | | 26 | 26 | 26.0 | | 1 | 83 | 83 | 83.0 | | 1 | 62 | 62 | 62.0 | | 1 | | | |
| Little Greenbul | | 20 | 30 | 24.7 | 1.85 | 130 | 69 | 84 | 76.8 | 2.88 | 130 | 62 | 77 | 70.7 | 3.06 | 128 | | | |
| Little Greenbul | Imm | 20 | 26 | 23.4 | 2.13 | 9 | 72 | 77 | 75.1 | 1.69 | 9 | 64 | 73 | 70.0 | 2.74 | 9 | | | |
| Little Greenbul | Juv | 19 | 26 | 23.5 | 1.95 | 23 | 70 | 80 | 75.0 | 2.86 | 23 | 63 | 75 | 70.2 | 2.82 | 21 | | | |
| Little Greenbul | Juv? | 25 | 25 | 25.0 | 0.00 | 2 | 72 | 77 | 74.5 | 3.54 | 2 | 67 | 70 | 68.5 | 2.12 | 2 | | | |
| Little Grey Greenbul | Adult | 18 | 21 | 19.5 | 2.12 | 2 | 73 | 74 | 73.5 | 0.71 | 2 | 68 | 69 | 68.5 | 0.71 | 2 | | | |
| Swamp Palm Bulbul | | 50 | 55 | 53.3 | 2.89 | 3 | 100 | 112 | 107.0 | 6.24 | 3 | 97 | 105 | 101.3 | 4.04 | 3 | | | |
| Lesser Bristlebill | | 45 | 50 | 48.0 | 2.35 | 5 | 102 | 106 | 103.8 | 1.48 | 5 | 91 | 97 | 95.2 | 2.49 | 5 | | | |
| Lesser Bristlebill | Female | 44 | 44 | 44.0 | | 1 | 99 | 99 | 99.0 | | 1 | 88 | 88 | 88.0 | | 1 | | | |
| Common Bulbul | | 30 | 42 | 36.4 | 2.25 | 35 | 85 | 103 | 94.3 | 4.45 | 35 | 78 | 92 | 83.8 | 3.62 | 34 | | | |
| Common Bulbul | Female | 34 | 36 | 35.0 | 1.41 | 2 | 92 | 94 | 93.0 | 1.41 | 2 | 83 | 84 | 83.5 | 0.71 | 2 | | | |
| Common Bulbul | Juv | 36 | 37 | 36.5 | 0.71 | 2 | 89 | 89 | 89.0 | 0.00 | 2 | 74 | 82 | 78.0 | 5.66 | 2 | | | |
| Black-collared Bulbul | Adult | 25 | 25 | 25.0 | | 1 | 76 | 76 | 76.0 | | 1 | 63 | 63 | 63.0 | | 1 | | | |
| Western Nicator | Adult | 43 | 47 | 45.3 | 2.08 | 3 | 92 | 96 | 94.0 | 2.00 | 3 | 92 | 95 | 93.5 | 2.12 | 2 | | | |
| Western Nicator | Juv | 41 | 41 | 41.0 | | 1 | 94 | 94 | 94.0 | | 1 | 94 | 94 | 94.0 | | 1 | | | |
| Western Nicator | Male? | 61 | 61 | 61.0 | | 1 | 112 | 112 | 112.0 | | 1 | 114 | 114 | 114.0 | | 1 | | | |
| Red-capped Robin Chat | Adult | 31 | 35 | 32.8 | 1.71 | 4 | 90 | 91 | 90.3 | 0.50 | 4 | 66 | 68 | 67.0 | 0.82 | 4 | | | |
| Fire-crested Alethe | Adult | 33 | 33 | 33.0 | | 1 | 85 | 85 | 85.0 | | 1 | 66 | 66 | 66.0 | | 1 | | | |
| White-browed Scrub Robin | Adult | 15 | 17 | 16.0 | 1.00 | 5 | 60 | 66 | 62.6 | 2.61 | 5 | 52 | 64 | 57.4 | 4.45 | 5 | | | |
| Sooty Chat | Female | 36 | 40 | 38.0 | 2.83 | 2 | 94 | 95 | 94.5 | 0.71 | 2 | 55 | 57 | 56.0 | 1.41 | 2 | | | |
| Sooty Chat | Male | 39 | 46 | 41.3 | 2.29 | 7 | 95 | 100 | 97.6 | 1.51 | 7 | 52 | 60 | 57.1 | 2.79 | 7 | | | |
| Winding Cisticola | | 17 | 19 | 18.3 | 1.15 | 3 | 60 | 63 | 61.3 | 1.53 | 3 | 50 | 56 | 52.3 | 3.21 | 3 | | | |
| Croaking Cisticola | | 26 | 26 | 26.0 | | 1 | 74 | 74 | 74.0 | | 1 | 61 | 61 | 61.0 | | 1 | | | |

| Bird Species | Age/Sex group | Mass | | | | | | Wing | | | | | | Tail (f) | | | | | |
|--------------------------------|---------------|------|-----|------|------|----|-----|------|------|------|----|-----|-----|----------|-------|----|--|--|--|
| | | Min | Max | Mean | sd | n | Min | Max | Mean | sd | n | Min | Max | Mean | sd | n | | | |
| Croaking Cisticola | Juv | 22 | 22 | 22.0 | | 1 | 66 | 66 | 66.0 | | 1 | 57 | 57 | 57.0 | | 1 | | | |
| Short-winged Cisticola | | 8 | 8 | 8.0 | | 1 | 48 | 48 | 48.0 | | 1 | 32 | 32 | 32.0 | | 1 | | | |
| Tawny-flanked Prinia | | 6 | 10 | 8.6 | 1.67 | 5 | 48 | 55 | 52.2 | 2.68 | 5 | 52 | 56 | 53.3 | 2.31 | 3 | | | |
| Grey-backed Camaroptera | | 11 | 14 | 12.4 | 1.17 | 10 | 50 | 56 | 54.1 | 2.51 | 10 | 31 | 40 | 37.6 | 3.16 | 8 | | | |
| Salvadori's Eremomela | | 8 | 8 | 8.0 | | 1 | 56 | 56 | 56.0 | | 1 | 27 | 27 | 27.0 | | 1 | | | |
| Green Crombec | | 8 | 10 | 8.9 | 0.67 | 12 | 48 | 53 | 50.3 | 1.71 | 12 | 12 | 20 | 16.9 | 2.23 | 12 | | | |
| Garden Warbler | | 18 | 18 | 18.0 | | 1 | 79 | 79 | 79.0 | | 1 | 54 | 54 | 54.0 | | 1 | | | |
| Green Hylia | | 12 | 16 | 14.7 | 2.31 | 3 | 58 | 69 | 64.7 | 5.86 | 3 | 40 | 49 | 45.7 | 4.93 | 3 | | | |
| White-browed Forest Flycatcher | Adult | 19 | 23 | 21.3 | 2.08 | 3 | 79 | 83 | 81.3 | 2.08 | 3 | 63 | 68 | 66.0 | 2.65 | 3 | | | |
| Pale Flycatcher | | 24 | 31 | 27.7 | 2.73 | 6 | 89 | 105 | 96.7 | 6.12 | 6 | 72 | 82 | 77.3 | 4.55 | 6 | | | |
| Spotted Flycatcher | Adult | 14 | 14 | 14.0 | | 1 | 88 | 88 | 88.0 | | 1 | 62 | 62 | 62.0 | | 1 | | | |
| Lead-coloured Flycatcher | | 12 | 18 | 14.5 | 2.07 | 6 | 62 | 67 | 64.3 | 1.97 | 6 | 53 | 61 | 57.8 | 3.35 | 5 | | | |
| Lead-coloured Flycatcher | Juv | 11 | 11 | 11.0 | | 1 | 63 | 63 | 63.0 | | 1 | 61 | 61 | 61.0 | | 1 | | | |
| Bates's Paradise Flycatcher | | 13 | 16 | 14.7 | 0.95 | 10 | 72 | 80 | 76.7 | 2.91 | 10 | 73 | 109 | 87.6 | 12.97 | 9 | | | |
| Bates's Paradise Flycatcher | Female | 14 | 14 | 14.0 | | 1 | 76 | 76 | 76.0 | | 1 | 84 | 84 | 84.0 | | 1 | | | |
| Bates's Paradise Flycatcher | Male | 15 | 16 | 15.5 | 0.71 | 2 | 77 | 83 | 80.0 | 4.24 | 2 | 103 | 152 | 127.5 | 34.65 | 2 | | | |
| Black-and-white Flycatcher | Male | 22 | 22 | 22.0 | | 1 | 88 | 88 | 88.0 | | 1 | 50 | 50 | 50.0 | | 1 | | | |
| Chestnut Wattle-eye | Female | 13 | 15 | 14.0 | 1.41 | 2 | 59 | 60 | 59.5 | 0.71 | 2 | 24 | 26 | 25.0 | 1.41 | 2 | | | |
| Chestnut Wattle-eye | Male | 15 | 15 | 15.0 | | 1 | 62 | 62 | 62.0 | | 1 | 28 | 28 | 28.0 | | 1 | | | |
| Black-headed Batis | Female | 11 | 11 | 11.0 | | 1 | 58 | 58 | 58.0 | | 1 | 43 | 43 | 43.0 | | 1 | | | |
| White-winged Black Tit | Adult | 21 | 28 | 24.8 | 2.99 | 4 | 80 | 89 | 84.8 | 3.77 | 4 | 66 | 72 | 69.0 | 2.58 | 4 | | | |
| Violet-tailed Sunbird | Female | 12 | 13 | 12.7 | 0.58 | 3 | 62 | 62 | 62.0 | 0.00 | 3 | 42 | 44 | 43.0 | 1.00 | 3 | | | |
| Violet-tailed Sunbird | Juv | 13 | 13 | 13.0 | | 1 | 64 | 64 | 64.0 | | 1 | 45 | 45 | 45.0 | | 1 | | | |
| Violet-tailed Sunbird | Male | 12 | 13 | 12.5 | 0.71 | 2 | 65 | 66 | 65.5 | 0.71 | 2 | 46 | 48 | 47.0 | 1.41 | 2 | | | |
| Reichenbach's Sunbird | Adult | 7 | 12 | 9.0 | 1.87 | 5 | 53 | 60 | 56.4 | 3.05 | 5 | 40 | 50 | 44.3 | 5.06 | 4 | | | |
| Reichenbach's Sunbird | Female | 8 | 8 | 8.0 | | 1 | 55 | 55 | 55.0 | | 1 | 43 | 43 | 43.0 | | 1 | | | |
| Reichenbach's Sunbird | Juv | 10 | 10 | 10.0 | | 1 | 58 | 58 | 58.0 | | 1 | 46 | 46 | 46.0 | | 1 | | | |
| Green-headed Sunbird | Female | 10 | 16 | 12.8 | 2.50 | 4 | 60 | 62 | 61.3 | 0.96 | 4 | 39 | 45 | 41.3 | 2.63 | 4 | | | |
| Green-headed Sunbird | Male | 10 | 15 | 13.2 | 2.17 | 5 | 58 | 67 | 63.8 | 3.42 | 5 | 44 | 49 | 46.3 | 2.06 | 4 | | | |
| Blue-throated Brown Sunbird | Male | 14 | 14 | 14.0 | | 1 | 71 | 71 | 71.0 | | 1 | 54 | 54 | 54.0 | | 1 | | | |
| Western Olive Sunbird | Female | 9 | 12 | 10.0 | 0.82 | 13 | 56 | 60 | 57.5 | 1.33 | 13 | 40 | 44 | 42.5 | 1.45 | 13 | | | |

| Bird Species | Age/Sex group | Mass | | | | | | Wing | | | | | | Tail (f) | | | | | |
|------------------------------|---------------|------|-----|------|------|----|-----|------|-------|------|----|-----|-----|----------|------|----|--|--|--|
| | | Min | Max | Mean | sd | n | Min | Max | Mean | sd | n | Min | Max | Mean | sd | n | | | |
| Western Olive Sunbird | Imm male | 11 | 11 | 11.0 | | 1 | 59 | 59 | 59.0 | | 1 | 44 | 44 | 44.0 | | 1 | | | |
| Western Olive Sunbird | Juv | 8 | 11 | 10.0 | 1.41 | 5 | 56 | 64 | 59.8 | 3.56 | 5 | 39 | 47 | 44.4 | 3.44 | 5 | | | |
| Western Olive Sunbird | Male | 10 | 14 | 11.4 | 0.90 | 37 | 61 | 68 | 65.1 | 1.88 | 37 | 47 | 60 | 53.2 | 2.91 | 36 | | | |
| Green-throated Sunbird | Female | 10 | 10 | 10.0 | | 1 | 60 | 60 | 60.0 | | 1 | 36 | 36 | 36.0 | | 1 | | | |
| Green-throated Sunbird | Imm male | 11 | 11 | 11.0 | | 1 | 66 | 66 | 66.0 | | 1 | 41 | 41 | 41.0 | | 1 | | | |
| Green-throated Sunbird | Juv male? | 11 | 11 | 11.0 | | 1 | 67 | 67 | 67.0 | | 1 | 41 | 41 | 41.0 | | 1 | | | |
| Green-throated Sunbird | Male | 11 | 11 | 11.0 | | 1 | 68 | 68 | 68.0 | | 1 | 46 | 46 | 46.0 | | 1 | | | |
| Amethyst Sunbird | Female | 11 | 14 | 12.7 | 1.53 | 3 | 63 | 65 | 64.0 | 1.00 | 3 | 38 | 40 | 38.7 | 1.15 | 3 | | | |
| Amethyst Sunbird | Imm male | 12 | 14 | 13.3 | 1.15 | 3 | 69 | 70 | 69.3 | 0.58 | 3 | 41 | 45 | 43.0 | 2.00 | 3 | | | |
| Amethyst Sunbird | Male | 13 | 13 | 13.0 | 0.00 | 2 | 70 | 71 | 70.5 | 0.71 | 2 | 43 | 44 | 43.5 | 0.71 | 2 | | | |
| Collared Sunbird | Female | 8 | 8 | 8.0 | 0.00 | 2 | 50 | 51 | 50.5 | 0.71 | 2 | 29 | 30 | 29.5 | 0.71 | 2 | | | |
| Collared Sunbird | Male | 8 | 8 | 8.0 | | 1 | 53 | 53 | 53.0 | | 1 | 33 | 33 | 33.0 | | 1 | | | |
| Olive-bellied Sunbird | Female | 6 | 6 | 6.0 | 0.00 | 2 | 47 | 48 | 47.5 | 0.71 | 2 | 32 | 32 | 32.0 | 0.00 | 2 | | | |
| Olive-bellied Sunbird | Juv | 5 | 7 | 6.0 | 1.00 | 3 | 47 | 50 | 49.0 | 1.73 | 3 | 30 | 33 | 31.7 | 1.53 | 3 | | | |
| Olive-bellied Sunbird | Male | 6 | 7 | 6.4 | 0.55 | 5 | 50 | 52 | 50.8 | 0.84 | 5 | 31 | 36 | 33.0 | 2.00 | 5 | | | |
| Copper Sunbird | Female | 9 | 9 | 9.0 | | 1 | 57 | 57 | 57.0 | | 1 | 41 | 41 | 41.0 | | 1 | | | |
| Copper Sunbird | Male | 8 | 8 | 8.0 | | 1 | 59 | 59 | 59.0 | | 1 | 46 | 46 | 46.0 | | 1 | | | |
| Sooty Boubou | Adult | 54 | 57 | 56.0 | 1.73 | 3 | 94 | 101 | 98.0 | 3.61 | 3 | 90 | 92 | 91.0 | 1.00 | 3 | | | |
| Violet-backed Starling | Female | 40 | 43 | 41.5 | 1.73 | 4 | 97 | 103 | 100.0 | 2.45 | 4 | 53 | 56 | 54.5 | 1.29 | 4 | | | |
| Violet-backed Starling | Male | 38 | 39 | 38.5 | 0.71 | 2 | 104 | 106 | 105.0 | 1.41 | 2 | 59 | 60 | 59.5 | 0.71 | 2 | | | |
| Northern Grey-headed Sparrow | | 28 | 28 | 28.0 | | 1 | 85 | 85 | 85.0 | | 1 | | | | | 0 | | | |
| Yellow-throated Petronia | Adult | 23 | 28 | 24.5 | 1.55 | 16 | 87 | 95 | 90.8 | 2.69 | 16 | 53 | 60 | 56.7 | 2.15 | 16 | | | |
| Yellow-throated Petronia | Imm | 26 | 26 | 26.0 | | 1 | 82 | 82 | 82.0 | | 1 | 53 | 53 | 53.0 | | 1 | | | |
| Yellow-throated Petronia | Juv | 24 | 24 | 24.0 | | 1 | 85 | 85 | 85.0 | | 1 | 54 | 54 | 54.0 | | 1 | | | |
| Vieillot's Black Weaver | Female | 28 | 33 | 30.2 | 1.57 | 13 | 73 | 81 | 76.3 | 2.21 | 13 | 48 | 50 | 48.7 | 1.15 | 3 | | | |
| Vieillot's Black Weaver | Imm male | 28 | 34 | 30.2 | 2.40 | 6 | 73 | 80 | 76.0 | 2.28 | 6 | 46 | 46 | 46.0 | | 1 | | | |
| Vieillot's Black Weaver | Juv | 32 | 32 | 32.0 | | 1 | 75 | 75 | 75.0 | | 1 | | | | | 0 | | | |
| Vieillot's Black Weaver | Male | 35 | 39 | 37.4 | 1.40 | 7 | 82 | 86 | 84.1 | 1.46 | 7 | 52 | 55 | 53.0 | 1.41 | 4 | | | |
| Village Weaver | Male | 40 | 40 | 40.0 | | 1 | 85 | 85 | 85.0 | | 1 | 51 | 51 | 51.0 | | 1 | | | |
| Red-headed Quelea | F/nb m | 15 | 16 | 15.5 | 0.71 | 2 | 60 | 64 | 62.0 | 2.83 | 2 | 31 | 32 | 31.5 | 0.71 | 2 | | | |
| Yellow-mantled Widowbird | Female | 19 | 25 | 21.8 | 2.75 | 4 | 66 | 75 | 69.3 | 4.03 | 4 | 49 | 57 | 53.3 | 4.04 | 3 | | | |

| Bird Species | Age/Sex group | Mass | | | | | | Wing | | | | | | Tail (f) | | | | | |
|--------------------------------|-----------------|------|-----|------|------|----|-----|------|------|------|----|-----|-----|----------|------|----|--|--|--|
| | | Min | Max | Mean | sd | n | Min | Max | Mean | sd | n | Min | Max | Mean | sd | n | | | |
| Yellow-mantled Widowbird | Male (breeding) | 24 | 29 | 26.5 | 3.54 | 2 | 81 | 81 | 81.0 | 0.00 | 2 | 104 | 104 | 104.0 | | 1 | | | |
| Yellow-mantled Widowbird | Male (nb) | 27 | 27 | 27.0 | | 1 | 81 | 81 | 81.0 | | 1 | 55 | 55 | 55.0 | | 1 | | | |
| Pale-fronted Negrofinch | Female | 12 | 12 | 12.0 | | 1 | 56 | 56 | 56.0 | | 1 | 36 | 36 | 36.0 | | 1 | | | |
| Orange-winged Pytilia | | 18 | 18 | 18.0 | 0.00 | 4 | 59 | 63 | 60.5 | 1.73 | 4 | | | | | 0 | | | |
| Orange-winged Pytilia | Female | 14 | 16 | 15.0 | 1.41 | 2 | 59 | 60 | 59.5 | 0.71 | 2 | 34 | 34 | 34.0 | 0.00 | 2 | | | |
| Orange-winged Pytilia | imm male | 16 | 17 | 16.3 | 0.58 | 3 | 60 | 62 | 61.0 | 1.00 | 3 | 31 | 34 | 32.7 | 1.53 | 3 | | | |
| Orange-winged Pytilia | imm? Male | 19 | 19 | 19.0 | | 1 | 60 | 60 | 60.0 | | 1 | | | | | 0 | | | |
| Orange-winged Pytilia | Juv | 17 | 19 | 18.0 | 1.41 | 2 | 61 | 61 | 61.0 | 0.00 | 2 | 32 | 32 | 32.0 | | 1 | | | |
| Orange-winged Pytilia | Male | 15 | 16 | 15.5 | 0.71 | 2 | 57 | 59 | 58.0 | 1.41 | 2 | 33 | 37 | 35.0 | 2.83 | 2 | | | |
| Western Bluebill | Female | 24 | 24 | 24.0 | | 1 | 66 | 66 | 66.0 | | 1 | 52 | 52 | 52.0 | | 1 | | | |
| Western Bluebill | Juv | 22 | 22 | 22.0 | | 1 | 70 | 70 | 70.0 | | 1 | 54 | 54 | 54.0 | | 1 | | | |
| Western Bluebill | Male | 23 | 25 | 24.0 | 0.82 | 4 | 67 | 75 | 71.5 | 3.42 | 4 | 55 | 59 | 57.5 | 1.73 | 4 | | | |
| Blue-billed Firefinch | Male | 10 | 10 | 10.0 | | 1 | 46 | 46 | 46.0 | | 1 | 40 | 40 | 40.0 | | 1 | | | |
| Orange-cheeked Waxbill | | 6 | 8 | 7.0 | 0.82 | 4 | 43 | 47 | 45.0 | 1.83 | 4 | 43 | 43 | 43.0 | | 1 | | | |
| Bronze Mannikin | | 8 | 9 | 8.4 | 0.55 | 5 | 47 | 49 | 47.4 | 0.89 | 5 | 25 | 33 | 30.0 | 3.00 | 5 | | | |
| Pin-tailed Whydah | Adult (nb) | 13 | 13 | 13.0 | | 1 | 70 | 70 | 70.0 | | 1 | 50 | 50 | 50.0 | | 1 | | | |
| Black-throated Seedeater | | 9 | 11 | 10.2 | 0.60 | 11 | 65 | 70 | 66.4 | 1.57 | 11 | 40 | 45 | 41.3 | 1.49 | 11 | | | |
| Cinnamon-breasted Rock Bunting | | 16 | 16 | 16.0 | | 1 | 74 | 74 | 74.0 | | 1 | | | | 0 | | | | |
| Cinnamon-breasted Rock Bunting | Female | 12 | 16 | 14.0 | 1.55 | 6 | 72 | 78 | 74.7 | 2.42 | 6 | 56 | 62 | 59.2 | 2.23 | 6 | | | |
| Cabanis's Bunting | Adult | 23 | 23 | 23.0 | | 1 | 76 | 76 | 76.0 | | 1 | 64 | 64 | 64.0 | | 1 | | | |

Appendix 4. Summary of tarsus and bill (mm) measurements for birds netted in the Lesio-Louna Reserve 2002-2007.

| Bird Species | Age/Sex group | Tarsus | | | | | | Bill (f) | | | | | | Bill (s) | | | | | |
|-----------------------------|---------------|--------|------|------|-------|----|------|----------|------|------|----|------|------|----------|------|----|--|--|--|
| | | Min | Max | Mean | sd | n | Min | Max | Mean | sd | n | Min | Max | Mean | sd | n | | | |
| Sunbird 185 | | 18 | 18 | 18.0 | | 1 | 22.8 | 22.8 | 22.8 | | 1 | 21.7 | 21.7 | 21.7 | | 0 | | | |
| Sunbird 293 | Juv | 15.8 | 15.8 | 15.8 | | 1 | 18.9 | 18.9 | 18.9 | | 1 | 21.7 | 21.7 | 21.7 | | 1 | | | |
| African Green Pigeon | Adult | 20 | 20 | 20.0 | | 1 | 23.8 | 23.8 | 23.8 | | 1 | | | | | 0 | | | |
| Tambourine Dove | Male | 22.8 | 22.8 | 22.8 | | 1 | 15 | 15 | 15.0 | | 1 | 20.7 | 20.7 | 20.7 | | 1 | | | |
| Blue-spotted Wood Dove | Adult | 18.4 | 21.7 | 20.1 | 1.65 | 3 | 13.3 | 14.5 | 14.0 | 0.62 | 3 | 18.9 | 19 | 19.0 | 0.06 | 3 | | | |
| Western Bronze-naped Pigeon | Female | 20.5 | 20.5 | 20.5 | | 1 | 13.8 | 13.8 | 13.8 | | 1 | 23 | 23 | 23.0 | | 1 | | | |
| Red-eyed Dove | Adult | 25.9 | 25.9 | 25.9 | | 1 | 20.2 | 20.2 | 20.2 | | 1 | 27.7 | 27.7 | 27.7 | | 1 | | | |
| Didric Cuckoo | Female | 15.5 | 16.1 | 15.8 | 0.42 | 2 | 14.9 | 14.9 | 14.9 | 0.00 | 2 | 20.2 | 21.5 | 20.9 | 0.92 | 2 | | | |
| Didric Cuckoo | Male | 15.5 | 17.2 | 16.4 | 1.20 | 2 | 13.2 | 15.8 | 14.5 | 1.84 | 2 | 19.4 | 21 | 20.2 | 1.13 | 2 | | | |
| Swamp Nightjar | | 17 | 18.7 | 17.9 | 0.85 | 3 | 7.4 | 9.1 | 8.4 | 0.91 | 3 | 15.3 | 16.6 | 15.8 | 0.68 | 3 | | | |
| Blue-breasted Kingfisher | Adult | 15.8 | 17.4 | 16.5 | 0.81 | 3 | 43 | 48.3 | 45.9 | 2.69 | 3 | 56 | 58.5 | 56.9 | 1.37 | 3 | | | |
| Woodland Kingfisher | Adult | 12.4 | 16.3 | 14.2 | 1.96 | 3 | 37 | 40 | 38.6 | 1.52 | 3 | 47.1 | 49.7 | 48.3 | 1.32 | 3 | | | |
| African Pygmy Kingfisher | | 7.4 | 10.4 | 15.2 | 24.69 | 15 | 21.3 | 26.2 | 23.2 | 1.36 | 15 | 25 | 32.9 | 29.2 | 1.95 | 15 | | | |
| African Pygmy Kingfisher | Imm | 8.4 | 8.4 | 8.4 | | 1 | 22.1 | 22.1 | 22.1 | | 1 | 29.9 | 29.9 | 29.9 | | 1 | | | |
| African Pygmy Kingfisher | Juv | 9 | 9 | 9.0 | | 1 | 21.7 | 21.7 | 21.7 | | 1 | 27.8 | 27.8 | 27.8 | | 1 | | | |
| Shining-blue Kingfisher | Male | 10.9 | 10.9 | 10.9 | | 1 | 42.4 | 42.4 | 42.4 | | 1 | 52.7 | 52.7 | 52.7 | | 1 | | | |
| Black Bee-eater | Adult | 11.3 | 11.3 | 11.3 | | 1 | 32 | 32 | 32.0 | | 1 | 41 | 41 | 41.0 | | 1 | | | |
| Little Bee-eater | Adult | 8.4 | 8.6 | 8.5 | 0.10 | 3 | 20.3 | 22.1 | 21.5 | 1.04 | 3 | 26.9 | 29.8 | 28.5 | 1.47 | 3 | | | |
| Little Bee-eater | Juv | 8 | 8 | 8.0 | | 1 | 22.5 | 22.5 | 22.5 | | 1 | 29 | 29 | 29.0 | | 1 | | | |
| Blue-breasted Bee-eater | | 8.8 | 10.5 | 9.7 | 0.64 | 8 | 23.2 | 26.5 | 24.8 | 1.20 | 8 | 29 | 31.6 | 30.6 | 0.87 | 8 | | | |
| White-throated Bee-eater | Adult | 11.9 | 11.9 | 11.9 | | 1 | 28 | 28 | 28.0 | | 1 | 35.7 | 35.7 | 35.7 | | 1 | | | |
| Grey-throated Barbet | Adult | 19.5 | 19.5 | 19.5 | | 1 | 15.7 | 15.7 | 15.7 | | 1 | 20.3 | 20.3 | 20.3 | | 1 | | | |
| Sladen's Barbet | Adult | 19.4 | 21.3 | 20.3 | 0.83 | 5 | 18.2 | 20.6 | 19.9 | 1.00 | 5 | 23.6 | 25.5 | 24.5 | 0.76 | 5 | | | |
| Sladen's Barbet | Imm | 17.8 | 17.8 | 17.8 | | 1 | 19.6 | 19.6 | 19.6 | | 1 | 23.1 | 23.1 | 23.1 | | 1 | | | |
| Speckled Tinkerbird | | 15.1 | 18.4 | 16.3 | 1.30 | 5 | 13.2 | 15.1 | 14.1 | 0.73 | 5 | 17.3 | 18.9 | 18.0 | 0.66 | 5 | | | |
| Red-rumped Tinkerbird | | 15.2 | 18 | 16.6 | 1.40 | 3 | 12.5 | 12.9 | 12.8 | 0.23 | 3 | 15.9 | 17 | 16.3 | 0.64 | 3 | | | |
| Yellow-throated Tinkerbird | | 12 | 16.3 | 13.4 | 1.24 | 11 | 9.1 | 10.8 | 10.1 | 0.53 | 10 | 12 | 14 | 13.0 | 0.61 | 9 | | | |
| Yellow-throated Tinkerbird | Juv | 11.5 | 11.5 | 11.5 | | 1 | 9.1 | 9.1 | 9.1 | | 1 | 11.6 | 11.6 | 11.6 | | 1 | | | |
| Yellow-rumped Tinkerbird | | 13 | 14.6 | 13.9 | 0.81 | 3 | 9 | 10.7 | 9.9 | 0.85 | 3 | 13.3 | 14.8 | 14.3 | 0.87 | 3 | | | |

| Bird Species | Age/Sex group | Tarsus | | | | | | Bill (f) | | | | | | Bill (s) | | | | | |
|---------------------------|---------------|--------|------|------|------|-----|------|----------|------|------|-----|------|------|----------|------|-----|------|------|--|
| | | Min | Max | Mean | sd | n | Min | Max | Mean | sd | n | Min | Max | Mean | sd | n | Min | Max | |
| Yellow-fronted Tinkerbird | | 13.4 | 13.4 | 13.4 | | 1 | 9.3 | 9.3 | 9.3 | | 1 | 14.4 | 14.4 | 14.4 | | 1 | 14.4 | 14.4 | |
| Miombo Pied Barbet | Adult | 18.8 | 18.8 | 18.8 | | 1 | 17.6 | 17.6 | 17.6 | | 1 | 20.5 | 20.5 | 20.5 | | 1 | 20.5 | 20.5 | |
| Thick-billed Honeyguide | | 15.9 | 15.9 | 15.9 | | 1 | 10 | 10 | 10.0 | | 1 | 13.7 | 13.7 | 13.7 | | 1 | 13.7 | 13.7 | |
| Green-backed Woodpecker | Female | 15.2 | 15.2 | 15.2 | | 1 | 14.5 | 14.5 | 14.5 | | 1 | 19 | 19 | 19.0 | | 1 | 19 | 19.0 | |
| Green-backed Woodpecker | Male | 15.4 | 15.6 | 15.5 | 0.14 | 2 | 14.3 | 14.3 | 14.3 | | 1 | 18.3 | 18.9 | 18.6 | 0.42 | 2 | 18.3 | 18.9 | |
| Buff-spotted Woodpecker | Female | 16.3 | 16.3 | 16.3 | | 1 | 15.1 | 15.1 | 15.1 | | 1 | 19.2 | 19.2 | 19.2 | | 1 | 19.2 | 19.2 | |
| Buff-spotted Woodpecker | Male | 16.4 | 16.4 | 16.4 | | 1 | 14.4 | 14.4 | 14.4 | | 1 | 20.2 | 20.2 | 20.2 | | 1 | 20.2 | 20.2 | |
| Cardinal Woodpecker | Male | 13.9 | 14.1 | 14.0 | 0.14 | 2 | 13.8 | 14 | 13.9 | 0.14 | 2 | 17.8 | 18.4 | 18.1 | 0.42 | 2 | 17.8 | 18.4 | |
| Flappet Lark | | 24 | 24.4 | 24.2 | 0.28 | 2 | 13.9 | 14.4 | 14.2 | 0.35 | 2 | 18.3 | 19 | 18.7 | 0.49 | 2 | 18.3 | 19 | |
| Woodland Pipit | | 23.3 | 23.3 | 23.3 | | 1 | 12.5 | 12.5 | 12.5 | | 1 | 16.9 | 16.9 | 16.9 | | 1 | 16.9 | 16.9 | |
| Little Greenbul | | 18 | 26.6 | 20.1 | 1.07 | 130 | 9.6 | 13.9 | 11.2 | 0.78 | 130 | 14.8 | 18 | 16.3 | 0.67 | 128 | 14.8 | 18 | |
| Little Greenbul | Imm | 18.1 | 20.7 | 19.8 | 0.89 | 9 | 10.5 | 11.9 | 11.3 | 0.50 | 9 | 15.2 | 16.8 | 16.0 | 0.49 | 9 | 15.2 | 16.8 | |
| Little Greenbul | Juv | 16 | 22 | 19.4 | 1.33 | 23 | 10.1 | 13.1 | 11.2 | 0.77 | 23 | 14.9 | 18 | 16.1 | 0.72 | 21 | 14.9 | 18 | |
| Little Greenbul | Juv? | 19.2 | 20.4 | 19.8 | 0.85 | 2 | 11.1 | 12.6 | 11.9 | 1.06 | 2 | 16.5 | 17.7 | 17.1 | 0.85 | 2 | 16.5 | 17.7 | |
| Little Grey Greenbul | Adult | 17.6 | 18 | 17.8 | 0.28 | 2 | 10.3 | 12.8 | 11.6 | 1.77 | 2 | 14.6 | 17 | 15.8 | 1.70 | 2 | 14.6 | 17 | |
| Swamp Palm Bulbul | | 24.3 | 25.8 | 25.1 | 0.76 | 3 | 17.5 | 20.2 | 18.8 | 1.36 | 3 | 23.3 | 25.7 | 24.7 | 1.25 | 3 | 23.3 | 25.7 | |
| Lesser Bristlebill | | 24.5 | 28.3 | 26.4 | 1.59 | 5 | 16.7 | 19.1 | 18.1 | 1.02 | 5 | 23.1 | 24.7 | 23.7 | 0.64 | 5 | 23.1 | 24.7 | |
| Lesser Bristlebill | Female | 24.8 | 24.8 | 24.8 | | 1 | 17.2 | 17.2 | 17.2 | | 1 | 23.4 | 23.4 | 23.4 | | 1 | 23.4 | 23.4 | |
| Common Bulbul | | 14.6 | 24.1 | 21.4 | 1.59 | 35 | 13 | 17.1 | 14.8 | 0.98 | 35 | 18.3 | 21 | 19.7 | 0.75 | 34 | 18.3 | 21 | |
| Common Bulbul | Female | 21.1 | 21.3 | 21.2 | 0.14 | 2 | 13.7 | 14.7 | 14.2 | 0.71 | 2 | 18.8 | 20 | 19.4 | 0.85 | 2 | 18.8 | 20 | |
| Common Bulbul | Juv | 21.3 | 21.8 | 21.6 | 0.35 | 2 | 14.4 | 14.6 | 14.5 | 0.14 | 2 | 19.3 | 19.4 | 19.4 | 0.07 | 2 | 19.3 | 19.4 | |
| Black-collared Bulbul | Adult | 20.3 | 20.3 | 20.3 | | 1 | 10.7 | 10.7 | 10.7 | | 1 | 17.2 | 17.2 | 17.2 | | 1 | 17.2 | 17.2 | |
| Western Nicator | Adult | 27.4 | 29.2 | 28.5 | 0.95 | 3 | 15.4 | 19.3 | 17.5 | 1.97 | 3 | 21.8 | 23.2 | 22.5 | 0.99 | 2 | 21.8 | 23.2 | |
| Western Nicator | Juv | 27.7 | 27.7 | 27.7 | | 1 | 16.3 | 16.3 | 16.3 | | 1 | 22 | 22 | 22 | | 1 | 22 | 22 | |
| Western Nicator | Male? | 29.2 | 29.2 | 29.2 | | 1 | 18.1 | 18.1 | 18.1 | | 1 | 24.6 | 24.6 | 24.6 | | 1 | 24.6 | 24.6 | |
| Red-capped Robin Chat | Adult | 24.2 | 26.6 | 25.6 | 1.06 | 4 | 13.5 | 15.4 | 14.2 | 0.86 | 4 | 19 | 19.9 | 19.5 | 0.39 | 4 | 19 | 19.9 | |
| Fire-crested Alethe | Adult | 23.5 | 23.5 | 23.5 | | 1 | 15.9 | 15.9 | 15.9 | | 1 | 19.7 | 19.7 | 19.7 | | 1 | 19.7 | 19.7 | |
| White-browed Scrub Robin | Adult | 21.6 | 23.5 | 22.3 | 0.76 | 5 | 11.2 | 12.8 | 12.0 | 0.73 | 5 | 15.8 | 16.5 | 16.3 | 0.28 | 5 | 15.8 | 16.5 | |
| Sooty Chat | Female | 30.1 | 31.9 | 31.0 | 1.27 | 2 | 13.9 | 14.3 | 14.1 | 0.28 | 2 | 19.2 | 20.6 | 19.9 | 0.99 | 2 | 19.2 | 20.6 | |
| Sooty Chat | Male | 31.4 | 34 | 32.3 | 0.97 | 7 | 13.7 | 16.5 | 15.1 | 0.97 | 7 | 18 | 21.8 | 20.0 | 1.43 | 7 | 18 | 21.8 | |
| Winding Cisticola | | 24.8 | 28 | 26.0 | 1.72 | 3 | 12.6 | 15.4 | 13.9 | 1.40 | 3 | 17.7 | 19 | 18.3 | 0.67 | 3 | 17.7 | 19 | |

| Bird Species | Age/Sex group | Tarsus | | | | | | Bill (f) | | | | | | Bill (s) | | | | | |
|--------------------------------|---------------|--------|------|------|------|----|------|----------|------|------|----|------|------|----------|------|----|-----|-----|--|
| | | Min | Max | Mean | sd | n | Min | Max | Mean | sd | n | Min | Max | Mean | sd | n | Min | Max | |
| Croaking Cisticola | Juv | 29 | 29 | 29.0 | | 1 | 12.6 | 12.6 | 12.6 | | 1 | 17.8 | 17.8 | 17.8 | | 1 | | | |
| Croaking Cisticola | | 27.5 | 27.5 | 27.5 | | 1 | 13.7 | 13.7 | 13.7 | | 1 | 17.1 | 17.1 | 17.1 | | 1 | | | |
| Short-winged Cisticola | | 18 | 18 | 18.0 | | 1 | 9.3 | 9.3 | 9.3 | | 1 | 12.3 | 12.3 | 12.3 | | 1 | | | |
| Tawny-flanked Prinia | | 19.6 | 22.2 | 21.2 | 0.99 | 5 | 10 | 11.3 | 10.6 | 0.53 | 5 | 14.8 | 15.4 | 15.1 | 0.31 | 3 | | | |
| Grey-backed Canaroptera | | 19.5 | 24.5 | 22.1 | 1.60 | 10 | 11 | 15.6 | 12.5 | 1.27 | 10 | 16.1 | 17.1 | 16.5 | 0.36 | 8 | | | |
| Salvadori's Eremomela | | 18.2 | 18.2 | 18.2 | | 1 | 10 | 10 | 10.0 | | 1 | 13.9 | 13.9 | 13.9 | | 1 | | | |
| Green Crombec | | 14.1 | 18.1 | 16.8 | 1.29 | 12 | 8.6 | 10.7 | 9.5 | 0.61 | 12 | 11.7 | 14.4 | 13.2 | 0.83 | 12 | | | |
| Garden Warbler | | 19.2 | 19.2 | 19.2 | | 1 | 10.1 | 10.1 | 10.1 | | 1 | 15.1 | 15.1 | 15.1 | | 1 | | | |
| Green Hylia | | 18.6 | 20.3 | 19.7 | 0.95 | 3 | 9.2 | 10.8 | 10.1 | 0.81 | 3 | 13.7 | 15.3 | 14.6 | 0.81 | 3 | | | |
| White-browed Forest Flycatcher | Adult | 18.2 | 19.5 | 18.8 | 0.67 | 3 | 10.9 | 11.4 | 11.1 | 0.25 | 3 | 16.7 | 17.4 | 16.9 | 0.40 | 3 | | | |
| Pale Flycatcher | | 19.9 | 23 | 21.0 | 1.14 | 6 | 11.1 | 13.9 | 12.1 | 0.99 | 6 | 18 | 19.9 | 19.0 | 0.82 | 6 | | | |
| Spotted Flycatcher | Adult | 14.6 | 14.6 | 14.6 | | 1 | 12 | 12 | 12.0 | | 1 | 18 | 18 | 18.0 | | 1 | | | |
| Lead-coloured Flycatcher | | 16.6 | 18.1 | 17.3 | 0.48 | 6 | 8.9 | 10.3 | 9.6 | 0.52 | 6 | 14.8 | 15.9 | 15.2 | 0.44 | 5 | | | |
| Lead-coloured Flycatcher | Juv | 17.5 | 17.5 | 17.5 | | 1 | 9.9 | 9.9 | 9.9 | | 1 | 14.6 | 14.6 | 14.6 | | 1 | | | |
| Bates's Paradise Flycatcher | | 14.2 | 16.2 | 15.2 | 0.71 | 10 | 9.8 | 14.2 | 11.6 | 1.26 | 10 | 16.5 | 20.7 | 18.9 | 1.42 | 10 | | | |
| Bates's Paradise Flycatcher | Female | 14 | 14 | 14.0 | | 1 | 10.9 | 10.9 | 10.9 | | 1 | 19.4 | 19.4 | 19.4 | | 1 | | | |
| Bates's Paradise Flycatcher | Male | 15 | 16.3 | 15.7 | 0.92 | 2 | 10.2 | 12.5 | 11.4 | 1.63 | 2 | 19.5 | 21 | 20.3 | 1.06 | 2 | | | |
| Black-and-white Flycatcher | Male | 12.6 | 12.6 | 12.6 | | 1 | 15.5 | 15.5 | 15.5 | | 1 | 25.8 | 25.8 | 25.8 | | 1 | | | |
| Chestnut Wattle-eye | Female | 14.8 | 15 | 14.9 | 0.14 | 2 | 12.2 | 12.2 | 12.2 | 0.00 | 2 | 15.4 | 17.3 | 16.4 | 1.34 | 2 | | | |
| Chestnut Wattle-eye | Male | 15.2 | 15.2 | 15.2 | | 1 | 11.5 | 11.5 | 11.5 | | 1 | 17 | 17 | 17 | | 1 | | | |
| Black-headed Batis | Female | 16.5 | 16.5 | 16.5 | | 1 | 11.7 | 11.7 | 11.7 | | 1 | 16.1 | 16.1 | 16.1 | | 1 | | | |
| White-winged Black Tit | Adult | 16.1 | 19.3 | 18.4 | 1.54 | 4 | 8.3 | 10 | 9.3 | 0.77 | 4 | 13.9 | 15.1 | 14.4 | 0.51 | 4 | | | |
| Violet-tailed Sunbird | Female | 16.5 | 16.6 | 16.5 | 0.06 | 3 | 14.3 | 15.2 | 14.6 | 0.52 | 3 | 18.5 | 19.6 | 19.1 | 0.57 | 3 | | | |
| Violet-tailed Sunbird | Juv | 17.5 | 17.5 | 17.5 | | 1 | 14.7 | 14.7 | 14.7 | | 1 | 18.8 | 18.8 | 18.8 | | 1 | | | |
| Violet-tailed Sunbird | Male | 17.1 | 17.5 | 17.3 | 0.28 | 2 | 15.3 | 15.3 | 15.3 | 0.00 | 2 | 18.1 | 20.2 | 19.2 | 1.48 | 2 | | | |
| Reichenbach's Sunbird | Adult | 14.9 | 18.5 | 16.4 | 1.38 | 5 | 15.7 | 18.2 | 16.7 | 0.94 | 5 | 19.2 | 20.6 | 20.0 | 0.58 | 4 | | | |
| Reichenbach's Sunbird | Female | 17 | 17 | 17.0 | | 1 | 15.3 | 15.3 | 15.3 | | 1 | 19.5 | 19.5 | 19.5 | | 1 | | | |
| Reichenbach's Sunbird | Juv | 17 | 17 | 17.0 | | 1 | 17 | 17 | 17.0 | | 1 | 21.2 | 21.2 | 21.2 | | 1 | | | |
| Green-headed Sunbird | Female | 16.3 | 17.4 | 16.9 | 0.45 | 4 | 20.9 | 22.1 | 21.5 | 0.49 | 4 | 25.7 | 27.2 | 26.6 | 0.66 | 4 | | | |
| Green-headed Sunbird | Male | 17.6 | 19.9 | 19.0 | 0.89 | 5 | 21.6 | 22.9 | 21.4 | 1.44 | 5 | 27 | 28.5 | 27.7 | 0.72 | 4 | | | |

| Bird Species | Age/Sex group | Tarsus | | | | | | Bill (f) | | | | | | Bill (s) | | | | | |
|------------------------------|---------------|--------|------|------|------|----|------|----------|------|------|----|------|------|----------|------|----|------|------|--|
| | | Min | Max | Mean | sd | n | Min | Max | Mean | sd | n | Min | Max | Mean | sd | n | Min | Max | |
| Blue-throated Brown Sunbird | Male | 15.4 | 15.4 | 15.4 | | 1 | 20.6 | 20.6 | 20.6 | | 1 | 24.8 | 24.8 | 24.8 | | 1 | 24.8 | 24.8 | |
| Western Olive Sunbird | Female | 14.4 | 17.8 | 15.9 | 1.08 | 13 | 20.5 | 23.5 | 21.7 | 0.94 | 13 | 24 | 28.3 | 25.5 | 1.10 | 13 | | | |
| Western Olive Sunbird | Imm male | 15.1 | 15.1 | 15.1 | | 1 | 22.5 | 22.5 | 22.5 | | 1 | 26.5 | 26.5 | 26.5 | | 1 | | | |
| Western Olive Sunbird | Juv | 14.5 | 16.6 | 15.2 | 0.83 | 5 | 19.7 | 23.6 | 21.5 | 1.77 | 5 | 24 | 27.7 | 26.1 | 1.64 | 5 | | | |
| Western Olive Sunbird | Male | 14.6 | 19.3 | 16.3 | 1.05 | 37 | 12.8 | 28 | 22.6 | 2.57 | 37 | 24.6 | 30.3 | 27.1 | 1.20 | 36 | | | |
| Green-throated Sunbird | Female | 15.3 | 15.3 | 15.3 | | 1 | 17.6 | 17.6 | 17.6 | | 1 | 23 | 23 | 23 | | 1 | | | |
| Green-throated Sunbird | Imm male | 16.1 | 16.1 | 16.1 | | 1 | 19 | 19 | 19 | | 1 | 24.8 | 24.8 | 24.8 | | 1 | | | |
| Green-throated Sunbird | Juv male? | 15.5 | 15.5 | 15.5 | | 1 | 19.6 | 19.6 | 19.6 | | 1 | 24.4 | 24.4 | 24.4 | | 1 | | | |
| Green-throated Sunbird | Male | 15.9 | 15.9 | 15.9 | | 1 | 19 | 19 | 19.0 | | 1 | 23.2 | 23.2 | 23.2 | | 1 | | | |
| Amethyst Sunbird | Female | 16 | 18.5 | 17.2 | 1.25 | 3 | 21.2 | 25.5 | 23.5 | 2.17 | 3 | 26.2 | 27.4 | 26.8 | 0.60 | 3 | | | |
| Amethyst Sunbird | Imm male | 16.6 | 16.8 | 16.7 | 0.12 | 3 | 23 | 23.9 | 23.3 | 0.49 | 3 | 28.9 | 30.7 | 29.7 | 0.92 | 3 | | | |
| Amethyst Sunbird | Male | 17.2 | 17.3 | 17.3 | 0.07 | 2 | 23.5 | 24.3 | 23.9 | 0.57 | 2 | 28.3 | 28.9 | 28.6 | 0.42 | 2 | | | |
| Collared Sunbird | Female | 13.7 | 15.2 | 14.5 | 1.06 | 2 | 13 | 13.3 | 13.2 | 0.21 | 2 | 16.2 | 17.6 | 16.9 | 0.99 | 2 | | | |
| Collared Sunbird | Male | 15.5 | 15.5 | 15.5 | | 1 | 14.4 | 14.4 | 14.4 | | 1 | 17.8 | 17.8 | 17.8 | | 1 | | | |
| Olive-bellied Sunbird | Female | 13.4 | 14.9 | 14.2 | 1.06 | 2 | 16.5 | 17.4 | 17.0 | 0.64 | 2 | 21.1 | 21.8 | 21.5 | 0.49 | 2 | | | |
| Olive-bellied Sunbird | Juv | 13.8 | 15.1 | 14.5 | 0.66 | 3 | 17.3 | 17.9 | 17.6 | 0.30 | 3 | 21.4 | 22.5 | 21.9 | 0.56 | 3 | | | |
| Olive-bellied Sunbird | Male | 14.4 | 17.1 | 15.6 | 1.20 | 5 | 16 | 19.6 | 18.1 | 1.30 | 5 | 21.5 | 24.4 | 22.9 | 1.14 | 5 | | | |
| Copper Sunbird | Female | 14.5 | 14.5 | 14.5 | | 1 | 16.6 | 16.6 | 16.6 | | 1 | 20.8 | 20.8 | 20.8 | | 1 | | | |
| Copper Sunbird | Male | 14 | 14 | 14.0 | | 1 | 18.1 | 18.1 | 18.1 | | 1 | 23.1 | 23.1 | 23.1 | | 1 | | | |
| Sooty Bouhou | Adult | 30.2 | 31.5 | 30.8 | 0.65 | 3 | 19.2 | 22.4 | 21.3 | 1.79 | 3 | 26.7 | 32.2 | 29.4 | 2.75 | 3 | | | |
| Violet-backed Starling | Female | 19.1 | 20.7 | 19.9 | 0.84 | 4 | 8.9 | 12.2 | 10.7 | 1.59 | 4 | 17.3 | 18.2 | 17.9 | 0.43 | 4 | | | |
| Violet-backed Starling | Male | 19.1 | 21.5 | 20.3 | 1.70 | 2 | 10.4 | 12.6 | 11.5 | 1.56 | 2 | 19.4 | 21.5 | 20.5 | 1.48 | 2 | | | |
| Northern Grey-headed Sparrow | | 20.8 | 20.8 | 20.8 | | 1 | 12.6 | 12.6 | 12.6 | | 1 | | | | | 0 | | | |
| Yellow-throated Petronia | Adult | 17 | 20 | 18.2 | 0.82 | 16 | 11.6 | 13.9 | 12.5 | 0.61 | 16 | 16.5 | 17.2 | 16.9 | 0.23 | 16 | | | |
| Yellow-throated Petronia | Imm | 18.9 | 18.9 | 18.9 | | 1 | 13.1 | 13.1 | 13.1 | | 1 | 16.6 | 16.6 | 16.6 | | 1 | | | |
| Yellow-throated Petronia | Juv | 17.7 | 17.7 | 17.7 | | 1 | 12.7 | 12.7 | 12.7 | | 1 | 16.8 | 16.8 | 16.8 | | 1 | | | |
| Vieillot's Black Weaver | Female | 21.1 | 23.4 | 22.5 | 0.68 | 13 | 16.6 | 19.5 | 18.1 | 0.76 | 13 | 20.8 | 21.8 | 21.3 | 0.50 | 3 | | | |
| Vieillot's Black Weaver | Imm male | 21.2 | 23 | 22.4 | 0.69 | 6 | 16.8 | 19.5 | 18.3 | 0.98 | 6 | 21.4 | 21.4 | 21.4 | | 1 | | | |
| Vieillot's Black Weaver | Juv | 23.5 | 23.5 | 23.5 | | 1 | 14.9 | 14.9 | 14.9 | | 1 | | | | | 0 | | | |
| Vieillot's Black Weaver | Male | 21.5 | 25.2 | 23.7 | 1.23 | 7 | 17.9 | 20 | 19.0 | 0.82 | 7 | 22.4 | 24 | 23.2 | 0.70 | 4 | | | |

| Bird Species | Age/Sex group | Tarsus | | | | | | Bill (f) | | | | | | Bill (s) | | | | | |
|-------------------------------------|---------------|--------|------|------|------|---|------|----------|------|------|---|------|------|----------|------|---|---|--|--|
| | | Min | Max | Mean | sd | n | Min | Max | Mean | sd | n | Min | Max | Mean | sd | n | | | |
| Village Weaver | Male | 23.7 | 23.7 | 23.7 | | 1 | 19 | 19 | 19.0 | | 1 | 23.3 | 23.3 | 23.3 | | 1 | | | |
| Red-headed Quelea | F/nb m | 16.9 | 19 | 18.0 | 1.48 | 2 | 12.1 | 13.5 | 12.8 | 0.99 | 2 | 15.6 | 16 | 15.8 | 0.28 | 2 | | | |
| Yellow-mantled Widowbird | Female | 20.4 | 22.2 | 21.4 | 0.78 | 4 | 13.8 | 14.2 | 13.9 | 0.20 | 4 | 16.7 | 17.6 | 17.0 | 0.49 | 3 | | | |
| Yellow-mantled Widowbird (breeding) | Male | 22.7 | 23.4 | 23.1 | 0.49 | 2 | 13.1 | 15.8 | 14.5 | 1.91 | 2 | 17.4 | 18.4 | 17.9 | 0.71 | 2 | | | |
| Yellow-mantled Widowbird | Male (nb) | 22.8 | 22.8 | 22.8 | | 1 | 14.9 | 14.9 | 14.9 | | 1 | 17.5 | 17.5 | 17.5 | | 1 | | | |
| Pale-fronted Negrofinch | Female | 13.5 | 13.5 | 13.5 | | 1 | 6.1 | 6.1 | 6.1 | | 1 | 11.6 | 11.6 | 11.6 | | 1 | | | |
| Orange-winged Pytilia | | | | | 0 | | | | | 0 | | | | | | 0 | | | |
| Orange-winged Pytilia | Female | 14 | 14.6 | 14.3 | 0.42 | 2 | 9.9 | 10.7 | 10.3 | 0.57 | 2 | 12.5 | 12.7 | 12.6 | 0.14 | 2 | | | |
| Orange-winged Pytilia | imm male | 15.2 | 16.3 | 15.7 | 0.55 | 3 | 9.2 | 11.4 | 10.6 | 1.19 | 3 | 12.5 | 13.2 | 12.8 | 0.38 | 3 | | | |
| Orange-winged Pytilia | imm? Male | | | 0 | | | | | | 0 | | | | | | 0 | | | |
| Orange-winged Pytilia | Juv | 17.9 | 17.9 | 17.9 | | 1 | 10.4 | 10.4 | 10.4 | | 1 | 13.2 | 13.2 | 13.2 | | 1 | | | |
| Orange-winged Pytilia | Male | 14.9 | 16 | 15.5 | 0.78 | 2 | 11.3 | 11.4 | 11.4 | 0.07 | 2 | 13.4 | 13.5 | 13.5 | 0.07 | 2 | | | |
| Western Bluebill | Female | 22.8 | 22.8 | 22.8 | | 1 | 15 | 15 | 15.0 | | 1 | 19.1 | 19.1 | 19.1 | | 1 | | | |
| Western Bluebill | Juv | 22.7 | 22.7 | 22.7 | | 1 | 15.3 | 15.3 | 15.3 | | 1 | 19.1 | 19.1 | 19.1 | | 1 | | | |
| Western Bluebill | Male | 21.4 | 22.3 | 21.7 | 0.41 | 4 | 14 | 15.2 | 14.6 | 0.51 | 4 | 19.2 | 20.7 | 19.9 | 0.64 | 4 | | | |
| Blue-billed Firefinch | Male | 17.1 | 17.1 | 17.1 | | 1 | 11 | 11 | 11.0 | | 1 | 13.9 | 13.9 | 13.9 | | 1 | | | |
| Orange-cheeked Waxbill | | | | | | | | | | | | | | | | | | | |
| Bronze Mannikin | | | | | | | | | | | | | | | | | | | |
| Pin-tailed Whydah | Adult (nb) | 17.2 | 17.2 | 17.2 | | 1 | 9.4 | 9.4 | 9.4 | | 1 | 12.9 | 12.9 | 12.9 | | 1 | | | |
| Black-throated Seedeater | | | | | | | | | | | | | | | | | | | |
| Cinnamon-breasted Rock Bunting | | | | | | | | | | | | | | | | | | | |
| Cinnamon-breasted Rock Bunting | | | | | | | | | | | | | | | | | 0 | | |
| Cabanis's Bunting | Female | 16.1 | 16.9 | 16.5 | 0.37 | 6 | 8.4 | 9.1 | 8.9 | 0.26 | 6 | 12.2 | 13.5 | 12.8 | 0.53 | 6 | | | |
| Cabanis's Bunting | Adult | 20.4 | 20.4 | 20.4 | | 1 | 12 | 12 | 12.0 | | 1 | 16.9 | 16.9 | 16.9 | | 1 | | | |

Appendix 5. Number of observations of each species by site (not including netted birds). Note that observation effort varies between sites.

Birds of the Lesio-Louna & Lefini Reserves: a preliminary analysis

| English name | Lesio-Louna | Idzoua Inkou | Ib camp des eco | Iboubikro | Ngondoro | Ngondoro - Kiamri | Confluence camp | Lefini river | Louma river | Abio | Etsoso | Mpoumako - Louma | Ngaka/Mt Abio | Ngo - Djambala | Total | |
|-----------------------------|-------------|--------------|-----------------|-----------|----------|-------------------|-----------------|--------------|-------------|------|--------|------------------|---------------|----------------|-------|----|
| | | | | | | | | | | | | | | | | |
| Black-breasted Snake Eagle | | | | | | | | | | | | | | | | 1 |
| Bateleur | | | 1 | | | | | | | | | | | | | 6 |
| African Harrier Hawk | | | | | | | | | | | | | | | | 4 |
| African Marsh Harrier | 2 | | | | | | | | | | | | | | | 2 |
| Eurasian Marsh Harrier | 1 | 2 | 6 | 1 | | | | | | | | | | | | 4 |
| Dark Chanting Goshawk | | | | | | | | | | | | | | | | 9 |
| African Goshawk | | | | | | | | | | | | | | | | 1 |
| Long-tailed Hawk | | | | | | | | | | | | | | | | 5 |
| Lizard Buzzard | | | | | | | | | | | | | | | | 10 |
| Red-necked Buzzard | 1 | 7 | 1 | | | | | | | | | | | | | 17 |
| Martial Eagle | | | | | | | | | | | | | | | | 5 |
| Common Kestrel | 16 | 1 | | | | 2 | | | | | | | | | | 3 |
| African Hobby | | | | | | | | | | | | | | | | 25 |
| Finsch's Francolin | 5 | | | 1 | | | | | | | | | | | | 1 |
| Red-necked Francolin | 3 | 6 | | 5 | | | | | | | | | | | | 7 |
| Helmeted Guineafowl | 2 | | | | | | | | | | | | | | | 15 |
| African Crake | 6 | 4 | | | | | | | | | | | | | | 5 |
| African Finfoot | | | | | | | | | | | | | | | | 19 |
| White-bellied Bustard | 1 | 13 | 1 | 1 | | | | | | | | | | | | 14 |
| Black-bellied Bustard | 1 | 15 | 1 | | | | | | | | | | | | | 39 |
| African Jacana | | | | | | | | | | | | | | | | 27 |
| Temminck's Courser | 3 | | 1 | | | | | | | | | | | | | 44 |
| Bronze-winged Courser | | | | | | | | | | | | | | | | 8 |
| Lesser Black-winged Lapwing | 8 | | 1 | | | | | | | | | | | | | 2 |
| Great Snipe | | | | | | | | | | | | | | | | 1 |
| Common Greenshank | | | | | | | | | | | | | | | | 2 |
| Common Sandpiper | | | | | | | | | | | | | | | | 18 |
| | | | | | | | | | | | | | | | | 26 |
| | | | | | | | | | | | | | | | | |

Birds of the Lesio-Louna & Lefini Reserves: a preliminary analysis

| English name | French name | Lesio-Louna | | Idzoua Inkou | | Ib camp des eco | | Iboubikro | | Ngondoro | | Kiamri - Ngondoro - | | Confluence camp | | Lefini river | | Louma river | | Abio | | Etso | | Mpoumako - Louma | | Ngaka/Mt Abio | | Ngo - Djambala | | Total | |
|-----------------------------|-------------|--------------|--------------|--------------|-------------|-----------------|----------|-----------|----------|----------|------------|---------------------|--------------|-----------------|------|--------------|------------------|---------------|----------------|-------|----|------|---|------------------|--|---------------|--|----------------|--|-------|--|
| | | Lefini south | Lefini north | Louma river | Louma river | Abio | Ngondoro | Iboubikro | Ngondoro | Kiamri | Ngondoro - | Lefini river | Lefini river | Louma river | Abio | Etso | Mpoumako - Louma | Ngaka/Mt Abio | Ngo - Djambala | Total | | | | | | | | | | | |
| African Skimmer | | 1 | 1 | 3 | 5 | 18 | 2 | 18 | 6 | 10 | 1 | | | | | | | | | 1 | 65 | 4 | 3 | | | | | | | | |
| African Green Pigeon | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blue-headed Wood Dove | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tambourine Dove | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blue-spotted Wood Dove | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Western Bronze-naped Pigeon | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Afep Pigeon | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red-eyed Dove | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ring-necked Dove | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Grey Parrot | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Great Blue Turaco | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Green Turaco | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Levaillant's Cuckoo | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red-chested Cuckoo | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Cuckoo | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| African Cuckoo | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| African Emerald Cuckoo | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Didric Cuckoo | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yellowbill | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Gabon Coucal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Coucal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Senegal Coucal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blue-headed Coucal | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Barn Owl | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Spotted Eagle Owl | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Swamp Nightjar | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Long-tailed Nightjar | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Birds of the Lesio-Louna & Lefini Reserves: a preliminary analysis

| English name | Lesio-Louna | | | | | | | | | | Lefini river | | | | | | | | | | Louna river | | | | | | | | | | Confluence camp | | | | | | | | | | Ngondoro - Kiamri | | | | | | | | | | Ngondoro | | | | | | | | | | Mboukiro - Louma | | | | | | | | | | Ngaka/Mt Abio | | | | | | | | | | Ngo - Djambala | | | | | | | | | | Total | | | | |
|-----------------------------|-------------|---|----|---|---|----------|----|---|---|---|--------------|----|----|---|---|-----------------|---|---|---|---|-------------|---|---|---|---|---------------------|---|---|---|---|-----------------|---|---|---|---|-----------------|---|---|---|---|-------------------|---|----|-----|--|-------------------|--|--|--|--|------------------|--|--|--|--|---------------|--|--|--|--|------------------|--|--|--|--|-------|--|--|--|--|---------------|--|--|--|--|--|--|--|--|--|----------------|--|--|--|--|--|--|--|--|--|-------|--|--|--|--|
| | Mah plateau | | | | | Mah Bleu | | | | | Idzoua Inkou | | | | | Ib camp des eco | | | | | Ngondoro | | | | | Ngondoro - Mboukiro | | | | | Idzoua Inkou | | | | | Ib camp des eco | | | | | Ngondoro | | | | | Ngondoro - Kiamri | | | | | Mboukiro - Louma | | | | | Ngaka/Mt Abio | | | | | Ngo - Djambala | | | | | Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pennant-winged Nightjar | 2 | 1 | 1 | 4 | 9 | 1 | 14 | 6 | 1 | 1 | 14 | 13 | 14 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| African Palm Swift | 3 | 2 | 3 | 1 | 5 | 3 | 16 | 4 | 1 | 1 | 15 | 5 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 79 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Common Swift | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Horus Swift | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Little Swift | 12 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Speckled Mousebird | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chocolate-backed Kingfisher | 1 | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brown-hooded Kingfisher | 1 | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Grey-headed Kingfisher | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blue-breasted Kingfisher | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 112 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Woodland Kingfisher | 2 | 1 | 2 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Striped Kingfisher | 1 | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| African Pygmy Kingfisher | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Malachite Kingfisher | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Shining-blue Kingfisher | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Giant Kingfisher | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 67 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pied Kingfisher | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 68 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black-headed Bee-eater | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Bee-eater | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Little Bee-eater | 3 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blue-breasted Bee-eater | 10 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 48 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White-throated Bee-eater | 1 | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| European Bee-eater | 7 | 5 | 2 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 69 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rosy Bee-eater | 1 | | 18 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| European Roller | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lilac-breasted Roller | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blue-throated Roller | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Birds of the Lesio-Louna & Lefini Reserves: a preliminary analysis

| English name | Mah plateau | Ibouibiro - Mah | Lac Bleu | Idzoua Inkou | Ib camp des eco | Ibouibiro | Ngondoro | Ngondoro - Kiamri | Confluence camp | Lefini river | Louma river | Abio | Etstoso | Mpoumako - Louma | Ngaka/Mt Abio | Ngo - Djambala | Total |
|----------------------------|-------------|-----------------|----------|--------------|-----------------|-----------|----------|-------------------|-----------------|--------------|-------------|------|---------|------------------|---------------|----------------|-------|
| | | | | | | | | | | | | | | | | | |
| Broad-billed Roller | | 4 | | 3 | 1 | 2 | | | 11 | 4 | 11 | | | 2 | | | 32 |
| Hoopoe | | | | | 1 | 1 | | | | | | | | | | 7 | 1 |
| Red-billed Dwarf Hornbill | | | | | 9 | 24 | 3 | | 21 | 24 | 35 | 2 | 1 | | | 119 | 119 |
| African Pied Hornbill | | | | | 1 | 3 | 5 | | 13 | 16 | 19 | 5 | 1 | | | 63 | 63 |
| Piping Hornbill | | | | | | | | | | | | | | | | | 1 |
| White-thighed Hornbill | | | | | | | | | | | | | | | | | 1 |
| Grey-throated Barbet | | | | | | | | | | | | | | | | | 11 |
| Sladen's Barbet | | | | | | | | | | | | | | | | | 31 |
| Speckled Tinkerbird | | | | | | | | | | | | | | | | | 35 |
| Red-rumped Tinkerbird | | | | | | | | | | | | | | | | | 3 |
| Yellow-throated Tinkerbird | | | | | | | | | | | | | | | | | 41 |
| Yellow-rumped Tinkerbird | | | | | | | | | | | | | | | | | 9 |
| Hairy-breasted Barbet | | | | | | | | | | | | | | | | | 9 |
| Miombo Pied Barbet | | | | | | | | | | | | | | | | | 8 |
| Black-backed Barbet | | | | | | | | | | | | | | | | | 1 |
| Greater Honeyguide | | | | | | | | | | | | | | | | | 1 |
| Green-backed Woodpecker | | | | | | | | | | | | | | | | | 2 |
| Brown-eared Woodpecker | | | | | | | | | | | | | | | | | 5 |
| Cardinal Woodpecker | | | | | | | | | | | | | | | | | 7 |
| Yellow-crested Woodpecker | | | | | | | | | | | | | | | | | 11 |
| Elliot's Woodpecker | | | | | | | | | | | | | | | | | 1 |
| Flappet Lark | 1 | 5 | 3 | 23 | 20 | 4 | 11 | 2 | | 3 | 2 | | 1 | 2 | | 1 | 73 |
| Black Saw-wing | 5 | 2 | 2 | | | | | | | | | | | | | | 14 |
| Brazza's Martin | 1 | | | | | | | | | | | | | | | | 1 |
| Banded Martin | 9 | 8 | 2 | 1 | 10 | 2 | 2 | 1 | | 2 | 9 | 23 | 1 | 3 | 1 | 1 | 75 |
| Rufous-chested Swallow | 2 | | 1 | 1 | 7 | 3 | | | | 2 | 5 | 1 | | | | | 23 |
| Mosque Swallow | | | | | | | | | | | | | | | | | 1 |

Birds of the Lesio-Louna & Lefini Reserves: a preliminary analysis

| English name | Lesio-Louna | | | | | | Total |
|-----------------------------|-------------|----------|--------------|-----------------|-----------------------|-------------------|-------|
| | Mah plateau | Lac Bleu | Idzoua Inkoú | Ib camp des eco | Ibouibiro - Mahondoro | Kiamri - Ngondoro | |
| Lesser Striped Swallow | 10 | 2 | 3 | | 1 | 1 | 36 |
| Red-throated Cliff Swallow | | 2 | | | 2 | 1 | 3 |
| Rock Martin | | | | 1 | 1 | 1 | 6 |
| White-throated Blue Swallow | | | | 1 | 25 | 28 | 107 |
| Barn Swallow | 1 | 1 | 1 | 1 | 2 | 2 | 7 |
| Common House Martin | | | | | | 1 | 4 |
| Yellow Wagtail | | | 1 | | | | 1 |
| Plain-backed Pipit | | 1 | | | 1 | | 2 |
| Long-legged Pipit | 7 | 2 | 4 | 20 | 4 | 8 | 54 |
| Yellow-throated Longclaw | | | | | 25 | 1 | 41 |
| Little Greenbul | | | | 16 | | | 6 |
| Little Grey Greenbul | | | | 4 | | | 1 |
| Slender-billed Greenbul | | | | 1 | | | 5 |
| Honeyguide Greenbul | | | | 5 | | | 1 |
| Simple Leaflove | | | | 1 | 4 | 25 | 58 |
| Swamp Palm Bulbul | | | | 1 | | 11 | 1 |
| Lesser Bristlebill | | | | 1 | | 26 | 2 |
| Common Bulbul | 13 | 2 | 3 | 14 | 19 | 56 | 177 |
| Black-collared Bulbul | 1 | | | | 1 | 1 | 2 |
| Western Nicator | | | | 6 | 3 | | 7 |
| Rufous Flycatcher Thrush | | | | 4 | | 1 | 3 |
| White-browed Scrub Robin | | | | | 7 | | 4 |
| Common Stonechat | | | | | 1 | 13 | 3 |
| Congo Moor Chat | 1 | 21 | 1 | 12 | 22 | | 61 |
| Sooty Chat | 3 | 21 | 1 | 2 | | | 77 |
| Whistling Cisticola | | | | | | | 2 |
| Winding Cisticola | 10 | | | | 44 | 2 | 1 |
| | | | | | | | 67 |

Birds of the Lesio-Louna & Lefini Reserves: a preliminary analysis

| English name | Mah plateau | Mahé plateau - Mahé | Lac Bleu | Idzoua Inkou | Idzoua Inkou | Ib camp des eco | Iboubikro | Ngondoro | Ngondoro - Kiamri | Confluence camp | Lefini river | Louna river | Abio | Etsoso | Mpoumako - Louma | Ngaka/Mt Abio | Ngo - Djambala | Total |
|--------------------------------|-------------|---------------------|----------|--------------|--------------|-----------------|-----------|----------|-------------------|-----------------|--------------|-------------|------|--------|------------------|---------------|----------------|-------|
| | | | | | | | | | | | | | | | | | | |
| Croaking Cisticola | | | | 4 | 12 | 1 | | | | | | | | | | | | 18 |
| Short-winged Cisticola | | | | 1 | 11 | 1 | 1 | 1 | 1 | | | | | | | | | 1 |
| Piping Cisticola | 3 | | | 10 | 9 | 1 | 5 | 1 | | | | | | | | | | 17 |
| Zitting Cisticola | | | | | | | | | | | | | | | | | | 26 |
| Pectoral-patch Cisticola | | | | | | | | | | | | | | | | | | 1 |
| Tawny-flanked Prinia | 1 | 1 | | 5 | 11 | 4 | 1 | | | | | | | | | | | 30 |
| White-chinned Prinia | 1 | | | 5 | | 1 | | | | | | | | | | | | 6 |
| Grey-backed Camaroptera | | | | 1 | | | | | | | | | | | | | | 2 |
| Salvadori's Eremomela | 1 | | | 1 | | | | | | | | | | | | | | 2 |
| Green-capped Eremomela | | | | 8 | 2 | | | | | | | | | | | | | 10 |
| Green Crombec | | | | | | | | | | | | | | | | | | 13 |
| Willow Warbler | | | | | | | | | | | | | | | | | | 3 |
| Yellow-bellied Hylota | 1 | | | 6 | | | | | | | | | | | | | | 7 |
| Green Hylia | | | | | | 1 | | | | | | | | | | | | 1 |
| Fraser's Forest Flycatcher | | | | | | 10 | | | | | | | | | | | | 16 |
| White-browed Forest Flycatcher | | | | | | 1 | | | | | | | | | | | | 2 |
| Pale Flycatcher | 1 | 6 | 5 | | | | | | | | | | | | | | | 12 |
| Spotted Flycatcher | 2 | 3 | | | | | | | | | | | | | | | | 6 |
| Cassin's Flycatcher | | | | | | | | | | | | | | | | | | 87 |
| Lead-coloured Flycatcher | 1 | 1 | 3 | | | | | 1 | | | | | | | | | | 6 |
| African Paradise Flycatcher | | | | | | | | | | | | | | | | | | 4 |
| Bates's Paradise Flycatcher | | | | | | | | | | | | | | | | | | 18 |
| Black-and-white Flycatcher | 2 | | 1 | | | | | | | | | | | | | | | 13 |
| Chestnut Wattie-eye | | | | | | | | | | | | | | | | | | 2 |
| Common Wattie-eye | 1 | | | | | | | | | | | | | | | | | 1 |
| Black-headed Batis | 12 | 1 | | | | | | | | | | | | | | | | 13 |
| Angola Batis | 1 | 2 | | | | | | | | | | | | | | | | 3 |

Birds of the Lesio-Louna & Lefini Reserves: a preliminary analysis

| English name | Mah plateau | Lbouibiro - Mah | Idzoua Inkou | Lac Bleu | Idzoua Inkou | Lb camp des eco | Ibouibiro | Ngondoro | Ngondoro - Kiamri | Confuent camp | Lefini river | Louma river | Abio | Etsoso | Mpoumako - Louma | Ngaka/Mt Abio | Ngo - Djambala | Total |
|---------------------------------|-------------|-----------------|--------------|----------|--------------|-----------------|-----------|----------|-------------------|---------------|--------------|-------------|------|--------|------------------|---------------|----------------|-------|
| | | | | | | | | | | | | | | | | | | |
| White-winged Black Tit | 1 | 1 | 16 | 11 | 10 | 2 | | | | 22 | 2 | 4 | | | | | | 39 |
| Grey Penduline Tit | | 1 | | 19 | | | | | | | | | | | | | | 2 |
| Violet-tailed Sunbird | | | | 7 | | | | | | | | | | | | | | 48 |
| Green Sunbird | | | | | | | | | | | | | | | | | | 7 |
| Little Green Sunbird | | | | | | | | | | | | | | | | | | 2 |
| Reichenbach's Sunbird | | | | | | | | | | | | | | | | | | 98 |
| Green-headed Sunbird | | | | | | | | | | | | | | | | | | 20 |
| Blue-throated Brown Sunbird | | | | | | | | | | | | | | | | | | 3 |
| Western Olive Sunbird | | | | | | | | | | | | | | | | | | 34 |
| Green-throated Sunbird | | | | | | | | | | | | | | | | | | 30 |
| Amethyst Sunbird | 2 | | 2 | 12 | 1 | 3 | 1 | 16 | | | 8 | | | | | | | 18 |
| Collared Sunbird | | | | | 1 | 20 | | | | | 13 | 1 | | | | | | 36 |
| Olive-bellied Sunbird | | 2 | | | | 40 | 2 | | | | 34 | 2 | | | | | | 80 |
| Orange-tufted Sunbird | | | | | | | | | | | | | | | | | | 1 |
| Copper Sunbird | 14 | | 1 | 3 | 13 | 14 | 3 | | 2 | | 13 | 1 | 1 | | 2 | | 3 | 65 |
| Common Fiscal | 1 | 20 | | 1 | 14 | 1 | | | | | | | | | | | | 42 |
| Marsh Tchagra | 3 | | 5 | 1 | 2 | | | | | | | | | | | | | 3 |
| Black-crowned Tchagra | 1 | | | | 2 | | | | | | | | | | | | | 12 |
| Northern Puffback | 1 | | | | | | | | | | | | | | | | | 3 |
| Sooty Boubou | | | | | | | | 1 | | | | | | | | | | 1 |
| Square-tailed Drongo | | | | | | | 4 | | | | | | | | | | | 4 |
| Velvet-mantled Drongo | | | | | | | | | | | | | | | | | | 6 |
| Pied Crow | | 2 | | | | | | | | | | | | | | | | 3 |
| Forest Chestnut-winged Starling | | | | | | | | | | | | | | | | | | 3 |
| Purple-headed Glossy Starling | | | | | | | | 3 | | | | 2 | | | | | | 6 |
| Splendid Glossy Starling | | | | | | | | 4 | | | | 9 | | | | | | 17 |
| Violet-backed Starling | 1 | 19 | 2 | 6 | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | | | | 30 |

Birds of the Lesio-Louna & Lefini Reserves: a preliminary analysis

| English name | Lesio-Louna | Idzoua Inkou | Ib camp des eco | Iboubikro | Ngondoro | Kiamri - Ngondoro - | Confluence camp | Lefini river | Louma river | Abio | Etsoso | Mpoumako - Louma | Ngaka/Mt Abio | Ngo - Djambala | Total | |
|------------------------------|-----------------------|--------------|-----------------|-----------|----------|---------------------|-----------------|--------------|-------------|------|--------|------------------|---------------|----------------|-------|--|
| | | | | | | | | | | | | | | | | |
| Northern Grey-headed Sparrow | 2 | 1 | 13 | 2 | 1 | 1 | 1 | 4 | | | | | | 12 | 17 | |
| Yellow-throated Petronia | | | 2 | | | | | | | | | | | 3 | 3 | |
| Black-chinned Weaver | Hohlu's Golden Weaver | 2 | | | | | | | | | | | | 2 | 2 | |
| Vieillot's Black Weaver | 3 | | | 11 | 3 | 5 | | 8 | 2 | 1 | | | | 33 | 33 | |
| Village Weaver | | | | | | | | 2 | | | | | | 3 | 3 | |
| Yellow-mantled Weaver | | | | | | | 4 | | | | | | | 4 | 4 | |
| Compact Weaver | 7 | | | | 3 | | 3 | 1 | | | | | | 7 | 7 | |
| Blue-billed Malimbe | | | | | | 5 | | | | | | | | 4 | 4 | |
| Red-headed Malimbe | | | | | 1 | | | | | | | | | 3 | 3 | |
| Red-headed Quelea | 2 | | | | | | | | | | | | | 9 | 9 | |
| Black-winged Red Bishop | 2 | | | 6 | 14 | 2 | 9 | 2 | | | | | | 2 | 4 | |
| Yellow-mantled Widowbird | 21 | 15 | | | | | | | 1 | 1 | | | | 2 | 2 | |
| White-winged Widowbird | 2 | | | | 1 | | | | | | | | | 79 | 79 | |
| Red-collared Widowbird | 2 | | | | 7 | 5 | | | | | | | | 2 | 2 | |
| Marsh Widowbird | | | | | | | | | | | | | | 2 | 2 | |
| Grey-crowned Negrofinch | | | | | 2 | | | | | | | | | 28 | 28 | |
| Pale-fronted Negrofinch | 3 | 1 | | | | | | | | | | | | 2 | 2 | |
| Chestnut-breasted Negrofinch | | | | | 1 | | | | | | | | | 8 | 8 | |
| Orange-winged Pytilia | 1 | | | | 2 | | | | | | | | | 2 | 2 | |
| Black-bellied Seedcracker | | | | | | 2 | | | | | | | | 3 | 3 | |
| Western Bluebill | | | | | | 1 | | | | | | | | 4 | 4 | |
| Blue-billed Firefinch | 3 | | | | | | | | | | | | | 8 | 8 | |
| Fawn-breasted Waxbill | 1 | 1 | | | 1 | 7 | 21 | 7 | | | | | | 57 | 57 | |
| Orange-cheeked Waxbill | 15 | 1 | | | 1 | 3 | 1 | 2 | | 1 | 2 | 1 | | 8 | 8 | |
| Zebra Waxbill | | | | | | | | | | | | | | 1 | 1 | |
| Black-chinned Quailfinch | | | | | | | | | | | | | | | | |

Birds of the Lesio-Louna & Lefini Reserves: a preliminary analysis

| English name | Mah plateau | Mah Bléu | Idzoua Inkoú | Ib camp des eco | Iboubikro | Ngondoro | Ngondoro - Kiamti | Confluence camp | Lefini river | Louna river | Abio | Etsoso | Mpoumako - Louna | Ngaka/Mt Abio | Ngo - Djambala | Misc | Total | |
|--------------------------------|-------------|----------|--------------|-----------------|-----------|----------|-------------------|-----------------|--------------|-------------|------|--------|------------------|---------------|----------------|------|-------|----|
| | | | | | | | | | | | | | | | | | | |
| Bronze Mannikin | 11 | | 9 | 15 | 24 | 6 | 2 | 1 | 6 | 6 | 3 | 2 | | | | | 85 | |
| Pin-tailed Whydah | 9 | 1 | | 3 | 4 | 1 | | 2 | | | | | | | | | | 25 |
| Black-throated Seedeater | 1 | | 10 | 4 | 6 | | | | | | | | | | | | | 21 |
| Yellow-fronted Canary | 2 | | | | | | | | | | | | | | | | | 2 |
| Cinnamon-breasted Rock Bunting | 3 | 6 | 3 | 15 | 24 | 2 | | 9 | 2 | 1 | 1 | | | | | | | 66 |
| Species totals | 71 | 56 | 35 | 74 | 75 | 135 | 57 | 32 | 86 | 78 | 84 | 38 | 39 | 32 | 12 | 6 | 247 | |
| Total no observations | 264 | 263 | 54 | 339 | 411 | 1035 | 165 | 47 | 676 | 431 | 743 | 53 | 69 | 136 | 16 | 11 | 4713 | |

Appendix 6. Number of observations of each species by month (not including netted birds). Note that observation effort differs between months.

| English name | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| Little Grebe | 3 | 1 | | | | | 2 | | | 1 | 3 | | 10 |
| African Darter | | 1 | 1 | 2 | | 3 | 2 | 1 | | | | | 10 |
| Little Bittern | 1 | | | | | | | | | | | | 1 |
| White-crested Tiger Heron | | | | | | | | | | 2 | 2 | | 4 |
| Black-crowned Night Heron | | | 2 | 1 | | | 1 | | | | | | 4 |
| Squacco Heron | | | | 1 | | | | | | 1 | | 2 | 4 |
| Cattle Egret | 1 | 1 | 1 | 4 | | 1 | | | | 2 | 6 | 1 | 17 |
| Green-backed Heron | 3 | 7 | 2 | 4 | | 3 | | | | | 1 | 1 | 21 |
| Little Egret | | | | | | | | | | | 1 | 1 | 2 |
| Intermediate Egret | | | | | | | | | | | 3 | 3 | 6 |
| Great Egret | 1 | 1 | | | | | | | | | | 1 | 3 |
| Purple Heron | 2 | 3 | 5 | | | 2 | 3 | | 1 | 2 | 2 | 1 | 21 |
| Grey Heron | 2 | 1 | | | | | | | | | | | 3 |
| Hamerkop | 8 | 4 | 3 | 8 | 1 | 5 | 5 | 4 | 6 | 11 | 8 | 3 | 66 |
| Abdim's Stork | 7 | 10 | 10 | 1 | | | | | | | | | 28 |
| Woolly-necked Stork | | | | | | | | | | | | 1 | 1 |
| Spot-breasted Ibis | | 1 | | | | | | | 1 | | | | 2 |
| Hartlaub's Duck | | | | | | | | | | | 1 | | 1 |
| Knob-billed Duck | | | | | | 1 | | | | | 1 | | 2 |
| African Pygmy Goose | 1 | | | | | | | | | | | 1 | 2 |
| Osprey | 1 | | | | | | | | 1 | | | | 2 |
| European Honey Buzzard | | | | | | | | | | | 1 | 2 | 3 |
| Black-shouldered Kite | 1 | 4 | 2 | | | | | | 1 | 1 | 2 | | 11 |
| Black Kite | 3 | 5 | 3 | 4 | | 2 | 1 | 1 | 2 | 2 | | | 23 |
| African Fish Eagle | 2 | 4 | 1 | 2 | | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 17 |
| Palm-nut Vulture | 3 | 5 | 4 | 2 | 1 | 4 | 1 | | | | | 6 | 26 |
| Black-breasted Snake Eagle | | 1 | | | | | | | | | | | 1 |
| Bateleur | | | 1 | | | | | | 1 | 1 | 1 | 2 | 6 |
| African Harrier Hawk | 1 | | | | | 2 | | | | 1 | | | 4 |
| African Marsh Harrier | 2 | | | | | | | | | | | | 2 |
| Eurasian Marsh Harrier | 1 | 2 | | | | | | | | | | 1 | 4 |
| Dark Chanting Goshawk | | | 2 | 1 | 1 | 1 | | | 1 | 2 | | 1 | 9 |
| African Goshawk | | | | | | | 1 | | | | | | 1 |
| Long-tailed Hawk | | 1 | | | | 2 | | | | | 2 | | 5 |
| Lizard Buzzard | 3 | 3 | | | | | 2 | | | | | 2 | 10 |
| Red-necked Buzzard | 3 | 2 | 1 | 2 | | | 1 | | 2 | 1 | 4 | 1 | 17 |
| Martial Eagle | | | | | | | 1 | | | | 2 | | 3 |
| Common Kestrel | 2 | 6 | 3 | 3 | | | 3 | 1 | 1 | 2 | 2 | 2 | 25 |
| African Hobby | | 1 | | | | | | | | | | | 1 |
| Finsch's Francolin | | 1 | 2 | 1 | | | | 1 | | 1 | | 1 | 7 |
| Red-necked Francolin | 2 | 4 | 1 | 1 | | 1 | | 1 | 2 | 2 | | 1 | 15 |
| Helmeted Guineafowl | | | | | | 1 | | | | 4 | | | 5 |
| African Crake | 2 | 5 | 5 | 3 | 1 | | | | | | 2 | 1 | 19 |
| Black Crake | | | | | | | | 1 | | | | | 1 |
| African Finfoot | | 1 | 1 | 1 | | 2 | 2 | 4 | 1 | 1 | 1 | 1 | 15 |
| White-bellied Bustard | 5 | 4 | 2 | 3 | 1 | 1 | 2 | 2 | 9 | 6 | 1 | 3 | 39 |
| Black-bellied Bustard | 1 | 2 | 3 | 2 | | | 1 | 1 | 5 | 4 | 5 | 3 | 27 |

Birds of the Lesio-Louna & Lefini Reserves: a preliminary analysis

| English name | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|-----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| African Jacana | 2 | 10 | 11 | 5 | 3 | 5 | 1 | 1 | 2 | 2 | 1 | 1 | 44 |
| Temminck's Courser | | | | 2 | | 1 | | 1 | 2 | 1 | 1 | | 8 |
| Bronze-winged Courser | 2 | | | | | | | | | | | | 2 |
| Lesser Black-winged Lapwing | 4 | 2 | | 3 | | | 4 | 1 | 2 | 1 | | 1 | 18 |
| Great Snipe | 2 | | | | | | | | | | | | 2 |
| Common Greenshank | 1 | | | | | | | | | 1 | | | 2 |
| Common Sandpiper | 3 | | 4 | 4 | | | 1 | 2 | 4 | 5 | 1 | 3 | 27 |
| African Skimmer | | | | | | 1 | | | | | | | 1 |
| African Green Pigeon | 12 | 15 | 7 | 3 | 4 | 3 | 1 | 2 | 2 | 3 | 7 | 7 | 66 |
| Blue-headed Wood Dove | | 2 | | | | | 1 | 1 | | | | | 4 |
| Tambourine Dove | | | | | | 1 | | | | | | 2 | 3 |
| Blue-spotted Wood Dove | 11 | 10 | 5 | 2 | 2 | 1 | 3 | 1 | 4 | 2 | 2 | 10 | 53 |
| Western Bronze-naped Pigeon | 9 | 6 | | 4 | 3 | 3 | 1 | 2 | 2 | 1 | 4 | 7 | 42 |
| Afep Pigeon | 1 | | 1 | | | | 1 | 1 | | | 2 | 2 | 8 |
| Red-eyed Dove | 12 | 16 | 9 | 2 | 4 | 6 | 6 | 4 | 6 | 5 | 9 | 10 | 89 |
| Ring-necked Dove | | 1 | | | | | | | | | 1 | | 2 |
| Grey Parrot | 30 | 20 | 16 | 20 | 5 | 14 | 18 | 9 | 5 | 13 | 13 | 19 | 182 |
| Great Blue Turaco | 1 | | 1 | 1 | | | | 1 | | | | | 4 |
| Green Turaco | 1 | | | 1 | | | | 1 | | | 2 | 1 | 6 |
| Levaillant's Cuckoo | | | | | | | 1 | | 1 | | | 1 | 3 |
| Red-chested Cuckoo | 1 | 3 | 1 | | | | | | 3 | 3 | 5 | 2 | 18 |
| Black Cuckoo | 1 | | | | | | | | | | | | 1 |
| African Cuckoo | | | | | | | 1 | | | | 1 | | 2 |
| African Emerald Cuckoo | 13 | 6 | | | | | | 1 | 9 | 8 | 15 | 11 | 63 |
| Didric Cuckoo | 1 | | 1 | | | | | | 1 | | 2 | 1 | 6 |
| Yellowbill | | | 2 | | 1 | | | | 1 | 1 | | 6 | 11 |
| Gabon Coucal | 2 | | 1 | | | | | | | 1 | | | 4 |
| Black Coucal | 1 | 2 | | | | | | | | | 1 | | 4 |
| Senegal Coucal | 7 | 1 | 2 | 1 | | | | | 1 | 2 | | 4 | 18 |
| Blue-headed Coucal | | | | | | | 1 | | | | | | 1 |
| Barn Owl | | | | | 1 | | | | | | | 1 | 1 |
| Spotted Eagle Owl | | | | | | | | | | | | | 1 |
| Swamp Nightjar | | 2 | | | | | | 1 | | | | | 3 |
| Long-tailed Nightjar | | | | | | 1 | | | | | 2 | | 3 |
| Pennant-winged Nightjar | | | | | | | 1 | 2 | | | | | 3 |
| African Palm Swift | 7 | 5 | 3 | | 1 | 3 | 2 | | 2 | 1 | 1 | 5 | 30 |
| Common Swift | 26 | 19 | 8 | 1 | | | | | 4 | 4 | 3 | 14 | 79 |
| Horus Swift | | | 1 | | | | | | | | | | 1 |
| Little Swift | 6 | 7 | 3 | 3 | 1 | 2 | 1 | 1 | 1 | | 1 | 2 | 28 |
| Speckled Mousebird | 4 | 2 | 1 | | | | 1 | | 3 | | 2 | | 13 |
| Chocolate-backed Kingfisher | | | | 1 | | | | | | | | | 1 |
| Brown-hooded Kingfisher | 2 | 2 | | | | | | | | | 1 | | 5 |
| Grey-headed Kingfisher | | | | 2 | 4 | 3 | 7 | 1 | | | 1 | | 18 |
| Blue-breasted Kingfisher | 1 | 2 | 1 | 1 | | | | | | 1 | 3 | 4 | 13 |
| Woodland Kingfisher | 15 | 18 | 14 | 14 | 1 | 9 | 4 | 3 | 4 | 3 | 14 | 15 | 114 |
| Striped Kingfisher | 1 | 2 | 1 | | | | 2 | 1 | 1 | | 2 | 1 | 11 |
| African Dwarf Kingfisher | | | | | | | | | | | | 1 | 1 |
| African Pygmy Kingfisher | 4 | 7 | 5 | 1 | 1 | | 2 | | 3 | 2 | 2 | 1 | 28 |

Birds of the Lesio-Louna & Lefini Reserves: a preliminary analysis

| English name | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|-----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| Malachite Kingfisher | | 1 | 1 | | | | | | | | | 1 | 3 |
| Shining-blue Kingfisher | 2 | 3 | 3 | 2 | | | 2 | 2 | 1 | 1 | | | 16 |
| Giant Kingfisher | 9 | 9 | 5 | 12 | 1 | 9 | 4 | 6 | 1 | 7 | 3 | 3 | 69 |
| Pied Kingfisher | 8 | 7 | 5 | 12 | | 6 | 3 | 4 | 1 | 5 | 8 | 11 | 70 |
| Black-headed Bee-eater | | 3 | 2 | 4 | 1 | 5 | 3 | 7 | 2 | 5 | 1 | 5 | 38 |
| Black Bee-eater | 1 | 1 | 2 | 2 | | 4 | 1 | 2 | | 3 | 1 | 2 | 19 |
| Little Bee-eater | 3 | 1 | | | 1 | 2 | 2 | 2 | 3 | | 1 | 3 | 18 |
| Blue-breasted Bee-eater | 9 | 3 | 1 | 2 | | 4 | 4 | 4 | 6 | 1 | 7 | 7 | 48 |
| White-throated Bee-eater | 2 | 4 | | 1 | | | | | | | 1 | 3 | 11 |
| European Bee-eater | 18 | 10 | 7 | 1 | | | | | 3 | 5 | 9 | 16 | 69 |
| Rosy Bee-eater | 3 | 1 | | | | 1 | | 1 | 2 | | 2 | 4 | 14 |
| European Roller | | 1 | | | | | | | | | | | 1 |
| Lilac-breasted Roller | 2 | 3 | 3 | 1 | | | 3 | 1 | 6 | 1 | 2 | | 22 |
| Blue-throated Roller | 2 | | | | | | | | 1 | | | | 3 |
| Broad-billed Roller | 5 | 3 | 2 | 1 | | 4 | 1 | 1 | | 2 | 6 | 8 | 33 |
| Hoopoe | | | | | | | | | 3 | 4 | | | 7 |
| Red-billed Dwarf Hornbill | | | | | | | | | | 1 | | | 1 |
| African Pied Hornbill | 15 | 14 | 9 | 16 | 1 | 10 | 7 | 6 | 5 | 11 | 11 | 17 | 122 |
| Piping Hornbill | 7 | 8 | 4 | 7 | 2 | 2 | 8 | 4 | 2 | 7 | 4 | 9 | 64 |
| White-thighed Hornbill | | | | | | 3 | 2 | | 2 | | 1 | | 1 |
| Grey-throated Barbet | | | | | | | | | | | 2 | 2 | 11 |
| Sladen's Barbet | | 3 | 2 | 2 | | 6 | 1 | 2 | 1 | 3 | 6 | 5 | 31 |
| Speckled Tinkerbird | 6 | 4 | 2 | 1 | 2 | 6 | 1 | | 2 | | 2 | 9 | 35 |
| Red-rumped Tinkerbird | 1 | | 1 | | | | | | | | | 1 | 3 |
| Yellow-throated Tinkerbird | 5 | 5 | 3 | 2 | 3 | 5 | 2 | 1 | 2 | 2 | 4 | 7 | 41 |
| Yellow-rumped Tinkerbird | | 1 | 1 | | 1 | 1 | | 1 | | 1 | 2 | 1 | 9 |
| Hairy-breasted Barbet | 1 | | | 1 | | | | | | | | 7 | 9 |
| Miombo Pied Barbet | | 1 | | | 1 | | 1 | | 2 | 3 | | | 8 |
| Black-backed Barbet | | | | | | | | | | | 1 | | 1 |
| Greater Honeyguide | 1 | | | | | | | | | | | | 1 |
| Green-backed Woodpecker | 1 | | | | | | | | | | 1 | | 2 |
| Brown-eared Woodpecker | | | 3 | 1 | | | | | | | | 1 | 5 |
| Cardinal Woodpecker | 2 | | | | 2 | 1 | | | | 1 | 1 | | 7 |
| Yellow-crested Woodpecker | | 1 | 1 | | | 1 | | | | 2 | 3 | 3 | 11 |
| Elliot's Woodpecker | | | | | | | | | | | 1 | | 1 |
| Flappet Lark | 19 | 6 | 2 | 1 | 4 | 4 | 6 | 3 | 6 | 4 | 7 | 11 | 73 |
| Black Saw-wing | 2 | 1 | 5 | 1 | | 1 | | | 1 | | 3 | | 14 |
| Brazza's Martin | | | | | | 1 | | | | | | | 1 |
| Banded Martin | 15 | 10 | 2 | 2 | | 1 | 4 | 3 | 8 | 7 | 11 | 13 | 76 |
| Rufous-chested Swallow | 4 | 2 | | | | | 4 | 2 | 3 | | 5 | 3 | 23 |
| Mosque Swallow | 1 | | | | | | | | | | | | 1 |
| Lesser Striped Swallow | 9 | 7 | 6 | 3 | | 3 | 1 | | 3 | | 1 | 3 | 36 |
| Red-throated Cliff Swallow | | 3 | | | | | | | | | | | 3 |
| Rock Martin | | 1 | | | | 1 | | | 1 | | 1 | 2 | 6 |
| White-throated Blue Swallow | 19 | 17 | 9 | 16 | 1 | 9 | 1 | 5 | 3 | 6 | 10 | 12 | 108 |
| Barn Swallow | | | | 2 | | | 1 | | | | 2 | 2 | 7 |

Birds of the Lesio-Louna & Lefini Reserves: a preliminary analysis

| English name | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|--------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| Common House Martin | 1 | | 1 | | | | | | 1 | | 1 | | 4 |
| Yellow Wagtail | | | | | | | | | | | 1 | | 1 |
| Plain-backed Pipit | 1 | | | | | | 1 | | | | | | 2 |
| Long-legged Pipit | | | | | | | 1 | | 1 | | | | 2 |
| Yellow-throated Longclaw | 14 | 3 | 6 | 1 | | 4 | 3 | 2 | 5 | 1 | 9 | 6 | 54 |
| Little Greenbul | 2 | 4 | 5 | 1 | 2 | 11 | 2 | | 1 | | 4 | 9 | 41 |
| Little Grey Greenbul | | | 1 | | | 1 | | | | 1 | | 3 | 6 |
| Slender-billed Greenbul | | | | 1 | | | | | | | | | 1 |
| Honeyguide Greenbul | | | | | | 5 | | | | | | | 5 |
| Simple Leaflove | 1 | | | | | | | | | | | | 1 |
| Swamp Palm Bulbul | 13 | 6 | 6 | 3 | 1 | 5 | 1 | 2 | 1 | 4 | 5 | 12 | 59 |
| Lesser Bristlebill | | | | | | | | 1 | | | | | 1 |
| Common Bulbul | 31 | 26 | 13 | 7 | 6 | 11 | 9 | 2 | 15 | 9 | 24 | 25 | 178 |
| Black-collared Bulbul | 1 | 1 | | | | | | | | | | | 2 |
| Western Nicator | 1 | 2 | | | | | 1 | 1 | | | 1 | 1 | 7 |
| Rufous Flycatcher | | | 1 | | 1 | | | | | | 1 | | 3 |
| Thrush | | | | | | | | | | | | | |
| White-browed Scrub Robin | | | | | 2 | 1 | | | 1 | | | | 4 |
| Common Stonechat | 1 | | | 1 | | | | | | | 1 | | 3 |
| Congo Moor Chat | 7 | 7 | 5 | 3 | 1 | 6 | 3 | 2 | 12 | 6 | 5 | 4 | 61 |
| Sooty Chat | 9 | 9 | 3 | 5 | 3 | 5 | 5 | 6 | 10 | 4 | 10 | 8 | 77 |
| Whistling Cisticola | | | 1 | | 1 | | | | | | | | 2 |
| Winding Cisticola | 9 | 12 | 7 | 3 | 2 | 2 | 3 | | 6 | 6 | 11 | 6 | 67 |
| Croaking Cisticola | 1 | 3 | | 1 | | | | | 2 | 1 | 4 | 6 | 18 |
| Short-winged Cisticola | | | | | | 1 | | | | | | | 1 |
| Piping Cisticola | 5 | 4 | 1 | 1 | 2 | 1 | | | | | | 3 | 17 |
| Zitting Cisticola | 6 | 3 | 1 | 1 | 3 | | | | 1 | 1 | 5 | 5 | 26 |
| Pectoral-patch Cisticola | 1 | | | | | | | | | | | | 1 |
| Tawny-flanked Prinia | 11 | 3 | | 1 | | | 3 | | 3 | 1 | 3 | 5 | 30 |
| White-chinned Prinia | 2 | 2 | | | | | | | 1 | | | 1 | 6 |
| Grey-backed Camaroptera | | | 2 | | | | | | | | | | 2 |
| Salvadori's Eremomela | 1 | 1 | | | | | | | | | | | 2 |
| Green-capped Eremomela | | 3 | 1 | | 2 | 1 | | | 1 | | 1 | 1 | 10 |
| Green Crombec | 1 | 3 | 2 | | | 1 | 2 | | | 4 | | | 13 |
| Willow Warbler | | | | | | | | | 1 | 2 | | | 3 |
| Yellow-bellied Hyliota | | | 1 | | | 1 | 2 | | 1 | 1 | | 1 | 7 |
| Green Hylia | | | | | | 1 | | | | | | | 1 |
| Fraser's Forest Flycatcher | | 1 | 2 | | 1 | | 1 | | 2 | 2 | | 7 | 16 |
| White-browed Forest Flycatcher | | | | 1 | | | | | | 1 | | | 2 |
| Pale Flycatcher | 1 | 2 | | 2 | | 1 | 1 | | | 1 | 2 | 2 | 12 |
| Spotted Flycatcher | | | 1 | 1 | | | | | 4 | | | | 6 |
| Cassin's Flycatcher | 16 | 17 | 9 | 12 | 1 | 8 | 1 | 4 | 2 | 6 | 4 | 8 | 88 |
| Lead-coloured Flycatcher | 2 | 2 | | | | | | | | 1 | | 1 | 6 |
| African Paradise Flycatcher | | | | | | 1 | 1 | | | 1 | | 1 | 4 |
| Bates's Paradise Flycatcher | 3 | 1 | | 1 | 1 | | | | 1 | 3 | 1 | 7 | 18 |
| Black-and-white Flycatcher | 3 | 1 | 1 | | | | 3 | | | | 3 | 2 | 13 |

Birds of the Lesio-Louna & Lefini Reserves: a preliminary analysis

| English name | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| Chestnut Wattle-eye | | | | | 1 | | | | | | 1 | | 2 |
| Common Wattle-eye | | 1 | | | | | | | | | | | 1 |
| Black-headed Batis | | 4 | 1 | | 2 | | 3 | 1 | 1 | | | 1 | 13 |
| Angola Batis | | | | | | 1 | | | 2 | | | | 3 |
| White-winged Black Tit | 3 | 4 | 1 | 1 | 3 | 2 | 3 | 2 | 5 | 2 | 9 | 4 | 39 |
| Grey Penduline Tit | | | | | | | | | | 1 | 1 | | 2 |
| Violet-tailed Sunbird | 4 | 6 | 8 | 4 | 1 | 5 | 3 | 1 | 2 | 1 | 7 | 8 | 50 |
| Green Sunbird | | | 1 | | | | | | | 2 | 3 | 1 | 7 |
| Little Green Sunbird | | | 2 | | | | | | | | | | 2 |
| Reichenbach's Sunbird | 12 | 16 | 14 | 4 | 2 | 6 | 4 | | 7 | 8 | 13 | 12 | 98 |
| Green-headed Sunbird | 4 | 3 | 2 | 1 | 2 | | 1 | | 4 | 1 | 1 | 1 | 20 |
| Blue-throated Brown Sunbird | | | 1 | | | 1 | 1 | | | | | | 3 |
| Western Olive Sunbird | 4 | 3 | 4 | | 2 | 3 | 3 | | | 4 | 6 | 5 | 34 |
| Green-throated Sunbird | | 4 | 7 | | | 2 | | 1 | 6 | 6 | 4 | | 30 |
| Amethyst Sunbird | | 2 | 1 | 1 | 2 | | 3 | 1 | | 2 | 4 | 2 | 18 |
| Collared Sunbird | 2 | 3 | 5 | 3 | 2 | 4 | | 1 | 3 | 5 | 6 | 2 | 36 |
| Olive-bellied Sunbird | 12 | 15 | 9 | 4 | 2 | 2 | 6 | 1 | 5 | 3 | 11 | 11 | 81 |
| Orange-tufted Sunbird | | | 1 | | | | | | | | | | 1 |
| Copper Sunbird | 11 | 10 | 6 | 1 | 2 | 1 | 2 | | 10 | 4 | 10 | 8 | 65 |
| Common Fiscal | 5 | 5 | 2 | 1 | | 3 | 2 | 3 | 5 | 4 | 9 | 3 | 42 |
| Marsh Tchagra | 2 | | | | | | | | | | 1 | | 3 |
| Black-crowned Tchagra | | 1 | 2 | | 1 | 1 | 2 | | | 1 | 3 | 1 | 12 |
| Northern Puffback | | 1 | | | | | 1 | 1 | | | | | 3 |
| Sooty Boubou | | | | | | | | | | | | 1 | 1 |
| Square-tailed Drongo | 1 | 1 | | | 1 | | 1 | | | | | | 4 |
| Velvet-mantled Drongo | 1 | | | 1 | | | 1 | 1 | | 1 | 1 | | 6 |
| Pied Crow | | | | | 1 | | 1 | 1 | | | | | 3 |
| Forest Chestnut-winged Starling | | 1 | 1 | | | | | | | | | 1 | 3 |
| Purple-headed Glossy Starling | | 2 | | | 1 | 1 | | | 1 | | 1 | | 6 |
| Splendid Glossy Starling | 2 | | | 2 | | 1 | | 2 | 2 | 1 | 4 | 3 | 17 |
| Violet-backed Starling | | 1 | 2 | 3 | 7 | 2 | 4 | 1 | 8 | 2 | | | 30 |
| Northern Grey-headed Sparrow | 3 | 2 | 2 | 2 | 1 | 1 | | | | | | 1 | 12 |
| Yellow-throated Petronia | | 2 | 2 | 1 | 4 | 1 | | 1 | 2 | 1 | 1 | 2 | 17 |
| Black-chinned Weaver | 1 | | | | | | 1 | | | 1 | | | 3 |
| Holub's Golden Weaver | 1 | 1 | | 1 | | | | | | | | | 3 |
| Vieillot's Black Weaver | 7 | 4 | 1 | | | | 2 | | 3 | 6 | 1 | 3 | 33 |
| Village Weaver | | | 1 | | | | 1 | | | | | 1 | 3 |
| Yellow-mantled Weaver | 3 | | | | | | | | | | | 1 | 4 |
| Compact Weaver | 2 | 2 | 1 | | | | | | | | 2 | | 7 |
| Blue-billed Malimbe | 1 | 1 | | | | | | | | | 2 | | 4 |
| Red-headed Malimbe | 2 | | 1 | | | | | | | | | | 3 |
| Red-headed Quelea | 6 | 1 | 1 | | | | | | | | | 1 | 9 |
| Black-winged Red Bishop | | 1 | 1 | | 2 | | | | | | | | 4 |
| Yellow-mantled Widowbird | 27 | 12 | 7 | 5 | 2 | | 1 | 1 | 4 | 2 | 11 | 7 | 79 |
| White-winged Widowbird | | 1 | | | | | | | | | | 1 | 2 |
| Red-collared Widowbird | | 4 | 5 | 2 | 1 | | | | | | | | 12 |

Birds of the Lesio-Louna & Lefini Reserves: a preliminary analysis

| English name | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|-----------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|
| Marsh Widowbird | 9 | 5 | 1 | 4 | | 3 | 1 | | | | 3 | 2 | 28 |
| Grey-crowned Negrofinch | | | | | | | | | 2 | | | | 2 |
| Pale-fronted Negrofinch | 1 | 1 | 2 | | 1 | | | | | 1 | 2 | | 8 |
| Chestnut-breasted Negrofinch | | 1 | | | | | | | | 1 | | | 2 |
| Orange-winged Pytilia | | | | 2 | | | | | | 1 | | | 3 |
| Black-bellied Seedcracker | | 2 | | | 1 | | | | | | 1 | | 4 |
| Western Bluebill | | | | | | 1 | | 1 | | | | | 2 |
| Blue-billed Firefinch | 1 | 1 | | | | | | | 1 | | | | 3 |
| Fawn-breasted Waxbill | 6 | | | | | | 1 | | | 1 | | | 8 |
| Orange-cheeked Waxbill | 15 | 9 | 7 | 5 | 5 | 2 | 1 | | 3 | 1 | 3 | 6 | 57 |
| Zebra Waxbill | 3 | | | | | | | | | 2 | 3 | | 8 |
| Black-chinned Quailfinch | | | | | | 1 | | | | | | | 1 |
| Bronze Mannikin | 18 | 12 | 4 | 5 | 4 | 6 | 3 | | 6 | 6 | 8 | 13 | 85 |
| Pin-tailed Whydah | 3 | 3 | 3 | 2 | | | | | 1 | 3 | 7 | 3 | 25 |
| Black-throated Seedeater | 5 | 3 | 1 | | 3 | | 2 | 1 | 2 | | | 4 | 21 |
| Yellow-fronted Canary | 1 | 1 | | | | | | | | | | | 2 |
| Cinnamon-breasted Rock Bunting | 20 | 7 | 3 | 5 | | | | | | 6 | 14 | 12 | 67 |
| Total | 752 | 646 | 414 | 333 | 139 | 295 | 243 | 157 | 327 | 318 | 518 | 602 | 4744 |

Appendix 7. Liste des oiseaux des Réserves Lesio-Louna et Lefini, août 2007. Statut : résidente (R), migratrice du Paléarctique (P), migratrice du continent africain (M), rare visiteur (V), incertain (X).

| Famille | Nom anglais | Nom français | Nom scientifique | $\frac{\text{♂}}{\text{♀}}$ | Bailey et al. 1996 | Dowsett-Lemaire 1997 | Observé | Ce rapport Pris au filet |
|-------------------|---------------------------|------------------------|----------------------------------|-----------------------------|--------------------|----------------------|---------|-----------------------------|
| Podicipedidae | Little Grebe | Grèbe castagneux | <i>Tachybaptus ruficollis</i> | R | | 1 | 1 | 1 |
| Anhingidae | African Darter | Anhinga d'Afrique | <i>Anhinga rufa</i> | R/M? | 1 | 1 | 1 | 1 |
| Ardeidae | Little Bittern | Blongios nain | <i>Ixobrychus minutus</i> | P | | 1 | 1 | 1 |
| Ardeidae | White-crested Tiger Heron | Onoé à huppe blanche | <i>Tigrinornis leucocephalus</i> | R | | | | 1 |
| Ardeidae | White-backed Night Heron | Bihoreau à dos blanc | <i>Gorsachius leuconotus</i> | R | 1 | 1 | | |
| Ardeidae | Black-crowned Night Heron | Bihoreau gris | <i>Nycticorax nycticorax</i> | R | | 1 | | 1 |
| Ardeidae | Squacco Heron | Crabier chevelu | <i>Ardeola ralloides</i> | P | | 1 | 1 | 1 |
| Ardeidae | Cattle Egret | Héron garde-boeufs | <i>Bubulcus ibis</i> | R | 1 | 1 | 1 | 1 |
| Ardeidae | Green-backed Heron | Héron strié | <i>Butorides striatus</i> | R | 1 | | | 1 |
| Ardeidae | Little Egret | Aigrette garzette | <i>Egretta garzetta</i> | P | | 1 | 1 | 1 |
| Ardeidae | Intermediate Egret | Aigrette intermédiaire | <i>Egretta intermedia</i> | R/M? | | | | 1 |
| Ardeidae | Great Egret | Grande Aigrette | <i>Egretta alba</i> | P? | 1 | | | 1 |
| Ardeidae | Purple Heron | Héron pourpré | <i>Ardea purpurea</i> | R | | 1 | 1 | 1 |
| Ardeidae | Grey Heron | Héron cendré | <i>Ardea cinerea</i> | P | | 1 | 1 | 1 |
| Ardeidae | Hamerkop | Ombrette africaine | <i>Scopus umbretta</i> | R | 1 | 1 | 1 | 1 |
| Scopidae | Abdim's Stork | Cigogne d'Abdim | <i>Ciconia abdimii</i> | M | 1 | 1 | 1 | 1 |
| Ciconiidae | Woolly-necked Stork | Cigogne épiscopale | <i>Ciconia episcopus</i> | V/M? | | | | 1 |
| Threskiornithidae | Spot-breasted Ibis | Ibis vermiculé | <i>Bostrychia rara</i> | R | | 1 | 1 | 1 |
| Anatidae | Hartlaub's Duck | Canard de Hartlaub | <i>Pteronetta hartlaubii</i> | R? | | | | 1 |
| Anatidae | Knob-billed Duck | Canard à bosse | <i>Sarkidiornis melanotos</i> | V/M? | | 1 | 1 | 1 |
| Anatidae | African Pygmy Goose | Anserelle naine | <i>Nettapus auritus</i> | V/M? | 1 | | 1 | 1 |
| Pandionidae | Osprey | Balbuzard pêcheur | <i>Pandion haliaetus</i> | P | | | | 1 |
| Accipitridae | European Honey Buzzard | Bondrée apivore | <i>Pernis apivorus</i> | P | | | | 1 |
| Accipitridae | Black-shouldered Kite | Elanion blanc | <i>Elanus caeruleus</i> | R | 1 | 1 | 1 | 1 |
| Accipitridae | Black Kite | Milan noir | <i>Milvus migrans</i> | R/M? | 1 | 1 | 1 | 1 |
| Accipitridae | African Fish Eagle | Pygargue vocifer | <i>Haliaeetus vocifer</i> | R | | 1 | 1 | 1 |
| Accipitridae | Palm-nut Vulture | Palme africain | <i>Gypohierax angolensis</i> | R | 1 | | | 1 |

| Famille | Nom anglais | Nom français | Nom scientifique | $\frac{M}{S}$ | Bailey et al. 1996 | Dowsett-Lemaire 1997 | Observé | Ce rapport Pris au filet |
|--------------|----------------------------|---------------------------|---------------------------------|---------------|--------------------|----------------------|---------|-----------------------------|
| Accipitridae | Black-breasted Snake Eagle | Circaète à poitrine noire | <i>Circaetus pectoralis</i> | R/M? | | | 1 | |
| Accipitridae | Bateleur | Bateleur des savanes | <i>Terathopius ecaudatus</i> | R | | 1 | 1 | |
| Accipitridae | African Harrier Hawk | Gymnogène d'Afrique | <i>Polyboroides typus</i> | R | | 1 | 1 | |
| Accipitridae | Montagu's Harrier | Busard cendré | <i>Circus pygargus</i> | P/X? | | 1 | | |
| Accipitridae | African Marsh Harrier | Busard grenouillard | <i>Circus ranivorus</i> | R/M? | | | 1 | |
| Accipitridae | Eurasian Marsh Harrier | Busard des roseaux | <i>Circus aeruginosus</i> | P | | | 1 | |
| Accipitridae | Dark Chanting Goshawk | Autour sombre | <i>Melierax metabates</i> | R | | 1 | 1 | |
| Accipitridae | African Goshawk | Autour tachiro | <i>Accipiter tachiro</i> | R | | 1 | 1 | |
| Accipitridae | Long-tailed Hawk | Autour à longue queue | <i>Urotriorchis macrourus</i> | R | | | 1 | |
| Accipitridae | Lizard Buzzard | Autour unibande | <i>Kaupifalco monogrammicus</i> | R | | 1 | 1 | |
| Accipitridae | Red-necked Buzzard | Buse d'Afrique | <i>Buteo auguralis</i> | R | 1 | 1 | 1 | |
| Accipitridae | Tawny Eagle | Aigle ravisseur | <i>Aquila rapax</i> | R? | | 1 | | |
| Accipitridae | Long-crested Eagle | Aigle huppard | <i>Lophaetus occipitalis</i> | R? | | 1 | | |
| Accipitridae | Martial Eagle | Aigle martial | <i>Polemaetus bellicosus</i> | R? | | | 1 | |
| Falconidae | Common Kestrel | Faucon crécerelle | <i>Falco tinnunculus</i> | R & P? | | 1 | 1 | |
| Falconidae | African Hobby | Faucon de Cuvier | <i>Falco cuvierii</i> | X? | | | 1 | |
| Phasianidae | Finsch's Francolin | Francolin de Finsch | <i>Francolinus finschi</i> | R | | 1 | 1 | |
| Phasianidae | Scaly Francolin | Francolin écaillé | <i>Francolinus squamatus</i> | R | | 1 | | |
| Phasianidae | Red-necked Francolin | Francolin à gorge rouge | <i>Francolinus afer</i> | R | 1 | 1 | 1 | |
| Numidiidae | Crested Guineafowl | Pintade huppée | <i>Guttera pucherani</i> | R | | 1 | | |
| Numidiidae | Helmeted Guineafowl | Pintade commune | <i>Numida meleagris</i> | R | 1 | | 1 | |
| Turnicidae | Little Buttonquail | Turnix d'Andalousie | <i>Turnix sylvatica</i> | R? | | 1 | | |
| Turnicidae | Black-rumped Buttonquail | Turnix nain | <i>Turnix hottentotta</i> | R? | 1 | 1 | | |
| Rallidae | White-spotted Flufftail | Râle perlé | <i>Sarothrura pulchra</i> | R | | 1 | | |
| Rallidae | Red-chested Flufftail | Râle à camale | <i>Sarothrura rufa</i> | R | | 1 | | |
| Rallidae | African Crake | Râle des prés | <i>Crex egregia</i> | R/M? | 1 | 1 | 1 | |
| Rallidae | Black Crake | Râle à bec jaune | <i>Amauromis flavirostris</i> | R | | 1 | 1 | |

| Famille | Nom anglais | Nom français | Nom scientifique | $\frac{S}{T}$ | Bailey et al. 1996 | Dowsett-Lemaire 1997 | Observé | Ce rapport Pris au filet |
|----------------|-----------------------------|--------------------------------------|----------------------------------|---------------|--------------------|----------------------|---------|-----------------------------|
| Heliorhithidae | African Finfoot | Grébifoulque d'Afrique | <i>Podica senegalensis</i> | R | | | 1 | 1 |
| Otididae | White-bellied Bustard | Outarde du Sénégal | <i>Eupodotis senegalensis</i> | R | 1 | | 1 | 1 |
| Otididae | Black-bellied Bustard | Outarde à ventre noir | <i>Eupodotis melanogaster</i> | R | 1 | | 1 | 1 |
| Jacanidae | African Jacana | Jacana à poitrine dorée | <i>Actophilornis africanus</i> | R | | | 1 | 1 |
| Glareolidae | Temminck's Courser | Courvite de Temminck | <i>Cursorius temminckii</i> | R/M? | | | 1 | 1 |
| Glareolidae | Bronze-winged Courser | Courvite à ailes bronzées | <i>Rhinoptilus chalcopterus</i> | M? | | | 1 | 1 |
| Charadriidae | Lesser Black-winged Lapwing | Vanneau terne | <i>Vanellus lugubris</i> | R/M? | 1 | 1 | 1 | 1 |
| Scolopacidae | Great Snipe | Bécassine double | <i>Gallinago media</i> | P | | | 1 | 1 |
| Scolopacidae | Common Greenshank | Chevalier aboyeur | <i>Tringa nebularia</i> | P | | | 1 | 1 |
| Scolopacidae | Wood Sandpiper | Chevalier sylvain | <i>Tringa glareola</i> | P/X? | 1 | | | |
| Scolopacidae | Common Sandpiper | Chevalier guignette | <i>Actitis hypoleucos</i> | P | | | 1 | 1 |
| Rynchopidae | African Skimmer | Bec-en-ciseaux d'Afrique | <i>Rynchops flavirostris</i> | V | | | 1 | 1 |
| Columbidae | African Green Pigeon | Colombar (ou Pigeon vert) à front nu | <i>Treron calva</i> | R | 1 | 1 | 1 | 1 |
| Columbidae | Blue-headed Wood Dove | Tourtelette demoiselle | <i>Turtur brehmeri</i> | R | | | 1 | 1 |
| Columbidae | Tambourine Dove | Tourtelette tambourette | <i>Turtur tympanistrus</i> | R | 1 | 1 | 1 | 1 |
| Columbidae | Blue-spotted Wood Dove | Tourtelette améthystine | <i>Turtur afer</i> | R | 1 | 1 | 1 | 1 |
| Columbidae | Namaqua Dove | Tourtelette masquée | <i>Oena capensis</i> | V | | | 1 | 1 |
| Columbidae | Western Bronze-naped Pigeon | Pigeon à nuque bronzée | <i>Columba iriditorques</i> | R | | | 1 | 1 |
| Columbidae | Afep Pigeon | Pigeon gris | <i>Columba unicincta</i> | R | | | 1 | 1 |
| Columbidae | Red-eyed Dove | Tourterelle à collier | <i>Streptopelia semitorquata</i> | R | 1 | 1 | 1 | 1 |
| Columbidae | Ring-necked Dove | Tourterelle du Cap | <i>Streptopelia capicola</i> | R/V? | | | 1 | |
| Psittacidae | Grey Parrot | Perroquet gris | <i>Psittacus erithacus</i> | R | 1 | 1 | 1 | |
| Psittacidae | Red-headed Lovebird | Inséparable à tête rouge | <i>Agapornis pullarius</i> | V? | | | 1 | |

| Famille | Nom anglais | Nom français | Nom scientifique | $\frac{TS}{\text{Bailey et al. 1996}}$ | Dowsett-Lemaire 1997 | Observé | Ce rapport Pris au filet |
|---------------|-----------------------------|------------------------------|-------------------------------|--|----------------------|---------|-----------------------------|
| Musophagidae | Great Blue Turaco | Touraco géant | <i>Corythaeaola cristata</i> | R | 1 | 1 | 1 |
| Musophagidae | Green Turaco | Touraco vert | <i>Tauraco persa</i> | R | 1 | 1 | 1 |
| Musophagidae | Western Grey Plantain-eater | Touraco gris | <i>Crinifer piscator</i> | X? | | 1 | |
| Cuculidae | Levaillant's Cuckoo | Coucou de Levaillant | <i>Oxylophus levaillantii</i> | M | | 1 | 1 |
| Cuculidae | Red-chested Cuckoo | Coucou solitaire | <i>Cuculus solitarius</i> | R | | 1 | 1 |
| Cuculidae | Black Cuckoo | Coucou criard | <i>Cuculus clamosus</i> | R? | | 1 | 1 |
| Cuculidae | African Cuckoo | Coucou africain | <i>Cuculus gularis</i> | M? | | 1 | 1 |
| Cuculidae | Dusky Long-tailed Cuckoo | Coucou de Mechow | <i>Cercococcyx mechowi</i> | R | | 1 | |
| Cuculidae | Olive Long-tailed Cuckoo | Coucou olivâtre | <i>Cercococcyx olivinus</i> | R | | 1 | |
| Cuculidae | African Emerald Cuckoo | Coucou foliotocol | <i>Chrysococcyx cupreus</i> | R | 1 | 1 | 1 |
| Cuculidae | Klaas's Cuckoo | Coucou de Klaas | <i>Chrysococcyx klaas</i> | R | | 1 | |
| Cuculidae | Didric Cuckoo | Coucou didric | <i>Chrysococcyx caprius</i> | R | | 1 | |
| Cuculidae | Yellowbill | Malcoha à bec jaune | <i>Ceuthmochares aereus</i> | R | 1 | 1 | 1 |
| Cuculidae | Gabon Coucal | Coucal du Gabon | <i>Centropus anselli</i> | R | | 1 | 1 |
| Cuculidae | Black Coucal | Coucal de Grill | <i>Centropus grillii</i> | R? | | 1 | 1 |
| Cuculidae | Senegal Coucal | Coucal du Sénégal | <i>Centropus senegalensis</i> | R | 1 | 1 | 1 |
| Cuculidae | Blue-headed Coucal | Coucal moine | <i>Centropus monachus</i> | R/X? | | 1 | |
| Tytonidae | Barn Owl | Effraie des clochers | <i>Tyto alba</i> | R? | | 1 | |
| Strigidae | African Scops Owl | Petit-duc africain | <i>Otus senegaleensis</i> | X? | 1 | | |
| Strigidae | Spotted Eagle Owl | Grand-duc africain | <i>Bubo africanus</i> | R | 1 | 1 | |
| Strigidae | Pel's Fishing Owl | Chouette-pêcheuse de Pel | <i>Scotopelia peli</i> | R | | 1 | |
| Strigidae | Vermiculated Fishing Owl | Chouette-pêcheuse de Bouvier | <i>Scotopelia bouvieri</i> | R | | 1 | |
| Strigidae | African Wood Owl | Chouette africaine | <i>Strix woodfordii</i> | R | | 1 | |
| Caprimulgidae | Swamp Nightjar | Engoulevent du Natal | <i>Caprimulgus natalensis</i> | R | | 1 | 1 |
| Caprimulgidae | Long-tailed Nightjar | Engoulevent à longue queue | <i>Caprimulgus climacurus</i> | R/M? | | 1 | 1 |
| Caprimulgidae | Square-tailed Nightjar | Engoulevent du Mozambique | <i>Caprimulgus fossii</i> | X? | 1 | | |
| Caprimulgidae | Fiery-necked Nightjar | Engoulevent musicien | <i>Caprimulgus pectoralis</i> | R | | 1 | |

| Famille | Nom anglais | Nom français | Nom scientifique | $\frac{M}{♂}$ | $\frac{F}{♀}$ | Bailey et al. 1996 | Dowsett-Lemaire 1997 | Observé | Ce rapport Pris au filet |
|---------------|-----------------------------|----------------------------------|----------------------------------|---------------|---------------|--------------------|----------------------|---------|-----------------------------|
| Caprimulgidae | Pennant-winged Nightjar | Engoulevent porte-étendard | <i>Macrodipteryx vexillarius</i> | M | 1 | 1 | 1 | 1 | 1 |
| Apodidae | African Palm Swift | Martinet des palmiers | <i>Cypsiurus parvus</i> | R | 1 | 1 | 1 | 1 | 1 |
| Apodidae | Common Swift | Martinet noir | <i>Apus apus</i> | P | 1 | 1 | 1 | 1 | 1 |
| Apodidae | White-rumped Swift | Martinet cafre | <i>Apus caffer</i> | ? | 1 | | | | |
| Apodidae | Horus Swift | Martinet horus | <i>Apus horus</i> | ? | 1 | | | 1 | |
| Apodidae | Little Swift | Martinet des maisons | <i>Apus affinis</i> | R | | | | | 1 |
| Coliidae | Speckled Mousebird | Coliou rayé | <i>Colius striatus</i> | R | 1 | 1 | 1 | 1 | 1 |
| Trogonidae | Narina's Trogan | Trogon narina | <i>Apaloderma narina</i> | R | | 1 | 1 | 1 | |
| Alcedinidae | Chocolate-backed Kingfisher | Martin-chasseur marron | <i>Halcyon badia</i> | R | 1 | 1 | 1 | 1 | |
| Alcedinidae | Brown-hooded Kingfisher | Martin-chasseur à tête brune | <i>Halcyon albiventris</i> | R | 1 | 1 | 1 | 1 | |
| Alcedinidae | Grey-headed Kingfisher | Martin-chasseur à tête grise | <i>Halcyon leucocephala</i> | M & R? | | | | | 1 |
| Alcedinidae | Blue-breasted Kingfisher | Martin-chasseur à poitrine bleue | <i>Halcyon malimbica</i> | R | | 1 | 1 | 1 | 1 |
| Alcedinidae | Woodland Kingfisher | Martin-chasseur du Sénégal | <i>Halcyon senegalensis</i> | R | | 1 | 1 | 1 | 1 |
| Alcedinidae | Striped Kingfisher | Martin-chasseur strié | <i>Halcyon chelicuti</i> | R | 1 | 1 | 1 | 1 | |
| Alcedinidae | African Dwarf Kingfisher | Martin-pêcheur à tête rousse | <i>Ceyx lecontei</i> | R | | 1 | 1 | 1 | |
| Alcedinidae | African Pygmy Kingfisher | Martin-pêcheur pygmée | <i>Ceyx pictus</i> | R | 1 | 1 | 1 | 1 | 1 |
| Alcedinidae | White-bellied Kingfisher | Martin-pêcheur à vent blanc | <i>Alcedo leucogaster</i> | R | | 1 | | | |
| Alcedinidae | Malachite Kingfisher | Martin-pêcheur huppé | <i>Alcedo cristata</i> | R | | 1 | 1 | 1 | |
| Alcedinidae | Shining-blue Kingfisher | Martin-pêcheur azuré | <i>Alcedo quadribrachys</i> | R | | 1 | 1 | 1 | 1 |
| Alcedinidae | Giant Kingfisher | Martin-pêcheur géant | <i>Megaceryle maxima</i> | R | | 1 | 1 | 1 | |
| Alcedinidae | Pied Kingfisher | Martin-pêcheur pie | <i>Ceryle rudis</i> | R | | 1 | 1 | 1 | |
| Meropidae | Black-headed Bee-eater | Guêpier à tête noire | <i>Merops breweri</i> | R | | 1 | 1 | 1 | |
| Meropidae | Black Bee-eater | Guêpier noir | <i>Merops gallois</i> | R | | 1 | 1 | 1 | 1 |

| Famille | Nom anglais | Nom français | Nom scientifique | $\frac{\text{♂}}{\text{♀}}$ | $\frac{\text{♂}}{\text{♀}}$ | Bailey et al. 1996 | Dowsett-Lemaire 1997 | Observé | Ce rapport | Pris au filet |
|---------------|----------------------------|---------------------------|----------------------------------|-----------------------------|-----------------------------|--------------------|----------------------|---------|------------|---------------|
| Meropidae | Little Bee-eater | Guêpier nain | <i>Merops pusillus</i> | R | 1 | 1 | 1 | 1 | 1 | 1 |
| Meropidae | Blue-breasted Bee-eater | Guêpier à collier bleu | <i>Merops variegatus</i> | R | | 1 | 1 | 1 | 1 | 1 |
| Meropidae | White-throated Bee-eater | Guêpier à gorge blanche | <i>Merops albicollis</i> | P | | 1 | 1 | 1 | 1 | 1 |
| Meropidae | Blue-cheeked Bee-eater | Guêpier de Perse | <i>Merops persicus</i> | P/V? | | 1 | | | | |
| Meropidae | European Bee-eater | Guêpier d'Europe | <i>Merops apiaster</i> | P | | 1 | | | | 1 |
| Meropidae | Rosy Bee-eater | Guêpier gris-rose | <i>Merops malimbicus</i> | R/M? | | 1 | | | | |
| Coraciidae | European Roller | Rollier d'Europe | <i>Coracias garrulus</i> | P | | | | | | 1 |
| Coraciidae | Lilac-breasted Roller | Rollier à longs brins | <i>Coracias caudatus</i> | R | | 1 | | | | 1 |
| Coraciidae | Blue-throated Roller | Rolle à gorge bleue | <i>Eurystomus gularis</i> | R | | 1 | | | | 1 |
| Coraciidae | Broad-billed Roller | Rolle violet | <i>Eurystomus glaucurus</i> | R? | 1 | 1 | 1 | 1 | 1 | |
| Phoeniculidae | Black Wood-hoopoe | Irrisor noir | <i>Rhinopomastus aterrimus</i> | R/X? | | 1 | | | | |
| Upupidae | Hoopoe | Huppe fasciée | <i>Upupa epops</i> | M? | | 1 | | | | |
| Bucerotidae | White-crested Hornbill | Calao à huppe blanche | <i>Tropicranus albocristatus</i> | R? | | 1 | | | | |
| Bucerotidae | Red-billed Dwarf Hornbill | Calao pygmée | <i>Tockus camurus</i> | R? | | | | | | 1 |
| Bucerotidae | African Pied Hornbill | Calao longibande | <i>Tockus fasciatus</i> | R | 1 | 1 | | | | 1 |
| Bucerotidae | Piping Hornbill | Calao siffleur | <i>Bycanistes fistulator</i> | R | 1 | | | | | 1 |
| Bucerotidae | White-thighed Hornbill | Calao à cuisses blanches | <i>Bycanistes albotibialis</i> | R | 1 | | | | | 1 |
| Capitonidae | Grey-throated Barbet | Barbican à gorge grise | <i>Gymnobucco bonapartei</i> | R | | 1 | 1 | 1 | 1 | |
| Capitonidae | Sladen's Barbet | Barbican de Sladen | <i>Gymnobucco sladenii</i> | R | | 1 | 1 | 1 | 1 | |
| Capitonidae | Speckled Tinkerbird | Barbion grivelé | <i>Pogoniulus scolopaceus</i> | R | 1 | 1 | 1 | 1 | 1 | |
| Capitonidae | Red-rumped Tinkerbird | Barbion à croupion rouge | <i>Pogoniulus atroflavus</i> | R | | 1 | 1 | 1 | 1 | |
| Capitonidae | Yellow-throated Tinkerbird | Barbion à gorge jaune | <i>Pogoniulus subsulphureus</i> | R | 1 | 1 | 1 | 1 | 1 | |
| Capitonidae | Yellow-rumped Tinkerbird | Barbion à croupion jaune | <i>Pogoniulus bilineatus</i> | R | 1 | 1 | 1 | 1 | 1 | |
| Capitonidae | Yellow-fronted Tinkerbird | Petit Barbu à front jaune | <i>Pogoniulus chrysoconus</i> | R? | | | | | 1 | |

| Famille | Nom anglais | Nom français | Nom scientifique | ♂ ♂♂ ♂♂♂ | Bailey et al. 1996 | Dowsett- Lemaire 1997 | Observé | Ce rapport Pris au filet |
|---------------|-----------------------------|---------------------------|----------------------------------|----------------|-----------------------|-----------------------------|---------|-----------------------------|
| Capitonidae | Hairy-breasted Barbet | Barbican hérissé | <i>Tricholaema hirsuta</i> | R | | | | 1 |
| Capitonidae | Miombo Pied Barbet | Barbican du Miombo | <i>Tricholaema frontata</i> | R | | | 1 | 1 |
| Capitonidae | Black-backed Barbet | Barbican de Levailant | <i>Lybius minor</i> | R? | | | 1 | |
| Indicatoridae | Greater Honeyguide | Grand Indicateur | <i>Indicator indicator</i> | R? | | | 1 | |
| Indicatoridae | Thick-billed Honeyguide | Indicateur à gros bec | <i>Indicator corirostris</i> | R | | | 1 | |
| Picidae | Red-throated Wryneck | Torcol à gorge rousse | <i>Jynx ruficollis</i> | R? | | | 1 | |
| Picidae | Green-backed Woodpecker | Pic à dos vert | <i>Campether a cailliautii</i> | R | 1 | | 1 | 1 |
| Picidae | Buff-spotted Woodpecker | Pic tacheté | <i>Campether a nivosa</i> | R | | | 1 | |
| Picidae | Brown-eared Woodpecker | Pic à oreillons bruns | <i>Campether a caroli</i> | R | | | 1 | |
| Picidae | Cardinal Woodpecker | Pic cardinal | <i>Dendropicos fuscescens</i> | R | | | 1 | 1 |
| Picidae | Yellow-crested Woodpecker | Pic à couronne d'or | <i>Dendropicos xantholophus</i> | R | | | 1 | |
| Picidae | Elliot's Woodpecker | Pic d'Elliot | <i>Dendropicos elliotii</i> | V? | | | 1 | |
| Alaudidae | Rufous-naped Lark | Alouette à nuque rousse | <i>Mirafra africana</i> | R | | | 1 | |
| Alaudidae | Flappt Lark | Alouette bourdonnante | <i>Mirafra rufocinnamomea</i> | R | 1 | | 1 | |
| Hirundinidae | Square-tailed Saw-wing | Hirondelle à queue courte | <i>Psalidoprocne nitens</i> | R? | 1 | | 1 | |
| Hirundinidae | Black Saw-wing | Hirondelle hérisée | <i>Psalidoprocne pristoptera</i> | R | | | 1 | |
| Hirundinidae | Brazza's Martin | Hirondelle de Brazza | <i>Phedina brazzae</i> | V | | | 1 | |
| Hirundinidae | Banded Martin | Hirondelle à collier | <i>Riparia cincta</i> | R | | | 1 | |
| Hirundinidae | Rufous-chested Swallow | Hirondelle à ventre roux | <i>Hirundo semirufa</i> | R/M? | | | 1 | |
| Hirundinidae | Mosque Swallow | Hirondelle des mosquées | <i>Hirundo senegalensis</i> | R? | 1 | | 1 | |
| Hirundinidae | Lesser Striped Swallow | Hirondelle striée | <i>Hirundo abyssinica</i> | R | | | 1 | |
| Hirundinidae | Red-throated Cliff Swallow | Hirondelle à gorge fauve | <i>Hirundo rufigula</i> | V? | | | 1 | |
| Hirundinidae | Rock Martin | Hirondelle isabelline | <i>Hirundo fuligula</i> | R | | | 1 | |
| Hirundinidae | White-throated Blue Swallow | Hirondelle à bavette | <i>Hirundo nigrita</i> | R | | | 1 | |
| Hirundinidae | Barn Swallow | Hirondelle rustique | <i>Hirundo rustica</i> | P | 1 | | 1 | |

| Famille | Nom anglais | Nom français | Nom scientifique | $\frac{♂}{♀}$ | Bailey et al. 1996 | Dowsett-Lemaire 1997 | Observé | Ce rapport Pris au filet |
|--------------|--------------------------|-----------------------------|-----------------------------------|---------------|--------------------|----------------------|---------|-----------------------------|
| Hirundinidae | Common House Martin | Hirondelle de fenêtre | <i>Delichon urbica</i> | P | | | 1 | |
| Motacillidae | Yellow Wagtail | Bergeronnette printanière | <i>Motacilla flava</i> | P | | | 1 | 1 |
| Motacillidae | Grassland Pipit | Pipit africain | <i>Anthus cinnamomeus</i> | R? | | | 1 | |
| Motacillidae | Woodland Pipit | Pipit forestier | <i>Anthus nyassae</i> | R | | | 1 | 1 |
| Motacillidae | Plain-backed Pipit | Pipit à dos uni | <i>Anthus leucophrys</i> | R | | | 1 | |
| Motacillidae | Long-legged Pipit | Pipit à longues pattes | <i>Anthus pallidiventris</i> | R? | | | 1 | |
| Motacillidae | Short-tailed Pipit | Pipit à queue courte | <i>Anthus brachyurus</i> | R | | | 1 | |
| Motacillidae | Yellow-throated Longclaw | Sentinelle à gorge jaune | <i>Macronyx croceus</i> | R | | | 1 | 1 |
| Pycnonotidae | Little Greenbul | Bulbul verdâtre | <i>Andropadus virens</i> | R | | | 1 | 1 |
| Pycnonotidae | Little Grey Greenbul | Bulbul gracie | <i>Andropadus gracilis</i> | R | | | 1 | 1 |
| Pycnonotidae | Slender-billed Greenbul | Bulbul à bec grêle | <i>Andropadus gracilirostris</i> | R | | | 1 | 1 |
| Pycnonotidae | Honeyguide Greenbul | Bulbul à queue blanche | <i>Baeopogon indicator</i> | R | | | 1 | 1 |
| Pycnonotidae | Simple Leaflove | Bulbul modeste | <i>Chlorocichla simplex</i> | R? | | | 1 | |
| Pycnonotidae | Yellow-throated Leaflove | Bulbul à gorge claire | <i>Chlorocichla flavicollis</i> | R | | | 1 | |
| Pycnonotidae | Swamp Palm Bulbul | Bulbul des raphias | <i>Thescelocichla leucopleura</i> | R | | | 1 | 1 |
| Pycnonotidae | Leaflove | Bulbul à queue rousse | <i>Pyrrhurus scandens</i> | R | | | 1 | |
| Pycnonotidae | Lesser Bristlebill | Bulbul jaunelore | <i>Bleda notata</i> | R | | | 1 | 1 |
| Pycnonotidae | Common Bulbul | Bulbul des jardins | <i>Pycnonotus barbatus</i> | R | 1 | | 1 | 1 |
| Pycnonotidae | Black-collared Bulbul | Bulbul à collier noir | <i>Neolestes torquatus</i> | R | | | 1 | 1 |
| Pycnonotidae | Western Nicator | Bulbul nicator | <i>Nicator chloris</i> | R | | | 1 | 1 |
| Turdidae | Red-capped Robin Chat | Cossyphe à calotte rousse | <i>Cossypha natalensis</i> | R? | | | 1 | |
| Turdidae | Snowy-crowned Robin Chat | Cossyphe à calotte neigeuse | <i>Cossypha niveicapilla</i> | R | | | 1 | |
| Turdidae | Fire-crested Alethe | Aléthe à huppe rousse | <i>Alethea ademata</i> | R? | | | 1 | |
| Turdidae | Rufous Flycatcher Thrush | Stizorhina Fraseri | <i>Stizorhina Fraseri</i> | R | | | 1 | 1 |
| Turdidae | White-browed Scrub Robin | Agrobate à dos roux | <i>Cercotrichas leucophrys</i> | R | | | 1 | 1 |

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|-----------|----------------------------|-------------------------------|----------------------------------|-----------------------------|-------------------------------|--------------------|----------------------|---------|-----------------------------|
| Turdidae | Common Stonechat | Tarier pâtre | <i>Saxicola torquata</i> | R | | | | 1 | 1 |
| Turdidae | Congo Moor Chat | Traquet du Congo | <i>Myrmecocichla tholloni</i> | R | 1 | | | 1 | 1 |
| Turdidae | Sooty Chat | Traquet commandeur | <i>Myrmecocichla nigra</i> | R | 1 | | | 1 | 1 |
| Sylviidae | African Moustached Warbler | Mélodiche à moustaches | <i>Melocichla mentalis</i> | R? | | | 1 | | |
| Sylviidae | Whistling Cisticola | Cisticole siffleuse | <i>Cisticola latalis</i> | R | | | | 1 | |
| Sylviidae | Tinkling Cisticola | Cisticole grise | <i>Cisticola rufilatus</i> | R | | | 1 | | |
| Sylviidae | Winding Cisticola | Cisticole roussâtre | <i>Cisticola galactotes</i> | R | | | 1 | 1 | 1 |
| Sylviidae | Croaking Cisticola | Cisticole striée | <i>Cisticola natalensis</i> | R | | | 1 | 1 | 1 |
| Sylviidae | Short-winged Cisticola | Cisticole à ailes courtes | <i>Cisticola brachypterus</i> | R | | | 1 | 1 | 1 |
| Sylviidae | Piping Cisticola | Cisticole à couronne rousse | <i>Cisticola fulvicapillus</i> | R | | | 1 | 1 | |
| Sylviidae | Zitting Cisticola | Cisticole des jones | <i>Cisticola juncidis</i> | R | | | 1 | 1 | |
| Sylviidae | Pectoral-patch Cisticola | Cisticole brune | <i>Cisticola brunneus</i> | R | | | 1 | 1 | |
| Sylviidae | Pale-crowned Cisticola | Cisticole châtaîn | <i>Cisticola cinnamomeus</i> | R? | | | 1 | | |
| Sylviidae | Tawny-flanked Prinia | Prinie modeste | <i>Prinia subflava</i> | R | | | 1 | 1 | 1 |
| Sylviidae | White-chinned Prinia | Prinie à gorge blanche | <i>Schistolais leucopogon</i> | R | | | 1 | 1 | |
| Sylviidae | Buff-throated Apalis | Apalis à gorge rousse | <i>Apalis rufogularis</i> | R | | | 1 | | |
| Sylviidae | Grey-backed Camaroptera | Camaroptère à tête grise | <i>Camaroptera brachyura</i> | R | 1 | | 1 | 1 | 1 |
| Sylviidae | Yellow-browed Camaroptera | Camaroptère à sourcils jaunes | <i>Camaroptera supercilialis</i> | R | | | 1 | | |
| Sylviidae | Salvadori's Eremomela | Erémomèle de Salvadori | <i>Eremomela salvadorii</i> | R | | | 1 | 1 | 1 |
| Sylviidae | Green-capped Eremomela | Erémomèle à calotte verte | <i>Eremomela scotops</i> | R | | | 1 | 1 | |
| Sylviidae | Red-capped Crombec | Crombec à calotte rousse | <i>Sylvietta ruficapilla</i> | R | | | 1 | | |
| Sylviidae | Green Crombec | Crombec vert | <i>Sylvietta virens</i> | R | | | 1 | 1 | 1 |
| Sylviidae | Willow Warbler | Pouillot fitis | <i>Phylloscopus trochilus</i> | P | | | | 1 | |
| Sylviidae | Garden Warbler | Fauvette des jardins | <i>Sylvia borin</i> | P | | | | 1 | |

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|----------------|--------------------------------|------------------------------|--------------------------------|----------------|--------------------|----------------------|---------|-----------------------------|
| Sylviidae | Yellow-bellied Hyliota | Hyliote à ventre jaune | <i>Hylia flavigaster</i> | R | | 1 | 1 | 1 |
| Sylviidae | Green Hylia | Hylia verte | <i>Hylia prasina</i> | R | | 1 | 1 | 1 |
| Muscicapidae | Fraser's Forest Flycatcher | Gobemouche forestier | <i>Fraseria ocreata</i> | R | | 1 | 1 | 1 |
| Muscicapidae | White-browed Forest Flycatcher | Gobemouche à sourcils blancs | <i>Fraseria cinerascens</i> | R | | 1 | 1 | 1 |
| Muscicapidae | Pale Flycatcher | Gobemouche pâle | <i>Malaenornis pallidus</i> | R | | 1 | 1 | 1 |
| Muscicapidae | Spotted Flycatcher | Gobemouche gris | <i>Muscicapa striata</i> | P | | 1 | 1 | 1 |
| Muscicapidae | Cassin's Flycatcher | Gobemouche de Cassin | <i>Muscicapa cassini</i> | R | | 1 | 1 | 1 |
| Muscicapidae | Lead-coloured Flycatcher | Gobemouche mésange | <i>Myioparus plumbeus</i> | R | | 1 | 1 | 1 |
| Monarchidae | Blue-headed Crested Flycatcher | Tchitrec noir | <i>Trochocercus nitens</i> | R | | 1 | | |
| Monarchidae | African Paradise Flycatcher | Tchitrec d'Afrique | <i>Terpsiphone viridis</i> | R? | | 1 | 1 | 1 |
| Monarchidae | Bates's Paradise Flycatcher | Tchitrec de Bates | <i>Terpsiphone batesi</i> | R | | 1 | 1 | 1 |
| Platysteiridae | Black-and-white Flycatcher | Bias musicien | <i>Bias musicus</i> | R | | 1 | 1 | 1 |
| Platysteiridae | Chestnut Wattie-eye | Pirrit châtain | <i>Dyaphorophyia castanea</i> | R | | 1 | 1 | 1 |
| Platysteiridae | Common Wattie-eye | Pirrit à collier | <i>Platysteira cyanaea</i> | R | 1 | 1 | 1 | 1 |
| Platysteiridae | Black-headed Batis | Pirrit à joues noires | <i>Batis minor</i> | R | | 1 | 1 | 1 |
| Platysteiridae | Angola Batis | Pirrit de l'Angola | <i>Batis minulla</i> | R | | 1 | 1 | 1 |
| Paridae | White-winged Black Tit | Mésange à epaulettes | <i>Parus leucomelas</i> | R | | 1 | 1 | 1 |
| Remizidae | Grey Penduline Tit | Rémiz de Carol | <i>Anthoscopus caroli</i> | R | | 1 | 1 | 1 |
| Nectariniidae | Violet-tailed Sunbird | Souimanga à queue violette | <i>Anthreptes aurantiium</i> | R | | 1 | 1 | 1 |
| Nectariniidae | Green Sunbird | Souimanga à bec droit | <i>Anthreptes rectirostris</i> | R | | 1 | | |
| Nectariniidae | Little Green Sunbird | Souimanga de Seimund | <i>Anthreptes seimundi</i> | R? | | 1 | | |
| Nectariniidae | Frasers's Sunbird | Souimanga de Fraser | <i>Deleornis fraseri</i> | R | | 1 | | |
| Nectariniidae | Reichenbach's Sunbird | Souimanga de Reichenbach | <i>Anabathmis reichenbachi</i> | R | | 1 | 1 | 1 |
| Nectariniidae | Green-headed Sunbird | Souimanga à tête verte | <i>Cyanomitra verticalis</i> | R | | 1 | 1 | 1 |

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|---------------|---------------------------------|-------------------------------|----------------------------------|----------------|--------------------|----------------------|---------|-----------------------------|
| Nectariniidae | Blue-throated Brown Sunbird | Souimanga à gorge bleue | <i>Cyanomitra cyanoaemna</i> | R | | | 1 | 1 |
| Nectariniidae | Western Olive Sunbird | Souimanga olivâtre de l'Ouest | <i>Cyanomitra obscura</i> | R | | | 1 | 1 |
| Nectariniidae | Green-throated Sunbird | Souimanga à gorge verte | <i>Chalcomitra rubescens</i> | R | | | 1 | 1 |
| Nectariniidae | Amethyst Sunbird | Souimanga améthyste | <i>Chalcomitra amethystina</i> | R | 1 | 1 | 1 | 1 |
| Nectariniidae | Collared Sunbird | Souimanga à collier | <i>Hedydipna collaris</i> | R | | 1 | 1 | 1 |
| Nectariniidae | Olive-bellied Sunbird | Souimanga à ventre olive | <i>Cinnyris chloropygius</i> | R | | 1 | 1 | 1 |
| Nectariniidae | Congo Sunbird | Souimanga du Congo | <i>Cinnyris congensis</i> | V? | | | | |
| Nectariniidae | Orange-tufted Sunbird | Souimanga de Bouvier | <i>Cinnyris bouvieri</i> | ? | | | 1 | |
| Nectariniidae | Johanna's Sunbird | Souimanga de Johanna | <i>Cinnyris johnnae</i> | R | | 1 | | |
| Nectariniidae | Copper Sunbird | Souimanga cuivré | <i>Cinnyris cupreus</i> | R | | 1 | 1 | 1 |
| Laniidae | Common Fiscal | Pie-grièche fiscale | <i>Lanius collaris</i> | R | | 1 | 1 | 1 |
| Laniidae | Sousa's Shrike | Pie-grièche de Sousa | <i>Lanius souzae</i> | R? | | | | |
| Malacoptidae | Marsh Tchagra | Tchagra des marais | <i>Antichromus minutus</i> | R | | 1 | | |
| Malacoptidae | Black-crowned Tchagra | Tchagra à tête noire | <i>Tchagra senegala</i> | R | | 1 | 1 | 1 |
| Malacoptidae | Northern Puffback | Cubla de Gambie | <i>Dryoscopus gambensis</i> | R | | 1 | 1 | 1 |
| Malacoptidae | Sooty Boubou | Gonolek fuligineux | <i>Laniarius leucorhynchus</i> | R | | 1 | 1 | 1 |
| Dicruridae | Square-tailed Drongo | Drongo de Ludwig | <i>Dicrurus ludwigii</i> | R | | 1 | 1 | 1 |
| Dicruridae | Velvet-mantled Drongo | Drongo modeste | <i>Dicrurus modestus</i> | R | | | | 1 |
| Corvidae | Pied Crow | Corbeau pie | <i>Corvus albus</i> | R | 1 | 1 | 1 | 1 |
| Sturnidae | Forest Chestnut-winged Starling | Rufipenne de forêt | <i>Onychognathus fulgidus</i> | R | | 1 | 1 | 1 |
| Sturnidae | Purple-headed Glossy Starling | Choucador à tête pourprée | <i>Lamprotornis purpureiceps</i> | R | | | 1 | |
| Sturnidae | Cape Glossy Starling | Choucador à épaulettes rouges | <i>Lamprotornis nitens</i> | V? | | | 1 | |
| Sturnidae | Splendid Glossy Starling | Choucador splendide | <i>Lamprotornis splendidus</i> | R | | 1 | 1 | 1 |

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|-------------|------------------------------|------------------------------|----------------------------------|---------------|--------------------|----------------------|---------|-----------------------------|
| Sturnidae | Violet-backed Starling | Spréo améthyste | <i>Cinnyrichclus leucogaster</i> | R | | | 1 | 1 |
| Passeridae | Northern Grey-headed Sparrow | Moineau gris | <i>Passer griseus</i> | R | 1 | 1 | 1 | 1 |
| Passeridae | Yellow-throated Petronia | Moineau bridé | <i>Petronia superciliaris</i> | R | | 1 | 1 | 1 |
| Ploceidae | Black-chinned Weaver | Tisserin à menton noir | <i>Ploceus nigimentum</i> | R | | 1 | 1 | 1 |
| Ploceidae | Holub's Golden Weaver | Tisserin safran | <i>Ploceus xanthops</i> | R | | | 1 | |
| Ploceidae | Vieillot's Black Weaver | Tisserin noir | <i>Ploceus nigerrimus</i> | R | 1 | | 1 | |
| Ploceidae | Village Weaver | Tisserin gendarme | <i>Ploceus cucullatus</i> | R | 1 | | 1 | 1 |
| Ploceidae | Yellow-mantled Weaver | Tisserin tricolore | <i>Ploceus tricolor</i> | R\N? | | | 1 | |
| Ploceidae | Compact Weaver | Tisserin gros-bec | <i>Ploceus superciliosus</i> | R | | | 1 | |
| Ploceidae | Blue-billed Malimbe | Malimbe à bec bleu | <i>Malimbus nitens</i> | R | | 1 | 1 | |
| Ploceidae | Crested Malimbe | Malimbe huppé | <i>Malimbus malimbicus</i> | R | | 1 | | |
| Ploceidae | Red-headed Malimbe | Malimbe à tête rouge | <i>Malimbus rubricollis</i> | R\N? | | | 1 | |
| Ploceidae | Red-headed Quelea | Travailleur à tête rouge | <i>Quelea erythrops</i> | R | | | 1 | 1 |
| Ploceidae | Black-winged Red Bishop | Euplecte monseigneur | <i>Euplectes hordeaceus</i> | R | | | 1 | |
| Ploceidae | Yellow-mantled Widowbird | Euplecte à dos d'or | <i>Euplectes macrourus</i> | R | 1 | 1 | 1 | 1 |
| Ploceidae | White-winged Widowbird | Euplecte à épaules blanches | <i>Euplectes albonotatus</i> | R | | 1 | 1 | |
| Ploceidae | Red-collared Widowbird | Euplecte veuve-noire | <i>Euplectes ardens</i> | R | | | 1 | |
| Ploceidae | Marsh Widowbird | Euplecte des marais | <i>Euplectes hartlaubi</i> | R | | 1 | 1 | |
| Estrildidae | Grey-crowned Negrofinch | Nigrette à calotte grise | <i>Nigrita canicapilla</i> | R | | 1 | 1 | |
| Estrildidae | Pale-fronted Negrofinch | Nigrette à front jaune | <i>Nigrita luteifrons</i> | R | | 1 | 1 | 1 |
| Estrildidae | Chestnut-breasted Negrofinch | Nigrette à ventre roux | <i>Nigrita bicolor</i> | R | | 1 | 1 | |
| Estrildidae | White-breasted Negrofinch | Nigrette à ventre blanc | <i>Nigrita fusconota</i> | R | | 1 | | |
| Estrildidae | Orange-winged Pytilia | Beaumarquet à dos jaune | <i>Pytilia afra</i> | R | | 1 | 1 | 1 |
| Estrildidae | Black-bellied Seedcracker | Pyrénette ponceau | <i>Pyrenestes ostrinus</i> | R | | 1 | 1 | |
| Estrildidae | Western Bluebill | Sénégal (ou Grosbec) sanguin | <i>Spermophaga haematina</i> | R | | 1 | 1 | 1 |
| Estrildidae | Blue-billed Firefinch | Amarante flambe | <i>Lagonosticta rubricata</i> | R | | 1 | 1 | 1 |

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|--------------|--------------------------------|------------------------------|-------------------------------|----------------|-----------------------|-----------------------------|---------|-----------------------------|
| Estrildidae | Fawn-breasted Waxbill | Astrild à poitrine fauve | <i>Estrilda paludicola</i> | R | | | 1 | 1 |
| Estrildidae | Orange-cheeked Waxbill | Astrild à joues oranges | <i>Estrilda melpoda</i> | R | 1 | | 1 | 1 |
| Estrildidae | Common Waxbill | Astrild ondulé | <i>Estrilda astrild</i> | X? | | | 1 | |
| Estrildidae | Zebra Waxbill | Bengali zébré | <i>Amandava subflava</i> | M? | | | 1 | |
| Estrildidae | Locust Finch | Astrild-caille à gorge rouge | <i>Ortygospiza locustella</i> | R? | | | 1 | |
| Estrildidae | Black-chinned Quailfinch | Astrild-caille à gorge noire | <i>Ortygospiza gabonensis</i> | R? | | | 1 | 1 |
| Estrildidae | Bronze Mannikin | Capucin nonnette | <i>Lonchura cucullata</i> | R | 1 | | 1 | 1 |
| Estrildidae | Black-and-white Mannikin | Capucin bicolor | <i>Lonchura bicolor</i> | R | | | 1 | 1 |
| Viduidae | Pin-tailed Whydah | Veuve dominicaine | <i>Vidua macroura</i> | R | 1 | | 1 | 1 |
| Fringillidae | Black-throated Seedeater | Serin à gorge noire | <i>Serinus atricularis</i> | R | | | 1 | 1 |
| Fringillidae | Yellow-fronted Canary | Serin du Mozambique | <i>Serinus mozambicus</i> | R | 1 | | 1 | |
| Emberizidae | Cinnamon-breasted Rock Bunting | Bruant cannelle | <i>Emberiza tahapisi</i> | M | 1 | 1 | 1 | 1 |
| Emberizidae | Cabanis's Bunting | Bruant de Cabanis | <i>Emberiza cabanisi</i> | R | | | 1 | 1 |