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A comparison of measurements of passerine species and subspecies in Namibia

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Abstract

This article serves to supplement published measurement data for Namibian passerine species and subspecies, where possible, also by sex. It presents a summary of single-observer-sourced bird ringing measurements in Namibia, between 2002 and 2022. This report collated data of 159 subspecies and species, totalling 16 262 individuals and 64 451 measurements (head, culmen, tarsus, tail, wing, and mass). Included in this list are measurements for five near-endemic species and 123 subspecies. A comparison between similar curated lists of southern African records was made, with significant differences being noted between many of the reported measurements.

Keywords: Passeriformes, biometrics, sexual dimorphism, bird ringing, methodology, data management, Namibia, centralised biometric database.

Introduction

Species and subspecies of Namibian birds are underrepresented in research and literature of southern Africa. Of the 430 passerine species recorded in southern Africa, 269 occur in Namibia, with one endemic, the Dune Lark *Calendulauda erythrochlamys* and eight near-endemics (defined as at least 90% of population occurring in Namibia): White-tailed Shrike *Lanioturdus torquatus*, Carp's Tit *Melaniparus carpi*, Barlow's Lark *Calendulauda barlowi*, Benguela Long-billed Lark *Certhilauda benguelensis*, Gray's Lark *Ammomanopsis grayi*, Rockrunner *Achaetops pycnopygius*, Bare-cheeked Babbler *Turdoides gymnogenys*, and Herero Chat *Namibornis herero* (Brown et al. 2017).

Bird biometrics form a large proportion of the gaps in information, which is foundational data needed to further studies in species and subspecies of interest. There are numerous gaps in research-based literature, where measurements are limited or absent for many species, subspecies, or sexes (Bryson and Pajmans 2021; Bryson and Pajmans 2022). Researchers typically gather data from a variety of sources, both live birds as well as

museum specimens, where samples may not be measured consistently. A methodological mark may alter subsequent results when multiple assessors/authors working with different bird groups or individual species are involved (Yezerinac et al. 1992; Broughton et al. 2016). These reports are typically curated and published in reference guides, e.g., Fry and Keith (2004) and Hockey et al. (2005), where mixed datasets can be used, and gaps filled by using intercontinental records. These records are presented in variable styles, with subspecies and sexes rarely reported. Measurements of unsexed and occasionally young birds may be included in the mean and sample ranges when available from the original source papers. Key records are frequently missing, or data sets are incomplete, with limited sample sizes from specific ranges to validate the measurements.

Other than researchers' published collections, public centralized databases such as the South African Bird Ringing Schemes (SAFRING), offer an important resource (FitzPatrick Institute of African Ornithology 2022). SAFRING, in particular, has curated bird ringing and measurement data from across southern Africa and internationally, for the last 70 years, housing more than 2.7



million records (Paijmans et al. 2019). These accumulated measurements offer insight where reference guides may be limited, offering significant numbers of records and measurements across a variety of ages, sexes, subspecies, and localities. Biometrics from this database were recently summarised for southern African birds with sufficient samples (Rose et al. 2020), including birds from Namibia. One drawback to this reference is that overall summaries using these methods may combine measurements from all southern African countries, subspecies, and methodologies, which may lead to inconsistencies in the data (Barrett et al. 1989) and cannot be used for more rigorous region-specific analyses. When subspecies are not specified, nor more detailed measurements for the sexes (differentiating results that include breeding plumage), differences can be considerable, and thus negate positive results (Broughton et al. 2016). Additionally, unintentional duplication of already published datasets, e.g., data in Hockey et al. (2005) that were again included in the SAFRING database, e.g., Banded Martin *Riparia cincta* (data of AJ Tree in Vernon and Dean 2005), Variable Sunbird *Cinnyris venustus* (data of D Hanmer in Brown 2005a), Gurney's Sugarbird *Promerops gurneyi* (data of de Swardt in Brown 2005b), and many more, may overestimate values based on single contributors.

As reference guides and summary reports based on centralised databases have both advantages and disadvantages, we assess these against our large single-observer source dataset. Through the collection and collation of 20 years of bird ringing data from Namibia, we are able to report an extensive collection of passerine measurements from this specific region, following uniform methods by a single researcher. These unpublished measurements are compared and contribute to the existing data of Namibian passerines in Hockey et al. (2005) and Rose et al. (2020) where they were excluded. Included are subspecies, where possible, based on published information relating to their ringing locations and morphology (Hockey et al. 2005).

Methods of data collection

Timing and location

Ringing expeditions took place in Namibia, predominantly during the austral summer months between November and April. Ringing activities were focused on a variety of locations and habitats: the arid savannah at the eastern edge of the Namib-Naukluft Park (Farm Sphinxblick), the

savannah around Witvlei (Farm Okatjirute), and the savannah and grassland on the Farm Hamakari, i.e., south of the Waterberg. Additional sites included locations at Spitzkoppe, in the Erongo Mountains, in and around Swakopmund, near Omaruru, near Otavi, at Hobatere, Katima Mulilo and surroundings, and the Kunene region (Figure 1).

Species and subspecies Identification

Species were identified against the SAFRING species lists and numbers, which were further related to the International Ornithological Congress (IOC) list (Gill et al. 2021) to verify the current taxonomy and nomenclature. Subspecies noted were identified by location on the distribution maps in Hockey et al. (2005). We also consulted The Birds of Africa vol. 4 (Keith et al. 1992), vol. 5 (Urban et al. 1997), vol. 6 (Fry et al. 2000), vol. 7 (Fry and Keith 2004), the Illustrated Checklist of the Birds of the World (del Hoyo et al. 2016), Chittenden et al. (2012), Peacock (2012), and Birds of the World (Billermann et al. 2020). When finer criteria were needed, photographs were compared for the individual records with the description of the specific features of the subspecies given in Hockey et al. (2005). In cases of divergence between these authors, we referred to the Illustrated Checklist of the Birds of the World (del Hoyo et al. 2016) as our final orientation. Each of the subspecies authorities were reported in Appendix 1. Unidentifiable or mixed subspecies were noted as "mixed ssp".

Aging

Only initial records of adult birds were reported [SAFRING age codes 4 and 7 and higher (de Beer et al. 2001)]. As most measurements were taken during the summer months, ages could be determined accurately with many species expressing breeding plumage. Young birds nearing adulthood, at the end of their first year, are clearly distinguishable from adults due to the moult pattern and general appearance of plumage and bare parts. Adults can be recognized during their breeding activity by a brood patch, always showing in females and often males, and by the almost year-long wear of the plumage or the actual moult.

Sexing

The sex of birds was assessed by differences in plumage colour and size as specified in Keith et al. (1992). Urban

ten substantial variability of measurements taken by different persons, as discussed in Barrett et al. (1989). Measurements were taken in accordance with the African standard as recommended by SAFRING (de Beer et al. 2001, based on Svensson 1984). All records were reported, with those species having less than 10 records not used for comparison. Differences between the measurements of the sexes were assessed for statistical significance using a linear regression, where more than 10 records were reported for each.

Comparison of biometric data

Biometric ranges were compared, whenever possible, to the relevant published records. i.e., Hockey et al. (2005) and Rose et al. (2020). This proved to be complex, as the collection and presentation of these sources had numerous differences. It was not possible to test significance of differences between our records and those of Hockey et al. (2005), as suitable standard deviations or ranges were only present for three species (Red-billed Buffalo Weaver *Bubalornis niger*, Shaft-tailed Whydah *Vidua regia*, and Long-tailed Paradise Whydah *Vidua paradisaea*). To identify notable differences in measurements between our records and Hockey et al. (2005), percentage differences were calculated and those greater than 15% were highlighted for anecdotal reference. Rose et al. (2020) had suitable values and we were able to test for significant differences between species/subspecies by applying simple t-tests using the averages, standard deviation, and record count. These statistics were applied in the comparative table, but should be used for reference only as significance may not guarantee practical differences. In coordination with the authors of Rose et al. (2020), we decided to publish our data from Namibia separately to preserve the unique regionality of the data set. Our data from southern African countries (excluding Namibia), were included in the overview of Rose et al. (2020). It was often not clear which subspecies were included in the summaries, thus if they were mixed or unspecified, we classified them as such [e.g., Willow Warbler *Phylloscopus trochilus* (spp: 599) noted as “mixed ssp”]. We restricted the comparison of subspecies to those found in Namibia. Hockey et al. (2005) differentiated and described measurements of one or several subspecies while other cases reported measurements of averages

of “mixed subspecies” or sometimes “unspecified” subspecies, or the subspecies are not named in the summary.

Results

We were able to collate data of 159 passerine subspecies and species, totalling 16 262 individuals (having at least one measurement record) and 64 451 measurement records (Table 1). This translates into 53.5% of the 269 passerine species in Namibia as noted in Brown et al. (2017). The records included 7 151 head, 7 069 culmen, 6 904 tarsus, 13 163 tail, 14 793 wing, and 15 371 mass measurements, with 6 497 records incorporating all six values (Table 1). The greatest proportion of the records were collected from the passerine families Emberizidae, Passeridae, and Ploceidae (Table 2). The species records were irregularly distributed with more common species having large sample sizes of 100 ($n = 37$) and 1 000 ($n = 2$), thus, in these cases, producing an accurate range within the population. Subspecies were identified for 123 species (Table 2). Four of the eight Namibian near-endemic species were included in this study: Carp’s Tit, Gray’s Lark, Bare-cheeked Babbler, and Herero Chat.

Measurements

Measurement ranges documented in Table 2 were negligible, as the often-substantial variability of measurements taken by different persons was limited (Barrett et al. 1989). Significant measurement differences ($p < 0.05$) between mean \pm SD values of the sexes were reported in 189 measurement records, but this sexual size dimorphism (SSD) may not be biologically significant in all instances (Table 2). There were only a limited number of species ($n = 39$) that had significantly different mean measurements ($p < 0.05$) between sexes and had a difference in mean greater than 10% of the measurement. These included measurements from Shaft-tailed Whydah tail lengths, and Karoo Long-billed Lark *Certhilauda subcoronata* and Rattling Cisticola *Cisticola chiniana* mass, which may denote a more practical example of SSD (Table 2).

Comparison

A comparison between our measurements and those published in Hockey et al. (2005) and Rose et al. (2020) are presented in Table 3. It was only possible to compare 58 species in this way for Rose et al. (2020).

Complete measurement differences were noted for species such as the Amethyst Sunbird *Chalcomitra amethystina* ssp. *kirkii*, which was smaller than other published records. When looking at those records with significant difference ($p > 0.05$) and a difference in mean greater than 10% (only 25 of the 91 significantly different records), most appear to be smaller species e.g., waxbills and finches. Notable differences are evident in culmen measurements, with our averages being larger than those of Rose et al. (2020), possibly due to different methods of measuring culmen length. There are cases where measurements are nearly identical e.g., Willow Warbler wing, Green-winged Pytilia *Pytilia melba* head, and Southern Red Bishop *Euplectes orix* tarsus (Table 3).

Discussion

Our results identified an interesting variability between datasets collected by an individual over a long-term project, curation of reports for a reference guide (Hockey et al. 2005), and the summary of a centralized biometrics database (SAFRING, in Rose et al. 2020). As previously noted, avian biometrics are an important component when identifying and sexing birds, but their value relies on collection accuracy and methodology. When analysing large datasets, or curating measurements for reference guides, errors can alter resultant averages and lead to conflicting results in the field. The small sizes of passerine species may be easily impacted by this (Broughton et al. 2016), but also in researchers leaving a personal mark on their data when few individuals report on a single species. This would usually be corrected through additional user records but may not always be available for less studied regions, species, and subspecies. By using consistent methodology and detailed assessment of range and subspecies, our study also noted insights into the passerine species in Namibia.

Measurement differences

Biometrics may be subject to various influences, with location and subspecies being important factors (Bergmann 1847; Allen 1877). Due to the variable means of analyses and reporting, it was difficult to compare our results to those of Hockey et al. (2005) and Rose et al. (2020). The summary in Rose et al. (2020) did not investigate location and subspecies, but combined all species records into one sample, and while Hockey et al. (2005) did occasionally note the subspecies in the

species summaries, more detailed statistical values were not made available for comparison to our records. Due to these limitations, it was not suitable to test for overall significance between our records and those of the other reports (i.e., overall mass/wing variability between collection types) and individual records were investigated instead.

Sexes

Significant differences noted between the sexes can be a controversial statistic, especially when calculated using large, combined datasets (du Feu and du Feu 2014; Broughton et al. 2016). Many ringers may use known size differences between sexes to identify them, thus reinforcing the data that is being used (du Feu and du Feu 2014). Although our study used size occasionally, these sexes were validated using plumage colour, cloacal shape, width of the gap between the pelvic bones, and the existence and size of a brood patch. This may not be as accurate as genetic tests (Longmire et al. 1993), but may offer additional confidence in our findings. The significant differences between the sexes reported in Rose et al. (2020) (e.g., White-browed Robin-Chat *Cossypha heuglini*), could be attributed to ringers using size as a descriptor when reporting on sex and may present bias in many other species.

Culmen and head

For most species, the measurements of the culmen of our study appeared to be larger than in Hockey et al. (2005) and Rose et al. (2020). The method used for these records meant that measuring to the skull (to be precise: to the indentation on the front of the skull) was done, which may have been different to grouped measurements in Rose et al. (2020), as measurements to the feathering may be performed by some ringers. The article did not note which methodology was selected for, and as the SAFRING database has limitations when recording these details, it would unlikely identify this at the scale assessed. There are conventionally two different ways of measuring the culmen with different outcomes: to the feathering (resulting in a lower value) or to the skull (higher value) (Eck et al. 2011). Measuring to the feathering means to measure to the junction of the beak with the skull, while measuring to the skull is from the tip of the beak to the indentation at the rise of the skull between the eye sockets. The junction of the beak with the skull is

located at the onset of the feathering. Unfortunately, even these measurements are sometimes mixed. On further comparison to published reports it is evident that both methods are used, which may produce an error (Borras et al. 2000). Furthermore, subspecies may be misidentified by this alternation if culmen measurement is a primary factor to differentiate them.

Tarsus, tail, and wing measurements

Variability in other measurements may also be due to method preferences. When combining data from multiple ringers, a variety of changes can be made, or tools used. Tarsus may be measured from the intertarsal joint to a variable point, while the wing may be flattened against a stop rule or measured with a tape (Pascual and Senar 1996; de Beer et al. 2001). This variability in methodology is documented in ringers' guides, and unless documented in the data correctly, bulk analyses, as is the case in Rose et al. (2020), would not pick it up. We compared our methods of data collection with other experienced Namibian ringers (Boorman, unpubl. data) and could confirm (at least with this ringer) the accuracy of the results by applying our methods. A further difference between Hockey et al. (2005) is noted for the Spotted Flycatcher *Muscicapa striata*, which is likely due to Hockey et al. (2005) giving data for individual ssp. from Europe, while our report and Rose et al. (2020) give mixed ssp., as no one knows the exact distribution of ssp. in southern Africa. Tail measurements in very long-tailed species when in breeding season, e.g., Pin-tailed *Vidua macroura*, Shaft-tailed Whydah, and Long-tailed Paradise Whydah may lead to additional variability.

Mass

Generally, our birds were lighter than those in Hockey et al. (2005) and Rose et al. (2020). Similarly, lower mass values between Namibian and South African birds were observed in a comparison to South African White-throated Canaries (Ward et al. 2004), which may be explained by Bergmann's Rule (decrease in body mass with decreasing latitude). An important factor may be our sampling period (during the summer months), and the limited geographic range assessed. Additional differences may be due to the different precipitation levels and the subsequent vegetation cover and food availability, that reflect in the mass, and/or with the timing of the collection of data. This was especially evident during years of drought, which quite often resulted in birds that were noticeably thin and with the sharp edge of the sternum clearly palpable and visible.

Conclusion

In addition to contributing to the growing pool of avian measurements, our study offers some insight into the methods and usability of summarised avian biometrics. Regardless of attempts to standardise methodology, there are unfortunately always going to be different individual aspects applied to datasets, which will cause significant variability at all scales. Even within an individual ringer's subset, repeatability of most biometric measures are not 100 % accurate. Hockey et al. (2005) and Rose et al. (2020) did important work to summarize biometric data of southern African birds, offering some insight into the possible size ranges on a broad pool of information. However, in comparing them to this study it shows how variable the databases for these kinds of measurements are for African bird species, with gaps being identified for many groups. In using larger sample sizes from variable datasets, statistical significance is improved, but practical comparisons are complicated and create additional overlap when differentiating sexes and subspecies. There is still a great need for improving and standardising the measurement methodology through ringing schemes and the accurate detailed curation of centralised ringing data.

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Table 1. Sample sizes of biometric parameters recorded between 2002 and 2022 in Namibia. Records were grouped by family and are restricted to the initial (first) record of adults, i.e., recaptures were excluded.

| Family | Sub-/species Count | Record Count | Wing | Tail | Tarsus | Culmen | Head | Mass |
|--|--------------------|--------------|--------------|--------------|-------------|-------------|-------------|--------------|
| Acrocephalidae (Reed Warblers and Allies) | 5 | 343 | 342 | 319 | 243 | 249 | 246 | 340 |
| Alaudidae (Larks) | 10 | 1045 | 1018 | 995 | 569 | 572 | 577 | 1003 |
| Cisticolidae (Cisticolas and Allies) | 15 | 449 | 438 | 421 | 386 | 390 | 393 | 434 |
| Dicruridae (Drongos) | 1 | 50 | 50 | 49 | 45 | 46 | 46 | 50 |
| Emberizidae (Buntings) | 4 | 1057 | 934 | 807 | 372 | 380 | 382 | 1013 |
| Estriidae (Waxbills, Munias and Allies) | 13 | 2311 | 1919 | 1549 | 406 | 433 | 437 | 2254 |
| Fringillidae (Finches, Euphonias) | 6 | 1182 | 1091 | 1020 | 430 | 436 | 448 | 1125 |
| Hirundinidae (Swallows, Martins) | 4 | 80 | 77 | 62 | 29 | 37 | 36 | 77 |
| Laniidae (Shrikes) | 4 | 235 | 236 | 225 | 212 | 217 | 221 | 228 |
| Leiothrichidae (Laughingthrushes and Allies) | 8 | 62 | 62 | 59 | 59 | 60 | 60 | 58 |
| Macrosphenidae (Crombecs, African Warblers) | 2 | 41 | 41 | 38 | 34 | 34 | 35 | 41 |
| Malaconotidae (Bushshrikes) | 8 | 160 | 159 | 151 | 154 | 158 | 158 | 155 |
| Monarchidae (Monarchs) | 1 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| Motacillidae (Wagtails, Pipits) | 6 | 117 | 117 | 109 | 78 | 77 | 79 | 115 |
| Muscicapidae (Chats, Old World Flycatchers) | 17 | 1196 | 1192 | 1135 | 1115 | 1115 | 1119 | 1167 |
| Nectariniidae (Sunbirds) | 7 | 468 | 462 | 460 | 388 | 404 | 406 | 461 |
| Oriolidae (Figbirds, Orioles, Turnagra) | 1 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Paridae (Tits, Chickadees) | 3 | 33 | 33 | 32 | 30 | 30 | 31 | 33 |
| Passeridae (Old World Sparrows, Snowfinches) | 4 | 2628 | 2136 | 1814 | 427 | 474 | 499 | 2483 |
| Phylloscopidae (Leat Warblers and Allies) | 1 | 31 | 31 | 30 | 27 | 28 | 29 | 31 |
| Platysteiridae (Wattle-eyes, Batises) | 2 | 59 | 59 | 57 | 59 | 59 | 59 | 59 |
| Ploceidae (Weavers, Widowbirds) | 16 | 3009 | 2750 | 2265 | 803 | 825 | 833 | 2585 |
| Pycnonotidae (Bulbuls) | 3 | 670 | 644 | 593 | 225 | 226 | 230 | 642 |
| Remizidae (Penduline Tits) | 1 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| Sturnidae (Starlings, Rhabdomis) | 6 | 421 | 419 | 408 | 384 | 385 | 387 | 416 |
| Sylviidae (Sylvid Babblers) | 3 | 179 | 178 | 174 | 155 | 160 | 161 | 178 |
| Turdidae (Thrushes) | 1 | 26 | 26 | 24 | 20 | 20 | 20 | 26 |
| Vangidae (Vangas and Allies) | 1 | 10 | 10 | 9 | 10 | 10 | 10 | 10 |
| Viduidae (Indigobirds, Whydahs) | 4 | 355 | 325 | 314 | 200 | 200 | 205 | 343 |
| Zosteropidae (White-eyes) | 2 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| Grand Total | 159 | 16262 | 14793 | 13163 | 6904 | 7069 | 7151 | 15371 |



Table 2. Biometrics of passerine species ringed in Namibia between 2002 and 2022. Average measurements are grouped by sex (female, male, unknown), species and subspecies where possible. SD: Standard Deviation, n: total number of ringing records per species, Range: minimum to maximum measurement. Biometrics include: culmen (mm), head (mm), mass (g), tail (mm), tarsus (mm), and wing chord (mm). Only initial ring records are included. Those biometrics marked in bold had significant differences ($p < 0.05$) between female and male measurements.

| Family | Species | Subspecies | Measurement | Female | | | Male | | | Unknown | | | Total | | | | | | | | | | | | | | | |
|---|---------|------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------|-------------|-------------------|-------------|---------------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | | | | | | | | | | | | | | | |
| Acrocephalidae (Reed Warblers and Allies) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Acrocephalus arundinaceus</i> (Great Reed Warbler – 603) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| mixed ssp | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Culmen | 19.3 ± 0 (1) | 14.4 – 19.3 | 25.5 ± 0 (1) | 15.2 – 20.8 | 24.1 ± 0 (1) | 14.6 – 20.0 | 23.0 ± 3.25 (3) | 19.3 – 25.5 | | | | | | | | | | | | | | | | | |
| | | | Head | 42.3 ± 0 (1) | 30.4 – 46.8 | 46.8 ± 0 (1) | 30.8 – 33.8 | 42.9 ± 0 (1) | 30.6 – 41.4 | 44.0 ± 2.44 (3) | 42.3 – 46.8 | | | | | | | | | | | | | | | | | |
| | | | Mass | 26.4 ± 0 (1) | 9.0 – 12.8 | 30.0 ± 0 (1) | 9.5 – 11.2 | 30.5 ± 0 (1) | 7.0 – 12.0 | 29.0 ± 2.24 (3) | 26.4 – 30.5 | | | | | | | | | | | | | | | | | |
| | | | Tail | 83.0 ± 0 (1) | 41.0 – 56.0 | 84.0 ± 0 (1) | 47.0 – 64.0 | 77.0 ± 0 (1) | 46.0 – 58.0 | 81.3 ± 3.79 (3) | 77.0 – 84.0 | | | | | | | | | | | | | | | | | |
| | | | Tarsus | 28.2 ± 0 (1) | 20.4 – 23.4 | 30.0 ± 0 (1) | 19.2 – 25.2 | 28.4 ± 0 (1) | 18.2 – 23.9 | 28.9 ± 0.99 (3) | 28.2 – 30.0 | | | | | | | | | | | | | | | | | |
| | | | Wing | 83.0 ± 0 (1) | 53.0 – 61.0 | 98.0 ± 0 (1) | 56.0 – 63.0 | 94.0 ± 0 (1) | 52.0 – 68.0 | 91.7 ± 7.77 (3) | 83.0 – 98.0 | | | | | | | | | | | | | | | | | |
| <i>Acrocephalus scirpaceus</i> (Common Reed Warbler – 606, 911) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>A. s. baeticatus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Culmen | 17.3 ± 0.85 (55) | 14.4 – 19.3 | 17.7 ± 0.92 (34) | 15.2 – 20.8 | 17.3 ± 1.12 (100) | 14.6 – 20.0 | 17.4 ± 1.02 (189) | 14.4 – 20.8 | | | | | | | | | | | | | | | | | |
| | | | Head | 32.1 ± 0.70 (54) | 30.4 – 34.0 | 32.4 ± 0.69 (33) | 30.8 – 33.8 | 32.5 ± 1.22 (99) | 30.6 – 41.4 | 32.4 ± 1.03 (186) | 30.4 – 41.4 | | | | | | | | | | | | | | | | | |
| | | | Mass | 10.5 ± 0.82 (83) | 9.0 – 12.8 | 10.3 ± 0.47 (53) | 9.5 – 11.2 | 10.2 ± 0.73 (144) | 7.0 – 12.0 | 10.3 ± 0.72 (280) | 7.0 – 12.8 | | | | | | | | | | | | | | | | | |
| | | | Tail | 50.9 ± 2.56 (81) | 41.0 – 56.0 | 53.4 ± 2.54 (50) | 47.0 – 64.0 | 52.4 ± 2.24 (138) | 46.0 – 58.0 | 52.2 ± 2.55 (269) | 41.0 – 64.0 | | | | | | | | | | | | | | | | | |
| | | | Tarsus | 22.1 ± 0.71 (54) | 20.4 – 23.4 | 22.6 ± 1.04 (34) | 19.2 – 25.2 | 22.4 ± 0.87 (100) | 18.2 – 23.9 | 22.3 ± 0.87 (188) | 18.2 – 25.2 | | | | | | | | | | | | | | | | | |
| | | | Wing | 57.2 ± 1.65 (84) | 53.0 – 61.0 | 58.9 ± 1.78 (52) | 56.0 – 63.0 | 58.1 ± 2.03 (146) | 52.0 – 68.0 | 58.0 ± 1.96 (282) | 52.0 – 68.0 | | | | | | | | | | | | | | | | | |
| <i>A. s. scirpaceus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Culmen | | | 20.4 ± 0 (1) | | 18.9 ± 1.42 (8) | 17.0 – 21.0 | 19.1 ± 1.42 (9) | 17.0 – 21.0 | | | | | | | | | | | | | | | | | |
| | | | Head | | | 35.3 ± 0 (1) | | 34.1 ± 1.06 (8) | 32.4 – 35.6 | 34.2 ± 1.07 (9) | 32.4 – 35.6 | | | | | | | | | | | | | | | | | |
| | | | Mass | | | 10.3 ± 0 (1) | | 10.6 ± 1.22 (8) | 9.0 – 12.2 | 10.6 ± 1.15 (9) | 9.0 – 12.2 | | | | | | | | | | | | | | | | | |
| | | | Tail | | | 55.0 ± 0 (1) | | 53.6 ± 2.30 (7) | 50.0 – 56.0 | 53.8 ± 2.19 (8) | 50.0 – 56.0 | | | | | | | | | | | | | | | | | |
| | | | Tarsus | | | 23.1 ± 0 (1) | | 23.0 ± 0.67 (6) | 22.0 – 23.8 | 23.0 ± 0.61 (7) | 22.0 – 23.8 | | | | | | | | | | | | | | | | | |
| | | | Wing | | | 65.0 ± 0 (1) | | 65.0 ± 2.62 (8) | 59.0 – 67.0 | 65.0 ± 2.45 (9) | 59.0 – 67.0 | | | | | | | | | | | | | | | | | |
| <i>Acrocephalus palustris</i> (Marsh Warbler – 607) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| monotypic | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Culmen | 17.9 ± 0 (1) | | 17.6 ± 0 (1) | | 16.9 ± 1.77 (2) | 15.6 – 18.1 | 17.3 ± 1.15 (4) | 15.6 – 18.1 | | | | | | | | | | | | | | | | | |
| | | | Head | 33.2 ± 0 (1) | | 33.1 ± 0 (1) | | 32.9 ± 0.21 (2) | 32.7 – 33.0 | 33.0 ± 0.22 (4) | 32.7 – 33.2 | | | | | | | | | | | | | | | | | |
| | | | Mass | 14.0 ± 0 (1) | | 11.5 ± 0 (1) | | 12.4 ± 1.56 (2) | 11.3 – 13.5 | 12.6 ± 1.37 (4) | 11.3 – 14.0 | | | | | | | | | | | | | | | | | |
| | | | Tail | 53.0 ± 0 (1) | | 51.0 ± 0 (1) | | 57.0 ± 0 (1) | | 53.7 ± 3.06 (3) | 51.0 – 57.0 | | | | | | | | | | | | | | | | | |
| | | | Tarsus | 23.5 ± 0 (1) | | 22.4 ± 0 (1) | | 21.7 ± 0 (1) | | 22.5 ± 0.91 (3) | 21.7 – 23.5 | | | | | | | | | | | | | | | | | |
| | | | Wing | 66.0 ± 0 (1) | | 66.0 ± 0 (1) | | 66.5 ± 0.71 (2) | 66.0 – 67.0 | 66.3 ± 0.5 (4) | 66.0 – 67.0 | | | | | | | | | | | | | | | | | |



| Family | Species | Subspecies | Measurement | Female | | | Male | | | Unknown | | | Total | | |
|--|------------------|-------------|------------------|---------------|------------------|---------------|------------------|---------------|------------------|---------------|------------------|---------------|-------|--|--|
| | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | | |
| Acrocephalus schoenobaenus (Sedge Warbler – 608) | monotypic | Culmen | 15.1 ± 2.66 (3) | 12.6 – 17.9 | 15.1 ± 2.66 (3) | 12.6 – 17.9 | 15.1 ± 2.66 (3) | 12.6 – 17.9 | 15.1 ± 2.66 (3) | 12.6 – 17.9 | 15.1 ± 2.66 (3) | 12.6 – 17.9 | | | |
| | | Head | 31.8 ± 0.95 (3) | 30.8 – 32.7 | 31.8 ± 0.95 (3) | 30.8 – 32.7 | 31.8 ± 0.95 (3) | 30.8 – 32.7 | 31.8 ± 0.95 (3) | 30.8 – 32.7 | 31.8 ± 0.95 (3) | 30.8 – 32.7 | | | |
| | | Mass | 11.2 ± 1.15 (3) | 10.0 – 12.3 | 11.2 ± 1.15 (3) | 10.0 – 12.3 | 11.2 ± 1.15 (3) | 10.0 – 12.3 | 11.2 ± 1.15 (3) | 10.0 – 12.3 | 11.2 ± 1.15 (3) | 10.0 – 12.3 | | | |
| | | Tail | 48.0 ± 3.61 (3) | 45.0 – 52.0 | 48.0 ± 3.61 (3) | 45.0 – 52.0 | 48.0 ± 3.61 (3) | 45.0 – 52.0 | 48.0 ± 3.61 (3) | 45.0 – 52.0 | 48.0 ± 3.61 (3) | 45.0 – 52.0 | | | |
| | | Tarsus | 22.2 ± 0.29 (3) | 22.0 – 22.5 | 22.2 ± 0.29 (3) | 22.0 – 22.5 | 22.2 ± 0.29 (3) | 22.0 – 22.5 | 22.2 ± 0.29 (3) | 22.0 – 22.5 | 22.2 ± 0.29 (3) | 22.0 – 22.5 | | | |
| | | Wing | 65.7 ± 0.58 (3) | 65.0 – 66.0 | 65.7 ± 0.58 (3) | 65.0 – 66.0 | 65.7 ± 0.58 (3) | 65.0 – 66.0 | 65.7 ± 0.58 (3) | 65.0 – 66.0 | 65.7 ± 0.58 (3) | 65.0 – 66.0 | | | |
| | | Culmen | 18.5 ± 1.17 (34) | 15.2 – 21.1 | 18.5 ± 1.17 (34) | 15.2 – 21.1 | 18.5 ± 1.17 (34) | 15.2 – 21.1 | 18.5 ± 1.17 (34) | 15.2 – 21.1 | 18.5 ± 1.17 (34) | 15.2 – 21.1 | | | |
| | | Head | 33.6 ± 0.98 (34) | 32.1 – 35.8 | 33.6 ± 0.98 (34) | 32.1 – 35.8 | 33.6 ± 0.98 (34) | 32.1 – 35.8 | 33.6 ± 0.98 (34) | 32.1 – 35.8 | 33.6 ± 0.98 (34) | 32.1 – 35.8 | | | |
| | | Mass | 13.2 ± 1.03 (34) | 11.2 – 16.6 | 13.2 ± 1.03 (34) | 11.2 – 16.6 | 13.2 ± 1.03 (34) | 11.2 – 16.6 | 13.2 ± 1.03 (34) | 11.2 – 16.6 | 13.2 ± 1.03 (34) | 11.2 – 16.6 | | | |
| | | Tail | 54.6 ± 1.89 (27) | 51.0 – 59.0 | 54.6 ± 1.89 (27) | 51.0 – 59.0 | 54.6 ± 1.89 (27) | 51.0 – 59.0 | 54.6 ± 1.89 (27) | 51.0 – 59.0 | 54.6 ± 1.89 (27) | 51.0 – 59.0 | | | |
| Tarsus | 20.5 ± 0.78 (32) | 18.8 – 21.8 | 20.5 ± 0.78 (32) | 18.8 – 21.8 | 20.5 ± 0.78 (32) | 18.8 – 21.8 | 20.5 ± 0.78 (32) | 18.8 – 21.8 | 20.5 ± 0.78 (32) | 18.8 – 21.8 | | | | | |
| Wing | 78.3 ± 2.71 (34) | 70.0 – 84.0 | 78.3 ± 2.71 (34) | 70.0 – 84.0 | 78.3 ± 2.71 (34) | 70.0 – 84.0 | 78.3 ± 2.71 (34) | 70.0 – 84.0 | 78.3 ± 2.71 (34) | 70.0 – 84.0 | | | | | |
| Alaudidae (Larks) | monotypic | Culmen | 16.4 ± 0.78 (2) | 15.8 – 16.9 | 16.4 ± 0.78 (2) | 15.8 – 16.9 | 16.4 ± 0.78 (2) | 15.8 – 16.9 | 16.4 ± 0.78 (2) | 15.8 – 16.9 | 16.4 ± 0.78 (2) | 15.8 – 16.9 | | | |
| | | Head | 34.0 ± 0.85 (2) | 33.4 – 34.6 | 34.0 ± 0.85 (2) | 33.4 – 34.6 | 34.0 ± 0.85 (2) | 33.4 – 34.6 | 34.0 ± 0.85 (2) | 33.4 – 34.6 | 34.0 ± 0.85 (2) | 33.4 – 34.6 | | | |
| | | Mass | 19.9 ± 0.99 (2) | 19.2 – 20.6 | 19.9 ± 0.99 (2) | 19.2 – 20.6 | 19.9 ± 0.99 (2) | 19.2 – 20.6 | 19.9 ± 0.99 (2) | 19.2 – 20.6 | 19.9 ± 0.99 (2) | 19.2 – 20.6 | | | |
| | | Tail | 48.0 ± 0 (2) | 48.0 – 48.0 | 48.0 ± 0 (2) | 48.0 – 48.0 | 48.0 ± 0 (2) | 48.0 – 48.0 | 48.0 ± 0 (2) | 48.0 – 48.0 | 48.0 ± 0 (2) | 48.0 – 48.0 | | | |
| | | Tarsus | 21.0 ± 0.99 (2) | 20.3 – 21.7 | 21.0 ± 0.99 (2) | 20.3 – 21.7 | 21.0 ± 0.99 (2) | 20.3 – 21.7 | 21.0 ± 0.99 (2) | 20.3 – 21.7 | 21.0 ± 0.99 (2) | 20.3 – 21.7 | | | |
| | | Wing | 79.5 ± 0.71 (2) | 79.0 – 80.0 | 79.5 ± 0.71 (2) | 79.0 – 80.0 | 79.5 ± 0.71 (2) | 79.0 – 80.0 | 79.5 ± 0.71 (2) | 79.0 – 80.0 | 79.5 ± 0.71 (2) | 79.0 – 80.0 | | | |
| | | Culmen | 16.5 ± 0.54 (4) | 16.0 – 17.2 | 16.5 ± 0.54 (4) | 16.0 – 17.2 | 16.5 ± 0.54 (4) | 16.0 – 17.2 | 16.5 ± 0.54 (4) | 16.0 – 17.2 | 16.5 ± 0.54 (4) | 16.0 – 17.2 | | | |
| | | Head | 33.4 ± 0.36 (4) | 32.9 – 33.7 | 33.4 ± 0.36 (4) | 32.9 – 33.7 | 33.4 ± 0.36 (4) | 32.9 – 33.7 | 33.4 ± 0.36 (4) | 32.9 – 33.7 | 33.4 ± 0.36 (4) | 32.9 – 33.7 | | | |
| | | Mass | 23.4 ± 1.94 (4) | 21.2 – 25.7 | 23.4 ± 1.94 (4) | 21.2 – 25.7 | 23.4 ± 1.94 (4) | 21.2 – 25.7 | 23.4 ± 1.94 (4) | 21.2 – 25.7 | 23.4 ± 1.94 (4) | 21.2 – 25.7 | | | |
| | | Tail | 57.5 ± 2.89 (4) | 54.0 – 61.0 | 57.5 ± 2.89 (4) | 54.0 – 61.0 | 57.5 ± 2.89 (4) | 54.0 – 61.0 | 57.5 ± 2.89 (4) | 54.0 – 61.0 | 57.5 ± 2.89 (4) | 54.0 – 61.0 | | | |
| Tarsus | 24.1 ± 0.98 (4) | 22.8 – 25.0 | 24.1 ± 0.98 (4) | 22.8 – 25.0 | 24.1 ± 0.98 (4) | 22.8 – 25.0 | 24.1 ± 0.98 (4) | 22.8 – 25.0 | 24.1 ± 0.98 (4) | 22.8 – 25.0 | | | | | |
| Wing | 85.0 ± 4.16 (4) | 80.0 – 90.0 | 85.0 ± 4.16 (4) | 80.0 – 90.0 | 85.0 ± 4.16 (4) | 80.0 – 90.0 | 85.0 ± 4.16 (4) | 80.0 – 90.0 | 85.0 ± 4.16 (4) | 80.0 – 90.0 | | | | | |
| Calendulauda africanoides (Fawn-coloured Lark – 459) | C. a. harei | Culmen | 16.5 ± 0.54 (4) | 16.0 – 17.2 | 16.5 ± 0.54 (4) | 16.0 – 17.2 | 16.5 ± 0.54 (4) | 16.0 – 17.2 | 16.5 ± 0.54 (4) | 16.0 – 17.2 | 16.5 ± 0.54 (4) | 16.0 – 17.2 | | | |
| | | Head | 33.4 ± 0.36 (4) | 32.9 – 33.7 | 33.4 ± 0.36 (4) | 32.9 – 33.7 | 33.4 ± 0.36 (4) | 32.9 – 33.7 | 33.4 ± 0.36 (4) | 32.9 – 33.7 | 33.4 ± 0.36 (4) | 32.9 – 33.7 | | | |
| | | Mass | 23.4 ± 1.94 (4) | 21.2 – 25.7 | 23.4 ± 1.94 (4) | 21.2 – 25.7 | 23.4 ± 1.94 (4) | 21.2 – 25.7 | 23.4 ± 1.94 (4) | 21.2 – 25.7 | 23.4 ± 1.94 (4) | 21.2 – 25.7 | | | |
| | | Tail | 57.5 ± 2.89 (4) | 54.0 – 61.0 | 57.5 ± 2.89 (4) | 54.0 – 61.0 | 57.5 ± 2.89 (4) | 54.0 – 61.0 | 57.5 ± 2.89 (4) | 54.0 – 61.0 | 57.5 ± 2.89 (4) | 54.0 – 61.0 | | | |
| | | Tarsus | 24.1 ± 0.98 (4) | 22.8 – 25.0 | 24.1 ± 0.98 (4) | 22.8 – 25.0 | 24.1 ± 0.98 (4) | 22.8 – 25.0 | 24.1 ± 0.98 (4) | 22.8 – 25.0 | 24.1 ± 0.98 (4) | 22.8 – 25.0 | | | |
| | | Wing | 85.0 ± 4.16 (4) | 80.0 – 90.0 | 85.0 ± 4.16 (4) | 80.0 – 90.0 | 85.0 ± 4.16 (4) | 80.0 – 90.0 | 85.0 ± 4.16 (4) | 80.0 – 90.0 | 85.0 ± 4.16 (4) | 80.0 – 90.0 | | | |
| | | Culmen | 16.7 ± 0 (1) | 14.1 – 18.4 | 16.7 ± 0 (1) | 14.1 – 18.4 | 16.7 ± 0 (1) | 14.1 – 18.4 | 16.7 ± 0 (1) | 14.1 – 18.4 | 16.7 ± 0 (1) | 14.1 – 18.4 | | | |
| | | Head | 34.5 ± 0 (1) | 34.4 – 36.2 | 34.5 ± 0 (1) | 34.4 – 36.2 | 34.5 ± 0 (1) | 34.4 – 36.2 | 34.5 ± 0 (1) | 34.4 – 36.2 | 34.5 ± 0 (1) | 34.4 – 36.2 | | | |
| | | Mass | 25.8 ± 0 (1) | 21.7 – 27.1 | 25.8 ± 0 (1) | 21.7 – 27.1 | 25.8 ± 0 (1) | 21.7 – 27.1 | 25.8 ± 0 (1) | 21.7 – 27.1 | 25.8 ± 0 (1) | 21.7 – 27.1 | | | |
| | | Tail | 62.0 ± 0 (1) | 55.0 – 64.0 | 62.0 ± 0 (1) | 55.0 – 64.0 | 62.0 ± 0 (1) | 55.0 – 64.0 | 62.0 ± 0 (1) | 55.0 – 64.0 | 62.0 ± 0 (1) | 55.0 – 64.0 | | | |
| Tarsus | 24.3 ± 0 (1) | 22.8 – 25.5 | 24.3 ± 0 (1) | 22.8 – 25.5 | 24.3 ± 0 (1) | 22.8 – 25.5 | 24.3 ± 0 (1) | 22.8 – 25.5 | 24.3 ± 0 (1) | 22.8 – 25.5 | | | | | |
| Wing | 95.0 ± 0 (1) | 86.0 – 96.0 | 95.0 ± 0 (1) | 86.0 – 96.0 | 95.0 ± 0 (1) | 86.0 – 96.0 | 95.0 ± 0 (1) | 86.0 – 96.0 | 95.0 ± 0 (1) | 86.0 – 96.0 | | | | | |
| Calendulauda sabota (Sabota Lark – 460) | mixed ssp | Culmen | 19.4 ± 1.58 (73) | 17.4 – 29.8 | 19.4 ± 1.58 (73) | 17.4 – 29.8 | 19.4 ± 1.58 (73) | 17.4 – 29.8 | 19.4 ± 1.58 (73) | 17.4 – 29.8 | 19.4 ± 1.58 (73) | 17.4 – 29.8 | | | |
| | | Head | 38.1 ± 1.32 (73) | 33.7 – 41.3 | 38.1 ± 1.32 (73) | 33.7 – 41.3 | 38.1 ± 1.32 (73) | 33.7 – 41.3 | 38.1 ± 1.32 (73) | 33.7 – 41.3 | 38.1 ± 1.32 (73) | 33.7 – 41.3 | | | |
| | | Mass | 19.0 ± 1.22 (53) | 16.0 – 29.6 | 19.0 ± 1.22 (53) | 16.0 – 29.6 | 19.0 ± 1.22 (53) | 16.0 – 29.6 | 19.0 ± 1.22 (53) | 16.0 – 29.6 | 19.0 ± 1.22 (53) | 16.0 – 29.6 | | | |
| | | Tail | 38.3 ± 1.28 (55) | 34.0 – 40.5 | 38.3 ± 1.28 (55) | 34.0 – 40.5 | 38.3 ± 1.28 (55) | 34.0 – 40.5 | 38.3 ± 1.28 (55) | 34.0 – 40.5 | 38.3 ± 1.28 (55) | 34.0 – 40.5 | | | |
| | | Tarsus | 19.8 ± 1.54 (55) | 17.3 – 29.3 | 19.8 ± 1.54 (55) | 17.3 – 29.3 | 19.8 ± 1.54 (55) | 17.3 – 29.3 | 19.8 ± 1.54 (55) | 17.3 – 29.3 | 19.8 ± 1.54 (55) | 17.3 – 29.3 | | | |
| | | Wing | 38.4 ± 1.70 (55) | 30.6 – 40.1 | 38.4 ± 1.70 (55) | 30.6 – 40.1 | 38.4 ± 1.70 (55) | 30.6 – 40.1 | 38.4 ± 1.70 (55) | 30.6 – 40.1 | 38.4 ± 1.70 (55) | 30.6 – 40.1 | | | |
| | | Culmen | 19.4 ± 1.58 (73) | 17.4 – 29.8 | 19.4 ± 1.58 (73) | 17.4 – 29.8 | 19.4 ± 1.58 (73) | 17.4 – 29.8 | 19.4 ± 1.58 (73) | 17.4 – 29.8 | 19.4 ± 1.58 (73) | 17.4 – 29.8 | | | |
| | | Head | 38.1 ± 1.32 (73) | 33.7 – 41.3 | 38.1 ± 1.32 (73) | 33.7 – 41.3 | 38.1 ± 1.32 (73) | 33.7 – 41.3 | 38.1 ± 1.32 (73) | 33.7 – 41.3 | 38.1 ± 1.32 (73) | 33.7 – 41.3 | | | |
| | | Mass | 19.0 ± 1.22 (53) | 16.0 – 29.6 | 19.0 ± 1.22 (53) | 16.0 – 29.6 | 19.0 ± 1.22 (53) | 16.0 – 29.6 | 19.0 ± 1.22 (53) | 16.0 – 29.6 | 19.0 ± 1.22 (53) | 16.0 – 29.6 | | | |
| | | Tail | 38.3 ± 1.28 (55) | 34.0 – 40.5 | 38.3 ± 1.28 (55) | 34.0 – 40.5 | 38.3 ± 1.28 (55) | 34.0 – 40.5 | 38.3 ± 1.28 (55) | 34.0 – 40.5 | 38.3 ± 1.28 (55) | 34.0 – 40.5 | | | |



| Family | Species | Subspecies | Measurement | Female | | | Male | | | Unknown | | | Total | | |
|--|---------|------------|-------------|------------------|--------------|-------------------|---------------|------------------|--------------|-------------------|--------------|---------------|-------|--|--|
| | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | | |
| <i>Certhilauda subcoronata</i> (Karoo Long-billed Lark – 4127) | | | Mass | 25.7 ± 1.93 (74) | 16.8 – 30.4 | 25.7 ± 1.48 (56) | 21.2 – 29.7 | 25.9 ± 1.69 (68) | 22.0 – 30.0 | 25.8 ± 1.72 (190) | 16.8 – 30.4 | | | | |
| | | | Tail | 52.9 ± 2.80 (76) | 45.0 – 58.0 | 54.4 ± 2.50 (56) | 50.0 – 60.0 | 53.8 ± 2.78 (68) | 42.0 – 60.0 | 53.6 ± 2.76 (192) | 42.0 – 60.0 | | | | |
| | | | Tarsus | 23.9 ± 0.94 (73) | 20.6 – 25.8 | 24.2 ± 0.64 (55) | 22.3 – 25.7 | 23.8 ± 0.9 (54) | 22.1 – 26.6 | 24.0 ± 0.87 (182) | 20.6 – 26.6 | | | | |
| | | | Wing | 86.9 ± 3.49 (76) | 78.0 – 93.0 | 88.6 ± 2.31 (56) | 84.0 – 95.0 | 87.8 ± 3.52 (60) | 77.0 – 98.0 | 87.7 ± 3.26 (194) | 77.0 – 98.0 | | | | |
| <i>C. s. damarensis</i> | | | Culmen | 24.3 ± 2.13 (25) | 19.6 – 27.2 | 27.8 ± 1.63 (59) | 22.5 – 30.7 | 25.0 ± 2.12 (3) | 22.6 – 26.6 | 26.7 ± 2.43 (87) | 19.6 – 30.7 | | | | |
| | | | Head | 45.5 ± 2.62 (25) | 42.3 – 49.9 | 49.7 ± 3.00 (59) | 29.2 – 55.1 | 46.4 ± 3.44 (3) | 42.4 – 48.5 | 48.4 ± 3.47 (87) | 29.2 – 55.1 | | | | |
| | | | Mass | 34.1 ± 6.38 (24) | 26.8 – 57.1 | 41.4 ± 3.49 (57) | 26.5 – 53.2 | 37.1 ± 6.12 (3) | 30.0 – 40.7 | 39.1 ± 5.59 (84) | 26.5 – 57.1 | | | | |
| | | | Tail | 73.4 ± 4.95 (24) | 66.0 – 82.0 | 80.1 ± 2.65 (55) | 74.0 – 88.0 | 78.0 ± 7.55 (3) | 70.0 – 85.0 | 78.1 ± 4.74 (82) | 66.0 – 88.0 | | | | |
| <i>Chersomanes albofasciata</i> (Spike-heeled Lark – 474) | | | Tarsus | 27.7 ± 1.28 (25) | 26.1 – 30.8 | 29.8 ± 2.96 (59) | 24.0 – 49.8 | 28.6 ± 1.25 (3) | 27.2 – 29.6 | 29.1 ± 2.69 (87) | 24.0 – 49.8 | | | | |
| | | | Wing | 99.5 ± 4.75 (25) | 92.0 – 107.0 | 109.0 ± 3.01 (59) | 100.0 – 116.0 | 103.3 ± 5.51 (3) | 97.0 – 107.0 | 106.1 ± 5.65 (87) | 92.0 – 116.0 | | | | |
| | | | Culmen | 19.1 ± 0.74 (3) | 18.5 – 19.9 | 23.1 ± 0.55 (5) | 22.5 – 24.0 | | | 21.6 ± 2.18 (8) | 18.5 – 24.0 | | | | |
| | | | Head | 36.9 ± 0.64 (3) | 36.2 – 37.4 | 42.2 ± 0.76 (5) | 41.0 – 43.0 | | | 40.2 ± 2.79 (8) | 36.2 – 43.0 | | | | |
| <i>C. a. arenaria</i> | | | Mass | 20.3 ± 2.10 (3) | 18.3 – 22.5 | 25.5 ± 2.09 (5) | 22.7 – 27.7 | | | 23.6 ± 3.31 (8) | 18.3 – 27.7 | | | | |
| | | | Tail | 41.3 ± 4.16 (3) | 38.0 – 46.0 | 46.8 ± 1.48 (5) | 45.0 – 49.0 | | | 44.8 ± 3.77 (8) | 38.0 – 49.0 | | | | |
| | | | Tarsus | 25.0 ± 0.56 (3) | 24.4 – 25.5 | 26.8 ± 1.52 (5) | 24.3 – 28.1 | | | 26.1 ± 1.52 (8) | 24.3 – 28.1 | | | | |
| | | | Wing | 75.3 ± 3.21 (3) | 73.0 – 79.0 | 84.4 ± 2.7 (5) | 81.0 – 88.0 | | | 81.0 ± 5.40 (8) | 73.0 – 88.0 | | | | |
| <i>Eremopterix verticalis</i> (Grey-backed Sparrow-Lark – 485) | | | Culmen | 13.7 ± 1.29 (33) | 11.0 – 15.4 | 14.4 ± 1.19 (35) | 11.6 – 16.6 | | | 14.0 ± 1.28 (68) | 11.0 – 16.6 | | | | |
| | | | Head | 27.9 ± 0.62 (34) | 26.6 – 28.8 | 28.4 ± 0.94 (35) | 26.6 – 30.3 | | | 28.1 ± 0.83 (69) | 26.6 – 30.3 | | | | |
| | | | Mass | 16.1 ± 1.40 (84) | 12.7 – 21.2 | 16.6 ± 1.28 (69) | 13.5 – 20.7 | | | 16.3 ± 1.37 (153) | 12.7 – 21.2 | | | | |
| | | | Tail | 45.6 ± 2.04 (80) | 40.0 – 49.0 | 47.6 ± 2.13 (65) | 42.0 – 52.0 | | | 46.5 ± 2.32 (145) | 40.0 – 52.0 | | | | |
| <i>Mirafra africana</i> (Rufous-naped Lark – 458) | | | Tarsus | 17.6 ± 0.62 (34) | 16.2 – 18.8 | 18.0 ± 0.81 (35) | 16.1 – 19.3 | | | 17.8 ± 0.74 (69) | 16.1 – 19.3 | | | | |
| | | | Wing | 80.1 ± 2.33 (81) | 75.0 – 86.0 | 82.9 ± 2.03 (65) | 78.0 – 88.0 | | | 81.4 ± 2.59 (146) | 75.0 – 88.0 | | | | |
| | | | Culmen | 22.2 ± 0.55 (3) | 21.6 – 22.7 | 24.3 ± 0.28 (2) | 24.1 – 24.5 | | | 23.0 ± 1.24 (5) | 21.6 – 24.5 | | | | |
| | | | Head | 41.7 ± 1.01 (3) | 40.5 – 42.3 | 44.8 ± 0.35 (2) | 44.5 – 45.0 | | | 42.9 ± 1.84 (5) | 40.5 – 45.0 | | | | |
| <i>M. a. ghansensis</i> | | | Mass | 42.9 ± 0.75 (3) | 42.0 – 43.3 | 46.0 ± 0 (2) | 46.0 – 46.0 | | | 44.1 ± 1.80 (5) | 42.0 – 46.0 | | | | |
| | | | Tail | 63.5 ± 0.71 (2) | 63.0 – 64.0 | 68.5 ± 0.71 (2) | 68.0 – 69.0 | | | 66.0 ± 2.94 (4) | 63.0 – 69.0 | | | | |
| | | | Tarsus | 30.2 ± 0.42 (3) | 29.7 – 30.5 | 32.3 ± 0.28 (2) | 32.1 – 32.5 | | | 31.0 ± 1.21 (5) | 29.7 – 32.5 | | | | |
| | | | Wing | 92.7 ± 2.08 (3) | 91.0 – 95.0 | 100.5 ± 2.12 (2) | 99.0 – 102.0 | | | 95.8 ± 4.66 (5) | 91.0 – 102.0 | | | | |

| Family | Species | Subspecies | Measurement | Female | | | Male | | | Unknown | | | Total | | |
|---|---------|--------------------------|-------------|-------------------|-------------|------------------|-------------|-------------------|-------------|-------------------|-------------|---------------|-------|--|--|
| | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | | |
| <i>Mirafra passerina</i> (Mondonous Lark – 457) | | | | | | | | | | | | | | | |
| | | monotypic | Culmen | | | | | | | | | | | | |
| | | | Head | | | | | | | | | | | | |
| | | | Mass | 26.5 ± 0 (1) | | | | | | | | | | | |
| | | | Tail | 58.0 ± 0 (1) | | | | | | | | | | | |
| | | | Tarsus | | | | | | | | | | | | |
| | | | Wing | 88.0 ± 0 (1) | | | | | | | | | | | |
| <i>Pinarocorys nigricans</i> (Dusky Lark – 464) | | | | | | | | | | | | | | | |
| | | <i>P. n. occidentis</i> | Culmen | 19.6 ± 0 (1) | | | | | | | | | | | |
| | | | Head | 38.7 ± 0 (1) | | | | | | | | | | | |
| | | | Mass | 32.7 ± 0 (1) | | | | | | | | | | | |
| | | | Tail | 73.0 ± 0 (1) | | | | | | | | | | | |
| | | | Tarsus | 28.3 ± 0 (1) | | | | | | | | | | | |
| | | | Wing | 112.0 ± 0 (1) | | | | | | | | | | | |
| <i>Spizocorys starki</i> (Stark's Lark – 492) | | | | | | | | | | | | | | | |
| | | monotypic | Culmen | 14.8 ± 0.98 (47) | 10.8 – 16.5 | 14.9 ± 1.20 (13) | 11.1 – 16.0 | 14.7 ± 0.95 (133) | 11.1 – 17.2 | 14.7 ± 0.98 (193) | 10.8 – 17.2 | | | | |
| | | | Head | 30.3 ± 0.91 (47) | 26.6 – 32.2 | 31.1 ± 0.65 (13) | 30.0 – 32.3 | 30.5 ± 0.72 (135) | 29.0 – 32.1 | 30.5 ± 0.78 (195) | 26.6 – 32.3 | | | | |
| | | | Mass | 17.4 ± 1.38 (147) | 14.7 – 25.4 | 17.7 ± 1.34 (36) | 14.2 – 21.2 | 17.2 ± 1.28 (350) | 14.2 – 22.5 | 17.3 ± 1.32 (533) | 14.2 – 25.4 | | | | |
| | | | Tail | 46.8 ± 2.77 (151) | 40.0 – 59.0 | 48.0 ± 2.95 (38) | 42.0 – 54.0 | 47.4 ± 2.71 (344) | 41.0 – 58.0 | 47.3 ± 2.76 (533) | 40.0 – 59.0 | | | | |
| | | | Tarsus | 19.4 ± 0.82 (45) | 17.4 – 20.8 | 19.9 ± 0.38 (13) | 19.3 – 20.4 | 19.6 ± 0.79 (130) | 17.0 – 22.2 | 19.6 ± 0.79 (188) | 17.0 – 22.2 | | | | |
| | | | Wing | 81.3 ± 2.97 (151) | 69.0 – 88.0 | 83.4 ± 3.05 (38) | 78.0 – 88.0 | 81.6 ± 3.06 (358) | 72.0 – 89.0 | 81.6 ± 3.07 (547) | 69.0 – 89.0 | | | | |
| Cisticolidae (Cisticolas and Allies) | | | | | | | | | | | | | | | |
| <i>Calamonastes fasciolatus</i> (Barred Wren-Warbler – 614) | | | | | | | | | | | | | | | |
| | | <i>C. f. fasciolatus</i> | Culmen | 16.8 ± 0.56 (25) | 16.0 – 17.8 | 17.4 ± 1.01 (33) | 15.8 – 20.1 | 17.1 ± 0.50 (8) | 16.3 – 17.9 | 17.2 ± 0.84 (66) | 15.8 – 20.1 | | | | |
| | | | Head | 31.7 ± 0.74 (24) | 30.3 – 33.0 | 32.5 ± 0.72 (34) | 31.1 – 33.6 | 32.2 ± 0.71 (8) | 31.1 – 33.2 | 32.2 ± 0.82 (66) | 30.3 – 33.6 | | | | |
| | | | Mass | 12.0 ± 0.77 (27) | 10.8 – 13.4 | 12.4 ± 0.76 (33) | 10.4 – 13.9 | 12.8 ± 1.04 (8) | 11.2 – 14.5 | 12.3 ± 0.83 (68) | 10.4 – 14.5 | | | | |
| | | | Tail | 51.4 ± 3.06 (27) | 47.0 – 58.0 | 55.9 ± 2.56 (34) | 49.0 – 61.0 | 55.6 ± 3.93 (8) | 51.0 – 63.0 | 54.1 ± 3.62 (69) | 47.0 – 63.0 | | | | |
| | | | Tarsus | 21.5 ± 0.85 (25) | 20.2 – 23.7 | 22.4 ± 0.94 (33) | 19.3 – 23.9 | 22.3 ± 0.42 (8) | 21.7 – 23.0 | 22.1 ± 0.96 (66) | 19.3 – 23.9 | | | | |
| | | | Wing | 58.9 ± 2.46 (27) | 55.0 – 65.0 | 62.0 ± 2.03 (34) | 57.0 – 66.0 | 61.8 ± 2.95 (9) | 58.0 – 67.0 | 60.8 ± 2.75 (70) | 55.0 – 67.0 | | | | |
| <i>Camaroptera brevicaudata</i> (Grey-backed Camaroptera – 628) | | | | | | | | | | | | | | | |
| | | <i>C. b. intercalata</i> | Culmen | 15.9 ± 2.19 (2) | 14.3 – 17.4 | | | 15.7 ± 0.77 (6) | 14.8 – 16.6 | 15.7 ± 1.06 (8) | 14.3 – 17.4 | | | | |
| | | | Head | 30.1 ± 0.07 (2) | 30.0 – 30.1 | | | 30.8 ± 0.78 (9) | 29.4 – 31.9 | 30.7 ± 0.77 (11) | 29.4 – 31.9 | | | | |



| Family | Species | Subspecies | Measurement | Female | | | Male | | | Unknown | | | Total | | |
|--------|---------|--|-------------|------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|---------------|-------|--|--|
| | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | | |
| | | | Mass | 10.7 ± 0.78 (2) | 10.1 – 11.2 | 10.6 ± 0.41 (10) | 10.0 – 11.2 | 10.6 ± 0.44 (12) | 10.0 – 11.2 | 10.6 ± 0.44 (12) | 10.0 – 11.2 | | | | |
| | | | Tail | 39.0 ± 2.83 (2) | 37.0 – 41.0 | 43.2 ± 2.86 (10) | 39.0 – 47.0 | 42.5 ± 3.18 (12) | 37.0 – 47.0 | 42.5 ± 3.18 (12) | 37.0 – 47.0 | | | | |
| | | | Tarsus | 20.5 ± 0.21 (2) | 20.3 – 20.6 | 21.6 ± 0.18 (5) | 21.4 – 21.8 | 21.2 ± 0.57 (7) | 20.3 – 21.8 | 21.2 ± 0.57 (7) | 20.3 – 21.8 | | | | |
| | | | Wing | 53.5 ± 0.71 (2) | 53.0 – 54.0 | 56.1 ± 2.23 (10) | 53.0 – 59.0 | 55.7 ± 2.27 (12) | 53.0 – 59.0 | 55.7 ± 2.27 (12) | 53.0 – 59.0 | | | | |
| | | <i>C. b. sharpei</i> | Culmen | 16.4 ± 1.01 (31) | 14.1 – 18.5 | 16.6 ± 0.89 (7) | 15.7 – 17.7 | 16.5 ± 0.99 (57) | 14.1 – 18.5 | 16.5 ± 0.99 (57) | 14.1 – 18.5 | | | | |
| | | | Head | 31.2 ± 0.82 (31) | 29.0 – 33.1 | 31.6 ± 1.12 (7) | 30.5 – 33.5 | 31.4 ± 0.86 (57) | 29.0 – 33.5 | 31.4 ± 0.86 (57) | 29.0 – 33.5 | | | | |
| | | | Mass | 10.8 ± 0.91 (32) | 8.7 – 13.8 | 11.7 ± 1.77 (7) | 10.2 – 15.3 | 10.9 ± 0.98 (62) | 8.7 – 15.3 | 10.9 ± 0.98 (62) | 8.7 – 15.3 | | | | |
| | | | Tail | 42.7 ± 3.49 (31) | 38.0 – 55.0 | 43.9 ± 3.44 (7) | 38.0 – 48.0 | 43.4 ± 3.39 (61) | 38.0 – 54.0 | 43.4 ± 3.39 (61) | 38.0 – 55.0 | | | | |
| | | | Tarsus | 21.8 ± 0.93 (30) | 20.5 – 24.1 | 22.1 ± 0.96 (7) | 20.8 – 23.5 | 22.0 ± 0.91 (56) | 20.5 – 23.3 | 22.0 ± 0.91 (56) | 20.5 – 24.1 | | | | |
| | | | Wing | 55.5 ± 2.10 (31) | 51.0 – 59.0 | 57.0 ± 2.16 (7) | 54.0 – 59.0 | 55.9 ± 2.04 (61) | 52.0 – 59.0 | 55.9 ± 2.04 (61) | 45.0 – 59.0 | | | | |
| | | <i>Cisticola aridulus</i> (Desert Cisticola – 630) | | | | | | | | | | | | | |
| | | <i>C. a. eremicus</i> | Culmen | 14.7 ± 0.83 (4) | 13.8 – 15.7 | 14.5 ± 0.82 (7) | 13.5 – 15.6 | 14.6 ± 0.79 (11) | 13.5 – 15.7 | 14.6 ± 0.79 (11) | 13.5 – 15.7 | | | | |
| | | | Head | 27.0 ± 0.37 (4) | 26.6 – 27.5 | 27.0 ± 0.13 (7) | 26.8 – 27.2 | 27.0 ± 0.23 (11) | 26.6 – 27.5 | 27.0 ± 0.23 (11) | 26.6 – 27.5 | | | | |
| | | | Mass | 8.4 ± 0.76 (3) | 7.6 – 9.1 | 8.4 ± 0.49 (6) | 7.5 – 9.0 | 8.4 ± 0.54 (9) | 7.5 – 9.1 | 8.4 ± 0.54 (9) | 7.5 – 9.1 | | | | |
| | | | Tail | 36.8 ± 1.26 (4) | 35.0 – 38.0 | 38.6 ± 1.13 (7) | 38.0 – 41.0 | 37.9 ± 1.45 (11) | 35.0 – 41.0 | 37.9 ± 1.45 (11) | 35.0 – 41.0 | | | | |
| | | | Tarsus | 18.8 ± 0.61 (4) | 18.3 – 19.4 | 19.4 ± 0.74 (7) | 18.9 – 21.0 | 19.2 ± 0.73 (11) | 18.3 – 21.0 | 19.2 ± 0.73 (11) | 18.3 – 21.0 | | | | |
| | | | Wing | 47.5 ± 1.91 (4) | 46.0 – 50.0 | 52.6 ± 2.44 (7) | 48.0 – 56.0 | 50.7 ± 3.35 (11) | 46.0 – 56.0 | 50.7 ± 3.35 (11) | 46.0 – 56.0 | | | | |
| | | <i>C. a. kalahari</i> | Culmen | 14.0 ± 0.34 (6) | 13.5 – 14.4 | 14.6 ± 0.68 (4) | 13.6 – 15.2 | 14.4 ± 0.73 (12) | 13.8 – 16.0 | 14.4 ± 0.73 (12) | 13.5 – 16.0 | | | | |
| | | | Head | 26.9 ± 0.34 (6) | 26.6 – 27.5 | 27.1 ± 0.63 (4) | 26.5 – 28.0 | 27.0 ± 0.43 (12) | 27.2 – 27.4 | 27.0 ± 0.43 (12) | 26.5 – 28.0 | | | | |
| | | | Mass | 7.9 ± 0.59 (6) | 7.4 – 9.0 | 8.5 ± 0.32 (4) | 8.2 – 8.8 | 8.3 ± 0.68 (12) | 8.2 – 9.7 | 8.3 ± 0.68 (12) | 7.4 – 9.7 | | | | |
| | | | Tail | 38.0 ± 3.67 (5) | 33.0 – 42.0 | 38.7 ± 1.53 (3) | 37.0 – 40.0 | 38.0 ± 2.67 (10) | 36.0 – 38.0 | 38.0 ± 2.67 (10) | 33.0 – 42.0 | | | | |
| | | | Tarsus | 19.2 ± 0.63 (6) | 18.7 – 20.2 | 19.8 ± 0.48 (4) | 19.3 – 20.4 | 19.3 ± 0.64 (12) | 18.3 – 19.3 | 19.3 ± 0.64 (12) | 18.3 – 20.4 | | | | |
| | | | Wing | 50.7 ± 2.25 (6) | 47.0 – 53.0 | 52.3 ± 0.96 (4) | 51.0 – 53.0 | 51.0 ± 1.91 (12) | 49.0 – 50.0 | 51.0 ± 1.91 (12) | 47.0 – 53.0 | | | | |
| | | <i>Cisticola chiniana</i> (Rattling Cisticola – 642) | | | | | | | | | | | | | |
| | | <i>C. c. frater</i> | Culmen | 16.5 ± 0.82 (20) | 14.8 – 18.1 | 17.7 ± 0.61 (7) | 16.7 – 18.5 | 16.7 ± 0.97 (35) | 15.0 – 17.7 | 16.7 ± 0.97 (35) | 14.8 – 18.5 | | | | |
| | | | Head | 31.5 ± 1.28 (20) | 29.4 – 33.9 | 33.5 ± 0.70 (7) | 33.0 – 34.9 | 32.2 ± 1.44 (35) | 30.7 – 34.0 | 32.2 ± 1.44 (35) | 29.4 – 34.9 | | | | |
| | | | Mass | 13.9 ± 2.58 (22) | 11.0 – 19.7 | 17.7 ± 1.24 (8) | 16.3 – 19.9 | 15.4 ± 2.71 (42) | 13.3 – 20.0 | 15.4 ± 2.71 (42) | 11.0 – 20.0 | | | | |
| | | | Tail | 53.7 ± 4.07 (22) | 48.0 – 63.0 | 62.0 ± 4.47 (8) | 58.0 – 72.0 | 58.2 ± 6.78 (39) | 59.0 – 74.0 | 58.2 ± 6.78 (39) | 48.0 – 74.0 | | | | |
| | | | Tarsus | 22.1 ± 1.30 (20) | 20.3 – 24.3 | 24.0 ± 0.86 (7) | 22.9 – 25.1 | 22.9 ± 1.39 (35) | 23.2 – 24.2 | 22.9 ± 1.39 (35) | 20.3 – 25.1 | | | | |
| | | | Wing | 58.7 ± 4.89 (23) | 55.0 – 69.0 | 69.1 ± 3.31 (8) | 67.0 – 77.0 | 62.7 ± 6.26 (43) | 56.0 – 71.0 | 62.7 ± 6.26 (43) | 55.0 – 77.0 | | | | |
| | | <i>Cisticola juncidis</i> (Zitting Cisticola – 629) | | | | | | | | | | | | | |
| | | <i>C. j. terrestris</i> | Culmen | 13.7 ± 0 (1) | | 14.6 ± 0 (1) | | 14.3 ± 0.52 (3) | | 14.3 ± 0.52 (3) | 13.7 – 14.6 | | | | |
| | | | Head | 24.6 ± 0 (1) | | 25.2 ± 0 (1) | | 25.4 ± 0.86 (3) | | 25.4 ± 0.86 (3) | 24.6 – 26.3 | | | | |

| Family | Species | Subspecies | Measurement | Female | | | Male | | | Total | | |
|--|---------|------------|--|------------------|-------------|-----------------|-------------|------------------|--------------|------------------|-----------------|-------------|
| | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | |
| <i>Cisticola nufilatus</i> (Tinkling Cisticola – 641) | | | Mass | 7.4 ± 0 (1) | | 8.1 ± 0 (1) | | | | | 7.8 ± 0.49 (2) | 7.4 – 8.1 |
| | | | Tail | 37.0 ± 0 (1) | | 35.0 ± 0 (1) | | | 34.0 ± 0 (1) | | 35.3 ± 1.53 (3) | 34.0 – 37.0 |
| | | | Tarsus | 18.6 ± 0 (1) | | 20.1 ± 0 (1) | | | 19.9 ± 0 (1) | | 19.5 ± 0.81 (3) | 18.6 – 20.1 |
| | | | Wing | 48.0 ± 0 (1) | | 53.0 ± 0 (1) | | | 52.0 ± 0 (1) | | 51.0 ± 2.65 (3) | 48.0 – 53.0 |
| | | | <i>C. r. rufilatus</i> | | | | | | | | | |
| <i>Eremomela icteropygialis</i> (Yellow-bellied Eremomela – 600) | | | Culmen | 13.2 ± 0.61 (13) | 12.0 – 14.4 | 13.2 ± 1.34 (3) | 12.2 – 14.7 | 13.7 ± 0.99 (14) | 11.8 – 15.9 | 13.4 ± 0.88 (30) | 11.8 – 15.9 | |
| | | | Head | 25.4 ± 0.76 (13) | 23.7 – 26.5 | 25.7 ± 0.99 (3) | 25.0 – 26.8 | 26.2 ± 3.22 (14) | 18.7 – 34.7 | 25.8 ± 2.25 (30) | 18.7 – 34.7 | |
| | | | Mass | 7.1 ± 0.59 (15) | 6.0 – 8.4 | 7.6 ± 0.39 (4) | 7.2 – 8.0 | 7.1 ± 1.01 (13) | 5.0 – 9.5 | 7.2 ± 0.77 (32) | 5.0 – 9.5 | |
| | | | Tail | 36.5 ± 1.32 (16) | 34.0 – 38.0 | 36.5 ± 0.58 (4) | 36.0 – 37.0 | 36.2 ± 2.15 (14) | 30.0 – 39.0 | 36.4 ± 1.63 (34) | 30.0 – 39.0 | |
| | | | Tarsus | 18.0 ± 0.70 (13) | 16.3 – 18.8 | 18.6 ± 0.98 (3) | 17.5 – 19.4 | 19.0 ± 2.16 (13) | 17.2 – 25.8 | 18.5 ± 1.59 (29) | 16.3 – 25.8 | |
| | | | Wing | 55.7 ± 1.49 (16) | 52.0 – 59.0 | 54.8 ± 1.50 (4) | 53.0 – 56.0 | 55.4 ± 2.03 (14) | 52.0 – 58.0 | 55.5 ± 1.71 (34) | 52.0 – 59.0 | |
| | | | <i>E. i. icteropygialis</i> | | | | | | | | | |
| <i>E. i. sharpei</i> | | | Culmen | 13.9 ± 0.81 (3) | 13.0 – 14.5 | 12.7 ± 0 (1) | | 13.9 ± 1.13 (2) | 13.1 – 14.7 | 13.7 ± 0.88 (6) | 12.7 – 14.7 | |
| | | | Head | 26.2 ± 0.35 (3) | 25.9 – 26.6 | 25.7 ± 0 (1) | | 26.6 ± 0.71 (2) | 26.1 – 27.1 | 26.3 ± 0.51 (6) | 25.7 – 27.1 | |
| | | | Mass | 7.1 ± 0.17 (3) | 6.9 – 7.2 | 7.0 ± 0 (1) | | 7.0 ± 0.64 (2) | 6.5 – 7.4 | 7.0 ± 0.31 (6) | 6.5 – 7.4 | |
| | | | Tail | 36.7 ± 1.53 (3) | 35.0 – 38.0 | 35.0 ± 0 (1) | | 37.5 ± 0.71 (2) | 37.0 – 38.0 | 36.7 ± 1.37 (6) | 35.0 – 38.0 | |
| | | | Tarsus | 17.8 ± 0.38 (3) | 17.4 – 18.1 | 18.2 ± 0 (1) | | 18.2 ± 0.07 (2) | 18.1 – 18.2 | 18.0 ± 0.30 (6) | 17.4 – 18.2 | |
| | | | Wing | 55.0 ± 2.65 (3) | 52.0 – 57.0 | 51.0 ± 0 (1) | | 56.5 ± 0.71 (2) | 56.0 – 57.0 | 54.8 ± 2.64 (6) | 51.0 – 57.0 | |
| | | | <i>Eremomela usticollis</i> (Burnt-necked Eremomela – 601) | | | | | | | | | |
| <i>E. u. baumgarthi</i> | | | Culmen | 13.7 ± 1.40 (5) | 11.3 – 14.8 | 14.3 ± 0 (2) | 14.3 – 14.3 | 13.1 ± 0 (1) | | 13.8 ± 1.13 (8) | 11.3 – 14.8 | |
| | | | Head | 27.4 ± 0.60 (5) | 26.7 – 28.2 | 27.3 ± 0.07 (2) | 27.2 – 27.3 | 26.5 ± 0 (1) | | 27.3 ± 0.55 (8) | 26.5 – 28.2 | |
| | | | Mass | 8.4 ± 0.67 (5) | 7.7 – 9.0 | 8.5 ± 1.06 (2) | 7.7 – 9.2 | 7.6 ± 0 (1) | | 8.3 ± 0.71 (8) | 7.6 – 9.2 | |
| | | | Tail | 42.6 ± 2.07 (5) | 40.0 – 45.0 | 42.5 ± 0.71 (2) | 42.0 – 43.0 | 42.0 ± 0 (1) | | 42.5 ± 1.60 (8) | 40.0 – 45.0 | |
| | | | Tarsus | 19.9 ± 0.55 (5) | 19.3 – 20.5 | 20.0 ± 0.42 (2) | 19.7 – 20.3 | 19.3 ± 0 (1) | | 19.9 ± 0.50 (8) | 19.3 – 20.5 | |
| | | | Wing | 54.6 ± 2.70 (5) | 50.0 – 57.0 | 57.5 ± 0.71 (2) | 57.0 – 58.0 | 56.0 ± 0 (1) | | 55.5 ± 2.45 (8) | 50.0 – 58.0 | |



| Family | Species | Subspecies | Measurement | Female | | | Male | | | Total | | |
|------------------------|--|------------|-------------|-------------------|---------------|-------------------|---------------|-------------------|---------------|-------------------|---------------|--|
| | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | |
| Emberizidae (Buntings) | <i>Emberiza capensis</i> (Cape Bunting – 873) | | Tail | 119.9 ± 4.31 (17) | 112.0 – 127.0 | 122.0 ± 4.36 (3) | 117.0 – 125.0 | 120.1 ± 7.18 (30) | 107.0 – 136.0 | 120.2 ± 6.10 (49) | 107.0 – 136.0 | |
| | | | Tarsus | 21.8 ± 1.14 (16) | 20.4 – 24.8 | 22.9 ± 1.25 (3) | 22.0 – 24.3 | 21.9 ± 0.89 (26) | 20.2 – 23.2 | 21.9 ± 1.02 (45) | 20.2 – 24.8 | |
| | | | Wing | 134.2 ± 4.82 (17) | 120.0 – 139.0 | 136.7 ± 1.53 (3) | 135.0 – 138.0 | 133.6 ± 5.37 (30) | 121.0 – 143.0 | 134.0 ± 5.03 (60) | 120.0 – 143.0 | |
| | <i>E. c. bradfieldi</i> | | Culmen | 16.2 ± 1.21 (10) | 13.0 – 17.4 | 17.1 ± 1.09 (49) | 15.1 – 20.3 | 16.8 ± 0.75 (24) | 15.8 – 18.8 | 16.9 ± 1.06 (83) | 13.0 – 20.3 | |
| | | | Head | 30.9 ± 1.76 (10) | 26.2 – 32.5 | 31.8 ± 0.75 (49) | 30.3 – 33.2 | 31.7 ± 0.74 (24) | 30.2 – 33.3 | 31.7 ± 0.95 (83) | 26.2 – 33.3 | |
| | | | Mass | 19.0 ± 1.10 (9) | 17.2 – 20.4 | 19.7 ± 1.2.0 (56) | 16.5 – 22.4 | 19.4 ± 1.55 (32) | 15.3 – 23.0 | 19.6 ± 1.32 (97) | 15.3 – 23.0 | |
| | | | Tail | 64.0 ± 3.09 (10) | 60.0 – 70.0 | 65.6 ± 2.69 (56) | 59.0 – 72.0 | 64.5 ± 2.75 (33) | 59.0 – 70.0 | 65.1 ± 2.80 (99) | 59.0 – 72.0 | |
| | | | Tarsus | 19.5 ± 1.15 (10) | 17.0 – 21.1 | 20.2 ± 0.69 (49) | 18.7 – 21.7 | 20.5 ± 0.69 (24) | 19.2 – 21.8 | 20.2 ± 0.80 (83) | 17.0 – 21.8 | |
| | | | Wing | 81.4 ± 3.53 (10) | 76.0 – 87.0 | 83.5 ± 3.05 (57) | 76.0 – 88.0 | 81.6 ± 2.66 (33) | 76.0 – 88.0 | 82.6 ± 3.10 (100) | 76.0 – 88.0 | |
| | <i>Emberiza flaviventris</i> (Golden-breasted Bunting – 874) | | Culmen | 15.5 ± 0.87 (47) | 13.8 – 17.3 | 15.5 ± 0.98 (74) | 13.0 – 17.8 | 15.1 ± 1.39 (6) | 13.4 – 17.2 | 15.5 ± 0.96 (127) | 13.0 – 17.8 | |
| | | | Head | 29.9 ± 0.73 (48) | 28.3 – 31.9 | 30.1 ± 0.68 (73) | 28.3 – 31.6 | 29.9 ± 0.74 (6) | 28.8 – 31.0 | 30.0 ± 0.70 (127) | 28.3 – 31.9 | |
| | | | Mass | 18.4 ± 1.35 (94) | 15.6 – 22.5 | 18.6 ± 1.22 (173) | 13.8 – 22.1 | 18.2 ± 1.39 (26) | 13.5 – 20.1 | 18.5 ± 1.29 (293) | 13.5 – 22.5 | |
| | | | Tail | 72.1 ± 2.61 (74) | 65.0 – 78.0 | 75.3 ± 3.33 (116) | 66.0 – 83.0 | 76.6 ± 3.72 (14) | 72.0 – 87.0 | 74.2 ± 3.52 (204) | 65.0 – 87.0 | |
| | | | Tarsus | 18.7 ± 0.60 (47) | 17.5 – 19.9 | 18.7 ± 0.66 (74) | 16.2 – 20.2 | 18.6 ± 0.63 (6) | 17.8 – 19.5 | 18.7 ± 0.63 (127) | 16.2 – 20.2 | |
| | | | Wing | 82.4 ± 2.15 (91) | 77.0 – 87.0 | 86.8 ± 3.06 (166) | 78.0 – 95.0 | 85.3 ± 2.91 (26) | 81.0 – 95.0 | 85.2 ± 3.41 (283) | 77.0 – 95.0 | |
| | <i>Emberiza impetuani</i> (Lark-like Bunting – 871) | | Culmen | 13.8 ± 0.80 (22) | 12.7 – 15.7 | 13.6 ± 0.47 (20) | 12.6 – 14.3 | 13.4 ± 1.26 (81) | 11.1 – 17.7 | 13.5 ± 1.1 (123) | 11.1 – 17.7 | |
| | | | Head | 26.5 ± 0.65 (22) | 25.2 – 28.4 | 26.7 ± 0.6.0 (20) | 25.5 – 27.8 | 26.9 ± 0.87 (83) | 25.2 – 31.9 | 26.8 ± 0.80 (125) | 25.2 – 31.9 | |
| | | | Mass | 15.0 ± 1.32 (100) | 12.0 – 18.0 | 14.7 ± 1.24 (100) | 11.4 – 17.7 | 14.6 ± 1.37 (365) | 10.9 – 21.0 | 14.7 ± 1.34 (565) | 10.9 – 21.0 | |
| | | | Tail | 58.7 ± 2.54 (87) | 54.0 – 64.0 | 59.9 ± 2.62 (86) | 53.0 – 67.0 | 59.6 ± 2.90 (273) | 49.0 – 66.0 | 59.4 ± 2.80 (446) | 49.0 – 67.0 | |
| | | | Tarsus | 17.8 ± 0.70 (21) | 16.9 – 19.2 | 17.8 ± 0.73 (20) | 16.3 – 19.0 | 18.1 ± 0.64 (74) | 16.2 – 19.7 | 18.0 ± 0.67 (115) | 16.2 – 19.7 | |
| | | | Wing | 74.1 ± 2.64 (95) | 64.0 – 82.0 | 76.6 ± 2.82 (89) | 65.0 – 82.0 | 75.1 ± 3.19 (308) | 60.0 – 83.0 | 75.2 ± 3.12 (492) | 60.0 – 83.0 | |
| | <i>Emberiza tahapisi</i> (Cinnamom-breasted Bunting – 872) | | Culmen | 13.3 ± 0.74 (14) | 11.6 – 14.2 | 13.3 ± 0.79 (23) | 11.8 – 14.7 | 13.0 ± 0.69 (10) | 12.0 – 14.1 | 13.2 ± 0.75 (47) | 11.6 – 14.7 | |
| | | | Head | 26.0 ± 0.48 (14) | 25.2 – 26.6 | 26.1 ± 0.54 (23) | 25.1 – 27.2 | 26.3 ± 0.65 (10) | 25.1 – 27.5 | 26.1 ± 0.56 (47) | 25.1 – 27.5 | |
| | | | Mass | 14.9 ± 1.35 (20) | 12.0 – 17.0 | 14.8 ± 1.17 (27) | 12.4 – 18.0 | 14.9 ± 1.15 (11) | 13.0 – 16.5 | 14.8 ± 1.21 (58) | 12.0 – 18.0 | |
| | | | Tail | 61.9 ± 2.65 (20) | 57.0 – 66.0 | 63.5 ± 2.08 (28) | 58.0 – 68.0 | 61.9 ± 1.52 (10) | 60.0 – 64.0 | 62.7 ± 2.32 (68) | 57.0 – 68.0 | |
| | | | Tarsus | 17.1 ± 0.58 (14) | 15.8 – 18.0 | 17.1 ± 0.81 (23) | 15.1 – 18.5 | 17.2 ± 0.58 (10) | 16.5 – 18.6 | 17.1 ± 0.69 (47) | 15.1 – 18.6 | |
| | | | Wing | 76.4 ± 2.48 (20) | 72.0 – 82.0 | 78.9 ± 2.28 (28) | 75.0 – 84.0 | 76.8 ± 1.47 (11) | 74.0 – 79.0 | 77.7 ± 2.51 (59) | 72.0 – 84.0 | |



| Family | Species | Subspecies | Measurement | Female | | | Male | | | Total | | | | |
|---|---------|------------|-------------|--------------------------|--------------------|--------------------------|--------------------|---------------|-------|---------------|------------------|-------------------|-------------|--|
| | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | | | |
| <i>Granatina granatina</i> (Violet-eared Waxbill – 840) | | | | | | | | | | | | | | |
| | | | Culmen | 13.0 ± 0.93 (22) | 11.3 – 15.9 | 13.4 ± 0.85 (32) | 11.5 – 15.7 | | | | | 13.3 ± 0.90 (54) | 11.3 – 15.9 | |
| | | | Head | 24.3 ± 0.56 (21) | 23.0 – 25.1 | 25.0 ± 0.69 (34) | 24.0 – 27.3 | | | | | 24.7 ± 0.72 (55) | 23.0 – 27.3 | |
| | | | Mass | 10.9 ± 0.98 (224) | 8.8 – 14.6 | 10.9 ± 0.85 (275) | 7.0 – 14.6 | | | | | 10.9 ± 0.91 (499) | 7.0 – 14.6 | |
| | | | Tail | 69.7 ± 3.69 (117) | 55.0 – 78.0 | 74.2 ± 4.09 (145) | 61.0 – 83.0 | | | | | 72.2 ± 4.50 (262) | 55.0 – 83.0 | |
| | | | Tarsus | 16.0 ± 0.55 (20) | 14.9 – 17.0 | 16.2 ± 0.66 (32) | 14.8 – 17.6 | | | | | 16.1 ± 0.62 (52) | 14.8 – 17.6 | |
| | | | Wing | 57.3 ± 1.36 (170) | 52.0 – 60.0 | 58.0 ± 1.52 (221) | 53.0 – 63.0 | | | | | 57.7 ± 1.50 (391) | 52.0 – 63.0 | |
| <i>Lagonosticta nitidula</i> (Brown Firefinch – 836) | | | | | | | | | | | | | | |
| | | | Culmen | 12.9 ± 0.14 (2) | 12.8 – 13.0 | 13.3 ± 0.97 (3) | 12.5 – 14.4 | | | | | 13.2 ± 0.73 (5) | 12.5 – 14.4 | |
| | | | Head | 23.4 ± 0.21 (2) | 23.2 – 23.5 | 23.7 ± 0.26 (3) | 23.5 – 24.0 | | | | | 23.6 ± 0.29 (5) | 23.2 – 24.0 | |
| | | | Mass | 10.1 ± 0.47 (8) | 9.3 – 10.8 | 9.7 ± 0.47 (10) | 8.9 – 10.5 | | | | 9.6 ± 0.56 (15) | 8.9 – 11.0 | 8.9 – 11.0 | |
| | | | Tail | 43.0 ± 1.00 (3) | 42.0 – 44.0 | 44.5 ± 1.00 (4) | 44.0 – 46.0 | | | | 43.6 ± 1.14 (5) | 42.0 – 45.0 | 42.0 – 46.0 | |
| | | | Tarsus | 14.6 ± 0.71 (2) | 14.1 – 15.1 | 14.8 ± 0.68 (3) | 14.0 – 15.3 | | | | | 14.7 ± 0.60 (5) | 14.0 – 15.3 | |
| | | | Wing | 52.5 ± 2.73 (8) | 49.0 – 57.0 | 52.7 ± 1.25 (10) | 50.0 – 54.0 | | | | 51.7 ± 1.54 (16) | 48.0 – 54.0 | 48.0 – 57.0 | |
| <i>Lagonosticta rhodopareia</i> (Jameson's Firefinch – 835) | | | | | | | | | | | | | | |
| | | | Culmen | 12.3 ± 0.89 (3) | 11.3 – 13.0 | 12.7 ± 0.87 (6) | 11.3 – 13.5 | | | | | 12.5 ± 0.84 (9) | 11.3 – 13.5 | |
| | | | Head | 23.7 ± 0.40 (3) | 23.5 – 24.2 | 23.6 ± 0.61 (6) | 22.8 – 24.3 | | | | | 23.6 ± 0.53 (9) | 22.8 – 24.3 | |
| | | | Mass | 9.0 ± 0.84 (4) | 8.1 – 10.0 | 9.1 ± 0.64 (7) | 8.3 – 10.4 | | | | | 9.1 ± 0.68 (11) | 8.1 – 10.4 | |
| | | | Tail | 43.3 ± 1.15 (3) | 42.0 – 44.0 | 44.5 ± 1.38 (6) | 43.0 – 47.0 | | | | | 44.1 ± 1.36 (9) | 42.0 – 47.0 | |
| | | | Tarsus | 13.7 ± 0.21 (3) | 13.5 – 13.9 | 14.1 ± 0.45 (6) | 13.3 – 14.5 | | | | | 13.9 ± 0.42 (9) | 13.3 – 14.5 | |
| | | | Wing | 48.8 ± 1.26 (4) | 47.0 – 50.0 | 50.4 ± 1.90 (7) | 47.0 – 52.0 | | | | | 49.8 ± 1.83 (11) | 47.0 – 52.0 | |
| <i>Lagonosticta senegalata</i> (Red-billed Firefinch – 837) | | | | | | | | | | | | | | |
| | | | Culmen | 11.1 ± 0.60 (16) | 9.9 – 12.0 | 11.2 ± 0.24 (7) | 11.0 – 11.7 | | | | | 11.1 ± 0.51 (23) | 9.9 – 12.0 | |
| | | | Head | 21.4 ± 0.23 (16) | 21.0 – 21.8 | 21.5 ± 0.20 (8) | 21.1 – 21.7 | | | | | 21.4 ± 0.22 (24) | 21.0 – 21.8 | |
| | | | Mass | 8.2 ± 0.50 (21) | 7.2 – 9.1 | 8.0 ± 0.58 (14) | 7.2 – 9.3 | | | | | 8.1 ± 0.54 (35) | 7.2 – 9.3 | |
| | | | Tail | 36.4 ± 1.12 (19) | 34.0 – 38.0 | 37.5 ± 1.20 (13) | 36.0 – 40.0 | | | | | 36.9 ± 1.26 (32) | 34.0 – 40.0 | |
| | | | Tarsus | 12.3 ± 0.54 (16) | 11.0 – 13.1 | 12.5 ± 0.50 (8) | 11.5 – 13.1 | | | | | 12.4 ± 0.52 (24) | 11.0 – 13.1 | |
| | | | Wing | 49.0 ± 1.32 (21) | 46.0 – 51.0 | 49.5 ± 1.51 (14) | 46.0 – 51.0 | | | | | 49.2 ± 1.40 (35) | 46.0 – 51.0 | |
| <i>Ortygospiza atricollis</i> (Qualifinch – 844) | | | | | | | | | | | | | | |
| | | | Mass | 11.8 ± 1.04 (11) | 10.2 – 13.3 | 11.2 ± 0.58 (12) | 10.5 – 12.1 | | | | | 11.5 ± 0.88 (23) | 10.2 – 13.3 | |
| | | | Tail | 29.5 ± 0.71 (2) | 29.0 – 30.0 | 29.0 ± 2.00 (6) | 27.0 – 32.0 | | | | | 29.1 ± 1.73 (8) | 27.0 – 32.0 | |
| | | | Wing | 53.5 ± 2.12 (2) | 52.0 – 55.0 | 55.5 ± 1.05 (6) | 54.0 – 57.0 | | | | | 55.0 ± 1.51 (8) | 52.0 – 57.0 | |



| Family | Species | Subspecies | Measurement | Female | | | Male | | | Total | | | | |
|--|---------|-------------------------|-------------|--------------------------|--------------------|--------------------------|--------------------|------------------|-------------|---------------|-------|-------------------|-------------|--|
| | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | | | |
| <i>Pytilia melba</i> (Green-winged Pytilia – 830) | | | | | | | | | | | | | | |
| | | <i>P. m. melba</i> | Culmen | 15.6 ± 1.09 (34) | 13.7 – 17.7 | 15.5 ± 1.08 (54) | 13.0 – 17.7 | | | | | 15.5 ± 1.08 (88) | 13.0 – 17.7 | |
| | | | Head | 28.1 ± 0.71 (34) | 26.4 – 29.9 | 28.3 ± 0.73 (53) | 26.1 – 29.6 | | | | | 28.2 ± 0.73 (87) | 26.1 – 29.9 | |
| | | | Mass | 14.6 ± 1.34 (118) | 10.9 – 20.8 | 14.8 ± 0.93 (168) | 11.0 – 16.9 | | | | | 14.7 ± 1.12 (286) | 10.9 – 20.8 | |
| | | | Tail | 50.7 ± 2.23 (87) | 39.0 – 58.0 | 51.8 ± 2.24 (149) | 44.0 – 63.0 | | | | | 51.4 ± 2.29 (246) | 39.0 – 63.0 | |
| | | | Tarsus | 17.0 ± 0.91 (33) | 15.3 – 20.7 | 17.2 ± 0.68 (49) | 14.7 – 18.7 | | | | | 17.1 ± 0.78 (82) | 14.7 – 20.7 | |
| | | | Wing | 60.3 ± 2.26 (113) | 49.0 – 69.0 | 61.2 ± 2.05 (164) | 51.0 – 72.0 | | | | | 60.8 ± 2.18 (277) | 49.0 – 72.0 | |
| <i>Spermestes cucullata</i> (Bronze Mannikin – 823) | | | | | | | | | | | | | | |
| | | <i>S. c. scutata</i> | Culmen | 12.4 ± 0.43 (4) | 11.8 – 12.8 | | | 11.8 ± 0.73 (4) | 11.0 – 12.7 | | | 12.1 ± 0.66 (8) | 11.0 – 12.8 | |
| | | | Head | 21.1 ± 0.58 (4) | 20.4 – 21.8 | | | 20.9 ± 0.25 (4) | 20.6 – 21.2 | | | 21.0 ± 0.42 (8) | 20.4 – 21.8 | |
| | | | Mass | 10.1 ± 1.18 (10) | 8.9 – 13.0 | | | 9.5 ± 0.79 (12) | 8.4 – 11.2 | | | 9.8 ± 1.00 (22) | 8.4 – 13.0 | |
| | | | Tail | 32.9 ± 2.15 (9) | 30.0 – 37.0 | | | 32.9 ± 1.46 (8) | 31.0 – 35.0 | | | 32.9 ± 1.80 (17) | 30.0 – 37.0 | |
| | | | Tarsus | 12.9 ± 1.39 (4) | 11.7 – 14.1 | | | 13.2 ± 0.94 (4) | 12.3 – 14.5 | | | 13.1 ± 1.11 (8) | 11.7 – 14.5 | |
| | | | Wing | 49.6 ± 1.71 (10) | 47.0 – 52.0 | | | 48.4 ± 1.31 (12) | 46.0 – 50.0 | | | 49.0 ± 1.59 (22) | 46.0 – 52.0 | |
| <i>Uraeginthus angolensis</i> (Blue Waxbill – 839) | | | | | | | | | | | | | | |
| | | <i>U. a. angolensis</i> | Culmen | 11.7 ± 0.60 (11) | 10.8 – 12.7 | 11.8 ± 0.84 (17) | 10.0 – 13.0 | | | | | 11.9 ± 1.04 (36) | 10.0 – 15.5 | |
| | | | Head | 23.1 ± 0.52 (11) | 22.2 – 23.8 | 23.5 ± 0.54 (17) | 22.0 – 24.2 | | | | | 23.4 ± 0.55 (37) | 22.0 – 24.2 | |
| | | | Mass | 10.0 ± 0.76 (63) | 8.3 – 13.0 | 9.9 ± 0.79 (83) | 7.0 – 11.9 | | | | | 9.9 ± 0.83 (206) | 6.9 – 13.0 | |
| | | | Tail | 51.0 ± 3.03 (53) | 42.0 – 58.0 | 53.9 ± 2.50 (55) | 48.0 – 62.0 | | | | | 52.3 ± 3.05 (139) | 42.0 – 62.0 | |
| | | | Tarsus | 14.6 ± 0.51 (9) | 14.0 – 15.5 | 14.6 ± 0.69 (14) | 12.9 – 15.5 | | | | | 14.7 ± 0.60 (31) | 12.9 – 15.5 | |
| | | | Wing | 53.9 ± 2.44 (76) | 49.0 – 65.0 | 54.4 ± 1.87 (78) | 50.0 – 61.0 | | | | | 54.1 ± 2.15 (192) | 45.0 – 65.0 | |
| Fringillidae (Finches, Euphonias) | | | | | | | | | | | | | | |
| <i>Crithagra albogularis</i> (White-throated Canary – 865) | | | | | | | | | | | | | | |
| | | <i>C. a. sordahlae</i> | Culmen | 17.7 ± 0 (1) | | | | | | | | 17.7 ± 0 (1) | | |
| | | | Head | 30.7 ± 0 (1) | | | | | | | | 30.7 ± 0 (1) | | |
| | | | Mass | 22.5 ± 0 (1) | | | | | | | | 22.5 ± 0 (1) | | |
| | | | Tail | 56.0 ± 0 (1) | | | | 55.0 ± 0 (1) | | | | 55.5 ± 0.71 (2) | 55.0 – 56.0 | |
| | | | Tarsus | 22.6 ± 0 (1) | | | | 22.6 ± 0 (1) | | | | 22.6 ± 0 (1) | | |
| | | | Wing | 78.0 ± 0 (1) | | | | 79.0 ± 0 (1) | | | | 78.5 ± 0.71 (2) | 78.0 – 79.0 | |
| | | mixed ssp | Culmen | 18.3 ± 1.27 (87) | 12.6 – 20.6 | 18.8 ± 0.97 (36) | 15.7 – 20.4 | | | | | 18.4 ± 1.40 (227) | 12.6 – 28.4 | |
| | | | Head | 31.9 ± 0.81 (87) | 30.3 – 34.2 | 32.6 ± 1.20 (36) | 27.5 – 35.3 | | | | | 32.2 ± 1.08 (231) | 26.0 – 36.2 | |
| | | | Mass | 23.4 ± 1.79 (267) | 17.7 – 29.1 | 23.5 ± 1.58 (130) | 19.9 – 27.7 | | | | | 23.5 ± 1.80 (767) | 15.0 – 33.5 | |



| Family | Species | Subspecies | Measurement | Female | | | Male | | | Unknown | | | Total | | | | |
|--|---------|---|-------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|---------------|-------|--|--|--|--|
| | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | | | | |
| <i>Crithagra atrogularis</i> (Black-throated Canary – 860) | | | | | | | | | | | | | | | | | |
| | | <i>C. a. deserti</i> | Tail | 54.9 ± 2.56 (245) | 45.0 – 65.0 | 56.1 ± 2.57 (113) | 50.0 – 63.0 | 56.1 ± 3.00 (316) | 46.0 – 68.0 | 55.7 ± 2.84 (674) | 45.0 – 68.0 | | | | | | |
| | | | Tarsus | 19.8 ± 0.73 (87) | 17.3 – 21.5 | 19.7 ± 0.90 (34) | 16.3 – 21.0 | 19.9 ± 0.82 (90) | 18.0 – 22.8 | 19.8 ± 0.80 (211) | 16.3 – 22.8 | | | | | | |
| | | | Wing | 81.6 ± 2.76 (255) | 73.0 – 89.0 | 83.9 ± 2.95 (116) | 69.0 – 89.0 | 82.3 ± 3.20 (363) | 67.0 – 89.0 | 82.3 ± 3.10 (734) | 67.0 – 89.0 | | | | | | |
| | | | Culmen | 12.5 ± 0.96 (7) | 11.4 – 13.6 | 12.5 ± 0.72 (16) | 11.1 – 13.5 | 12.2 ± 1.25 (32) | 9.5 – 15.5 | 12.3 ± 1.08 (55) | 9.5 – 15.5 | | | | | | |
| | | | Head | 22.9 ± 0.48 (7) | 22.4 – 23.7 | 23.1 ± 0.54 (15) | 22.2 – 23.9 | 23.1 ± 0.48 (32) | 22.3 – 24.6 | 23.1 ± 0.50 (54) | 22.2 – 24.6 | | | | | | |
| | | | Mass | 10.9 ± 0.78 (14) | 9.8 – 12.4 | 10.9 ± 0.88 (19) | 9.7 – 12.2 | 10.7 ± 0.63 (40) | 9.2 – 12.0 | 10.8 ± 0.67 (73) | 9.2 – 12.0 | | | | | | |
| | | | Tail | 42.8 ± 1.48 (13) | 39.0 – 45.0 | 43.5 ± 1.68 (19) | 40.0 – 47.0 | 43.6 ± 1.60 (39) | 41.0 – 48.0 | 43.4 ± 1.61 (71) | 39.0 – 48.0 | | | | | | |
| | | | Tarsus | 13.7 ± 0.42 (7) | 13.2 – 14.1 | 13.8 ± 0.62 (16) | 12.8 – 14.9 | 13.8 ± 0.67 (31) | 12.4 – 15.0 | 13.8 ± 0.62 (54) | 12.4 – 15.0 | | | | | | |
| | | | Wing | 67.4 ± 1.09 (14) | 66.0 – 70.0 | 68.0 ± 3.18 (19) | 66.0 – 79.0 | 66.9 ± 1.68 (41) | 62.0 – 70.0 | 67.3 ± 2.12 (74) | 62.0 – 70.0 | | | | | | |
| | | <i>C. a. semideserti</i> | Culmen | 12.3 ± 0.84 (23) | 9.8 – 13.3 | 12.4 ± 0.91 (34) | 9.0 – 13.6 | 12.4 ± 0.79 (15) | 11.0 – 13.6 | 12.4 ± 0.85 (72) | 9.0 – 13.6 | | | | | | |
| | | | Head | 23.1 ± 0.43 (27) | 22.2 – 24.1 | 23.3 ± 0.48 (37) | 22.2 – 24.4 | 23.0 ± 0.49 (17) | 22.2 – 23.9 | 23.2 ± 0.49 (81) | 22.2 – 23.9 | | | | | | |
| | | | Mass | 10.9 ± 0.86 (54) | 9.4 – 13.6 | 10.7 ± 0.81 (55) | 9.1 – 12.5 | 10.8 ± 0.73 (39) | 9.4 – 12.4 | 10.8 ± 0.81 (148) | 9.1 – 12.4 | | | | | | |
| | | | Tail | 43.9 ± 1.50 (51) | 40.0 – 48.0 | 44.4 ± 1.85 (55) | 40.0 – 50.0 | 44.1 ± 1.84 (36) | 41.0 – 48.0 | 44.1 ± 1.73 (142) | 40.0 – 50.0 | | | | | | |
| | | | Tarsus | 13.9 ± 0.51 (27) | 13.0 – 15.4 | 13.9 ± 0.61 (37) | 12.5 – 15.2 | 14.1 ± 0.63 (16) | 13.1 – 15.7 | 13.9 ± 0.58 (80) | 12.5 – 15.7 | | | | | | |
| | | | Wing | 67.8 ± 1.62 (52) | 64.0 – 73.0 | 68.7 ± 2.19 (57) | 65.0 – 75.0 | 67.8 ± 1.74 (37) | 64.0 – 72.0 | 68.1 ± 1.93 (146) | 64.0 – 72.0 | | | | | | |
| | | <i>Crithagra flavigentris</i> (Yellow Canary – 866) | Culmen | 14.5 ± 0.90 (36) | 11.6 – 16.7 | 15.1 ± 0.80 (40) | 13.5 – 17.2 | 14.8 ± 0.89 (76) | 11.6 – 17.2 | 14.8 ± 0.89 (76) | 11.6 – 17.2 | | | | | | |
| | | | Head | 26.5 ± 0.66 (35) | 25.1 – 28.0 | 27.0 ± 0.45 (40) | 26.1 – 28.1 | 26.8 ± 0.61 (75) | 25.1 – 28.1 | 26.8 ± 0.61 (75) | 25.1 – 28.1 | | | | | | |
| | | | Mass | 16.0 ± 1.45 (55) | 13.1 – 19.9 | 16.2 ± 0.89 (75) | 14.3 – 18.4 | 16.1 ± 1.16 (130) | 13.1 – 19.9 | 16.1 ± 1.16 (130) | 13.1 – 19.9 | | | | | | |
| | | | Tail | 55.7 ± 2.46 (52) | 47.0 – 60.0 | 57.6 ± 2.28 (72) | 52.0 – 63.0 | 56.8 ± 2.53 (124) | 47.0 – 63.0 | 56.8 ± 2.53 (124) | 47.0 – 63.0 | | | | | | |
| | | | Tarsus | 17.9 ± 0.76 (36) | 16.0 – 19.5 | 18.1 ± 0.63 (42) | 17.1 – 19.5 | 18.0 ± 0.70 (78) | 16.0 – 19.5 | 18.0 ± 0.70 (78) | 16.0 – 19.5 | | | | | | |
| | | | Wing | 72.4 ± 2.88 (54) | 60.0 – 77.0 | 75.0 ± 2.25 (74) | 65.0 – 80.0 | 73.9 ± 2.84 (128) | 60.0 – 80.0 | 73.9 ± 2.84 (128) | 60.0 – 80.0 | | | | | | |
| | | <i>Serinus leucolaema</i> (Damara Canary – 4102) | Culmen | 12.3 ± 0.99 (4) | 11.2 – 13.6 | 12.0 ± 0.1 (1) | | | | 12.3 ± 0.87 (5) | 11.2 – 13.6 | | | | | | |
| | | | Head | 23.0 ± 0.84 (4) | 22.0 – 24.0 | 22.6 ± 0.99 (2) | 21.9 – 23.3 | | | 22.9 ± 0.82 (6) | 21.9 – 24.0 | | | | | | |
| | | | Mass | 12.0 ± 1.00 (3) | 11.0 – 13.0 | 12.3 ± 1.53 (3) | 11.0 – 14.0 | | | 12.2 ± 1.17 (6) | 11.0 – 14.0 | | | | | | |
| | | | Tail | 46.3 ± 2.06 (4) | 44.0 – 48.0 | 46.0 ± 1.00 (3) | 45.0 – 47.0 | | | 46.1 ± 1.57 (7) | 44.0 – 48.0 | | | | | | |
| | | | Tarsus | 14.9 ± 0.42 (4) | 14.4 – 15.3 | 14.8 ± 0.35 (2) | 14.5 – 15.0 | | | 14.9 ± 0.37 (6) | 14.4 – 15.3 | | | | | | |
| | | | Wing | 64.3 ± 2.36 (4) | 61.0 – 66.0 | 62.0 ± 3.61 (3) | 58.0 – 65.0 | | | 63.3 ± 2.93 (7) | 58.0 – 66.0 | | | | | | |



| Family | Species | Subspecies | Measurement | Female | | | Male | | | Unknown | | | Total | | | | | | | | | | | | | | | | | |
|---|---------|------------|-------------|------------------|---------------|------------------|-------------------|---------------|-------------------|---------------|-------|---------------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | | | | | | | | | | | | | | | | | |
| Hirundinidae (Swallows, Martins) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cecropis cucullata (Greater Striped Swallow – 502) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| monotypic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Culmen | 13.5 ± 1.00 (3) | 12.5 – 14.5 | 13.5 ± 0 (1) | 13.7 ± 0.21 (2) | 13.5 – 13.8 | 13.6 ± 0.64 (6) | 12.5 – 14.5 | | | | | | | | | | | | | | | | | | | | |
| | | | Head | 30.1 ± 0.49 (3) | 29.5 – 30.4 | 29.9 ± 0 (1) | 30.3 ± 0.14 (2) | 30.2 – 30.4 | 30.1 ± 0.35 (6) | 29.5 – 30.4 | | | | | | | | | | | | | | | | | | | | |
| | | | Mass | 24.8 ± 2.41 (3) | 22.5 – 27.3 | 21.6 ± 0 (1) | 24.9 ± 2.12 (2) | 23.4 – 26.4 | 24.3 ± 2.23 (6) | 21.6 – 27.3 | | | | | | | | | | | | | | | | | | | | |
| | | | Tail | 99.7 ± 4.93 (3) | 94.0 – 103.0 | 96.0 ± 0 (1) | 86.5 ± 12.02 (2) | 76.0 – 95.0 | 94.7 ± 8.98 (6) | 78.0 – 103.0 | | | | | | | | | | | | | | | | | | | | |
| | | | Tarsus | 15.6 ± 0.92 (3) | 14.8 – 16.6 | 15.3 ± 0 (1) | 15.3 ± 0.28 (2) | 15.1 – 15.5 | 15.5 ± 0.62 (6) | 14.8 – 16.6 | | | | | | | | | | | | | | | | | | | | |
| | | | Wing | 127.7 ± 5.69 (3) | 123.0 – 134.0 | 124.0 ± 0 (1) | 125.0 ± 2.83 (2) | 123.0 – 127.0 | 126.2 ± 4.17 (6) | 123.0 – 134.0 | | | | | | | | | | | | | | | | | | | | |
| Hirundo rustica (Barn Swallow – 493) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| H. r. rustica | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Culmen | 11.7 ± 1.41 (2) | 10.7 – 12.7 | 13.0 ± 0 (1) | 12.1 ± 1.25 (3) | 10.7 – 13.0 | 12.1 ± 1.25 (3) | 10.7 – 13.0 | | | | | | | | | | | | | | | | | | | | |
| | | | Head | 30.2 ± 0 (1) | | 30.6 ± 0 (1) | 30.4 ± 0.28 (2) | | 30.4 ± 0.28 (2) | 30.2 – 30.6 | | | | | | | | | | | | | | | | | | | | |
| | | | Mass | 22.2 ± 1.64 (4) | 20.4 – 24.0 | 18.5 ± 2.61 (5) | 19.6 ± 1.39 (16) | 18.0 – 23.0 | 19.8 ± 1.99 (25) | 15.3 – 24.0 | | | | | | | | | | | | | | | | | | | | |
| | | | Tail | 69.0 ± 1.41 (2) | 68.0 – 70.0 | 101.0 ± 5.66 (2) | 72.0 ± 14.28 (5) | 62.0 – 95.0 | 77.8 ± 16.77 (9) | 62.0 – 105.0 | | | | | | | | | | | | | | | | | | | | |
| | | | Tarsus | 12.0 ± 0 (1) | | 12.0 ± 0 (1) | 12.0 ± 0 (2) | | 12.0 ± 0 (2) | 12.0 – 12.0 | | | | | | | | | | | | | | | | | | | | |
| | | | Wing | 125.3 ± 3.40 (4) | 122.0 – 130.0 | 124.2 ± 2.40 (6) | 124.2 ± 3.59 (13) | 117.0 – 129.0 | 124.4 ± 3.17 (23) | 117.0 – 130.0 | | | | | | | | | | | | | | | | | | | | |
| Ptyonoprogne fuligula (Rock Martin – 506) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P. f. anderssoni | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Culmen | 13.8 ± 0 (1) | | 14.1 ± 0.58 (10) | 13.5 ± 1.35 (15) | 11.0 – 15.6 | 13.7 ± 1.11 (26) | 11.0 – 15.6 | | | | | | | | | | | | | | | | | | | | |
| | | | Head | 31.5 ± 0 (1) | | 30.6 ± 0.72 (10) | 30.8 ± 0.70 (15) | 29.3 – 32.0 | 30.8 ± 0.71 (26) | 29.3 – 32.0 | | | | | | | | | | | | | | | | | | | | |
| | | | Mass | 19.9 ± 1.46 (3) | 18.7 – 21.5 | 19.8 ± 1.67 (13) | 20.4 ± 1.40 (27) | 17.2 – 23.2 | 20.2 ± 1.48 (43) | 17.2 – 23.2 | | | | | | | | | | | | | | | | | | | | |
| | | | Tail | 54.8 ± 3.30 (4) | 51.0 – 58.0 | 56.5 ± 2.15 (13) | 56.3 ± 3.81 (27) | 50.0 – 68.0 | 56.2 ± 3.32 (44) | 50.0 – 68.0 | | | | | | | | | | | | | | | | | | | | |
| | | | Tarsus | | | 11.7 ± 1.15 (10) | 11.5 ± 0.63 (9) | 10.5 – 12.6 | 11.6 ± 0.92 (19) | 10.1 – 13.9 | | | | | | | | | | | | | | | | | | | | |
| | | | Wing | 127.3 ± 3.69 (4) | 123.0 – 132.0 | 130.2 ± 4 (13) | 129.0 ± 3.54 (28) | 118.0 – 134.0 | 129.2 ± 3.70 (45) | 118.0 – 137.0 | | | | | | | | | | | | | | | | | | | | |
| P. f. fuligula | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Culmen | | | 14.7 ± 1.20 (2) | 13.8 – 15.5 | | 14.7 ± 1.20 (2) | 13.8 – 15.5 | | | | | | | | | | | | | | | | | | | | |
| | | | Head | | | 31.6 ± 0.28 (2) | 31.4 – 31.8 | | 31.6 ± 0.28 (2) | 31.4 – 31.8 | | | | | | | | | | | | | | | | | | | | |
| | | | Mass | | | 20.7 ± 1.63 (2) | 20.8 ± 0 (1) | | 20.7 ± 1.15 (3) | 19.5 – 21.8 | | | | | | | | | | | | | | | | | | | | |
| | | | Tail | | | 57.0 ± 2.83 (2) | 55.0 – 59.0 | | 57.0 ± 2.00 (3) | 57.0 – 59.0 | | | | | | | | | | | | | | | | | | | | |
| | | | Tarsus | | | 11.7 ± 1.06 (2) | 10.9 – 12.4 | | 11.7 ± 1.06 (2) | 10.9 – 12.4 | | | | | | | | | | | | | | | | | | | | |
| | | | Wing | | | 132.0 ± 4.24 (2) | 129.0 – 135.0 | | 131.7 ± 3.06 (3) | 129.0 – 135.0 | | | | | | | | | | | | | | | | | | | | |
| Laniidae (Shrikes) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Eurocephalus anguliformis (Southern White-crowned Shrike – 730) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E. a. anguliformis | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Culmen | 25.2 ± 1.59 (10) | 21.0 – 26.4 | 26.1 ± 1.06 (4) | 23.9 ± 3.22 (5) | 20.8 – 27.6 | 25.1 ± 2.10 (19) | 20.8 – 27.6 | | | | | | | | | | | | | | | | | | | | |
| | | | Head | 47.3 ± 0.65 (10) | 45.6 – 48.0 | 47.4 ± 0.49 (4) | 47.5 ± 1.04 (5) | 46.3 – 48.6 | 47.4 ± 0.70 (19) | 45.6 – 48.6 | | | | | | | | | | | | | | | | | | | | |



| Family | Species | Subspecies | Measurement | Female | | | Male | | | Total | | |
|--------|--|------------|-------------|-------------------|---------------|-------------------|---------------|------------------|---------------|--------------------|---------------|--|
| | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | |
| | <i>Lanius collaris</i> (Southern Fiscal – 707) | | Mass | 65.1 ± 3.10 (10) | 61.0 – 70.9 | 63.5 ± 1.81 (4) | 61.3 – 65.7 | 64.2 ± 2.74 (5) | 60.7 – 68.0 | 64.5 ± 2.73 (19) | 60.7 – 70.9 | |
| | | | Tail | 106.6 ± 3.84 (10) | 101.0 – 111.0 | 104.5 ± 6.03 (4) | 99.0 – 113.0 | 107.0 ± 3.81 (5) | 101.0 – 111.0 | 106.3 ± 4.19 (19) | 99.0 – 113.0 | |
| | | | Tarsus | 26.2 ± 2.11 (10) | 24.5 – 32.0 | 25.8 ± 0.48 (4) | 25.3 – 26.4 | 25.8 ± 0.77 (5) | 25.0 – 26.9 | 26.0 ± 1.56 (19) | 24.5 – 32.0 | |
| | | | Wing | 136.4 ± 2.01 (10) | 133.0 – 140.0 | 135.0 ± 1.41 (4) | 134.0 – 137.0 | 137.8 ± 1.64 (5) | 136.0 – 140.0 | 136.5 ± 1.98 (19) | 133.0 – 140.0 | |
| | <i>L. c. aridicollis</i> | | Culmen | 22.2 ± 1.41 (43) | 19.0 – 24.7 | 22.9 ± 1.41 (70) | 19.3 – 26.9 | | | 22.7 ± 1.44 (113) | 19.0 – 26.9 | |
| | | | Head | 43.2 ± 1.05 (43) | 39.8 – 45.0 | 44.4 ± 1.30 (70) | 41.1 – 48.6 | | | 44.0 ± 1.36 (113) | 39.8 – 48.6 | |
| | | | Mass | 35.3 ± 2.58 (46) | 29.4 – 40.8 | 37.9 ± 2.81 (72) | 33.2 – 51.0 | | | 36.9 ± 2.99 (118) | 29.4 – 51.0 | |
| | | | Tail | 103.7 ± 4.56 (46) | 92.0 – 118.0 | 108.5 ± 4.86 (72) | 94.0 – 118.0 | | | 106.6 ± 5.29 (118) | 92.0 – 118.0 | |
| | | | Tarsus | 26.1 ± 0.67 (39) | 24.9 – 27.4 | 27.1 ± 0.76 (67) | 25.2 – 28.8 | | | 26.8 ± 0.87 (106) | 24.9 – 28.8 | |
| | | | Wing | 95.7 ± 2.51 (48) | 90.0 – 101.0 | 98.6 ± 2.65 (75) | 94.0 – 107.0 | | | 97.5 ± 2.94 (123) | 90.0 – 107.0 | |
| | <i>Lanius collurio</i> (Red-backed Shrike – 708) | | | | | | | | | | | |
| | | mixed ssp | Culmen | 20.0 ± 0.82 (15) | 18.5 – 22.0 | 20.1 ± 0.78 (27) | 18.5 – 22.1 | | | 20.1 ± 0.78 (42) | 18.5 – 22.1 | |
| | | | Head | 38.4 ± 0.95 (15) | 36.9 – 40.2 | 38.8 ± 1.12 (31) | 34.1 – 40.8 | | | 38.7 ± 1.07 (46) | 34.1 – 40.8 | |
| | | | Mass | 26.8 ± 2.66 (15) | 19.7 – 30.8 | 28.2 ± 3.97 (34) | 23.4 – 47.0 | | | 27.8 ± 3.65 (49) | 19.7 – 47.0 | |
| | | | Tail | 77.3 ± 5.07 (15) | 72.0 – 93.0 | 78.9 ± 5.05 (32) | 74.0 – 104.0 | | | 78.4 ± 5.05 (47) | 72.0 – 104.0 | |
| | | | Tarsus | 23.4 ± 0.83 (14) | 22.1 – 24.6 | 24.3 ± 1.03 (30) | 22.6 – 27.2 | | | 24.0 ± 1.04 (44) | 22.1 – 27.2 | |
| | | | Wing | 92.4 ± 1.45 (16) | 90.0 – 95.0 | 93.1 ± 3.27 (34) | 83.0 – 97.0 | | | 92.9 ± 2.82 (60) | 83.0 – 97.0 | |
| | <i>Lanius minor</i> (Lesser Grey Shrike – 706) | | | | | | | | | | | |
| | | monotypic | Culmen | 23.2 ± 0.91 (12) | 22.0 – 25.1 | 22.8 ± 1.26 (18) | 21.4 – 25.1 | | | 22.9 ± 1.06 (43) | 21.4 – 25.1 | |
| | | | Head | 42.6 ± 0.88 (12) | 41.2 – 43.8 | 43.6 ± 1.21 (18) | 41.7 – 45.6 | | | 43.0 ± 1.27 (43) | 40.4 – 46.0 | |
| | | | Mass | 44.8 ± 5.14 (12) | 39.2 – 58.0 | 45.1 ± 2.56 (17) | 40.7 – 48.6 | | | 45.1 ± 4.58 (42) | 37.5 – 61.2 | |
| | | | Tail | 92.2 ± 3.28 (11) | 87.0 – 96.0 | 93.3 ± 5.43 (18) | 80.0 – 104.0 | | | 92.4 ± 4.38 (41) | 80.0 – 104.0 | |
| | | | Tarsus | 25.0 ± 0.91 (12) | 23.6 – 26.9 | 25.2 ± 0.94 (18) | 23.0 – 26.8 | | | 25.2 ± 0.9 (43) | 23.0 – 27.7 | |
| | | | Wing | 116.3 ± 3.22 (12) | 110.0 – 122.0 | 115.6 ± 4.02 (19) | 109.0 – 123.0 | | | 116.0 ± 3.22 (44) | 109.0 – 123.0 | |
| | Leiothrichidae (Laughingthrushes and Allies) | | | | | | | | | | | |
| | <i>Turdoides bicolor</i> (Southern Pied Babbler – 536) | | | | | | | | | | | |
| | | monotypic | Culmen | 29.9 ± 0.49 (2) | 29.5 – 30.2 | | | | | 30.0 ± 1.15 (19) | 27.6 – 32.7 | |
| | | | Head | 51.8 ± 0.14 (2) | 51.7 – 51.9 | | | | | 52.8 ± 1.47 (19) | 50.8 – 55.6 | |
| | | | Mass | 72.4 ± 1.77 (2) | 71.1 – 73.6 | | | | | 73.7 ± 6.75 (19) | 62.7 – 88.5 | |
| | | | Tail | 112.0 ± 1.41 (2) | 111.0 – 113.0 | | | | | 113.0 ± 5.76 (17) | 100.0 – 123.0 | |
| | | | Tarsus | 34.6 ± 0.42 (2) | 34.3 – 34.9 | | | | | 34.8 ± 1.56 (19) | 31.6 – 38.5 | |
| | | | Wing | 110.5 ± 2.12 (2) | 109.0 – 112.0 | | | | | 113.0 ± 2.38 (19) | 110.0 – 117.0 | |



| Family | Species | Subspecies | Measurement | Female | | | Male | | | Unknown | | | Total | | | | | | | | | | | | | | | | |
|--|---------|------------|---|------------------|---------------|---------------|-------|---------------|-------------------|---------------|-------------------|---------------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | | | | | | | | | | | | | | | | |
| <i>Turdoides gymnogenys</i> (Bare-cheeked Babbler – 537) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>T. g. kaokensis</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Culmen | 29.0 ± 1.01 (3) | 28.1 – 30.1 | 28.4 ± 0 (1) | | | 27.2 ± 2.10 (3) | 24.8 – 28.7 | 28.1 ± 1.62 (7) | 24.8 – 30.1 | | | | | | | | | | | | | | | | | |
| | | | Head | 52.6 ± 0.87 (3) | 51.9 – 53.6 | 54.7 ± 0 (1) | | | 53.2 ± 1.32 (3) | 51.7 – 54.2 | 53.2 ± 1.17 (7) | 51.7 – 54.2 | | | | | | | | | | | | | | | | | |
| | | | Mass | 76.3 ± 1.51 (3) | 75.2 – 78.0 | 79.0 ± 0 (1) | | | 68.1 ± 2.80 (3) | 65.0 – 70.4 | 73.2 ± 5.15 (7) | 65.0 – 79.0 | | | | | | | | | | | | | | | | | |
| | | | Tail | 101.0 ± 3.46 (3) | 97.0 – 103.0 | 107.0 ± 0 (1) | | | 100.3 ± 3.21 (3) | 98.0 – 104.0 | 101.6 ± 3.64 (7) | 97.0 – 107.0 | | | | | | | | | | | | | | | | | |
| | | | Tarsus | 34.2 ± 1.50 (3) | 32.5 – 35.2 | 34.4 ± 0 (1) | | | 33.7 ± 0.53 (3) | 33.3 – 34.3 | 34.0 ± 0.97 (7) | 32.5 – 35.2 | | | | | | | | | | | | | | | | | |
| | | | Wing | 116.7 ± 0.58 (3) | 116.0 – 117.0 | 118.0 ± 0 (1) | | | 111.7 ± 5.77 (3) | 105.0 – 115.0 | 114.7 ± 4.42 (7) | 105.0 – 118.0 | | | | | | | | | | | | | | | | | |
| | | | <i>Turdoides hartlaubii</i> (Hartlaub's Babbler – 535) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | <i>T. h. griseoquamatus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Culmen | 24.7 ± 1.40 (5) | 23.4 – 26.8 | | | | 24.9 ± 0 (1) | | 24.7 ± 1.26 (6) | 23.4 – 26.8 | | | | | | | | | | | | | | | | | |
| | | | Head | 49.9 ± 1.09 (5) | 48.1 – 51.0 | | | | 47.9 ± 0 (1) | | 49.6 ± 1.27 (6) | 47.9 – 51.0 | | | | | | | | | | | | | | | | | |
| | | | Mass | 86.8 ± 2.05 (4) | 84.0 – 88.6 | | | | 76.1 ± 0 (1) | | 84.7 ± 5.10 (5) | 76.1 – 88.6 | | | | | | | | | | | | | | | | | |
| | | | Tail | 113.0 ± 3.67 (5) | 110.0 – 117.0 | | | | 109.0 ± 0 (1) | | 112.3 ± 3.67 (6) | 109.0 – 117.0 | | | | | | | | | | | | | | | | | |
| | | | Tarsus | 37.3 ± 1.35 (5) | 35.1 – 38.6 | | | | 34.5 ± 0 (1) | | 36.8 ± 1.65 (6) | 34.5 – 38.6 | | | | | | | | | | | | | | | | | |
| | | | Wing | 116.4 ± 1.52 (5) | 115.0 – 118.0 | | | | 113.0 ± 0 (1) | | 115.8 ± 1.94 (6) | 113.0 – 118.0 | | | | | | | | | | | | | | | | | |
| | | | <i>T. h. hartlaubii</i> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Culmen | 25.7 ± 0.42 (2) | 25.4 – 26.0 | | | | 27.9 ± 1.77 (2) | 26.6 – 29.1 | 26.8 ± 1.63 (4) | 25.4 – 29.1 | | | | | | | | | | | | | | | | | |
| | | | Head | 49.9 ± 0.71 (2) | 49.4 – 50.4 | | | | 44.9 ± 6.86 (2) | 40.0 – 49.7 | 47.4 ± 4.93 (4) | 40.0 – 50.4 | | | | | | | | | | | | | | | | | |
| | | | Mass | 81.7 ± 0.71 (2) | 81.2 – 82.2 | | | | 78.8 ± 4.88 (2) | 75.3 – 82.2 | 80.2 ± 3.32 (4) | 75.3 – 82.2 | | | | | | | | | | | | | | | | | |
| | | | Tail | 112.5 ± 0.71 (2) | 112.0 – 113.0 | | | | 110.5 ± 2.12 (2) | 109.0 – 112.0 | 111.5 ± 1.73 (4) | 109.0 – 113.0 | | | | | | | | | | | | | | | | | |
| | | | Tarsus | 36.8 ± 0.07 (2) | 36.7 – 36.8 | | | | 37.1 ± 0.57 (2) | 36.7 – 37.5 | 36.9 ± 0.39 (4) | 36.7 – 37.5 | | | | | | | | | | | | | | | | | |
| | | | Wing | 112.5 ± 2.12 (2) | 111.0 – 114.0 | | | | 113.5 ± 0.71 (2) | 113.0 – 114.0 | 113.0 ± 1.41 (4) | 111.0 – 114.0 | | | | | | | | | | | | | | | | | |
| | | | mixed ssp | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Culmen | | | 27.0 ± 0 (1) | | | 25.9 ± 1.39 (5) | 24.0 – 27.4 | 26.1 ± 1.32 (6) | 24.0 – 27.4 | | | | | | | | | | | | | | | | | |
| | | | Head | | | 50.2 ± 0 (1) | | | 49.4 ± 0.53 (5) | 48.8 – 50.0 | 49.5 ± 0.58 (6) | 48.8 – 50.2 | | | | | | | | | | | | | | | | | |
| | | | Mass | | | 88.8 ± 0 (1) | | | 84.6 ± 5.35 (7) | 76.3 – 92.0 | 85.1 ± 5.17 (8) | 76.3 – 92.0 | | | | | | | | | | | | | | | | | |
| | | | Tail | | | 108.0 ± 0 (1) | | | 113.6 ± 4.20 (7) | 107.0 – 120.0 | 112.9 ± 4.36 (8) | 107.0 – 120.0 | | | | | | | | | | | | | | | | | |
| | | | Tarsus | | | 37.7 ± 0 (1) | | | 36.4 ± 0.52 (4) | 35.8 – 37.0 | 36.6 ± 0.75 (5) | 35.8 – 37.0 | | | | | | | | | | | | | | | | | |
| | | | Wing | | | 106.0 ± 0 (1) | | | 117.3 ± 3.09 (7) | 114.0 – 123.0 | 115.9 ± 4.91 (8) | 106.0 – 123.0 | | | | | | | | | | | | | | | | | |
| | | | <i>Turdoides jarlainei</i> (Arrow-marked Babbler – 533) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | <i>T. j. tamalakanei</i> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Culmen | 25.2 ± 2.83 (2) | 23.2 – 27.2 | | | | 23.6 ± 1.44 (11) | 21.4 – 26.3 | 23.8 ± 1.67 (13) | 21.4 – 27.2 | | | | | | | | | | | | | | | | | |
| | | | Head | 48.7 ± 0.71 (2) | 48.2 – 49.2 | | | | 48.0 ± 0.58 (11) | 47.4 – 49.3 | 48.1 ± 0.62 (13) | 47.4 – 49.3 | | | | | | | | | | | | | | | | | |
| | | | Mass | 77.2 ± 0.21 (2) | 77.0 – 77.3 | | | | 74.6 ± 3.32 (9) | 71.3 – 81.0 | 75.1 ± 3.14 (11) | 71.3 – 81.0 | | | | | | | | | | | | | | | | | |
| | | | Tail | 108.0 ± 0 (1) | | | | | 112.5 ± 3.78 (11) | 108.0 – 119.0 | 112.1 ± 3.82 (12) | 108.0 – 119.0 | | | | | | | | | | | | | | | | | |
| | | | Tarsus | 34.4 ± 0.49 (2) | 34.0 – 34.7 | | | | 34.3 ± 1.16 (11) | 32.5 – 35.8 | 34.3 ± 1.07 (13) | 32.5 – 35.8 | | | | | | | | | | | | | | | | | |
| | | | Wing | 112.0 ± 5.66 (2) | 108.0 – 116 | | | | 111.5 ± 2.42 (11) | 108.0 – 115.0 | 111.5 ± 2.76 (13) | 108.0 – 116.0 | | | | | | | | | | | | | | | | | |

| Family | Species | Subspecies | Measurement | Female | | | Male | | | Unknown | | | Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------------------------|------------|-------------|---------------|-------|------------------|---------------|---------------|-------|------------------|---------------|---------------|-------|------------------|---------------|--|--|------------------|---------------|--|--|------------------|---------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Turdoides melanops</i> (Black-faced Babbler – 534) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <i>T. m. melanops</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Culmen | | | 29.0 ± 1.34 (2) | 28.0 – 29.9 | | | 29.0 ± 1.34 (2) | 28.0 – 29.9 | | | 29.0 ± 1.34 (2) | 28.0 – 29.9 | | | 29.0 ± 1.34 (2) | 28.0 – 29.9 | | | 29.0 ± 1.34 (2) | 28.0 – 29.9 | | | | | | | | | | | | | | | | | | |
| | | | Head | | | 54.2 ± 2.40 (2) | 52.5 – 55.9 | | | 54.2 ± 2.40 (2) | 52.5 – 55.9 | | | 54.2 ± 2.40 (2) | 52.5 – 55.9 | | | 54.2 ± 2.40 (2) | 52.5 – 55.9 | | | 54.2 ± 2.40 (2) | 52.5 – 55.9 | | | | | | | | | | | | | | | | | | |
| | | | Mass | | | 83.4 ± 3.32 (2) | 81.0 – 85.7 | | | 83.4 ± 3.32 (2) | 81.0 – 85.7 | | | 83.4 ± 3.32 (2) | 81.0 – 85.7 | | | 83.4 ± 3.32 (2) | 81.0 – 85.7 | | | 83.4 ± 3.32 (2) | 81.0 – 85.7 | | | | | | | | | | | | | | | | | | |
| | | | Tail | | | 122.0 ± 1.41 (2) | 121.0 – 123.0 | | | 122.0 ± 1.41 (2) | 121.0 – 123.0 | | | 122.0 ± 1.41 (2) | 121.0 – 123.0 | | | 122.0 ± 1.41 (2) | 121.0 – 123.0 | | | 122.0 ± 1.41 (2) | 121.0 – 123.0 | | | | | | | | | | | | | | | | | | |
| | | | Tarsus | | | 38.0 ± 1.70 (2) | 36.8 – 39.2 | | | 38.0 ± 1.70 (2) | 36.8 – 39.2 | | | 38.0 ± 1.70 (2) | 36.8 – 39.2 | | | 38.0 ± 1.70 (2) | 36.8 – 39.2 | | | 38.0 ± 1.70 (2) | 36.8 – 39.2 | | | | | | | | | | | | | | | | | | |
| | | | Wing | | | 118.0 ± 0 (2) | 118.0 – 118.0 | | | 118.0 ± 0 (2) | 118.0 – 118.0 | | | 118.0 ± 0 (2) | 118.0 – 118.0 | | | 118.0 ± 0 (2) | 118.0 – 118.0 | | | 118.0 ± 0 (2) | 118.0 – 118.0 | | | | | | | | | | | | | | | | | | |
| | <i>T. m. querulus</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Culmen | | | 24.4 ± 0 (1) | | | | 24.4 ± 0 (1) | | | | 24.4 ± 0 (1) | | | | 24.4 ± 0 (1) | | | | 24.4 ± 0 (1) | | | | | | | | | | | | | | | | | | | |
| | | | Head | | | 50.4 ± 0 (1) | | | | 50.4 ± 0 (1) | | | | 50.4 ± 0 (1) | | | | 50.4 ± 0 (1) | | | | 50.4 ± 0 (1) | | | | | | | | | | | | | | | | | | | |
| | | | Tail | | | 118.0 ± 0 (1) | | | | 118.0 ± 0 (1) | | | | 118.0 ± 0 (1) | | | | 118.0 ± 0 (1) | | | | 118.0 ± 0 (1) | | | | | | | | | | | | | | | | | | | |
| | | | Tarsus | | | 37.8 ± 0 (1) | | | | 37.8 ± 0 (1) | | | | 37.8 ± 0 (1) | | | | 37.8 ± 0 (1) | | | | 37.8 ± 0 (1) | | | | | | | | | | | | | | | | | | | |
| | | | Wing | | | 118.0 ± 0 (1) | | | | 118.0 ± 0 (1) | | | | 118.0 ± 0 (1) | | | | 118.0 ± 0 (1) | | | | 118.0 ± 0 (1) | | | | | | | | | | | | | | | | | | | |
| Macrosphenidae (Crombeas, African Warblers) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Sylvietta rufescens</i> (Long-billed Crombec – 621) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <i>S. r. flecki</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Culmen | | | 19.3 ± 0 (1) | | | | 19.3 ± 0 (1) | | | | 19.3 ± 0 (1) | | | | 19.3 ± 0 (1) | | | | 19.3 ± 0 (1) | | | | | | | | | | | | | | | | | | | |
| | | | Head | | | 32.1 ± 0 (1) | | | | 32.1 ± 0 (1) | | | | 32.1 ± 0 (1) | | | | 32.1 ± 0 (1) | | | | 32.1 ± 0 (1) | | | | | | | | | | | | | | | | | | | |
| | | | Mass | | | 11.8 ± 1.32 (3) | 10.4 – 13.0 | | | 11.8 ± 1.32 (3) | 10.4 – 13.0 | | | 11.8 ± 1.32 (3) | 10.4 – 13.0 | | | 11.8 ± 1.32 (3) | 10.4 – 13.0 | | | 11.8 ± 1.32 (3) | 10.4 – 13.0 | | | | | | | | | | | | | | | | | | |
| | | | Tail | | | 27.0 ± 0 (1) | | | | 27.0 ± 0 (1) | | | | 27.0 ± 0 (1) | | | | 27.0 ± 0 (1) | | | | 27.0 ± 0 (1) | | | | | | | | | | | | | | | | | | | |
| | | | Tarsus | | | 21.2 ± 0 (1) | | | | 21.2 ± 0 (1) | | | | 21.2 ± 0 (1) | | | | 21.2 ± 0 (1) | | | | 21.2 ± 0 (1) | | | | | | | | | | | | | | | | | | | |
| | | | Wing | | | 60.7 ± 2.52 (3) | 58.0 – 63.0 | | | 60.7 ± 2.52 (3) | 58.0 – 63.0 | | | 60.7 ± 2.52 (3) | 58.0 – 63.0 | | | 60.7 ± 2.52 (3) | 58.0 – 63.0 | | | 60.7 ± 2.52 (3) | 58.0 – 63.0 | | | | | | | | | | | | | | | | | | |
| | <i>S. r. ochrocarra</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Culmen | | | 18.3 ± 1.69 (8) | 16.3 – 21.6 | | | 18.3 ± 1.69 (8) | 16.3 – 21.6 | | | 18.3 ± 1.69 (8) | 16.3 – 21.6 | | | 18.3 ± 1.69 (8) | 16.3 – 21.6 | | | 18.3 ± 1.69 (8) | 16.3 – 21.6 | | | | | | | | | | | | | | | | | | |
| | | | Head | | | 32.5 ± 1.26 (8) | 31.0 – 34.2 | | | 32.5 ± 1.26 (8) | 31.0 – 34.2 | | | 32.5 ± 1.26 (8) | 31.0 – 34.2 | | | 32.5 ± 1.26 (8) | 31.0 – 34.2 | | | 32.5 ± 1.26 (8) | 31.0 – 34.2 | | | | | | | | | | | | | | | | | | |
| | | | Mass | | | 11.6 ± 1.22 (8) | 10.8 – 12.8 | | | 11.6 ± 1.22 (8) | 10.8 – 12.8 | | | 11.6 ± 1.22 (8) | 10.8 – 12.8 | | | 11.6 ± 1.22 (8) | 10.8 – 12.8 | | | 11.6 ± 1.22 (8) | 10.8 – 12.8 | | | | | | | | | | | | | | | | | | |
| | | | Tail | | | 27.6 ± 2.83 (8) | 23.0 – 33.0 | | | 27.6 ± 2.83 (8) | 23.0 – 33.0 | | | 27.6 ± 2.83 (8) | 23.0 – 33.0 | | | 27.6 ± 2.83 (8) | 23.0 – 33.0 | | | 27.6 ± 2.83 (8) | 23.0 – 33.0 | | | | | | | | | | | | | | | | | | |
| | | | Tarsus | | | 19.7 ± 1.06 (8) | 18.3 – 22.0 | | | 19.7 ± 1.06 (8) | 18.3 – 22.0 | | | 19.7 ± 1.06 (8) | 18.3 – 22.0 | | | 19.7 ± 1.06 (8) | 18.3 – 22.0 | | | 19.7 ± 1.06 (8) | 18.3 – 22.0 | | | | | | | | | | | | | | | | | | |
| | | | Wing | | | 62.4 ± 2.33 (8) | 58.0 – 65.0 | | | 62.4 ± 2.33 (8) | 58.0 – 65.0 | | | 62.4 ± 2.33 (8) | 58.0 – 65.0 | | | 62.4 ± 2.33 (8) | 58.0 – 65.0 | | | 62.4 ± 2.33 (8) | 58.0 – 65.0 | | | | | | | | | | | | | | | | | | |
| Malaconotidae (Bushshrikes) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Dioscopus cubla</i> (Black-backed Puffback – 712) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <i>D. c. okavangoensis</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Culmen | | | 22.0 ± 1.29 (4) | 20.6 – 23.7 | | | 22.0 ± 1.29 (4) | 20.6 – 23.7 | | | 22.0 ± 1.29 (4) | 20.6 – 23.7 | | | 22.0 ± 1.29 (4) | 20.6 – 23.7 | | | 22.0 ± 1.29 (4) | 20.6 – 23.7 | | | | | | | | | | | | | | | | | | |
| | | | Head | | | 39.6 ± 1.41 (4) | 38.2 – 41.5 | | | 39.6 ± 1.41 (4) | 38.2 – 41.5 | | | 39.6 ± 1.41 (4) | 38.2 – 41.5 | | | 39.6 ± 1.41 (4) | 38.2 – 41.5 | | | 39.6 ± 1.41 (4) | 38.2 – 41.5 | | | | | | | | | | | | | | | | | | |
| | | | Mass | | | 24.9 ± 1.88 (4) | 22.5 – 26.7 | | | 24.9 ± 1.88 (4) | 22.5 – 26.7 | | | 24.9 ± 1.88 (4) | 22.5 – 26.7 | | | 24.9 ± 1.88 (4) | 22.5 – 26.7 | | | 24.9 ± 1.88 (4) | 22.5 – 26.7 | | | | | | | | | | | | | | | | | | |
| | | | Tail | | | 66.3 ± 2.87 (4) | 64.0 – 70.0 | | | 66.3 ± 2.87 (4) | 64.0 – 70.0 | | | 66.3 ± 2.87 (4) | 64.0 – 70.0 | | | 66.3 ± 2.87 (4) | 64.0 – 70.0 | | | 66.3 ± 2.87 (4) | 64.0 – 70.0 | | | | | | | | | | | | | | | | | | |



| Family | Species | Subspecies | Measurement | Female | | | Male | | | Total | | |
|--|--------------------------|------------|------------------|---------------|------------------|---------------|-------------------|-----------------|-------------------|---------------|-------|--|
| | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | |
| <i>Laniarius major</i> (Tropical Boubou – 977) | <i>L. m. mossambicus</i> | Tarsus | 23.0 ± 0 (1) | | 22.5 ± 0.87 (4) | 21.4 – 23.4 | 22.6 ± 0.79 (5) | 21.4 – 23.4 | 22.6 ± 0.79 (5) | 21.4 – 23.4 | | |
| | | Wing | 78.0 ± 0 (1) | | 82.0 ± 2.16 (4) | 79.0 – 84.0 | 81.2 ± 2.59 (5) | 78.0 – 84.0 | 81.2 ± 2.59 (5) | 78.0 – 84.0 | | |
| <i>Laniarius atrococcineus</i> (Crimson-breasted Shrike – 711) | monotypic | Culmen | 27.2 ± 0.49 (2) | 26.8 – 27.5 | 27.1 ± 1.11 (9) | 25.5 – 29.1 | 26.1 ± 0.93 (22) | 24.6 – 28.1 | 26.3 ± 1.57 (3) | 24.5 – 27.5 | | |
| | | Head | 47.1 ± 0.07 (2) | 47.0 – 47.1 | 46.7 ± 1.32 (9) | 44.2 – 48.6 | 46.6 ± 1.29 (22) | 44.4 – 49.0 | 47.3 ± 0.44 (3) | 47.0 – 47.8 | | |
| | | Mass | 44.2 ± 4.38 (2) | 41.1 – 47.3 | 46.3 ± 3.34 (9) | 40.3 – 51.5 | 46.5 ± 2.75 (22) | 41.8 – 51.0 | 46.2 ± 1.17 (69) | 41.1 – 50.2 | | |
| | | Tail | 98.5 ± 2.12 (2) | 97.0 – 100.0 | 103.8 ± 5.80 (8) | 98.0 – 117.0 | 103.8 ± 3.92 (21) | 95.0 – 113.0 | 103.3 ± 4.75 (67) | 97.0 – 108.0 | | |
| | | Tarsus | 33.4 ± 1.13 (2) | 32.6 – 34.2 | 33.3 ± 1.07 (9) | 31.7 – 34.9 | 33.4 ± 0.93 (22) | 31.7 – 34.9 | 33.2 ± 1.06 (67) | 32.6 – 34.2 | | |
| | | Wing | 99.0 ± 8.49 (2) | 93.0 – 105.0 | 98.6 ± 3.75 (9) | 92.0 – 103.0 | 101.1 ± 3.82 (22) | 92.0 – 105.0 | 98.7 ± 6.03 (3) | 93.0 – 105.0 | | |
| <i>Laniarius bicolor</i> (Swamp Boubou – 710) | <i>L. b. sticturus</i> | Culmen | 27.5 ± 0.95 (5) | 26.3 – 28.7 | 28.3 ± 0 (1) | | 26.7 ± 2.96 (3) | 23.6 – 29.5 | 27.3 ± 1.71 (9) | 23.6 – 29.5 | | |
| | | Head | 48.8 ± 1.87 (5) | 47.0 – 51.2 | 49.6 ± 0 (1) | | 48.0 ± 0.85 (3) | 47.1 – 48.8 | 48.6 ± 1.49 (9) | 47.0 – 51.2 | | |
| | | Mass | 52.7 ± 2.37 (5) | 49.6 – 55.4 | 58.7 ± 0 (1) | | 50.0 ± 1.11 (3) | 49.0 – 51.2 | 52.5 ± 3.20 (9) | 49.0 – 58.7 | | |
| | | Tail | 106.4 ± 3.21 (5) | 103.0 – 111.0 | 104.0 ± 0 (1) | | 104.3 ± 4.16 (3) | 101.0 – 109.0 | 105.4 ± 3.28 (9) | 101.0 – 111.0 | | |
| | | Tarsus | 35.6 ± 1.67 (5) | 33.8 – 38.3 | 35.2 ± 0 (1) | | 33.5 ± 2.02 (3) | 31.2 – 35.0 | 34.9 ± 1.87 (9) | 31.2 – 38.3 | | |
| | | Wing | 106.4 ± 3.36 (5) | 102.0 – 111.0 | 106.0 ± 0 (1) | | 103.3 ± 1.53 (3) | 102.0 – 105.0 | 105.3 ± 2.92 (9) | 102.0 – 111.0 | | |
| <i>Nilaus afer</i> (Brubru – 731) | <i>N. a. brubru</i> | Culmen | 21.0 ± 2.45 (3) | 18.2 – 22.5 | 20.5 ± 1.94 (4) | 17.8 – 22.4 | 17.8 ± 0 (1) | 20.4 ± 2.12 (8) | 17.8 – 22.5 | | | |
| | | Head | 38.1 ± 0.46 (3) | 37.6 – 38.5 | 37.9 ± 1.42 (4) | 36.4 – 39.7 | 37.6 ± 0 (1) | 38.0 ± 0.97 (8) | 36.4 – 39.7 | | | |
| | | Mass | 22.0 ± 0.75 (3) | 21.3 – 22.8 | 23.7 ± 2.05 (4) | 20.9 – 25.8 | 24.2 ± 0 (1) | 23.2 ± 1.69 (8) | 20.9 – 25.8 | | | |
| | | Tail | 55.7 ± 1.15 (3) | 55.0 – 57.0 | 57.7 ± 2.08 (3) | 56.0 – 60.0 | 55.0 ± 0 (1) | 56.4 ± 1.81 (7) | 55.0 – 60.0 | | | |
| | | Tarsus | 23.0 ± 1.10 (3) | 21.9 – 24.1 | 23.8 ± 1.52 (4) | 22.0 – 25.4 | 23.4 ± 0 (1) | 23.4 ± 1.32 (7) | 21.9 – 25.4 | | | |
| | | Wing | 83.7 ± 1.53 (3) | 82.0 – 85.0 | 85.8 ± 2.5 (4) | 82.0 – 87.0 | 87.0 ± 0 (1) | 85.1 ± 2.23 (8) | 82.0 – 87.0 | | | |
| <i>Tchagra australis</i> (Brown-crowned Tchagra – 714) | <i>T. a. damarensis</i> | Culmen | 21.9 ± 0.57 (6) | 21.5 – 23.0 | 22.1 ± 0.21 (2) | 21.9 – 22.2 | 21.5 ± 1.16 (13) | 19.9 – 23.5 | 21.6 ± 0.98 (21) | 19.9 – 23.5 | | |
| | | Head | 41.3 ± 0.78 (6) | 40.4 – 42.2 | 42.1 ± 0.35 (2) | 41.8 – 42.3 | 40.8 ± 0.92 (13) | 39.2 – 42.4 | 41.1 ± 0.90 (21) | 39.2 – 42.4 | | |

| Family | Species | Subspecies | Measurement | Female | | | Male | | | Total | | | |
|---------------------------------|--|------------|-------------|-------------------|------------------|-------------------|------------------|--------------------|------------------|--------------------|------------------|-----------------|-------------|
| | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | | |
| Monarchidae (Monarchs) | <i>T. a. rhodesiensis</i> | | Mass | 31.7 ± 1.90 (6) | 29.9 – 34.0 | 33.2 ± 1.56 (2) | 32.1 – 34.3 | 31.1 ± 1.31 (12) | 29.1 – 33.7 | 31.5 ± 1.58 (20) | 29.1 – 34.3 | | |
| | | | Tail | 94.2 ± 5.34 (6) | 88.0 – 103.0 | 96.5 ± 6.36 (2) | 92.0 – 101.0 | 91.9 ± 5.17 (11) | 82.0 – 100.0 | 93.1 ± 5.25 (19) | 82.0 – 103.0 | | |
| | | | Tarsus | 26.3 ± 1.43 (6) | 23.6 – 27.7 | 27.2 ± 1.27 (2) | 26.3 – 28.1 | 26.0 ± 0.85 (13) | 25.0 – 27.5 | 26.2 ± 1.08 (21) | 23.6 – 28.1 | | |
| | | | Wing | 77.2 ± 2.71 (6) | 74.0 – 80.0 | 85.0 ± 4.24 (2) | 82.0 – 88.0 | 77.1 ± 1.55 (13) | 74.0 – 79.0 | 77.9 ± 3.14 (21) | 74.0 – 88.0 | | |
| | | | Culmen | | | | | 21.7 ± 2.47 (2) | 19.9 – 23.4 | 21.7 ± 2.47 (2) | 19.9 – 23.4 | 21.7 ± 2.47 (2) | 19.9 – 23.4 |
| | | | Head | | | | | 41.5 ± 0.07 (2) | 41.4 – 41.5 | 41.5 ± 0.07 (2) | 41.4 – 41.5 | 41.5 ± 0.07 (2) | 41.4 – 41.5 |
| | <i>T. z. thermophilus</i> | | | Mass | | | | | 31.6 ± 2.19 (2) | 30.0 – 33.1 | 31.6 ± 2.19 (2) | 30.0 – 33.1 | |
| | | | | Tail | | | | | 94.0 ± 8.49 (2) | 88.0 – 100.0 | 94.0 ± 8.49 (2) | 88.0 – 100.0 | |
| | | | | Tarsus | | | | | 26.2 ± 0.64 (2) | 25.7 – 26.6 | 26.2 ± 0.64 (2) | 25.7 – 26.6 | |
| | | | | Wing | | | | | 77.5 ± 0.71 (2) | 77.0 – 78.0 | 77.5 ± 0.71 (2) | 77.0 – 78.0 | |
| | | | | Culmen | | | | | 28.3 ± 2.11 (17) | 23.8 – 32.2 | 28.3 ± 2.11 (17) | 23.8 – 32.2 | |
| | | | | Head | | | | | 52.1 ± 1.70 (17) | 48.7 – 54.2 | 51.4 ± 2.44 (41) | 40.0 – 54.2 | |
| Monarchidae (Monarchs) | <i>Terpsiphone viridis</i> (African Paradise Flycatcher – 682) | | Mass | 54.7 ± 5.82 (20) | 42.0 – 66.2 | 55.0 ± 3.23 (5) | 51.5 – 58.5 | 56.2 ± 4.88 (16) | 46.1 – 62.8 | 55.3 ± 5.16 (41) | 42.0 – 66.2 | | |
| | | | Tail | 95.2 ± 4.49 (17) | 89.0 – 110.0 | 95.6 ± 10.97 (5) | 81.0 – 110.0 | 97.2 ± 3.73 (17) | 93.0 – 104.0 | 96.1 ± 5.29 (39) | 81.0 – 110.0 | | |
| | | | Tarsus | 32.8 ± 1.51 (19) | 30.8 – 35.6 | 33.1 ± 1.66 (5) | 31.3 – 35.8 | 32.4 ± 0.97 (16) | 30.7 – 33.8 | 32.7 ± 1.33 (40) | 30.7 – 35.8 | | |
| | | | Wing | 96.8 ± 3.19 (20) | 90.0 – 102.0 | 99.6 ± 5.13 (5) | 96.0 – 107.0 | 97.7 ± 4.09 (17) | 91.0 – 105.0 | 97.5 ± 3.83 (42) | 90.0 – 107.0 | | |
| | | | Culmen | 28.5 ± 1.32 (19) | 24.8 – 31.0 | 28.8 ± 1.31 (5) | 27.0 – 30.1 | 28.3 ± 2.11 (17) | 23.8 – 32.2 | 28.5 ± 1.66 (41) | 23.8 – 32.2 | | |
| | | | Head | 50.6 ± 3.01 (19) | 40.0 – 52.9 | 51.6 ± 1.52 (5) | 49.1 – 53.0 | 52.1 ± 1.70 (17) | 48.7 – 54.2 | 51.4 ± 2.44 (41) | 40.0 – 54.2 | | |
| | <i>T. v. plumbeiceps</i> | | | Mass | 54.7 ± 5.82 (20) | 42.0 – 66.2 | 55.0 ± 3.23 (5) | 51.5 – 58.5 | 56.2 ± 4.88 (16) | 46.1 – 62.8 | 55.3 ± 5.16 (41) | 42.0 – 66.2 | |
| | | | | Tail | 95.2 ± 4.49 (17) | 89.0 – 110.0 | 95.6 ± 10.97 (5) | 81.0 – 110.0 | 97.2 ± 3.73 (17) | 93.0 – 104.0 | 96.1 ± 5.29 (39) | 81.0 – 110.0 | |
| | | | | Tarsus | 32.8 ± 1.51 (19) | 30.8 – 35.6 | 33.1 ± 1.66 (5) | 31.3 – 35.8 | 32.4 ± 0.97 (16) | 30.7 – 33.8 | 32.7 ± 1.33 (40) | 30.7 – 35.8 | |
| | | | | Wing | 96.8 ± 3.19 (20) | 90.0 – 102.0 | 99.6 ± 5.13 (5) | 96.0 – 107.0 | 97.7 ± 4.09 (17) | 91.0 – 105.0 | 97.5 ± 3.83 (42) | 90.0 – 107.0 | |
| | | | | Culmen | 19.4 ± 1.04 (11) | 18.0 – 21.0 | 19.0 ± 1.54 (5) | 16.5 – 20.6 | 17.0 ± 0.97 (7) | 15.1 – 18.0 | 17.7 ± 1.11 (14) | 15.1 – 19.6 | |
| | | | | Head | 36.2 ± 0.94 (11) | 35.0 – 37.6 | 36.4 ± 0.72 (5) | 35.5 – 37.4 | 35.5 ± 1.21 (7) | 34.3 – 37.8 | 35.6 ± 0.86 (14) | 34.3 – 37.8 | |
| Motacillidae (Wagtails, Pipits) | <i>Arrethusa cinnamomeus</i> (African Pipit – 692) | | Mass | 15.1 ± 2.04 (11) | 12.4 – 19.7 | 14.9 ± 0.71 (5) | 14.5 – 16.2 | 15.0 ± 1.71 (16) | 12.4 – 19.7 | 15.0 ± 1.71 (16) | 12.4 – 19.7 | | |
| | | | Tail | 100.5 ± 8.29 (11) | 86.0 – 111.0 | 195.4 ± 86.05 (5) | 95.0 – 277.0 | 130.2 ± 63.54 (16) | 86.0 – 277.0 | 130.2 ± 63.54 (16) | 86.0 – 277.0 | | |
| | | | Tarsus | 15.8 ± 0.39 (11) | 15.2 – 16.3 | 16.8 ± 1.33 (5) | 15.7 – 19.0 | 16.1 ± 0.89 (16) | 15.2 – 19.0 | 16.1 ± 0.89 (16) | 15.2 – 19.0 | | |
| | | | Wing | 80.5 ± 2.11 (11) | 76.0 – 83.0 | 83.8 ± 1.92 (5) | 81.0 – 86.0 | 81.5 ± 2.56 (16) | 76.0 – 86.0 | 81.5 ± 2.56 (16) | 76.0 – 86.0 | | |
| | | | Culmen | 18.6 ± 0.78 (2) | 18.0 – 19.1 | 18.4 ± 0.84 (5) | 17.4 – 19.6 | 17.0 ± 0.97 (7) | 15.1 – 18.0 | 17.7 ± 1.11 (14) | 15.1 – 19.6 | | |
| | | | Head | 35.9 ± 0.42 (2) | 35.6 – 36.2 | 35.6 ± 0.29 (5) | 35.1 – 35.8 | 35.5 ± 1.21 (7) | 34.3 – 37.8 | 35.6 ± 0.86 (14) | 34.3 – 37.8 | | |
| | <i>A. c. grateri</i> | | | Mass | 21.3 ± 0.07 (2) | 21.2 – 21.3 | 22.5 ± 1.66 (5) | 20.6 – 24.2 | 21.8 ± 1.25 (7) | 20.1 – 23.5 | 22.0 ± 1.33 (14) | 20.1 – 24.2 | |
| | | | | Tail | 64.5 ± 7.78 (2) | 59.0 – 70.0 | 67.2 ± 3.70 (5) | 64.0 – 73.0 | 66.3 ± 8.42 (6) | 58.0 – 82.5 | 66.3 ± 6.33 (13) | 58.0 – 82.5 | |
| | | | | Tarsus | 27.1 ± 0.07 (2) | 27.0 – 27.1 | 27.4 ± 0.90 (5) | 26.5 – 28.8 | 26.9 ± 0.72 (7) | 26.0 – 27.9 | 27.1 ± 0.73 (14) | 26.0 – 28.8 | |
| | | | | Wing | 85.0 ± 2.83 (2) | 83.0 – 87.0 | 88.2 ± 2.17 (5) | 85.0 – 91.0 | 84.6 ± 3.51 (7) | 80.0 – 89.0 | 85.9 ± 3.29 (14) | 80.0 – 91.0 | |
| | | | | Culmen | 18.6 ± 0.78 (2) | 18.0 – 19.1 | 18.4 ± 0.84 (5) | 17.4 – 19.6 | 17.0 ± 0.97 (7) | 15.1 – 18.0 | 17.7 ± 1.11 (14) | 15.1 – 19.6 | |
| | | | | Head | 35.9 ± 0.42 (2) | 35.6 – 36.2 | 35.6 ± 0.29 (5) | 35.1 – 35.8 | 35.5 ± 1.21 (7) | 34.3 – 37.8 | 35.6 ± 0.86 (14) | 34.3 – 37.8 | |



| Family | Species | Subspecies | Measurement | Female | | | Male | | | Unknown | | | Total | | | | |
|---|---------|-----------------------------|-------------|-------------------------|--------------------|-------------------------|--------------------|------------------|--------------|------------------|--------------|---------------|-------|--|------------------|--------------|--|
| | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | | | | |
| <i>Anthus leucophrys</i> (Plain-backed Pipit – 694) | | | | | | | | | | | | | | | | | |
| | | <i>A. l. tephridorsus</i> | Culmen | 19.3 ± 1.13 (2) | 18.5 – 20.1 | | | | | | | | | | 19.3 ± 1.13 (2) | 18.5 – 20.1 | |
| | | | Head | 37.2 ± 0.92 (2) | 36.5 – 37.8 | | | | | | | | | | 37.2 ± 0.92 (2) | 36.5 – 37.8 | |
| | | | Mass | 25.2 ± 0.71 (2) | 24.7 – 25.7 | | | | | | | | | | 25.2 ± 0.71 (2) | 24.7 – 25.7 | |
| | | | Tail | 75.0 ± 0 (1) | | | | | | | | | | | 75.0 ± 0 (1) | | |
| | | | Tarsus | 29.1 ± 0.21 (2) | 28.9 – 29.2 | | | | | | | | | | 29.1 ± 0.21 (2) | 28.9 – 29.2 | |
| | | | Wing | 96.5 ± 2.12 (2) | 95.0 – 98.0 | | | | | | | | | | 96.5 ± 2.12 (2) | 95.0 – 98.0 | |
| <i>Anthus nicholsoni</i> (Nicholson's Pipit – 693) | | | | | | | | | | | | | | | | | |
| | | <i>A. n. leucocraspedon</i> | Culmen | | | 18.4 ± 0 (1) | | | | | | | | | 18.4 ± 0 (1) | | |
| | | | Head | | | 39.1 ± 0 (1) | | | | | | | | | 39.1 ± 0 (1) | | |
| | | | Mass | | | 24.7 ± 0 (1) | | | | | | | | | 24.7 ± 0 (1) | | |
| | | | Tail | | | 76.0 ± 0 (1) | | | | | | | | | 76.0 ± 0 (1) | | |
| | | | Tarsus | | | 27.0 ± 0 (1) | | | | | | | | | 27.0 ± 0 (1) | | |
| | | | Wing | | | 94.0 ± 0 (1) | | | | | | | | | 94.0 ± 0 (1) | | |
| <i>Anthus trivialis</i> (Tree Pipit – 698) | | | | | | | | | | | | | | | | | |
| | | <i>A. t. trivialis</i> | Culmen | | | 17.5 ± 0 (1) | | | | | | | | | 17.5 ± 0 (1) | | |
| | | | Head | | | 35.1 ± 0 (1) | | | | | | | | | 35.1 ± 0 (1) | | |
| | | | Mass | | | 22.6 ± 0 (1) | | | | | | | | | 22.6 ± 0 (1) | | |
| | | | Tail | | | 60.0 ± 0 (1) | | | | | | | | | 60.0 ± 0 (1) | | |
| | | | Tarsus | | | 22.4 ± 0 (1) | | | | | | | | | 22.4 ± 0 (1) | | |
| | | | Wing | | | 87.0 ± 0 (1) | | | | | | | | | 87.0 ± 0 (1) | | |
| <i>Anthus vaalensis</i> (Buffy Pipit – 695) | | | | | | | | | | | | | | | | | |
| | | <i>A. v. exasperatus</i> | Culmen | 18.9 ± 1.53 (13) | 15.1 – 21.1 | 19.3 ± 0.90 (13) | 17.6 – 20.7 | 19.2 ± 0.50 (10) | 18.5 – 20.0 | 19.1 ± 1.08 (36) | 15.1 – 21.1 | | | | 19.1 ± 1.08 (36) | 15.1 – 21.1 | |
| | | | Head | 37.0 ± 0.92 (14) | 35.5 – 38.4 | 37.4 ± 1.21 (13) | 35.5 – 39.7 | 37.3 ± 0.82 (11) | 36.4 – 38.7 | 37.2 ± 1.00 (86) | 35.5 – 39.7 | | | | 37.2 ± 1.00 (86) | 35.5 – 39.7 | |
| | | | Mass | 25.6 ± 2.05 (14) | 23.1 – 30.0 | 26.1 ± 2.35 (13) | 21.1 – 28.7 | 25.8 ± 1.52 (12) | 22.8 – 28.0 | 25.8 ± 1.97 (39) | 21.1 – 30.0 | | | | 25.8 ± 1.97 (39) | 21.1 – 30.0 | |
| | | | Tail | 72.6 ± 3.52 (14) | 66.0 – 79.0 | 75.4 ± 3.25 (13) | 71.0 – 82.0 | 74.9 ± 3.84 (10) | 66.0 – 79.0 | 74.2 ± 3.66 (37) | 66.0 – 82.0 | | | | 74.2 ± 3.66 (37) | 66.0 – 82.0 | |
| | | | Tarsus | 28.8 ± 1.15 (14) | 27.0 – 31.4 | 28.7 ± 0.96 (13) | 27.6 – 30.2 | 29.0 ± 1.13 (11) | 26.7 – 30.1 | 28.8 ± 1.06 (38) | 26.7 – 31.4 | | | | 28.8 ± 1.06 (38) | 26.7 – 31.4 | |
| | | | Wing | 95.4 ± 3.67 (14) | 89.0 – 101.0 | 98.0 ± 4.10 (13) | 90.0 – 102.0 | 97.5 ± 3.99 (12) | 93.0 – 106.0 | 96.9 ± 3.98 (39) | 89.0 – 106.0 | | | | 96.9 ± 3.98 (39) | 89.0 – 106.0 | |
| <i>Motacilla capensis</i> (Cape Wagtail – 686) | | | | | | | | | | | | | | | | | |
| | | <i>M. c. capensis</i> | Culmen | 19.1 ± 0.75 (3) | 18.2 – 19.5 | 19.8 ± 1.06 (5) | 18.9 – 21.6 | 18.5 ± 1.50 (15) | 16.1 – 20.9 | 18.9 ± 1.41 (23) | 16.1 – 21.6 | | | | 18.9 ± 1.41 (23) | 16.1 – 21.6 | |
| | | | Head | 35.7 ± 0.45 (3) | 35.2 – 36.1 | 35.9 ± 0.62 (5) | 34.9 – 36.6 | 36.2 ± 1.33 (15) | 34.8 – 40.4 | 36.1 ± 1.12 (23) | 34.8 – 40.4 | | | | 36.1 ± 1.12 (23) | 34.8 – 40.4 | |
| | | | Mass | 21.5 ± 1.85 (9) | 18.0 – 24.8 | 21.9 ± 2.18 (13) | 19.2 – 27.8 | 22.3 ± 1.66 (36) | 19.5 – 26.0 | 22.1 ± 1.81 (68) | 18.0 – 27.8 | | | | 22.1 ± 1.81 (68) | 18.0 – 27.8 | |

| Family | Species | Subspecies | Measurement | Female | | | Male | | | Unknown | | | Total | | |
|--|---|-------------------------|-------------|------------------|-------------|------------------|--------------|------------------|--------------|-------------------|--------------|---------------|-------|--|--|
| | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | | |
| Musciapidae (Chats, Old World Flycatchers) | <i>Cercotrichas leucophrys</i> (White-browed Scrub Robin – 588) | <i>C. i. zambesiana</i> | Tail | 82.2 ± 9.72 (9) | 59.0 – 90.0 | 84.3 ± 3.43 (13) | 78.0 – 90.0 | 86.6 ± 4.08 (34) | 78.0 – 97.0 | 85.4 ± 5.40 (56) | 59.0 – 97.0 | | | | |
| | | | Tarsus | 23.9 ± 0.10 (3) | 23.8 – 24.0 | 24.8 ± 0.80 (5) | 23.5 – 25.6 | 24.8 ± 1.48 (14) | 20.4 – 26.2 | 24.7 ± 1.26 (22) | 20.4 – 26.2 | | | | |
| | | | Wing | 81.4 ± 4.01 (10) | 73.0 – 87.0 | 82.2 ± 2.59 (13) | 79.0 – 86.0 | 81.9 ± 2.34 (37) | 75.0 – 86.0 | 81.9 ± 2.68 (60) | 73.0 – 87.0 | | | | |
| | | | Culmen | 19.1 ± 0.80 (5) | 18.2 – 20.1 | 19.4 ± 0.98 (3) | 18.3 – 20.2 | 19.3 ± 1.63 (2) | 18.1 – 20.4 | 19.2 ± 0.90 (10) | 18.1 – 20.4 | | | | |
| | | | Head | 36.6 ± 0.73 (5) | 35.9 – 37.6 | 37.1 ± 0.52 (3) | 36.5 – 37.4 | 37.9 ± 1.06 (2) | 37.1 – 38.6 | 37.0 ± 0.83 (10) | 35.9 – 38.6 | | | | |
| | | | Mass | 20.8 ± 2.80 (5) | 16.7 – 23.4 | 18.7 ± 0.82 (3) | 18.0 – 19.6 | 18.5 ± 1.34 (2) | 17.5 – 19.4 | 19.7 ± 2.27 (10) | 16.7 – 23.4 | | | | |
| | | | Tail | 65.0 ± 5.35 (4) | 62.0 – 73.0 | 69.3 ± 3.21 (3) | 67.0 – 73.0 | 71.0 ± 2.83 (2) | 69.0 – 73.0 | 67.8 ± 4.66 (9) | 62.0 – 73.0 | | | | |
| | | | Tarsus | 26.1 ± 1.06 (5) | 25.0 – 27.6 | 26.4 ± 0.46 (3) | 25.9 – 26.8 | 26.8 ± 0.85 (2) | 26.2 – 27.4 | 26.3 ± 0.84 (10) | 25.0 – 27.6 | | | | |
| | | | Wing | 68.8 ± 1.30 (5) | 68.0 – 71.0 | 72.3 ± 0.58 (3) | 72.0 – 73.0 | 73.5 ± 3.54 (2) | 71.0 – 76.0 | 70.8 ± 2.62 (10) | 68.0 – 76.0 | | | | |
| | | | | | | | | | | | | | | | |
| | <i>Cercotrichas paena</i> (Kalahari Scrub Robin – 586) | <i>C. p. paena</i> | Culmen | 19.7 ± 0.83 (40) | 18.0 – 21.0 | 20.6 ± 0.96 (68) | 18.5 – 22.6 | 19.7 ± 1.00 (34) | 17.1 – 21.3 | 20.1 ± 1.05 (142) | 17.1 – 22.6 | | | | |
| | | | Head | 37.1 ± 0.94 (40) | 34.9 – 39.2 | 37.8 ± 0.83 (69) | 36.5 – 40.3 | 37.0 ± 3.43 (34) | 18.5 – 40.0 | 37.4 ± 1.86 (143) | 18.5 – 40.3 | | | | |
| | | | Mass | 19.2 ± 1.83 (44) | 15.2 – 24.0 | 19.0 ± 1.19 (72) | 16.8 – 21.6 | 19.2 ± 2.10 (40) | 16.8 – 29.6 | 19.1 ± 1.64 (156) | 15.2 – 29.6 | | | | |
| | | | Tail | 66.2 ± 2.72 (38) | 62.0 – 73.0 | 67.9 ± 3.27 (71) | 58.0 – 77.0 | 68.1 ± 2.95 (39) | 62.0 – 73.0 | 67.5 ± 3.13 (148) | 58.0 – 77.0 | | | | |
| | | | Tarsus | 26.4 ± 0.78 (39) | 24.5 – 27.6 | 26.9 ± 0.93 (69) | 23.4 – 28.5 | 26.5 ± 1.02 (34) | 24.6 – 29.1 | 26.7 ± 0.94 (142) | 23.4 – 29.1 | | | | |
| | | | Wing | 70.3 ± 1.91 (44) | 67.0 – 74.0 | 72.5 ± 2.72 (72) | 65.0 – 79.0 | 71.5 ± 2.19 (42) | 66.0 – 75.0 | 71.6 ± 2.54 (158) | 65.0 – 79.0 | | | | |
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| | <i>Cossypha heuglini</i> (White-browed Robin-Chat – 580) | <i>C. h. heuglini</i> | Culmen | 20.5 ± 0 (1) | | 24.0 ± 1.48 (2) | 22.9 – 25.0 | 20.5 ± 1.33 (7) | 17.7 – 21.5 | 21.2 ± 1.89 (10) | 17.7 – 25.0 | | | | |
| | | | Head | 42.0 ± 0 (1) | | 43.9 ± 0.92 (2) | 43.2 – 44.5 | 42.1 ± 1.39 (7) | 40.0 – 44.3 | 42.4 ± 1.39 (10) | 40.0 – 44.5 | | | | |
| | | | Mass | 34.8 ± 14.42 (2) | 24.6 – 45.0 | 40.4 ± 4.59 (5) | 35.0 – 46.4 | 38.0 ± 3.76 (10) | 33.0 – 42.4 | 38.4 ± 5.40 (17) | 24.6 – 46.4 | | | | |
| | | | Tail | | | 96.6 ± 2.61 (5) | 92.0 – 98.0 | 89.3 ± 7.84 (9) | 78.0 – 100.0 | 91.9 ± 7.28 (14) | 78.0 – 100.0 | | | | |
| | | | Tarsus | 31.8 ± 0 (1) | | 33.1 ± 0.07 (2) | 33.0 – 33.1 | 32.4 ± 1.62 (7) | 30.5 – 35.2 | 32.4 ± 1.37 (10) | 30.5 – 35.2 | | | | |
| | | | Wing | 94.5 ± 0.71 (2) | 94.0 – 95.0 | 102.8 ± 3.42 (5) | 97.0 – 106.0 | 96.5 ± 5.64 (10) | 87.0 – 104.0 | 98.1 ± 5.57 (17) | 87.0 – 106.0 | | | | |
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| | <i>Emarginata schlegelii</i> (Karoo Chat – 566) | <i>E. s. schlegelii</i> | Culmen | 18.5 ± 0.84 (35) | 16.7 – 20.1 | 18.7 ± 0.91 (65) | 16.3 – 21.3 | 17.4 ± 1.42 (93) | 14.6 – 22.9 | 18.1 ± 1.31 (193) | 14.6 – 22.9 | | | | |
| | | | Head | 37.2 ± 0.85 (35) | 36.0 – 39.3 | 37.8 ± 0.95 (65) | 35.1 – 40.2 | 37.6 ± 1.21 (93) | 35.1 – 43.0 | 37.6 ± 1.08 (193) | 35.1 – 43.0 | | | | |
| | | | Mass | 20.1 ± 2.04 (36) | 17.2 – 24.4 | 20.8 ± 1.57 (63) | 17.4 – 24.5 | 20.9 ± 3.14 (95) | 15.0 – 36.5 | 20.7 ± 2.54 (194) | 15.0 – 36.5 | | | | |
| | | | Tail | 63.1 ± 2.86 (35) | 55.0 – 69.0 | 65.8 ± 4.10 (64) | 56.0 – 86.0 | 64.3 ± 4.10 (93) | 44.0 – 75.0 | 64.6 ± 4.01 (192) | 44.0 – 86.0 | | | | |
| | | | Tarsus | 28.5 ± 1.32 (35) | 25.9 – 32.0 | 29.3 ± 1.62 (65) | 21.6 – 31.4 | 28.9 ± 1.39 (93) | 25.6 – 32.1 | 29.0 ± 1.48 (193) | 21.6 – 32.1 | | | | |
| | | | Wing | 89.6 ± 3.54 (35) | 82.0 – 97.0 | 93.3 ± 3.40 (65) | 84.0 – 99.0 | 91.8 ± 4.11 (95) | 82.0 – 103.0 | 91.9 ± 3.98 (195) | 82.0 – 103.0 | | | | |
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| Family | Species | Subspecies | Measurement | Female | | | Male | | | Unknown | | | Total | | |
|---|---------|------------|-------------|-------------------|---------------|-------------------|--------------|-------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|
| | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | | |
| <i>Eremophila trachyrhynchos</i> (Tractrac Chat – 571) | | | | | | | | | | | | | | | |
| <i>E. t. albicans</i> | | | | | | | | | | | | | | | |
| | | | Culmen | 20.4 ± 1.18 (9) | 18.9 – 21.8 | 21.0 ± 0.77 (18) | 19.2 – 22.5 | 20.3 ± 1.36 (36) | 17.9 – 23.2 | 20.5 ± 1.23 (63) | 17.9 – 23.2 | 20.5 ± 1.23 (63) | 17.9 – 23.2 | 20.5 ± 1.23 (63) | 17.9 – 23.2 |
| | | | Head | 41.8 ± 1.15 (9) | 39.9 – 43.3 | 41.2 ± 1.24 (18) | 37.6 – 42.8 | 41.3 ± 2.26 (36) | 32.1 – 43.5 | 41.3 ± 1.87 (63) | 32.1 – 43.5 | 41.3 ± 1.87 (63) | 32.1 – 43.5 | 41.3 ± 1.87 (63) | 32.1 – 43.5 |
| | | | Mass | 27.7 ± 3.73 (9) | 22.0 – 35.0 | 25.4 ± 4.15 (18) | 18.6 – 39.8 | 25.6 ± 3.54 (36) | 18.8 – 41.5 | 25.8 ± 3.77 (63) | 18.6 – 41.5 | 25.8 ± 3.77 (63) | 18.6 – 41.5 | 25.8 ± 3.77 (63) | 18.6 – 41.5 |
| | | | Tail | 53.0 ± 2.87 (9) | 50.0 – 57.0 | 55.3 ± 3.31 (18) | 50.0 – 65.0 | 52.2 ± 2.01 (35) | 48.0 – 57.0 | 53.2 ± 2.88 (62) | 48.0 – 57.0 | 53.2 ± 2.88 (62) | 48.0 – 57.0 | 53.2 ± 2.88 (62) | 48.0 – 57.0 |
| | | | Tarsus | 30.3 ± 1.08 (9) | 28.1 – 32.0 | 30.8 ± 1.13 (18) | 28.4 – 33.0 | 30.5 ± 0.87 (36) | 28.8 – 32.2 | 30.6 ± 0.98 (63) | 28.8 – 32.2 | 30.6 ± 0.98 (63) | 28.8 – 32.2 | 30.6 ± 0.98 (63) | 28.8 – 32.2 |
| | | | Wing | 89.9 ± 2.15 (9) | 87.0 – 93.0 | 94.1 ± 2.59 (19) | 90.0 – 98.0 | 90.4 ± 3.41 (36) | 83.0 – 98.0 | 91.4 ± 3.45 (64) | 83.0 – 98.0 | 91.4 ± 3.45 (64) | 83.0 – 98.0 | 91.4 ± 3.45 (64) | 83.0 – 98.0 |
| <i>Melaenornis infuscatus</i> (Chat Flycatcher – 663) | | | | | | | | | | | | | | | |
| <i>M. i. benguelensis</i> | | | | | | | | | | | | | | | |
| | | | Culmen | 22.2 ± 1.48 (35) | 18.0 – 24.6 | 22.3 ± 1.12 (52) | 19.9 – 24.9 | 20.9 ± 1.88 (64) | 16.6 – 23.8 | 21.7 ± 1.69 (151) | 16.6 – 23.8 | 21.7 ± 1.69 (151) | 16.6 – 23.8 | 21.7 ± 1.69 (151) | 16.6 – 23.8 |
| | | | Head | 43.1 ± 1.02 (35) | 41.0 – 45.3 | 43.5 ± 0.99 (51) | 41.0 – 45.7 | 42.9 ± 0.91 (64) | 40.5 – 44.6 | 43.1 ± 0.99 (150) | 40.5 – 44.6 | 43.1 ± 0.99 (150) | 40.5 – 44.6 | 43.1 ± 0.99 (150) | 40.5 – 44.6 |
| | | | Mass | 33.9 ± 2.76 (34) | 29.9 – 42.7 | 35.4 ± 4.09 (52) | 24.4 – 51.7 | 35.0 ± 3.91 (64) | 28.0 – 45.5 | 34.9 ± 3.76 (150) | 28.0 – 45.5 | 34.9 ± 3.76 (150) | 28.0 – 45.5 | 34.9 ± 3.76 (150) | 28.0 – 45.5 |
| | | | Tail | 77.9 ± 3.60 (36) | 67.0 – 83.0 | 82.3 ± 3.26 (54) | 76.0 – 91.0 | 80.4 ± 4.22 (61) | 64.0 – 90.0 | 80.5 ± 4.09 (151) | 64.0 – 90.0 | 80.5 ± 4.09 (151) | 64.0 – 90.0 | 80.5 ± 4.09 (151) | 64.0 – 90.0 |
| | | | Tarsus | 26.7 ± 0.97 (35) | 25.0 – 28.7 | 26.9 ± 0.89 (52) | 24.5 – 28.5 | 26.5 ± 0.95 (64) | 24.9 – 29.0 | 26.7 ± 0.94 (151) | 24.9 – 29.0 | 26.7 ± 0.94 (151) | 24.9 – 29.0 | 26.7 ± 0.94 (151) | 24.9 – 29.0 |
| | | | Wing | 106.4 ± 2.77 (36) | 100.0 – 113.0 | 111.1 ± 3.74 (54) | 98.0 – 117.0 | 107.6 ± 4.19 (64) | 100.0 – 119.0 | 108.5 ± 4.19 (154) | 100.0 – 119.0 | 108.5 ± 4.19 (154) | 100.0 – 119.0 | 108.5 ± 4.19 (154) | 100.0 – 119.0 |
| <i>Melaenornis mariquensis</i> (Marico Flycatcher – 661) | | | | | | | | | | | | | | | |
| <i>M. m. acaciæ</i> | | | | | | | | | | | | | | | |
| | | | Culmen | 18.2 ± 1.02 (38) | 14.8 – 20.1 | 18.3 ± 1.09 (92) | 14.5 – 22.6 | 17.6 ± 1.37 (37) | 14.5 – 20.0 | 18.1 ± 1.17 (167) | 14.5 – 20.0 | 18.1 ± 1.17 (167) | 14.5 – 20.0 | 18.1 ± 1.17 (167) | 14.5 – 20.0 |
| | | | Head | 36.9 ± 0.64 (39) | 35.0 – 38.0 | 36.7 ± 0.70 (93) | 35.1 – 38.4 | 36.5 ± 0.79 (36) | 34.7 – 38.1 | 36.7 ± 0.71 (168) | 34.7 – 38.1 | 36.7 ± 0.71 (168) | 34.7 – 38.1 | 36.7 ± 0.71 (168) | 34.7 – 38.1 |
| | | | Mass | 23.7 ± 1.71 (42) | 20.4 – 27.4 | 22.0 ± 1.46 (101) | 17.6 – 27.2 | 21.9 ± 1.61 (49) | 17.5 – 25.0 | 22.4 ± 1.7 (192) | 17.5 – 25.0 | 22.4 ± 1.7 (192) | 17.5 – 25.0 | 22.4 ± 1.7 (192) | 17.5 – 25.0 |
| | | | Tail | 79.1 ± 4.31 (40) | 63.0 – 86.0 | 78.6 ± 2.63 (97) | 69.0 – 85.0 | 78.7 ± 3.83 (44) | 63.0 – 86.0 | 78.8 ± 3.35 (181) | 63.0 – 86.0 | 78.8 ± 3.35 (181) | 63.0 – 86.0 | 78.8 ± 3.35 (181) | 63.0 – 86.0 |
| | | | Tarsus | 23.3 ± 0.71 (39) | 21.8 – 24.8 | 23.2 ± 0.96 (92) | 19.1 – 26.1 | 23.3 ± 0.86 (37) | 21.7 – 25.1 | 23.3 ± 0.88 (168) | 21.7 – 25.1 | 23.3 ± 0.88 (168) | 21.7 – 25.1 | 23.3 ± 0.88 (168) | 21.7 – 25.1 |
| | | | Wing | 87.3 ± 2.87 (42) | 80.0 – 93.0 | 87.5 ± 2.06 (102) | 82.0 – 92.0 | 86.9 ± 2.84 (47) | 78.0 – 92.0 | 87.3 ± 2.46 (191) | 78.0 – 92.0 | 87.3 ± 2.46 (191) | 78.0 – 92.0 | 87.3 ± 2.46 (191) | 78.0 – 92.0 |
| <i>Melaenornis pammelaina</i> (Southern Black Flycatcher – 664) | | | | | | | | | | | | | | | |
| <i>M. p. pollogyna</i> | | | | | | | | | | | | | | | |
| | | | Culmen | 17.2 ± 0 (1) | | | | 18.0 ± 0 (1) | | 17.6 ± 0.57 (2) | | 17.6 ± 0.57 (2) | | 17.6 ± 0.57 (2) | |
| | | | Head | 37.5 ± 0 (1) | | | | 38.7 ± 0 (1) | | 38.1 ± 0.85 (2) | | 38.1 ± 0.85 (2) | | 38.1 ± 0.85 (2) | |
| | | | Mass | 32.7 ± 0 (1) | | | | 28.5 ± 0 (1) | | 30.6 ± 2.97 (2) | | 30.6 ± 2.97 (2) | | 30.6 ± 2.97 (2) | |
| | | | Tail | 89.0 ± 0 (1) | | | | 88.0 ± 0 (1) | | 88.5 ± 0.71 (2) | | 88.5 ± 0.71 (2) | | 88.5 ± 0.71 (2) | |
| | | | Tarsus | 22.7 ± 0 (1) | | | | 22.8 ± 0 (1) | | 22.8 ± 0.07 (2) | | 22.8 ± 0.07 (2) | | 22.8 ± 0.07 (2) | |
| | | | Wing | 106.0 ± 0 (1) | | | | 107.0 ± 0 (1) | | 106.5 ± 0.71 (2) | | 106.5 ± 0.71 (2) | | 106.5 ± 0.71 (2) | |
| <i>Monticola brevipes</i> (Short-toed Rock Thrush – 561) | | | | | | | | | | | | | | | |
| <i>M. b. brevipes</i> | | | | | | | | | | | | | | | |
| | | | Culmen | 26.0 ± 0 (1) | | 25.8 ± 1.07 (8) | 24.1 – 27.5 | | | 25.9 ± 1.01 (9) | | 25.9 ± 1.01 (9) | | 25.9 ± 1.01 (9) | |
| | | | Head | 48.3 ± 0 (1) | | 48.5 ± 1.13 (8) | 47.0 – 49.7 | | | 48.5 ± 1.06 (9) | | 48.5 ± 1.06 (9) | | 48.5 ± 1.06 (9) | |
| | | | Mass | 36.2 ± 2.26 (2) | 34.6 – 37.8 | 35.5 ± 3.61 (8) | 29.3 – 39.0 | | | 35.6 ± 3.28 (10) | | 35.6 ± 3.28 (10) | | 35.6 ± 3.28 (10) | |



| Family | Species | Subspecies | Measurement | Female | | | Male | | | Total | | |
|--------|--|------------|-------------|-------------------|--------------|-------------------|--------------|--------------------|--------------|------------------|-------------|--|
| | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | |
| | | | Tail | 61.0 ± 2.83 (2) | 59.0 – 63.0 | 67.3 ± 3.41 (8) | 62.0 – 73.0 | 66.0 ± 4.11 (10) | 59.0 – 73.0 | | | |
| | | | Tarsus | 25.4 ± 0 (1) | | 26.3 ± 0.78 (8) | 24.8 – 27.2 | 26.2 ± 0.79 (9) | 24.8 – 27.2 | | | |
| | | | Wing | 98.5 ± 0.71 (2) | 98.0 – 99.0 | 105.4 ± 3.54 (8) | 99.0 – 110.0 | 104.0 ± 4.27 (10) | 98.0 – 110.0 | | | |
| | <i>Muscicapa caeruleascens</i> (Ashy Flycatcher – 656) | | | | | | | | | | | |
| | <i>M. c. impavidia</i> | | | | | | | | | | | |
| | | | Culmen | 16.8 ± 1.38 (3) | 15.8 – 18.4 | 16.3 ± 0 (1) | | 16.7 ± 1.16 (4) | 15.8 – 18.4 | | | |
| | | | Head | 33.6 ± 0.31 (3) | 33.3 – 33.9 | 39.9 ± 0 (1) | | 35.2 ± 3.14 (4) | 33.3 – 39.9 | | | |
| | | | Mass | 16.6 ± 1.32 (3) | 15.2 – 17.8 | 16.9 ± 0 (1) | | 16.7 ± 1.09 (4) | 15.2 – 17.8 | | | |
| | | | Tail | 62.7 ± 2.08 (3) | 61.0 – 65.0 | 67.0 ± 0 (1) | | 63.8 ± 2.75 (4) | 61.0 – 67.0 | | | |
| | | | Tarsus | 18.1 ± 0.15 (3) | 18.0 – 18.3 | 19.1 ± 0 (1) | | 18.4 ± 0.5 (4) | 18.0 – 19.1 | | | |
| | | | Wing | 78.7 ± 2.08 (3) | 77.0 – 81.0 | 83.0 ± 0 (1) | | 79.8 ± 2.75 (4) | 77.0 – 83.0 | | | |
| | <i>Muscicapa striata</i> (Spotted Flycatcher – 654) | | | | | | | | | | | |
| | mixed ssp | | | | | | | | | | | |
| | | | Culmen | | | 17.9 ± 1.25 (13) | 15.0 – 20.2 | 17.3 ± 2.00 (14) | 12.5 – 19.4 | 17.6 ± 1.67 (27) | 12.5 – 20.2 | |
| | | | Head | | | 33.7 ± 0.67 (13) | 32.4 – 34.9 | 33.7 ± 0.78 (14) | 32.5 – 35.1 | 33.7 ± 0.72 (27) | 32.4 – 35.1 | |
| | | | Mass | | | 14.3 ± 1.62 (13) | 12.4 – 17.7 | 14.5 ± 1.40 (13) | 12.9 – 17.8 | 14.4 ± 1.48 (26) | 12.4 – 17.8 | |
| | | | Tail | | | 60.5 ± 2.15 (13) | 57.0 – 63.0 | 59.7 ± 1.89 (13) | 57.0 – 63.0 | 60.1 ± 2.03 (26) | 57.0 – 63.0 | |
| | | | Tarsus | | | 15.0 ± 0.72 (13) | 14.0 – 16.1 | 15.5 ± 0.67 (14) | 14.8 – 17.1 | 15.3 ± 0.72 (27) | 14.0 – 17.1 | |
| | | | Wing | | | 85.8 ± 5.53 (13) | 72.0 – 92.0 | 85.1 ± 4.62 (14) | 76.0 – 96.0 | 85.4 ± 4.99 (27) | 72.0 – 96.0 | |
| | <i>Myrmecocichla formicivora</i> (Ant-eating Chat – 575) | | | | | | | | | | | |
| | <i>M. f. minor</i> | | | | | | | | | | | |
| | | | Culmen | 21.8 ± 0.87 (24) | 19.8 – 23.7 | 22.4 ± 1.20 (26) | 18.4 – 24.3 | 22.1 ± 1.09 (50) | 18.4 – 24.3 | | | |
| | | | Head | 42.5 ± 1.06 (24) | 40.2 – 44.5 | 43.5 ± 1.16 (26) | 41.0 – 45.1 | 43.0 ± 1.22 (50) | 40.2 – 45.1 | | | |
| | | | Mass | 36.4 ± 3.73 (23) | 30.2 – 43.8 | 37.7 ± 2.39 (26) | 33.2 – 42.2 | 37.1 ± 3.12 (49) | 30.2 – 43.8 | | | |
| | | | Tail | 56.4 ± 2.21 (24) | 52.0 – 62.0 | 59.0 ± 2.85 (27) | 55.0 – 66.0 | 57.8 ± 2.86 (51) | 52.0 – 66.0 | | | |
| | | | Tarsus | 31.1 ± 1.09 (24) | 28.7 – 32.8 | 31.5 ± 1.19 (26) | 29.0 – 33.6 | 31.3 ± 1.16 (50) | 28.7 – 33.6 | | | |
| | | | Wing | 92.0 ± 2.62 (24) | 87.0 – 97.0 | 95.6 ± 3.00 (27) | 89.0 – 102.0 | 93.9 ± 3.35 (51) | 87.0 – 102.0 | | | |
| | <i>Myrmecocichla monticola</i> (Mountain Wheatear – 564) | | | | | | | | | | | |
| | <i>M. m. atriorii</i> | | | | | | | | | | | |
| | | | Culmen | 21.9 ± 1.84 (75) | 18.2 – 29.8 | 22.7 ± 1.43 (72) | 18.9 – 27.0 | 22.3 ± 1.68 (147) | 18.2 – 29.8 | | | |
| | | | Head | 42.9 ± 0.89 (75) | 40.7 – 45.4 | 43.9 ± 1.61 (74) | 33.6 – 48.1 | 43.4 ± 1.38 (149) | 33.6 – 48.1 | | | |
| | | | Mass | 28.5 ± 2.26 (78) | 24.5 – 35.0 | 29.9 ± 2.69 (73) | 25.5 – 39.5 | 29.2 ± 2.55 (151) | 24.5 – 39.5 | | | |
| | | | Tail | 68.6 ± 3.76 (78) | 61.0 – 86.0 | 71.1 ± 2.93 (78) | 60.0 – 78.0 | 69.8 ± 3.59 (156) | 60.0 – 86.0 | | | |
| | | | Tarsus | 29.5 ± 1.46 (74) | 20.6 – 34.0 | 30.3 ± 1.36 (72) | 25.4 – 36.2 | 29.9 ± 1.46 (146) | 20.6 – 36.2 | | | |
| | | | Wing | 103.0 ± 3.12 (82) | 92.0 – 117.0 | 108.1 ± 4.26 (79) | 89.0 – 117.0 | 105.5 ± 4.49 (161) | 89.0 – 117.0 | | | |



| Family | Species | Subspecies | Measurement | Female | | | Male | | | Unknown | | | Total | | | | |
|--|---------|------------|-------------|------------------|-------------|------------------|--------------|------------------|-------------|------------------|-------------|------------------|--------------|-------|--------------|--|--|
| | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | | | | |
| <i>Namibornis herero</i> (Herero Chat – 660) | | | | | | | | | | | | | | | | | |
| | | | Culmen | 21.5 ± 0.82 (3) | 20.8 – 22.4 | 22.3 ± 0.06 (3) | 22.3 – 22.4 | 19.1 ± 1.37 (7) | 17.2 – 20.8 | 20.4 ± 1.80 (13) | 17.2 – 20.8 | 20.4 ± 1.80 (13) | 17.2 – 20.8 | 22.4 | 17.2 – 22.4 | | |
| | | | Head | 40.8 ± 1.00 (3) | 39.8 – 41.8 | 41.2 ± 0 (3) | 41.2 – 41.2 | 39.8 ± 0.65 (7) | 39.0 – 40.7 | 40.4 ± 0.88 (13) | 39.0 – 40.7 | 40.4 ± 0.88 (13) | 39.0 – 40.7 | 41.8 | 39.0 – 41.8 | | |
| | | | Mass | 27.0 ± 1.70 (3) | 25.0 – 28.0 | 26.3 ± 0.35 (3) | 25.9 – 26.5 | 26.8 ± 3.14 (7) | 23.9 – 33.2 | 26.7 ± 2.35 (13) | 23.9 – 33.2 | 26.7 ± 2.35 (13) | 23.9 – 33.2 | 33.2 | 23.9 – 33.2 | | |
| | | | Tail | 66.7 ± 0.58 (3) | 66.0 – 67.0 | 68.0 ± 0 (3) | 68.0 – 68.0 | 68.7 ± 2.50 (6) | 65.0 – 71.0 | 68.0 ± 1.91 (12) | 65.0 – 71.0 | 68.0 ± 1.91 (12) | 65.0 – 71.0 | 71.0 | 65.0 – 71.0 | | |
| | | | Tarsus | 24.0 ± 0.58 (3) | 23.3 – 24.3 | 24.0 ± 0.35 (3) | 23.6 – 24.2 | 23.8 ± 0.65 (7) | 23.0 – 24.9 | 23.9 ± 0.54 (13) | 23.0 – 24.9 | 23.9 ± 0.54 (13) | 23.0 – 24.9 | 24.9 | 23.0 – 24.9 | | |
| | | | Wing | 94.7 ± 4.04 (3) | 91.0 – 99.0 | 93.3 ± 0.58 (3) | 93.0 – 94.0 | 92.9 ± 2.04 (7) | 90.0 – 96.0 | 93.4 ± 2.33 (13) | 90.0 – 96.0 | 93.4 ± 2.33 (13) | 90.0 – 96.0 | 99.0 | 90.0 – 99.0 | | |
| <i>Oenanthe familiaris</i> (Familiar Chat – 570) | | | | | | | | | | | | | | | | | |
| | | | Culmen | 18.1 ± 0.96 (11) | 16.5 – 19.6 | 19.5 ± 0.72 (8) | 18.5 – 20.7 | 18.4 ± 1.27 (17) | 16.7 – 20.2 | 18.6 ± 1.18 (36) | 16.7 – 20.2 | 18.6 ± 1.18 (36) | 16.5 – 20.7 | 20.7 | 16.5 – 20.7 | | |
| | | | Head | 36.6 ± 0.84 (11) | 35.4 – 38.0 | 37.4 ± 0.62 (8) | 36.1 – 38.1 | 37.4 ± 0.55 (17) | 36.6 – 38.3 | 37.2 ± 0.75 (36) | 36.6 – 38.3 | 37.2 ± 0.75 (36) | 35.4 – 38.3 | 38.3 | 35.4 – 38.3 | | |
| | | | Mass | 16.2 ± 1.45 (11) | 13.1 – 18.4 | 17.8 ± 1.33 (9) | 15.6 – 19.9 | 17.6 ± 1.60 (18) | 15.4 – 21.6 | 17.2 ± 1.61 (38) | 15.4 – 21.6 | 17.2 ± 1.61 (38) | 13.1 – 21.6 | 21.6 | 13.1 – 21.6 | | |
| | | | Tail | 59.4 ± 2.34 (11) | 57.0 – 63.0 | 60.9 ± 2.93 (9) | 57.0 – 64.0 | 61.0 ± 3.30 (21) | 54.0 – 70.0 | 60.5 ± 3.01 (41) | 54.0 – 70.0 | 60.5 ± 3.01 (41) | 54.0 – 70.0 | 70.0 | 54.0 – 70.0 | | |
| | | | Tarsus | 23.5 ± 0.66 (11) | 22.8 – 25.0 | 25.3 ± 0.80 (8) | 24.1 – 26.5 | 24.6 ± 0.81 (17) | 23.3 – 26.3 | 24.4 ± 0.98 (36) | 23.3 – 26.3 | 24.4 ± 0.98 (36) | 22.8 – 26.5 | 26.5 | 22.8 – 26.5 | | |
| | | | Wing | 82.2 ± 1.40 (12) | 79.0 – 84.0 | 85.1 ± 3.59 (9) | 79.0 – 89.0 | 84.4 ± 3.02 (21) | 80.0 – 90.0 | 83.9 ± 2.97 (42) | 80.0 – 90.0 | 83.9 ± 2.97 (42) | 79.0 – 90.0 | 90.0 | 79.0 – 90.0 | | |
| <i>O. p. neseri</i> | | | | | | | | | | | | | | | | | |
| | | | Culmen | 19.6 ± 1.18 (8) | 18.3 – 21.1 | 20.2 ± 1.19 (43) | 18.0 – 22.4 | 19.3 ± 1.10 (36) | 16.9 – 21.1 | 19.7 ± 1.21 (87) | 16.9 – 21.1 | 19.7 ± 1.21 (87) | 16.9 – 21.1 | 22.4 | 16.9 – 22.4 | | |
| | | | Head | 39.5 ± 1.24 (8) | 38.1 – 41.5 | 40.8 ± 0.95 (44) | 39.0 – 42.6 | 40.1 ± 0.93 (36) | 38.5 – 41.8 | 40.4 ± 1.06 (88) | 38.5 – 41.8 | 40.4 ± 1.06 (88) | 38.1 – 42.6 | 42.6 | 38.1 – 42.6 | | |
| | | | Mass | 28.1 ± 2.34 (8) | 23.8 – 31.2 | 27.7 ± 1.99 (44) | 23.3 – 31.9 | 27.9 ± 2.16 (36) | 23.0 – 33.0 | 27.8 ± 2.07 (88) | 23.0 – 33.0 | 27.8 ± 2.07 (88) | 23.0 – 33.0 | 33.0 | 23.0 – 33.0 | | |
| | | | Tail | 57.1 ± 2.91 (7) | 53.0 – 61.0 | 59.1 ± 2.92 (38) | 53.0 – 65.0 | 56.8 ± 4.43 (29) | 43.0 – 65.0 | 58.0 ± 3.74 (72) | 43.0 – 65.0 | 58.0 ± 3.74 (72) | 43.0 – 65.0 | 65.0 | 43.0 – 65.0 | | |
| | | | Tarsus | 31.3 ± 1.81 (8) | 29.6 – 34.1 | 31.7 ± 1.11 (43) | 29.1 – 34.3 | 31.2 ± 1.33 (36) | 27.0 – 33.0 | 31.5 ± 1.29 (87) | 27.0 – 33.0 | 31.5 ± 1.29 (87) | 27.0 – 34.3 | 34.3 | 27.0 – 34.3 | | |
| | | | Wing | 90.3 ± 4.13 (8) | 84.0 – 96.0 | 92.0 ± 3.3 (45) | 84.0 – 103.0 | 91.0 ± 3.14 (36) | 81.0 – 97.0 | 91.4 ± 3.33 (89) | 81.0 – 97.0 | 91.4 ± 3.33 (89) | 81.0 – 103.0 | 103.0 | 81.0 – 103.0 | | |
| <i>Saxicola torquatus</i> (African Stonechat – 576) | | | | | | | | | | | | | | | | | |
| | | | Culmen | 17.2 ± 1.20 (2) | 16.3 – 18.0 | 16.8 ± 0.78 (2) | 16.2 – 17.3 | 17.0 ± 0.86 (4) | 16.2 – 17.3 | 17.0 ± 0.86 (4) | 16.2 – 17.3 | 17.0 ± 0.86 (4) | 16.2 – 17.3 | 18.0 | 16.2 – 18.0 | | |
| | | | Head | 32.6 ± 0.07 (2) | 32.5 – 32.6 | 33.5 ± 0.42 (2) | 33.2 – 33.8 | 33.0 ± 0.60 (4) | 32.5 – 33.8 | 33.0 ± 0.60 (4) | 32.5 – 33.8 | 33.0 ± 0.60 (4) | 32.5 – 33.8 | 33.8 | 32.5 – 33.8 | | |
| | | | Mass | 15.0 ± 1.20 (2) | 14.1 – 15.8 | 16.3 ± 0.71 (2) | 15.8 – 16.8 | 15.6 ± 1.12 (4) | 14.1 – 16.8 | 15.6 ± 1.12 (4) | 14.1 – 16.8 | 15.6 ± 1.12 (4) | 14.1 – 16.8 | 16.8 | 14.1 – 16.8 | | |
| | | | Tail | 56.0 ± 1.41 (2) | 55.0 – 57.0 | 58.0 ± 2.83 (2) | 56.0 – 60.0 | 57.0 ± 2.16 (4) | 55.0 – 60.0 | 57.0 ± 2.16 (4) | 55.0 – 60.0 | 57.0 ± 2.16 (4) | 55.0 – 60.0 | 60.0 | 55.0 – 60.0 | | |
| | | | Tarsus | 22.2 ± 0.71 (2) | 21.7 – 22.7 | 22.6 ± 0.92 (2) | 21.9 – 23.2 | 22.4 ± 0.70 (4) | 21.7 – 23.2 | 22.4 ± 0.70 (4) | 21.7 – 23.2 | 22.4 ± 0.70 (4) | 21.7 – 23.2 | 23.2 | 21.7 – 23.2 | | |
| | | | Wing | 72.0 ± 1.41 (2) | 71.0 – 73.0 | 73.5 ± 0.71 (2) | 73.0 – 74.0 | 72.8 ± 1.26 (4) | 71.0 – 74.0 | 72.8 ± 1.26 (4) | 71.0 – 74.0 | 72.8 ± 1.26 (4) | 71.0 – 74.0 | 74.0 | 71.0 – 74.0 | | |
| Nectariniidae (Sunbirds) | | | | | | | | | | | | | | | | | |
| | | | Culmen | 24.6 ± 0 (1) | | 24.6 ± 0 (1) | | 24.6 ± 0 (1) | | 24.6 ± 0 (1) | | 24.6 ± 0 (1) | | 24.6 | 24.6 ± 0 (1) | | |
| | | | Head | 37.2 ± 0 (1) | | 37.2 ± 0 (1) | | 37.2 ± 0 (1) | | 37.2 ± 0 (1) | | 37.2 ± 0 (1) | | 37.2 | 37.2 ± 0 (1) | | |
| | | | Mass | 9.5 ± 0 (1) | | 9.5 ± 0 (1) | | 9.5 ± 0 (1) | | 9.5 ± 0 (1) | | 9.5 ± 0 (1) | | 9.5 | 9.5 ± 0 (1) | | |
| <i>Chalcornitha amethystina</i> (Amethyst Sunbird – 772) | | | | | | | | | | | | | | | | | |
| | | | Culmen | 24.6 ± 0 (1) | | 24.6 ± 0 (1) | | 24.6 ± 0 (1) | | 24.6 ± 0 (1) | | 24.6 ± 0 (1) | | 24.6 | 24.6 ± 0 (1) | | |
| | | | Head | 37.2 ± 0 (1) | | 37.2 ± 0 (1) | | 37.2 ± 0 (1) | | 37.2 ± 0 (1) | | 37.2 ± 0 (1) | | 37.2 | 37.2 ± 0 (1) | | |
| | | | Mass | 9.5 ± 0 (1) | | 9.5 ± 0 (1) | | 9.5 ± 0 (1) | | 9.5 ± 0 (1) | | 9.5 ± 0 (1) | | 9.5 | 9.5 ± 0 (1) | | |
| <i>C. a. kirrki</i> | | | | | | | | | | | | | | | | | |



| Family | Species | Subspecies | Measurement | Female | | | Male | | | Unknown | | | Total | | | |
|--------|---|---------------------------|-------------|-------------------|-------------|-------------------|---------------|-------|--|---------------|-------|--|---------------|-------------------|-------------|--|
| | | | | Mean ± SD (n) | Range | | Mean ± SD (n) | Range | | Mean ± SD (n) | Range | | Mean ± SD (n) | Range | | |
| | | | Tail | 40.0 ± 0 (1) | | | | | | | | | | 40.0 ± 0 (1) | | |
| | | | Tarsus | 15.4 ± 0 (1) | | | | | | | | | | 15.4 ± 0 (1) | | |
| | | | Wing | 62.0 ± 0 (1) | | | | | | | | | | 62.0 ± 0 (1) | | |
| | <i>Chatcomitra senegalensis</i> (Scarlet-chested Sunbird – 774) | | | | | | | | | | | | | | | |
| | | <i>C. s. saturator</i> | Culmen | 29.0 ± 1.84 (2) | 27.7 – 30.3 | | | | | | | | | 29.0 ± 1.84 (2) | 27.7 – 30.3 | |
| | | | Head | 40.7 ± 2.83 (2) | 38.7 – 42.7 | | | | | | | | | 40.7 ± 2.83 (2) | 38.7 – 42.7 | |
| | | | Mass | 13.1 ± 1.13 (2) | 12.3 – 13.9 | | | | | | | | | 13.1 ± 1.13 (2) | 12.3 – 13.9 | |
| | | | Tail | 48.0 ± 4.24 (2) | 45.0 – 51.0 | | | | | | | | | 48.0 ± 4.24 (2) | 45.0 – 51.0 | |
| | | | Tarsus | 16.8 ± 0.99 (2) | 16.1 – 17.5 | | | | | | | | | 16.8 ± 0.99 (2) | 16.1 – 17.5 | |
| | | | Wing | 70.5 ± 6.36 (2) | 66.0 – 75.0 | | | | | | | | | 70.5 ± 6.36 (2) | 66.0 – 75.0 | |
| | <i>Cinnyris cupreus</i> (Copper Sunbird – 754) | | | | | | | | | | | | | | | |
| | | <i>C. c. chaldeus</i> | Culmen | 22.2 ± 1.01 (7) | 20.4 – 23.5 | 23.5 ± 1.24 (21) | 20.9 – 26.5 | | | | | | | 23.2 ± 1.29 (28) | 20.4 – 26.5 | |
| | | | Head | 34.0 ± 0.78 (7) | 33.0 – 35.1 | 35.4 ± 0.83 (21) | 33.9 – 37.4 | | | | | | | 35.1 ± 1.0 (28) | 33.0 – 37.4 | |
| | | | Mass | 8.4 ± 0.28 (7) | 7.9 – 8.7 | 9.2 ± 0.56 (21) | 8.2 – 10.0 | | | | | | | 9.0 ± 0.59 (28) | 7.9 – 10.0 | |
| | | | Tail | 42.9 ± 1.57 (7) | 40.0 – 44.0 | 49.3 ± 1.74 (21) | 46.0 – 52.0 | | | | | | | 47.7 ± 3.31 (28) | 40.0 – 52.0 | |
| | | | Tarsus | 15.7 ± 0.52 (7) | 15.0 – 16.3 | 15.6 ± 0.56 (19) | 14.6 – 16.8 | | | | | | | 15.6 ± 0.55 (26) | 14.6 – 16.8 | |
| | | | Wing | 59.7 ± 1.70 (7) | 57.0 – 61.0 | 65.2 ± 1.54 (21) | 61.0 – 67.0 | | | | | | | 63.8 ± 2.87 (28) | 57.0 – 67.0 | |
| | <i>Cinnyris fuscus</i> (Dusky Sunbird – 764) | | | | | | | | | | | | | | | |
| | | <i>C. f. fuscus</i> | Culmen | 23.2 ± 1.23 (101) | 20.8 – 27.2 | 25.3 ± 1.07 (213) | 22.3 – 28.6 | | | | | | | 24.6 ± 1.52 (322) | 20.8 – 29.9 | |
| | | | Head | 33.5 ± 0.93 (100) | 31.0 – 36.8 | 36.1 ± 0.97 (214) | 32.3 – 38.5 | | | | | | | 35.2 ± 1.55 (322) | 31.0 – 38.5 | |
| | | | Mass | 6.7 ± 0.68 (118) | 5.0 – 11.0 | 7.8 ± 0.59 (250) | 6.2 – 9.9 | | | | | | | 7.5 ± 0.81 (376) | 5.0 – 11.0 | |
| | | | Tail | 35.3 ± 1.80 (118) | 32.0 – 45.0 | 41.0 ± 2.25 (249) | 35.0 – 52.0 | | | | | | | 39.2 ± 3.47 (376) | 32.0 – 52.0 | |
| | | | Tarsus | 16.4 ± 0.97 (97) | 14.0 – 22.9 | 17.3 ± 0.67 (208) | 15.0 – 19.1 | | | | | | | 17.0 ± 0.88 (313) | 14.0 – 22.9 | |
| | | | Wing | 53.1 ± 1.55 (118) | 49.0 – 58.0 | 58.7 ± 2.24 (250) | 38.0 – 65.0 | | | | | | | 56.8 ± 3.44 (377) | 37.0 – 60.0 | |
| | <i>Cinnyris mairiquensis</i> (Marico Sunbird – 755) | | | | | | | | | | | | | | | |
| | | <i>C. m. mairiquensis</i> | Culmen | 25.6 ± 1.04 (15) | 24.0 – 27.0 | 26.3 ± 0.95 (21) | 24.8 – 27.8 | | | | | | | 26.0 ± 1.05 (36) | 24.0 – 27.8 | |
| | | | Head | 36.9 ± 0.87 (17) | 35.0 – 38.5 | 38.0 ± 0.76 (21) | 36.0 – 39.4 | | | | | | | 37.5 ± 0.96 (36) | 35.0 – 39.4 | |
| | | | Mass | 9.9 ± 1.08 (17) | 6.8 – 11.6 | 11.2 ± 1.19 (22) | 8.8 – 14.0 | | | | | | | 10.6 ± 1.30 (39) | 6.8 – 14.0 | |
| | | | Tail | 43.6 ± 1.80 (17) | 41.0 – 48.0 | 48.2 ± 2.70 (21) | 42.0 – 53.0 | | | | | | | 46.2 ± 3.27 (38) | 41.0 – 53.0 | |
| | | | Tarsus | 17.0 ± 0.75 (17) | 15.0 – 18.3 | 17.7 ± 0.75 (17) | 15.9 – 18.8 | | | | | | | 17.4 ± 0.82 (34) | 15.0 – 18.8 | |
| | | | Wing | 63.4 ± 1.97 (17) | 61.0 – 68.0 | 67.3 ± 2.71 (22) | 61.0 – 73.0 | | | | | | | 65.6 ± 3.09 (39) | 61.0 – 73.0 | |



| Family | Species | Subspecies | Measurement | Female | | | Male | | | Unknown | | | Total | | |
|--|---------|--------------------------|-------------|------------------|---------------|------------------|-------------|-----------------|-------------|------------------|---------------|---------------|-------|--|--|
| | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | | |
| <i>Cinnyris talatala</i> (White-bellied Sunbird – 763) | | | | | | | | | | | | | | | |
| | | monotypic | Culmen | 22.6 ± 3.84 (4) | 17.7 – 26.0 | 23.5 ± 0.95 (5) | 22.5 – 24.4 | 20.7 ± 2.33 (2) | 19.0 – 22.3 | 22.7 ± 2.55 (11) | 17.7 – 26.0 | | | | |
| | | | Head | 32.3 ± 3.17 (4) | 28.1 – 35.7 | 34.4 ± 1.17 (5) | 32.5 – 35.6 | 31.7 ± 2.33 (2) | 30.0 – 33.3 | 33.1 ± 2.37 (11) | 28.1 – 35.7 | | | | |
| | | | Mass | 7.2 ± 0.83 (4) | 6.4 – 8.3 | 8.4 ± 0.59 (5) | 8.0 – 9.4 | 6.7 ± 0.99 (2) | 6.0 – 7.4 | 7.6 ± 1.00 (11) | 6.0 – 9.4 | | | | |
| | | | Tail | 36.8 ± 4.19 (4) | 34.0 – 43.0 | 40.4 ± 1.82 (5) | 38.0 – 42.0 | 40.0 ± 5.66 (2) | 36.0 – 44.0 | 39.0 ± 3.61 (11) | 34.0 – 44.0 | | | | |
| | | | Tarsus | 15.8 ± 1.60 (4) | 13.9 – 17.8 | 16.4 ± 0.31 (4) | 16.1 – 16.8 | 14.8 ± 0.57 (2) | 14.4 – 15.2 | 15.8 ± 1.14 (10) | 13.9 – 17.8 | | | | |
| | | | Wing | 55.5 ± 3.11 (4) | 53.0 – 60.0 | 56.2 ± 1.30 (5) | 54.0 – 57.0 | 55.5 ± 0.71 (2) | 55.0 – 56.0 | 55.8 ± 1.94 (11) | 53.0 – 60.0 | | | | |
| <i>Hedylpna collaris</i> (Collared Sunbird – 771) | | | | | | | | | | | | | | | |
| | | <i>H. c. zambesiana</i> | Culmen | 15.7 ± 1.66 (3) | 14.5 – 17.6 | 16.2 ± 0 (1) | | | | 15.8 ± 1.38 (4) | 14.5 – 17.6 | | | | |
| | | | Head | 27.9 ± 1.10 (3) | 26.8 – 29.0 | 29.5 ± 0 (1) | | | | 28.3 ± 1.21 (4) | 26.8 – 29.5 | | | | |
| | | | Mass | 7.1 ± 1.00 (3) | 6.1 – 8.1 | 7.7 ± 0 (1) | | | | 7.2 ± 0.88 (4) | 6.1 – 8.1 | | | | |
| | | | Tail | 37.3 ± 3.06 (3) | 34.0 – 40.0 | 42.0 ± 0 (1) | | | | 38.5 ± 3.42 (4) | 34.0 – 42.0 | | | | |
| | | | Tarsus | 15.1 ± 1.48 (2) | 14.0 – 16.1 | | | | | 15.1 ± 1.48 (2) | 14.0 – 16.1 | | | | |
| | | | Wing | 52.0 ± 1.73 (3) | 50.0 – 53.0 | 56.0 ± 0 (1) | | | | 53.0 ± 2.45 (4) | 50.0 – 56.0 | | | | |
| Oriolidae (Figbirds, Old World Orioles, Piespios) | | | | | | | | | | | | | | | |
| <i>Oriolus oriolus</i> (Eurasian Golden Oriole – 519) | | | | | | | | | | | | | | | |
| | | <i>O. o. oriolus</i> | Culmen | 30.4 ± 1.24 (6) | 28.8 – 32.2 | 32.9 ± 0 (1) | | | | 30.8 ± 1.47 (7) | 28.8 – 32.9 | | | | |
| | | | Head | 53.9 ± 1.35 (6) | 52.3 – 55.9 | 56.2 ± 0 (1) | | | | 54.2 ± 1.51 (7) | 52.3 – 56.2 | | | | |
| | | | Mass | 70.9 ± 2.90 (6) | 68.4 – 76.3 | 73.2 ± 0 (1) | | | | 71.2 ± 2.79 (7) | 68.4 – 76.3 | | | | |
| | | | Tail | 85.0 ± 2.19 (6) | 82.0 – 88.0 | 83.0 ± 0 (1) | | | | 84.7 ± 2.14 (7) | 82.0 – 88.0 | | | | |
| | | | Tarsus | 22.9 ± 0.59 (6) | 22.2 – 23.7 | 22.3 ± 0 (1) | | | | 22.8 ± 0.59 (7) | 22.2 – 23.7 | | | | |
| | | | Wing | 146.8 ± 5.12 (6) | 138.0 – 152.0 | 152.0 ± 0 (1) | | | | 147.6 ± 5.06 (7) | 138.0 – 152.0 | | | | |
| Paridae (Tits, Chickadees) | | | | | | | | | | | | | | | |
| <i>Melaniparus carpi</i> (Carp's Tit – 528) | | | | | | | | | | | | | | | |
| | | monotypic | Culmen | 12.5 ± 0 (1) | | 13.6 ± 0.49 (3) | 13.0 – 13.9 | 14.5 ± 0 (1) | | 13.5 ± 0.79 (5) | 12.5 – 14.5 | | | | |
| | | | Head | 30.0 ± 0 (1) | | 30.2 ± 1.06 (3) | 29.0 – 31.0 | 30.5 ± 0 (1) | | 30.2 ± 0.77 (5) | 29.0 – 31.0 | | | | |
| | | | Mass | 16.9 ± 0 (1) | | 18.4 ± 1.37 (3) | 17.2 – 19.9 | 16.1 ± 0 (1) | | 17.6 ± 1.45 (5) | 16.1 – 19.9 | | | | |
| | | | Tail | 63.0 ± 0 (1) | | 66.0 ± 4.36 (3) | 63.0 – 71.0 | 69.0 ± 0 (1) | | 66.0 ± 3.74 (5) | 63.0 – 71.0 | | | | |
| | | | Tarsus | 19.1 ± 0 (1) | | 19.6 ± 0.70 (3) | 19.1 – 20.4 | 19.6 ± 0 (1) | | 19.5 ± 0.54 (5) | 19.1 – 20.4 | | | | |
| | | | Wing | 78.0 ± 0 (1) | | 77.0 ± 4.36 (3) | 72.0 – 80.0 | 80.0 ± 0 (1) | | 77.8 ± 3.35 (5) | 72.0 – 80.0 | | | | |
| <i>Melaniparus cinerascens</i> (Ashy Tit – 514) | | | | | | | | | | | | | | | |
| | | <i>M. c. cinerascens</i> | Culmen | 16.1 ± 1.17 (12) | 14.5 – 17.9 | 15.2 ± 0.64 (12) | 14.6 – 16.5 | | | 15.6 ± 1.02 (24) | 14.5 – 17.9 | | | | |
| | | | Head | 32.2 ± 0.35 (12) | 31.7 – 33.0 | 32.6 ± 1.34 (13) | 29.3 – 34.5 | | | 32.4 ± 1.00 (25) | 29.3 – 34.5 | | | | |



| Family | Species | Subspecies | Measurement | Female | | | Male | | | Unknown | | | Total | | |
|---|--|-------------|-------------------|------------------|--------------------|------------------|--------------------|-------------------|--------------------|-------------------|-------------------|------------------|-------------|--|--|
| | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | | |
| <i>Melaniparus niger</i> (Southern Black Tit – 527) | <i>M. n. xanthostomus</i> | | Mass | 18.6 ± 1.59 (13) | 15.7 – 21.8 | 19.3 ± 1.78 (14) | 15.6 – 21.7 | 18.9 ± 1.70 (27) | 15.6 – 21.8 | 18.9 ± 1.70 (27) | 15.6 – 21.8 | 18.9 ± 1.70 (27) | 15.6 – 21.8 | | |
| | | Tail | 56.2 ± 2.51 (13) | 53.0 – 61.0 | 58.7 ± 2.39 (13) | 54.0 – 62.0 | 57.4 ± 2.73 (26) | 53.0 – 62.0 | 57.4 ± 2.73 (26) | 53.0 – 62.0 | 57.4 ± 2.73 (26) | 53.0 – 62.0 | | | |
| | | Tarsus | 19.8 ± 0.62 (12) | 18.4 – 20.4 | 20.2 ± 0.68 (12) | 18.9 – 21.2 | 20.0 ± 0.66 (24) | 18.4 – 21.2 | 20.0 ± 0.66 (24) | 18.4 – 21.2 | 20.0 ± 0.66 (24) | 18.4 – 21.2 | | | |
| | | Wing | 76.0 ± 2.83 (13) | 72.0 – 82.0 | 79.4 ± 3.06 (14) | 74.0 – 84.0 | 77.8 ± 3.38 (27) | 72.0 – 84.0 | 77.8 ± 3.38 (27) | 72.0 – 84.0 | 77.8 ± 3.38 (27) | 72.0 – 84.0 | | | |
| | | Culmen | 13.0 ± 0 (1) | | | | 13.0 ± 0 (1) | | 13.0 ± 0 (1) | | 13.0 ± 0 (1) | | | | |
| | | Head | 29.5 ± 0 (1) | | | | 29.5 ± 0 (1) | | 29.5 ± 0 (1) | | 29.5 ± 0 (1) | | | | |
| | | Mass | 19.0 ± 0 (1) | | | | 19.0 ± 0 (1) | | 19.0 ± 0 (1) | | 19.0 ± 0 (1) | | | | |
| | | Tail | 73.0 ± 0 (1) | | | | 73.0 ± 0 (1) | | 73.0 ± 0 (1) | | 73.0 ± 0 (1) | | | | |
| | | Tarsus | 19.0 ± 0 (1) | | | | 19.0 ± 0 (1) | | 19.0 ± 0 (1) | | 19.0 ± 0 (1) | | | | |
| | | Wing | 81.0 ± 0 (1) | | | | 81.0 ± 0 (1) | | 81.0 ± 0 (1) | | 81.0 ± 0 (1) | | | | |
| Passeridae (Old World Sparrows, Snowfinches) | <i>Passer diffusus</i> (Southern Grey-headed Sparrow – 4142) | | Culmen | 15.7 ± 1.08 (11) | 13.9 – 17.3 | 16.3 ± 1.42 (13) | 15.1 – 19.3 | 15.2 ± 1.22 (68) | 12.2 – 20.4 | 15.2 ± 1.22 (68) | 12.2 – 20.4 | 15.4 ± 1.28 (92) | 12.2 – 20.4 | | |
| | | Head | 30.7 ± 1.51 (11) | 29.4 – 34.9 | 30.7 ± 1.59 (13) | 28.4 – 34.0 | 30.6 ± 1.29 (70) | 27.9 – 38.9 | 30.6 ± 1.29 (70) | 27.9 – 38.9 | 30.6 ± 1.29 (70) | 27.9 – 38.9 | | | |
| | | Mass | 24.5 ± 2.24 (60) | 18.7 – 29.5 | 24.2 ± 1.57 (72) | 21.0 – 29.5 | 24.0 ± 1.78 (475) | 18.2 – 30.3 | 24.0 ± 1.78 (475) | 18.2 – 30.3 | 24.1 ± 1.81 (607) | 18.2 – 30.3 | | | |
| | | Tail | 63.6 ± 3.76 (54) | 56.0 – 80.0 | 65.4 ± 2.62 (60) | 57.0 – 75.0 | 64.5 ± 3.27 (359) | 53.0 – 79.0 | 64.5 ± 3.27 (359) | 53.0 – 79.0 | 64.5 ± 3.28 (473) | 53.0 – 80.0 | | | |
| | | Tarsus | 18.9 ± 1.00 (11) | 17.6 – 21.6 | 19.3 ± 1.34 (13) | 16.0 – 21.7 | 18.8 ± 0.91 (65) | 16.7 – 22.8 | 18.8 ± 0.91 (65) | 16.7 – 22.8 | 18.9 ± 0.99 (89) | 16.0 – 22.8 | | | |
| | | Wing | 81.8 ± 2.14 (55) | 77.0 – 87.0 | 84.5 ± 2.20 (64) | 79.0 – 88.0 | 83.0 ± 2.78 (381) | 71.0 – 95.0 | 83.0 ± 2.78 (381) | 71.0 – 95.0 | 83.1 ± 2.73 (500) | 71.0 – 95.0 | | | |
| | | Culmen | 15.7 ± 1.04 (3) | 14.5 – 16.3 | 16.1 ± 1.48 (2) | 15.0 – 17.1 | 17.4 ± 1.31 (4) | 15.9 – 19.0 | 17.4 ± 1.31 (4) | 15.9 – 19.0 | 16.5 ± 1.38 (9) | 14.5 – 19.0 | | | |
| | | Head | 31.7 ± 1.44 (3) | 30.0 – 32.5 | 31.6 ± 2.33 (2) | 29.9 – 33.2 | 33.2 ± 0.76 (4) | 32.2 – 34.0 | 33.2 ± 0.76 (4) | 32.2 – 34.0 | 32.3 ± 1.46 (9) | 29.9 – 34.0 | | | |
| | | Mass | 26.8 ± 4.04 (3) | 22.1 – 29.1 | 28.3 ± 5.30 (2) | 24.5 – 32.0 | 31.3 ± 1.80 (4) | 29.2 – 33.6 | 31.3 ± 1.80 (4) | 29.2 – 33.6 | 29.1 ± 3.67 (9) | 22.1 – 33.6 | | | |
| | | Tail | 61.7 ± 0.58 (3) | 61.0 – 62.0 | 64.5 ± 7.78 (2) | 59.0 – 70.0 | 62.5 ± 2.65 (4) | 60.0 – 66.0 | 62.5 ± 2.65 (4) | 60.0 – 66.0 | 62.7 ± 3.39 (9) | 59.0 – 70.0 | | | |
| Tarsus | 20.0 ± 0.69 (3) | 19.2 – 20.4 | 19.4 ± 1.77 (2) | 18.1 – 20.6 | 20.3 ± 0.48 (4) | 20.0 – 21.0 | 20.3 ± 0.48 (4) | 20.0 – 21.0 | 20.0 ± 0.86 (9) | 18.1 – 21.0 | | | | | |
| Wing | 84.0 ± 5.20 (3) | 78.0 – 87.0 | 83.5 ± 4.95 (2) | 80.0 – 87.0 | 82.8 ± 1.26 (4) | 81.0 – 84.0 | 82.8 ± 1.26 (4) | 81.0 – 84.0 | 83.3 ± 3.28 (9) | 78.0 – 87.0 | | | | | |
| <i>Passer griseus</i> (Northern Grey-headed Sparrow – 3852) | <i>P. g. ugandae</i> | | Culmen | 15.1 ± 1.04 (62) | 12.8 – 17.4 | 15.1 ± 0.93 (93) | 12.1 – 16.9 | 15.1 ± 0.97 (155) | 12.1 – 17.4 | 15.1 ± 0.97 (155) | 12.1 – 17.4 | | | | |
| | | Head | 30.1 ± 0.97 (70) | 25.5 – 31.8 | 30.4 ± 0.77 (107) | 28.1 – 32.5 | 30.3 ± 0.86 (177) | 25.5 – 32.5 | 30.3 ± 0.86 (177) | 25.5 – 32.5 | | | | | |
| | | Mass | 22.8 ± 1.78 (758) | 15.0 – 29.5 | 22.9 ± 1.69 (860) | 18.0 – 32.8 | 22.9 ± 1.73 (1618) | 15.0 – 32.8 | 22.9 ± 1.73 (1618) | 15.0 – 32.8 | | | | | |
| | | Tail | 56.2 ± 2.68 (514) | 41.0 – 66.0 | 57.4 ± 2.37 (573) | 49.0 – 64.0 | 56.8 ± 2.59 (1087) | 41.0 – 66.0 | 56.8 ± 2.59 (1087) | 41.0 – 66.0 | | | | | |
| | | Tarsus | 19.5 ± 0.88 (47) | 17.7 – 22.0 | 19.4 ± 0.93 (63) | 16.3 – 21.2 | 19.5 ± 0.91 (110) | 16.3 – 22.0 | 19.5 ± 0.91 (110) | 16.3 – 22.0 | | | | | |
| | | Wing | 73.4 ± 2.10 (641) | 64.0 – 86.0 | 75.5 ± 2.34 (736) | 64.0 – 91.0 | 74.5 ± 2.45 (1377) | 64.0 – 91.0 | 74.5 ± 2.45 (1377) | 64.0 – 91.0 | | | | | |
| | | Culmen | 15.1 ± 1.04 (62) | 12.8 – 17.4 | 15.1 ± 0.93 (93) | 12.1 – 16.9 | 15.1 ± 0.97 (155) | 12.1 – 17.4 | 15.1 ± 0.97 (155) | 12.1 – 17.4 | | | | | |
| | | Head | 30.1 ± 0.97 (70) | 25.5 – 31.8 | 30.4 ± 0.77 (107) | 28.1 – 32.5 | 30.3 ± 0.86 (177) | 25.5 – 32.5 | 30.3 ± 0.86 (177) | 25.5 – 32.5 | | | | | |
| | | Mass | 22.8 ± 1.78 (758) | 15.0 – 29.5 | 22.9 ± 1.69 (860) | 18.0 – 32.8 | 22.9 ± 1.73 (1618) | 15.0 – 32.8 | 22.9 ± 1.73 (1618) | 15.0 – 32.8 | | | | | |
| | | Tail | 56.2 ± 2.68 (514) | 41.0 – 66.0 | 57.4 ± 2.37 (573) | 49.0 – 64.0 | 56.8 ± 2.59 (1087) | 41.0 – 66.0 | 56.8 ± 2.59 (1087) | 41.0 – 66.0 | | | | | |
| Tarsus | 19.5 ± 0.88 (47) | 17.7 – 22.0 | 19.4 ± 0.93 (63) | 16.3 – 21.2 | 19.5 ± 0.91 (110) | 16.3 – 22.0 | 19.5 ± 0.91 (110) | 16.3 – 22.0 | | | | | | | |
| Wing | 73.4 ± 2.10 (641) | 64.0 – 86.0 | 75.5 ± 2.34 (736) | 64.0 – 91.0 | 74.5 ± 2.45 (1377) | 64.0 – 91.0 | 74.5 ± 2.45 (1377) | 64.0 – 91.0 | | | | | | | |
| <i>Passer melanurus</i> (Cape Sparrow – 786) | <i>P. m. damarensis</i> | | Culmen | 15.1 ± 1.04 (62) | 12.8 – 17.4 | 15.1 ± 0.93 (93) | 12.1 – 16.9 | 15.1 ± 0.97 (155) | 12.1 – 17.4 | 15.1 ± 0.97 (155) | 12.1 – 17.4 | | | | |
| | | Head | 30.1 ± 0.97 (70) | 25.5 – 31.8 | 30.4 ± 0.77 (107) | 28.1 – 32.5 | 30.3 ± 0.86 (177) | 25.5 – 32.5 | 30.3 ± 0.86 (177) | 25.5 – 32.5 | | | | | |
| | | Mass | 22.8 ± 1.78 (758) | 15.0 – 29.5 | 22.9 ± 1.69 (860) | 18.0 – 32.8 | 22.9 ± 1.73 (1618) | 15.0 – 32.8 | 22.9 ± 1.73 (1618) | 15.0 – 32.8 | | | | | |
| | | Tail | 56.2 ± 2.68 (514) | 41.0 – 66.0 | 57.4 ± 2.37 (573) | 49.0 – 64.0 | 56.8 ± 2.59 (1087) | 41.0 – 66.0 | 56.8 ± 2.59 (1087) | 41.0 – 66.0 | | | | | |
| | | Tarsus | 19.5 ± 0.88 (47) | 17.7 – 22.0 | 19.4 ± 0.93 (63) | 16.3 – 21.2 | 19.5 ± 0.91 (110) | 16.3 – 22.0 | 19.5 ± 0.91 (110) | 16.3 – 22.0 | | | | | |
| | | Wing | 73.4 ± 2.10 (641) | 64.0 – 86.0 | 75.5 ± 2.34 (736) | 64.0 – 91.0 | 74.5 ± 2.45 (1377) | 64.0 – 91.0 | 74.5 ± 2.45 (1377) | 64.0 – 91.0 | | | | | |
| | | Culmen | 15.1 ± 1.04 (62) | 12.8 – 17.4 | 15.1 ± 0.93 (93) | 12.1 – 16.9 | 15.1 ± 0.97 (155) | 12.1 – 17.4 | 15.1 ± 0.97 (155) | 12.1 – 17.4 | | | | | |
| | | Head | 30.1 ± 0.97 (70) | 25.5 – 31.8 | 30.4 ± 0.77 (107) | 28.1 – 32.5 | 30.3 ± 0.86 (177) | 25.5 – 32.5 | 30.3 ± 0.86 (177) | 25.5 – 32.5 | | | | | |
| | | Mass | 22.8 ± 1.78 (758) | 15.0 – 29.5 | 22.9 ± 1.69 (860) | 18.0 – 32.8 | 22.9 ± 1.73 (1618) | 15.0 – 32.8 | 22.9 ± 1.73 (1618) | 15.0 – 32.8 | | | | | |
| | | Tail | 56.2 ± 2.68 (514) | 41.0 – 66.0 | 57.4 ± 2.37 (573) | 49.0 – 64.0 | 56.8 ± 2.59 (1087) | 41.0 – 66.0 | 56.8 ± 2.59 (1087) | 41.0 – 66.0 | | | | | |
| Tarsus | 19.5 ± 0.88 (47) | 17.7 – 22.0 | 19.4 ± 0.93 (63) | 16.3 – 21.2 | 19.5 ± 0.91 (110) | 16.3 – 22.0 | 19.5 ± 0.91 (110) | 16.3 – 22.0 | | | | | | | |
| Wing | 73.4 ± 2.10 (641) | 64.0 – 86.0 | 75.5 ± 2.34 (736) | 64.0 – 91.0 | 74.5 ± 2.45 (1377) | 64.0 – 91.0 | 74.5 ± 2.45 (1377) | 64.0 – 91.0 | | | | | | | |



| Family | Species | Subspecies | Measurement | Female | | | Male | | | Unknown | | | Total | | | |
|--|---------|--|-------------|--------------------------|--------------------|--------------------------|--------------------|---------------|-------|------------------|-------------|---------------|-------|-------------------|-------------|--|
| | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | | | |
| <i>Passer molitensis</i> (Great Sparrow – 785) | | | | | | | | | | | | | | | | |
| | | <i>P. m. molitensis</i> | Culmen | 18.3 ± 1.06 (104) | 14.7 – 22.0 | 18.3 ± 1.12 (114) | 14.8 – 21.7 | | | | | | | 18.3 ± 1.09 (218) | 14.7 – 22.0 | |
| | | | Head | 33.2 ± 1.10 (104) | 30.2 – 39.0 | 33.3 ± 0.92 (115) | 31.8 – 39.6 | | | | | | | 33.2 ± 1.01 (219) | 30.2 – 39.6 | |
| | | | Mass | 29.6 ± 2.63 (115) | 20.8 – 38.4 | 29.2 ± 2.04 (134) | 21.0 – 35.0 | | | | | | | 29.4 ± 2.34 (249) | 20.8 – 38.4 | |
| | | | Tail | 57.4 ± 2.24 (114) | 50.0 – 63.0 | 58.5 ± 2.29 (131) | 53.0 – 65.0 | | | | | | | 58.0 ± 2.34 (245) | 50.0 – 65.0 | |
| | | | Tarsus | 20.5 ± 0.78 (105) | 18.5 – 23.1 | 20.7 ± 0.84 (114) | 18.5 – 24.2 | | | | | | | 20.6 ± 0.82 (219) | 18.5 – 24.2 | |
| | | | Wing | 81.6 ± 2.85 (116) | 69.0 – 99.0 | 84.0 ± 2.22 (134) | 74.0 – 95.0 | | | | | | | 82.9 ± 2.81 (250) | 69.0 – 99.0 | |
| Phylloscopidae (Leaf Warblers and Allies) | | | | | | | | | | | | | | | | |
| | | <i>Phylloscopus trochilus</i> (Willow Warbler – 599) | Culmen | | | 13.9 ± 1.05 (10) | 12.0 – 15.4 | | | 13.9 ± 1.30 (18) | 10.6 – 16.0 | | | 13.9 ± 1.20 (28) | 10.6 – 16.0 | |
| | | | Head | | | 28.0 ± 0.65 (11) | 26.9 – 28.8 | | | 28.0 ± 0.70 (18) | 26.7 – 29.1 | | | 28.0 ± 0.67 (29) | 26.7 – 29.1 | |
| | | | Mass | | | 8.2 ± 0.59 (12) | 7.4 – 9.2 | | | 8.3 ± 0.93 (19) | 6.3 – 9.6 | | | 8.3 ± 0.80 (29) | 6.3 – 9.6 | |
| | | | Tail | | | 51.3 ± 5.06 (11) | 47.0 – 64.0 | | | 51.0 ± 3.62 (19) | 46.0 – 57.0 | | | 51.1 ± 4.12 (30) | 46.0 – 64.0 | |
| | | | Tarsus | | | 19.7 ± 0.61 (10) | 18.4 – 20.6 | | | 19.7 ± 0.76 (17) | 18.4 – 21.2 | | | 19.7 ± 0.69 (27) | 18.4 – 21.2 | |
| | | | Wing | | | 65.1 ± 3.15 (12) | 61.0 – 71.0 | | | 66.1 ± 3.35 (19) | 62.0 – 73.0 | | | 65.7 ± 3.26 (31) | 61.0 – 73.0 | |
| | | mixed ssp | | | | | | | | | | | | | | |
| Platysteiridae (Wattle-eyes, Batises) | | | | | | | | | | | | | | | | |
| | | <i>Batis pririt</i> (Pirrit Batis – 674) | Culmen | 16.3 ± 0.81 (21) | 14.7 – 18.0 | 16.6 ± 0.85 (26) | 15.1 – 18.6 | | | | | | | 16.5 ± 0.83 (47) | 14.7 – 18.6 | |
| | | | Head | 30.4 ± 0.90 (21) | 28.3 – 31.9 | 31.1 ± 0.78 (26) | 29.8 – 33.0 | | | | | | | 30.8 ± 0.91 (47) | 28.3 – 33.0 | |
| | | | Mass | 8.6 ± 0.58 (21) | 7.3 – 9.5 | 8.7 ± 0.48 (26) | 7.9 – 9.7 | | | | | | | 8.7 ± 0.52 (47) | 7.3 – 9.7 | |
| | | | Tail | 44.6 ± 1.54 (20) | 42.0 – 48.0 | 44.9 ± 1.84 (26) | 42.0 – 48.0 | | | | | | | 44.7 ± 1.71 (46) | 42.0 – 48.0 | |
| | | | Tarsus | 17.9 ± 0.69 (21) | 16.7 – 18.9 | 17.8 ± 0.64 (26) | 16.2 – 18.6 | | | | | | | 17.8 ± 0.66 (47) | 16.2 – 18.9 | |
| | | | Wing | 55.9 ± 1.70 (21) | 53.0 – 58.0 | 56.7 ± 1.55 (26) | 53.0 – 59.0 | | | | | | | 56.3 ± 1.64 (47) | 53.0 – 59.0 | |
| | | <i>Lanioturdus torquatus</i> (White-tailed Shrike – 726) | Culmen | 23.2 ± 1.42 (7) | 20.5 – 25.0 | | | | | 22.8 ± 0.21 (5) | 22.5 – 23.0 | | | 23.0 ± 1.08 (12) | 20.5 – 25.0 | |
| | | | Head | 42.3 ± 1.29 (7) | 40.1 – 44.2 | | | | | 42.3 ± 0.48 (5) | 41.7 – 42.9 | | | 42.3 ± 1.00 (12) | 40.1 – 44.2 | |
| | | | Mass | 27.3 ± 1.85 (7) | 24.7 – 29.2 | | | | | 26.6 ± 1.62 (5) | 24.1 – 28.6 | | | 27.0 ± 1.72 (12) | 24.1 – 29.2 | |
| | | | Tail | 45.9 ± 2.27 (7) | 42.0 – 48.0 | | | | | 44.3 ± 1.89 (4) | 43.0 – 47.0 | | | 45.3 ± 2.20 (11) | 42.0 – 48.0 | |
| | | | Tarsus | 30.6 ± 1.14 (7) | 29.1 – 32.6 | | | | | 30.6 ± 1.08 (5) | 29.9 – 32.5 | | | 30.6 ± 1.06 (12) | 29.1 – 32.6 | |
| | | | Wing | 86.7 ± 2.36 (7) | 84.0 – 90.0 | | | | | 85.8 ± 2.39 (5) | 82.0 – 88.0 | | | 86.3 ± 2.31 (12) | 82.0 – 90.0 | |
| | | monotypic | | | | | | | | | | | | | | |



| Family | Species | Subspecies | Measurement | Female | | | Male | | | Unknown | | | Total | | |
|---|---------|------------|-------------|-------------------|-------------|-------------------|---------------|------------------|-------------|---------------|-------|---------------|-------|-------------------|---------------|
| | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | | |
| Ploceidae (Weavers, Widowbirds) | | | | | | | | | | | | | | | |
| <i>Amblyospiza albifrons</i> (Thick-billed Weaver – 804) | | | | | | | | | | | | | | | |
| <i>A. a. maxima</i> | | | | | | | | | | | | | | | |
| | | | Culmen | 22.9 ± 1.34 (5) | 20.7 – 24.2 | 25.7 ± 0 (1) | | | | | | | | 23.4 ± 1.65 (6) | 20.7 – 25.7 |
| | | | Head | 37.2 ± 0.43 (5) | 36.8 – 37.8 | 41.0 ± 0 (1) | | | | | | | | 37.9 ± 1.58 (6) | 36.8 – 41.0 |
| | | | Mass | 44.9 ± 1.99 (5) | 42.7 – 48.0 | 58.0 ± 0 (1) | | | | | | | | 47.1 ± 5.64 (6) | 42.7 – 58.0 |
| | | | Tail | 74.4 ± 3.78 (5) | 70.0 – 78.0 | 81.0 ± 0 (1) | | | | | | | | 75.5 ± 4.32 (6) | 70.0 – 81.0 |
| | | | Tarsus | 23.7 ± 0.65 (5) | 22.9 – 24.5 | 24.7 ± 0 (1) | | | | | | | | 23.9 ± 0.70 (6) | 22.9 – 24.7 |
| | | | Wing | 95.0 ± 1.22 (5) | 93.0 – 96.0 | 103.0 ± 0 (1) | | | | | | | | 96.3 ± 3.44 (6) | 93.0 – 103.0 |
| <i>Bubalornis niger</i> (Red-billed Buffalo Weaver – 779) | | | | | | | | | | | | | | | |
| <i>B. n. niger</i> | | | | | | | | | | | | | | | |
| | | | Culmen | 25.5 ± 1.60 (31) | 21.0 – 28.8 | 26.8 ± 1.31 (45) | 23.7 – 29.3 | | | | | | | 26.3 ± 1.56 (76) | 21.0 – 29.3 |
| | | | Head | 45.0 ± 0.96 (31) | 42.0 – 46.3 | 46.5 ± 1.46 (45) | 41.0 – 49.1 | | | | | | | 45.9 ± 1.49 (76) | 41.0 – 49.1 |
| | | | Mass | 71.1 ± 6.30 (39) | 56.0 – 81.5 | 80.8 ± 5.54 (49) | 68.4 – 92.0 | | | | | | | 76.5 ± 7.60 (88) | 56.0 – 92.0 |
| | | | Tail | 100.6 ± 5.26 (39) | 93.0 – 117 | 105.8 ± 3.59 (49) | 96.0 – 117.0 | | | | | | | 103.5 ± 5.10 (88) | 93.0 – 117.0 |
| | | | Tarsus | 29.4 ± 0.85 (31) | 27.3 – 31.3 | 31.5 ± 0.86 (41) | 29.6 – 33.3 | | | | | | | 30.6 ± 1.33 (72) | 27.3 – 33.3 |
| | | | Wing | 113.6 ± 3.13 (39) | 104.0 – 118 | 122.3 ± 2.41 (50) | 114.0 – 127.0 | | | | | | | 118.5 ± 5.12 (89) | 104.0 – 127.0 |
| <i>Euplectes afer</i> (Yellow-crowned Bishop – 812) | | | | | | | | | | | | | | | |
| <i>E. a. taha</i> | | | | | | | | | | | | | | | |
| | | | Culmen | 15.0 ± 0.69 (47) | 13.7 – 16.5 | 15.3 ± 0.46 (34) | 14.4 – 16.5 | 14.7 ± 0.55 (6) | 14.0 – 15.4 | | | | | 15.1 ± 0.62 (87) | 13.7 – 16.5 |
| | | | Head | 26.2 ± 0.49 (47) | 25.1 – 27.1 | 27.0 ± 0.51 (34) | 25.8 – 28.0 | 26.5 ± 0.42 (6) | 26.0 – 27.0 | | | | | 26.5 ± 0.62 (87) | 25.1 – 28.0 |
| | | | Mass | 13.9 ± 1.22 (60) | 12.1 – 17.3 | 14.9 ± 0.98 (42) | 12.3 – 16.9 | 13.6 ± 0.68 (6) | 12.6 – 14.7 | | | | | 14.2 ± 1.21 (108) | 12.1 – 17.3 |
| | | | Tail | 35.0 ± 1.34 (60) | 32.0 – 38.0 | 36.4 ± 1.53 (41) | 31.0 – 40.0 | 33.8 ± 0.75 (6) | 33.0 – 35.0 | | | | | 35.5 ± 1.59 (107) | 31.0 – 40.0 |
| | | | Tarsus | 16.8 ± 0.63 (47) | 15.5 – 18.0 | 17.5 ± 0.73 (34) | 15.9 – 19.1 | 17.3 ± 0.5 (6) | 16.7 – 18.1 | | | | | 17.1 ± 0.75 (87) | 15.5 – 19.1 |
| | | | Wing | 59.9 ± 1.79 (60) | 55.0 – 63.0 | 62.7 ± 1.77 (41) | 59.0 – 67.0 | 61.3 ± 0.52 (6) | 61.0 – 62.0 | | | | | 61.0 ± 2.2 (107) | 55.0 – 67.0 |
| <i>Euplectes orix</i> (Southern Red Bishop – 808) | | | | | | | | | | | | | | | |
| monotypic | | | | | | | | | | | | | | | |
| | | | Culmen | 18.4 ± 0.17 (4) | 18.2 – 18.6 | 18.4 ± 0.63 (7) | 17.1 – 18.9 | 18.9 ± 0.46 (3) | 18.5 – 19.4 | | | | | 18.5 ± 0.52 (14) | 17.1 – 19.4 |
| | | | Head | 30.2 ± 0.71 (5) | 29.1 – 31.1 | 31.6 ± 1.46 (7) | 29.0 – 32.7 | 32.5 ± 0.81 (3) | 31.8 – 33.4 | | | | | 31.3 ± 1.41 (15) | 29.0 – 33.4 |
| | | | Mass | 21.2 ± 1.52 (17) | 18.8 – 23.5 | 26.1 ± 2.83 (17) | 19.8 – 32.2 | 25.5 ± 1.59 (4) | 23.2 – 26.8 | | | | | 23.8 ± 3.23 (38) | 18.8 – 32.2 |
| | | | Tail | 38.8 ± 2.07 (18) | 34.0 – 42.0 | 42.3 ± 1.65 (17) | 38.0 – 45.0 | 41.0 ± 1.41 (4) | 40.0 – 43.0 | | | | | 40.6 ± 2.45 (39) | 34.0 – 45.0 |
| | | | Tarsus | 20.9 ± 0.69 (4) | 19.9 – 21.4 | 21.6 ± 1.14 (7) | 19.8 – 22.9 | 21.9 ± 0.55 (3) | 21.3 – 22.4 | | | | | 21.5 ± 0.96 (14) | 19.8 – 22.9 |
| | | | Wing | 69.7 ± 2.08 (21) | 64.0 – 74.0 | 75.4 ± 2.33 (18) | 71.0 – 79.0 | 73.3 ± 2.22 (4) | 71.0 – 76.0 | | | | | 72.4 ± 3.48 (43) | 64.0 – 79.0 |
| <i>Phileiterus socius</i> (Sociable Weaver – 783) | | | | | | | | | | | | | | | |
| monotypic | | | | | | | | | | | | | | | |
| | | | Culmen | 18.9 ± 0.87 (3) | 18.3 – 19.9 | 21.1 ± 3.18 (2) | 18.8 – 23.3 | 17.5 ± 1.06 (26) | 16.0 – 21.3 | | | | | 17.9 ± 1.49 (31) | 16.0 – 23.3 |
| | | | Head | 34.4 ± 0.32 (3) | 34.2 – 34.8 | 34.2 ± 0.85 (2) | 33.6 – 34.8 | 33.1 ± 0.64 (25) | 31.7 – 34.6 | | | | | 33.3 ± 0.77 (30) | 31.7 – 34.8 |



| Family | Species | Subspecies | Measurement | Female | | | Male | | | Total | | |
|---|---------|------------|-------------|-------------------|--------------|-------------------|--------------|--------------------|--------------|--------------------|--------------|--|
| | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | |
| <i>Ploceus mahali</i> (White-browed Sparrow-Weaver – 780) | | | | | | | | | | | | |
| | | | Mass | 26.7 ± 2.59 (47) | 22.7 – 35.2 | 26.6 ± 1.98 (17) | 23.4 – 31.6 | 25.6 ± 1.85 (84) | 20.0 – 31.3 | 26.0 ± 2.18 (148) | 20.0 – 35.2 | |
| | | | Tail | 43.2 ± 1.65 (49) | 38.0 – 47.0 | 44.1 ± 1.93 (17) | 41.0 – 48.0 | 44.1 ± 1.81 (81) | 40.0 – 49.0 | 43.8 ± 1.82 (147) | 38.0 – 49.0 | |
| | | | Tarsus | 19.9 ± 1.04 (3) | 19.2 – 21.1 | 21.1 ± 1.13 (2) | 20.3 – 21.9 | 20.0 ± 0.69 (25) | 18.5 – 21.1 | 20.1 ± 0.76 (30) | 18.5 – 21.9 | |
| | | | Wing | 73.8 ± 1.77 (50) | 70.0 – 78.0 | 75.2 ± 1.75 (17) | 73.0 – 78.0 | 73.8 ± 2.24 (98) | 67.0 – 83.0 | 74.0 ± 2.09 (165) | 67.0 – 83.0 | |
| <i>P. m. ansorgei</i> | | | | | | | | | | | | |
| | | | Culmen | 20.5 ± 1.17 (49) | 17.3 – 22.0 | 20.9 ± 0.88 (43) | 18.8 – 23.2 | 20.7 ± 1.06 (92) | 17.3 – 23.2 | 20.7 ± 1.06 (92) | 17.3 – 23.2 | |
| | | | Head | 37.1 ± 1.03 (50) | 33.0 – 39.5 | 37.9 ± 1.30 (44) | 34.0 – 41.1 | 37.5 ± 1.23 (94) | 33.0 – 41.1 | 37.5 ± 1.23 (94) | 33.0 – 41.1 | |
| | | | Mass | 38.9 ± 2.89 (102) | 28.0 – 48.7 | 41.7 ± 2.36 (99) | 36.2 – 48.9 | 40.3 ± 2.98 (201) | 28.0 – 48.9 | 40.3 ± 2.98 (201) | 28.0 – 48.9 | |
| | | | Tail | 61.1 ± 2.72 (92) | 52.0 – 72.0 | 62.6 ± 2.58 (88) | 57.0 – 69.0 | 61.8 ± 2.75 (180) | 52.0 – 72.0 | 61.8 ± 2.75 (180) | 52.0 – 72.0 | |
| | | | Tarsus | 24.2 ± 1.09 (51) | 20.4 – 26.1 | 24.9 ± 0.95 (43) | 22.7 – 26.5 | 24.5 ± 1.09 (94) | 20.4 – 26.5 | 24.5 ± 1.09 (94) | 20.4 – 26.5 | |
| | | | Wing | 99.2 ± 3.08 (93) | 83.0 – 108.0 | 102.9 ± 2.75 (90) | 96.0 – 110.0 | 101.0 ± 3.44 (183) | 83.0 – 110.0 | 101.0 ± 3.44 (183) | 83.0 – 110.0 | |
| <i>P. m. mahali</i> | | | | | | | | | | | | |
| | | | Culmen | 21.1 ± 0.94 (27) | 18.5 – 23.3 | 21.2 ± 1.03 (31) | 18.8 – 23.5 | 21.2 ± 0.98 (58) | 18.5 – 23.5 | 21.2 ± 0.98 (58) | 18.5 – 23.5 | |
| | | | Head | 37.6 ± 0.80 (27) | 35.6 – 39.0 | 38.0 ± 1.11 (30) | 35.5 – 40.4 | 37.8 ± 0.98 (57) | 35.5 – 40.4 | 37.8 ± 0.98 (57) | 35.5 – 40.4 | |
| | | | Mass | 38.8 ± 2.52 (48) | 33.4 – 45.1 | 41.5 ± 2.52 (44) | 36.0 – 45.9 | 40.1 ± 2.85 (92) | 33.4 – 45.9 | 40.1 ± 2.85 (92) | 33.4 – 45.9 | |
| | | | Tail | 61.4 ± 2.50 (42) | 57.0 – 68.0 | 62.9 ± 2.35 (44) | 58.0 – 68.0 | 62.2 ± 2.53 (86) | 57.0 – 68.0 | 62.2 ± 2.53 (86) | 57.0 – 68.0 | |
| | | | Tarsus | 24.5 ± 0.86 (25) | 23.3 – 27.0 | 25.0 ± 0.82 (29) | 23.5 – 27.0 | 24.8 ± 0.87 (54) | 23.3 – 27.0 | 24.8 ± 0.87 (54) | 23.3 – 27.0 | |
| | | | Wing | 99.8 ± 2.61 (50) | 93.0 – 105.0 | 103.8 ± 3.15 (44) | 96.0 – 112.0 | 101.7 ± 3.49 (94) | 93.0 – 112.0 | 101.7 ± 3.49 (94) | 93.0 – 112.0 | |
| <i>Ploceus cucullatus</i> (Village Weaver – 797) | | | | | | | | | | | | |
| | | | Culmen | 20.6 ± 1.34 (2) | 19.6 – 21.5 | 21.2 ± 0.80 (31) | 17.5 – 21.0 | 21.2 ± 0.80 (31) | 17.5 – 21.0 | 20.8 ± 1.02 (3) | 19.6 – 21.5 | |
| | | | Head | 35.7 ± 0.21 (2) | 35.5 – 35.8 | 34.3 ± 0.57 (31) | 33.1 – 35.3 | 36.8 ± 0.68 (3) | 35.5 – 36.8 | 36.0 ± 0.68 (3) | 35.5 – 36.8 | |
| | | | Mass | 32.8 ± 2.47 (2) | 31.0 – 34.5 | 22.0 ± 1.53 (45) | 18.9 – 26.2 | 26.8 ± 0.68 (3) | 26.8 – 34.5 | 30.8 ± 3.86 (3) | 26.8 – 34.5 | |
| | | | Tail | 53.5 ± 4.85 (2) | 50.0 – 57.0 | 50.7 ± 1.98 (45) | 47.0 – 56.0 | 58.0 ± 0.68 (3) | 50.0 – 58.0 | 55.0 ± 4.36 (3) | 50.0 – 58.0 | |
| | | | Tarsus | 21.0 ± 0.07 (2) | 20.9 – 21.0 | 21.3 ± 0.53 (31) | 20.1 – 22.9 | 24.4 ± 0.68 (3) | 20.9 – 24.4 | 22.1 ± 1.99 (3) | 20.9 – 24.4 | |
| | | | Wing | 80.0 ± 1.41 (2) | 79.0 – 81.0 | 73.6 ± 1.63 (45) | 70.0 – 78.0 | 78.0 ± 0.68 (3) | 78.0 – 81.0 | 79.3 ± 1.53 (3) | 78.0 – 81.0 | |
| <i>Ploceus intermedius</i> (Lesser Masked Weaver – 792) | | | | | | | | | | | | |
| | | | Culmen | 18.4 ± 0.89 (34) | 16.6 – 19.9 | 19.2 ± 0.80 (31) | 17.5 – 21.0 | 18.8 ± 0.94 (65) | 16.6 – 21.0 | 18.8 ± 0.94 (65) | 16.6 – 21.0 | |
| | | | Head | 33.2 ± 0.76 (34) | 31.8 – 34.6 | 34.3 ± 0.57 (31) | 33.1 – 35.3 | 33.7 ± 0.87 (65) | 31.8 – 35.3 | 33.7 ± 0.87 (65) | 31.8 – 35.3 | |
| | | | Mass | 19.3 ± 1.36 (41) | 16.2 – 22.4 | 22.0 ± 1.53 (45) | 18.9 – 26.2 | 20.7 ± 1.97 (86) | 16.2 – 26.2 | 20.7 ± 1.97 (86) | 16.2 – 26.2 | |
| | | | Tail | 48.5 ± 1.67 (41) | 46.0 – 52.0 | 50.7 ± 1.98 (45) | 47.0 – 56.0 | 49.7 ± 2.12 (86) | 46.0 – 56.0 | 49.7 ± 2.12 (86) | 46.0 – 56.0 | |
| | | | Tarsus | 20.8 ± 0.77 (34) | 19.3 – 22.2 | 21.3 ± 0.53 (31) | 20.1 – 22.9 | 21.1 ± 0.72 (65) | 19.3 – 22.9 | 21.1 ± 0.72 (65) | 19.3 – 22.9 | |
| | | | Wing | 70.5 ± 2.10 (42) | 67.0 – 74.0 | 73.6 ± 1.63 (45) | 70.0 – 78.0 | 72.1 ± 2.45 (87) | 67.0 – 78.0 | 72.1 ± 2.45 (87) | 67.0 – 78.0 | |
| <i>Ploceus ocularis</i> (Spectacled Weaver – 791) | | | | | | | | | | | | |
| | | | Culmen | 20.9 ± 0.71 (2) | 20.4 – 21.4 | 22.1 ± 0.06 (3) | 22.0 – 22.1 | 21.6 ± 0.73 (5) | 20.4 – 22.1 | 21.6 ± 0.73 (5) | 20.4 – 22.1 | |
| | | | Head | 36.9 ± 1.06 (2) | 36.1 – 37.6 | 37.4 ± 0.52 (3) | 36.8 – 37.7 | 37.2 ± 0.71 (5) | 36.1 – 37.7 | 37.2 ± 0.71 (5) | 36.1 – 37.7 | |
| <i>P. o. crocatus</i> | | | | | | | | | | | | |



| Family | Species | Subspecies | Measurement | Female | | | Male | | | Total | | |
|--|---------------------------|------------|-------------|-------------------|-------------|-------------------|-------------|-------------------|-------------|---------------|-------|--|
| | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | |
| <i>Ploceus rubiginosus</i> (Chestnut Weaver – 796) | <i>P. r. trochae</i> | | Mass | 22.0 ± 0.28 (2) | 21.8 – 22.2 | 22.3 ± 1.15 (3) | 21.1 – 23.4 | 22.2 ± 0.84 (5) | 21.1 – 23.4 | | | |
| | | | Tail | 60.0 ± 4.24 (2) | 57.0 – 63.0 | 61.0 ± 2.65 (3) | 59.0 – 64.0 | 60.6 ± 2.88 (5) | 57.0 – 64.0 | | | |
| | | | Tarsus | 23.0 ± 0.35 (2) | 22.7 – 23.2 | 23.0 ± 0.32 (3) | 22.8 – 23.4 | 23.0 ± 0.29 (5) | 22.7 – 23.4 | | | |
| | | | Wing | 73.5 ± 2.12 (2) | 72.0 – 75.0 | 75.0 ± 2.00 (3) | 73.0 – 77.0 | 74.4 ± 1.95 (5) | 72.0 – 77.0 | | | |
| <i>Ploceus velatus</i> (Southern Masked Weaver – 803) | <i>P. v. caurinus</i> | | Culmen | 21.2 ± 0.81 (45) | 19.7 – 23.1 | 22.5 ± 1.16 (37) | 19.1 – 24.8 | 20.3 ± 1.28 (33) | 17.4 – 22.2 | | | |
| | | | Head | 35.1 ± 0.83 (45) | 33.5 – 37.3 | 36.9 ± 1.02 (37) | 34.4 – 38.2 | 35.2 ± 0.96 (33) | 33.1 – 37.3 | | | |
| | | | Mass | 29.2 ± 2.65 (98) | 23.6 – 35.5 | 33.6 ± 2.31 (63) | 26.9 – 38.8 | 28.7 ± 2.91 (42) | 21.4 – 36.8 | | | |
| | | | Tail | 50.2 ± 2.32 (95) | 46.0 – 57.0 | 53.6 ± 2.80 (57) | 46.0 – 57.0 | 49.6 ± 2.55 (42) | 42.0 – 56.0 | | | |
| <i>Ploceus xanthops</i> (Holub's Golden Weaver – 801) | monotypic | | Tarsus | 21.2 ± 0.64 (39) | 19.7 – 22.5 | 22.4 ± 0.75 (37) | 20.4 – 23.5 | 21.7 ± 1.24 (26) | 19.8 – 25.1 | | | |
| | | | Wing | 77.7 ± 2.40 (96) | 72.0 – 86.0 | 82.9 ± 2.37 (57) | 76.0 – 90.0 | 77.9 ± 2.57 (42) | 73.0 – 83.0 | | | |
| | | | Culmen | 17.4 ± 0.67 (45) | 16.0 – 18.8 | 18.4 ± 0.76 (119) | 15.7 – 20.2 | 17.2 ± 1.02 (29) | 14.7 – 19.0 | | | |
| | | | Head | 31.4 ± 0.71 (48) | 30.0 – 32.8 | 32.8 ± 0.61 (122) | 31.3 – 34.4 | 32.4 ± 0.97 (30) | 30.5 – 33.9 | | | |
| <i>Ploceus xanthopterus</i> (Southern Brown-throated Weaver – 802) | <i>P. x. castaneigula</i> | | Mass | 20.8 ± 2.0 (294) | 16.9 – 27.0 | 24.0 ± 1.71 (457) | 19.0 – 33.0 | 22.8 ± 2.17 (102) | 18.0 – 30.0 | | | |
| | | | Tail | 47.7 ± 2.52 (266) | 39.0 – 60.0 | 51.2 ± 2.39 (427) | 46.0 – 63.0 | 50.5 ± 2.49 (94) | 45.0 – 57.0 | | | |
| | | | Tarsus | 20.1 ± 1.64 (45) | 18.3 – 29.8 | 21.6 ± 0.78 (120) | 18.6 – 23.4 | 21.1 ± 1.13 (28) | 18.7 – 23.2 | | | |
| | | | Wing | 70.1 ± 2.35 (425) | 64.0 – 79.0 | 75.8 ± 2.24 (596) | 64.0 – 82.0 | 72.9 ± 2.46 (135) | 65.0 – 78.0 | | | |
| <i>Ploceus xanthopterus</i> (Southern Brown-throated Weaver – 802) | <i>P. x. castaneigula</i> | | Culmen | 22.1 ± 0.80 (4) | 20.9 – 22.7 | 22.4 ± 0.85 (2) | 21.8 – 23.0 | 22.2 ± 0.75 (6) | 20.9 – 23.0 | | | |
| | | | Head | 36.3 ± 1.03 (4) | 37.3 – 39.6 | 39.2 ± 0.28 (2) | 39.0 – 39.4 | 38.6 ± 0.93 (6) | 37.3 – 39.6 | | | |
| | | | Mass | 38.1 ± 1.24 (4) | 36.3 – 39.0 | 43.8 ± 2.87 (3) | 40.6 – 46.2 | 40.5 ± 3.56 (7) | 36.3 – 46.2 | | | |
| | | | Tail | 68.3 ± 2.63 (4) | 66.0 – 72.0 | 73.5 ± 1.73 (4) | 72.0 – 76.0 | 70.9 ± 3.48 (8) | 66.0 – 76.0 | | | |
| <i>Ploceus xanthopterus</i> (Southern Brown-throated Weaver – 802) | <i>P. x. castaneigula</i> | | Tarsus | 25.8 ± 0.85 (4) | 25.0 – 27.0 | 27.3 ± 0.14 (2) | 27.2 – 27.4 | 26.3 ± 1.02 (6) | 25.0 – 27.4 | | | |
| | | | Wing | 88.8 ± 2.87 (4) | 87.0 – 93.0 | 95.3 ± 4.50 (4) | 89.0 – 99.0 | 92.0 ± 4.93 (8) | 87.0 – 99.0 | | | |
| | | | Culmen | 20.7 ± 1.05 (6) | 19.4 – 22.3 | 21.7 ± 0.67 (6) | 21.1 – 22.6 | 21.2 ± 1.01 (12) | 19.4 – 22.6 | | | |
| | | | Head | 34.8 ± 0.65 (6) | 34.3 – 36.1 | 37.5 ± 0.77 (6) | 36.3 – 38.5 | 36.1 ± 1.53 (12) | 34.3 – 38.5 | | | |
| <i>Ploceus xanthopterus</i> (Southern Brown-throated Weaver – 802) | <i>P. x. castaneigula</i> | | Mass | 22.4 ± 3.36 (15) | 19.3 – 33.2 | 29.2 ± 2.73 (44) | 20.4 – 33.9 | 27.5 ± 4.12 (59) | 19.3 – 33.9 | | | |
| | | | Tail | 53.2 ± 2.27 (15) | 49.0 – 58.0 | 57.9 ± 2.18 (39) | 52.0 – 63.0 | 56.6 ± 3.06 (54) | 49.0 – 63.0 | | | |
| | | | Tarsus | 22.5 ± 1.18 (6) | 21.2 – 24.2 | 24.7 ± 0.30 (4) | 24.4 – 25.1 | 23.4 ± 1.47 (10) | 21.2 – 25.1 | | | |
| | | | Wing | 73.1 ± 3.19 (17) | 68.0 – 82.0 | 81.2 ± 2.40 (44) | 76.0 – 86.0 | 78.9 ± 4.51 (61) | 68.0 – 86.0 | | | |



| Family | Species | Subspecies | Measurement | Female | | | Male | | | Unknown | | | Total | | | | |
|--|---------|---------------------------|-------------|--------------------------|--------------------|-------------------------|--------------------|--------------------------|--------------------|--------------------------|--------------------|---------------|-------|--|--|--|--|
| | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | | | | |
| <i>Quelea quelea</i> (Red-billed Quelea – 805) | | | | | | | | | | | | | | | | | |
| | | <i>Q. q. lathamii</i> | | | | | | | | | | | | | | | |
| | | | Culmen | 16.1 ± 0.26 (5) | 15.7 – 16.4 | 15.9 ± 1.20 (7) | 14.5 – 17.4 | 15.7 ± 0.50 (8) | 15.0 – 16.7 | 15.9 ± 0.77 (20) | 14.5 – 17.4 | | | | | | |
| | | | Head | 27.3 ± 0.30 (5) | 26.9 – 27.7 | 27.7 ± 0.62 (7) | 26.8 – 28.3 | 27.4 ± 1.65 (9) | 23.5 – 29.3 | 27.5 ± 1.12 (21) | 23.5 – 29.3 | | | | | | |
| | | | Mass | 17.8 ± 1.71 (75) | 14.7 – 23.0 | 17.8 ± 1.85 (71) | 13.6 – 22.3 | 17.1 ± 1.56 (78) | 13.4 – 20.6 | 17.6 ± 1.73 (224) | 13.4 – 23.0 | | | | | | |
| | | | Tail | 36.9 ± 1.21 (22) | 34.0 – 38.0 | 37.9 ± 1.95 (43) | 33.0 – 43.0 | 37.4 ± 2.03 (62) | 34.0 – 42.0 | 37.5 ± 1.90 (127) | 33.0 – 43.0 | | | | | | |
| | | | Tarsus | 18.1 ± 0.43 (5) | 17.7 – 18.7 | 18.7 ± 0.73 (7) | 17.8 – 19.8 | 18.2 ± 0.93 (9) | 16.1 – 19.3 | 18.3 ± 0.78 (21) | 16.1 – 19.8 | | | | | | |
| | | | Wing | 65.3 ± 2.83 (26) | 60.0 – 74.0 | 66.3 ± 1.99 (44) | 62.0 – 71.0 | 65.3 ± 2.03 (66) | 61.0 – 70.0 | 65.6 ± 2.22 (136) | 60.0 – 74.0 | | | | | | |
| <i>Sporopipes squamifrons</i> (Scaly-feathered Weaver – 789) | | | | | | | | | | | | | | | | | |
| | | <i>S. s. squamifrons</i> | | | | | | | | | | | | | | | |
| | | | Culmen | 12.4 ± 1.40 (9) | 10.0 – 15.0 | 12.7 ± 0 (1) | | 12.0 ± 1.01 (32) | 9.0 – 14.0 | 12.1 ± 1.09 (42) | 9.0 – 15.0 | | | | | | |
| | | | Head | 23.2 ± 0.47 (8) | 22.7 – 24.1 | 24.2 ± 0 (1) | | 23.1 ± 0.47 (32) | 22.1 – 24.0 | 23.1 ± 0.49 (41) | 22.1 – 24.2 | | | | | | |
| | | | Mass | 11.2 ± 0.93 (124) | 9.4 – 13.8 | 11.0 ± 0.72 (70) | 9.2 – 12.7 | 11.0 ± 0.78 (270) | 6.5 – 13.2 | 11.0 ± 0.82 (464) | 6.5 – 13.8 | | | | | | |
| | | | Tail | 39.1 ± 1.71 (109) | 35.0 – 44.0 | 40.0 ± 1.49 (52) | 37.0 – 44.0 | 39.4 ± 2.20 (187) | 30.0 – 51.0 | 39.4 ± 1.98 (348) | 30.0 – 51.0 | | | | | | |
| | | | Tarsus | 15.0 ± 0.29 (8) | 14.6 – 15.5 | 15.9 ± 0 (1) | | 15.2 ± 0.56 (32) | 14.0 – 16.1 | 15.1 ± 0.52 (41) | 14.0 – 16.1 | | | | | | |
| | | | Wing | 56.7 ± 1.62 (117) | 51.0 – 61.0 | 57.9 ± 1.35 (58) | 55.0 – 63.0 | 56.7 ± 2.16 (237) | 49.0 – 72.0 | 56.8 ± 1.96 (412) | 49.0 – 72.0 | | | | | | |
| Pycnonotidae (Bulbuls) | | | | | | | | | | | | | | | | | |
| <i>Chlorocichla flaviventris</i> (Yellow-bellied Greenbul – 550) | | | | | | | | | | | | | | | | | |
| | | <i>C. f. flaviventris</i> | | | | | | | | | | | | | | | |
| | | | Culmen | 22.8 ± 1.12 (5) | 21.8 – 24.5 | 23.5 ± 0.59 (4) | 22.9 – 24.3 | 22.9 ± 1.07 (17) | 21.4 – 24.8 | 23.0 ± 1.01 (26) | 21.4 – 24.8 | | | | | | |
| | | | Head | 41.5 ± 0.77 (5) | 40.6 – 42.7 | 42.5 ± 0.53 (4) | 42.1 – 43.3 | 41.9 ± 1.18 (17) | 39.6 – 44.0 | 41.9 ± 1.06 (26) | 39.6 – 44.0 | | | | | | |
| | | | Mass | 38.2 ± 4.32 (5) | 33.7 – 44.9 | 39.1 ± 1.99 (4) | 37.3 – 41.2 | 37.6 ± 3.23 (17) | 32.1 – 43.7 | 38.0 ± 3.23 (26) | 32.1 – 44.9 | | | | | | |
| | | | Tail | 94.0 ± 1.87 (5) | 92.0 – 97.0 | 96.0 ± 1.73 (3) | 94.0 – 97.0 | 96.4 ± 3.23 (14) | 91.0 – 101.0 | 95.8 ± 2.91 (22) | 91.0 – 101.0 | | | | | | |
| | | | Tarsus | 24.6 ± 0.35 (5) | 24.2 – 25.0 | 23.9 ± 1.04 (4) | 22.8 – 25.3 | 24.5 ± 0.77 (17) | 23.1 – 25.7 | 24.4 ± 0.76 (26) | 22.8 – 25.7 | | | | | | |
| | | | Wing | 98.8 ± 2.77 (5) | 96.0 – 103.0 | 103.3 ± 4.35 (4) | 97.0 – 107.0 | 100.8 ± 3.97 (17) | 94.0 – 106.0 | 100.8 ± 3.92 (26) | 94.0 – 107.0 | | | | | | |
| <i>Phyllostrephus terrestris</i> (Terrestrial Brownbul – 546) | | | | | | | | | | | | | | | | | |
| | | <i>P. t. rhodesiae</i> | | | | | | | | | | | | | | | |
| | | | Culmen | 22.8 ± 0.97 (5) | 21.7 – 24.1 | 23.2 ± 1.62 (4) | 21.0 – 24.5 | 23.0 ± 1.22 (9) | 21.0 – 24.5 | 23.0 ± 1.22 (9) | 21.0 – 24.5 | | | | | | |
| | | | Head | 42.2 ± 1.96 (5) | 40.0 – 45.4 | 43.2 ± 1.30 (4) | 42.2 – 45.1 | 42.6 ± 1.68 (9) | 40.0 – 45.4 | 42.6 ± 1.68 (9) | 40.0 – 45.4 | | | | | | |
| | | | Mass | 30.2 ± 4.22 (5) | 25.9 – 35.5 | 32.4 ± 1.62 (4) | 30.7 – 33.9 | 31.2 ± 3.35 (9) | 25.9 – 35.5 | 31.2 ± 3.35 (9) | 25.9 – 35.5 | | | | | | |
| | | | Tail | 91.0 ± 3.74 (5) | 86.0 – 96.0 | 96.3 ± 2.87 (4) | 93.0 – 100.0 | 93.3 ± 4.21 (9) | 86.0 – 100.0 | 93.3 ± 4.21 (9) | 86.0 – 100.0 | | | | | | |
| | | | Tarsus | 23.5 ± 1.05 (5) | 22.5 – 25.2 | 23.9 ± 0.49 (4) | 23.5 – 24.5 | 23.7 ± 0.83 (9) | 22.5 – 25.2 | 23.7 ± 0.83 (9) | 22.5 – 25.2 | | | | | | |
| | | | Wing | 86.6 ± 4.10 (5) | 83.0 – 93.0 | 91.8 ± 0.50 (4) | 91.0 – 92.0 | 88.9 ± 3.98 (9) | 83.0 – 93.0 | 88.9 ± 3.98 (9) | 83.0 – 93.0 | | | | | | |
| <i>Pycnonotus nigricans</i> (African Red-eyed Bulbul – 544) | | | | | | | | | | | | | | | | | |
| | | <i>P. n. nigricans</i> | | | | | | | | | | | | | | | |
| | | | Culmen | 20.0 ± 1.22 (55) | 18.0 – 24.2 | 20.3 ± 1.18 (41) | 17.5 – 23.8 | 19.3 ± 1.74 (95) | 16.6 – 28.3 | 19.7 ± 1.55 (191) | 16.6 – 28.3 | | | | | | |
| | | | Head | 37.3 ± 1.03 (56) | 31.3 – 38.9 | 38.1 ± 0.85 (41) | 36.1 – 39.7 | 37.6 ± 0.93 (98) | 32.9 – 39.6 | 37.6 ± 0.99 (195) | 31.3 – 39.7 | | | | | | |

| Family | Species | Subspecies | Measurement | Female | | | Male | | | Unknown | | | Total | | |
|---|--|-------------------------|--------------------|-------------------|--------------------|-------------------|-------------------|-------------------|--------------------|-------------------|--------------|---------------|-------|--|--|
| | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | | |
| Remizidae (Penduline Tits) | <i>Anthoscopus minutus</i> (Cape Penduline Tit – 531) | <i>A. m. damarensis</i> | Mass | 28.8 ± 3.02 (165) | 18.2 – 41.7 | 29.3 ± 2.66 (109) | 21.0 – 36.5 | 29.1 ± 2.58 (333) | 20.1 – 38.0 | 29.0 ± 2.72 (607) | 18.2 – 41.7 | | | | |
| | | | Tail | 79.5 ± 4.02 (147) | 61.0 – 96.0 | 80.9 ± 3.88 (108) | 67.0 – 95.0 | 80.4 ± 3.52 (307) | 69.0 – 92.0 | 80.2 ± 3.75 (562) | 61.0 – 96.0 | | | | |
| | | | Tarsus | 20.9 ± 0.78 (55) | 18.6 – 22.3 | 21.0 ± 0.91 (41) | 19.5 – 24.1 | 21.0 ± 0.88 (94) | 18.9 – 24.0 | 21.0 ± 0.86 (190) | 18.6 – 24.1 | | | | |
| | | | Wing | 92.4 ± 3.10 (162) | 82.0 – 104.0 | 95.0 ± 3.22 (112) | 87.0 – 108.0 | 94.1 ± 3.61 (335) | 80.0 – 105.0 | 93.8 ± 3.53 (609) | 80.0 – 108.0 | | | | |
| Sturnidae (Starlings, Rhabdomis) | <i>Cinnyricinclus leucogaster</i> (Violet-backed Starling – 736) | <i>C. i. verreauxi</i> | Culmen | 11.5 ± 0.79 (6) | 10.7 – 12.9 | 11.7 ± 0.49 (2) | 11.3 – 12.0 | 12.2 ± 2.09 (4) | 10.4 – 15.1 | 11.8 ± 1.26 (12) | 10.4 – 15.1 | | | | |
| | | | Head | 22.2 ± 0.44 (6) | 21.6 – 22.8 | 22.5 ± 0.35 (2) | 22.2 – 22.7 | 22.7 ± 1.69 (4) | 21.1 – 25.1 | 22.4 ± 0.98 (12) | 21.1 – 25.1 | | | | |
| | | | Mass | 6.6 ± 0.31 (6) | 6.0 – 6.9 | 6.5 ± 0.21 (2) | 6.3 – 6.6 | 6.2 ± 0.17 (4) | 5.9 – 6.3 | 6.4 ± 0.30 (12) | 5.9 – 6.9 | | | | |
| | | | Tail | 36.3 ± 2.34 (6) | 33.0 – 39.0 | 36.5 ± 2.12 (2) | 35.0 – 38.0 | 36.3 ± 2.63 (4) | 34.0 – 40.0 | 36.3 ± 2.19 (12) | 33.0 – 40.0 | | | | |
| <i>Creatophora cinerea</i> (Wattled Starling – 735) | monotypic | Tarsus | 14.4 ± 0.63 (6) | 13.5 – 15.1 | 13.2 ± 0 (2) | 13.2 – 13.2 | 15.5 ± 2.04 (4) | 14.3 – 18.5 | 14.5 ± 1.40 (12) | 13.2 – 18.5 | | | | | |
| | | Wing | 50.8 ± 1.83 (6) | 49.0 – 53.0 | 52.5 ± 2.12 (2) | 51.0 – 54.0 | 52.8 ± 1.26 (4) | 51.0 – 54.0 | 51.8 ± 1.82 (12) | 49.0 – 54.0 | | | | | |
| | | Culmen | 18.6 ± 0.76 (34) | 16.9 – 20.3 | 18.9 ± 1.18 (51) | 17.1 – 22.5 | 18.8 ± 1.04 (85) | 16.9 – 22.5 | 18.8 ± 1.04 (85) | 16.9 – 22.5 | | | | | |
| | | Head | 38.5 ± 0.71 (34) | 37.1 – 40.0 | 38.5 ± 0.99 (51) | 36.3 – 40.9 | 38.5 ± 0.88 (85) | 36.3 – 40.9 | 38.5 ± 0.88 (85) | 36.3 – 40.9 | | | | | |
| <i>Lampromornis australis</i> (Burchell's Starling – 743) | monotypic | Mass | 35.4 ± 3.22 (36) | 26.5 – 43.6 | 33.9 ± 3.11 (56) | 29.0 – 46.4 | 34.5 ± 3.22 (92) | 26.5 – 46.4 | 34.5 ± 3.22 (92) | 26.5 – 46.4 | | | | | |
| | | Tail | 57.9 ± 2.11 (36) | 52.0 – 64.0 | 60.4 ± 2.03 (57) | 55.0 – 65.0 | 59.4 ± 2.38 (93) | 52.0 – 65.0 | 59.4 ± 2.38 (93) | 52.0 – 65.0 | | | | | |
| | | Tarsus | 21.5 ± 0.77 (34) | 19.9 – 23.0 | 21.5 ± 1.50 (51) | 19.4 – 29.0 | 21.5 ± 1.25 (85) | 19.4 – 29.0 | 21.5 ± 1.25 (85) | 19.4 – 29.0 | | | | | |
| | | Wing | 98.8 ± 3.23 (36) | 89.0 – 107.0 | 102.8 ± 2.35 (57) | 97.0 – 108.0 | 101.3 ± 3.34 (93) | 89.0 – 108.0 | 101.3 ± 3.34 (93) | 89.0 – 108.0 | | | | | |
| <i>monotypic</i> | <i>monotypic</i> | Culmen | 27.6 ± 1.52 (28) | 25.1 – 33.3 | 28.0 ± 1.53 (18) | 26.1 – 31.1 | 27.5 ± 2.09 (12) | 25.0 – 32.3 | 27.7 ± 1.64 (58) | 25.0 – 33.3 | | | | | |
| | | Head | 49.2 ± 1.11 (28) | 46.2 – 51.4 | 49.4 ± 1.39 (18) | 47.0 – 52.0 | 49.8 ± 1.51 (13) | 48.3 – 53.2 | 49.4 ± 1.29 (59) | 46.2 – 53.2 | | | | | |
| | | Mass | 64.4 ± 4.06 (28) | 56.2 – 75.3 | 69.6 ± 5.18 (18) | 62.0 – 76.9 | 67.4 ± 4.88 (15) | 60.0 – 75.3 | 66.7 ± 5.06 (61) | 56.2 – 78.9 | | | | | |
| | | Tail | 68.3 ± 3.22 (27) | 62.0 – 73.0 | 69.1 ± 3.68 (18) | 61.0 – 78.0 | 67.2 ± 3.38 (14) | 61.0 – 73.0 | 68.3 ± 3.41 (59) | 61.0 – 78.0 | | | | | |
| <i>monotypic</i> | <i>monotypic</i> | Tarsus | 29.4 ± 1.01 (28) | 27.3 – 32.1 | 29.6 ± 0.93 (18) | 28.0 – 31.4 | 29.8 ± 1.16 (13) | 28.3 – 32.3 | 29.6 ± 1.01 (59) | 27.3 – 32.3 | | | | | |
| | | Wing | 117.3 ± 4.65 (28) | 103.0 – 127.0 | 121.1 ± 2.34 (18) | 117.0 – 125.0 | 118.2 ± 4.89 (15) | 112.0 – 127.0 | 118.6 ± 4.42 (61) | 103.0 – 127.0 | | | | | |
| | | Culmen | 28.9 ± 2.50 (12) | 26.7 – 34.8 | 28.9 ± 3.25 (11) | 23.1 – 36.0 | 28.1 ± 2.17 (8) | 25.0 – 31.7 | 28.7 ± 2.65 (31) | 23.1 – 36.0 | | | | | |
| | | Head | 54.9 ± 1.14 (12) | 53.4 – 56.5 | 55.8 ± 2.60 (11) | 50.0 – 58.0 | 55.7 ± 1.98 (9) | 52.9 – 58.4 | 55.5 ± 1.96 (32) | 50.0 – 58.4 | | | | | |
| <i>monotypic</i> | <i>monotypic</i> | Mass | 110.2 ± 16.33 (12) | 91.3 – 143.0 | 122.4 ± 10.21 (11) | 107.0 – 134.0 | 117.2 ± 14.76 (7) | 98.0 – 133.0 | 116.3 ± 14.56 (30) | 91.3 – 143.0 | | | | | |
| | | Tail | 160.9 ± 11.60 (10) | 148.0 – 186.0 | 162.9 ± 12.68 (10) | 140.0 – 179.0 | 164.9 ± 19.4 (8) | 143.0 – 202.0 | 162.8 ± 14.09 (28) | 140.0 – 202.0 | | | | | |
| | | Tarsus | 45.1 ± 2.99 (12) | 40.9 – 50.6 | 46.1 ± 3.06 (11) | 40.0 – 49.2 | 46.1 ± 2.33 (9) | 42.2 – 50.6 | 45.7 ± 2.80 (32) | 40.0 – 50.6 | | | | | |
| | | Wing | 178.2 ± 10.18 (12) | 162.0 – 198.0 | 185.2 ± 9.72 (11) | 167.0 – 199.0 | 181.1 ± 14.43 (9) | 160.0 – 199.0 | 181.4 ± 11.41 (32) | 160.0 – 199.0 | | | | | |



| Family | Species | Subspecies | Measurement | Female | | | Male | | | Unknown | | | Total | | | | | | | |
|---|---------|------------|-------------|-------------------|---------------|-------------------|---------------|-------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--|
| | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | | | | | | | |
| <i>Lamprotornis mevesii</i> (Meves's Starling – 742) | | | | | | | | | | | | | | | | | | | | |
| <i>L. m. mevesii</i> | | | | | | | | | | | | | | | | | | | | |
| | | | Culmen | | | | | | | | | | | | | | | | | |
| | | | Head | | | | | | | | | | | | | | | | | |
| | | | Mass | | | | | | | | | | | | | | | | | |
| | | | Tail | | | | | | | | | | | | | | | | | |
| | | | Tarsus | | | | | | | | | | | | | | | | | |
| | | | Wing | | | | | | | | | | | | | | | | | |
| <i>Lamprotornis nitens</i> (Cape Starling – 737) | | | | | | | | | | | | | | | | | | | | |
| monotypic | | | | | | | | | | | | | | | | | | | | |
| | | | Culmen | 25.8 ± 1.23 (60) | 23.5 – 29.6 | 26.0 ± 1.80 (23) | 21.5 – 29.2 | 25.0 ± 1.50 (75) | 20.9 – 29.9 | 25.4 ± 1.51 (158) | 20.9 – 29.9 | 22.1 ± 1.81 (37) | 18.3 – 26.8 | 22.1 ± 1.81 (37) | 18.3 – 26.8 | 22.1 ± 1.81 (37) | 18.3 – 26.8 | 22.1 ± 1.81 (37) | 18.3 – 26.8 | |
| | | | Head | 49.4 ± 1.44 (61) | 46.4 – 52.5 | 50.2 ± 1.37 (22) | 48.3 – 53.0 | 49.6 ± 1.59 (74) | 45.0 – 54.0 | 49.6 ± 1.52 (157) | 45.0 – 54.0 | 48.5 ± 1.30 (36) | 45.4 – 50.5 | 48.5 ± 1.30 (36) | 45.4 – 50.5 | 48.5 ± 1.30 (36) | 45.4 – 50.5 | 48.5 ± 1.30 (36) | 45.4 – 50.5 | |
| | | | Mass | 73.0 ± 6.83 (69) | 55.9 – 89.4 | 78.6 ± 6.58 (25) | 66.2 – 92.0 | 76.4 ± 6.58 (80) | 57.7 – 91.2 | 75.4 ± 6.95 (174) | 57.7 – 91.2 | 75.1 ± 8.04 (38) | 62.0 – 94.0 | 75.1 ± 8.04 (38) | 62.0 – 94.0 | 75.1 ± 8.04 (38) | 62.0 – 94.0 | 75.1 ± 8.04 (38) | 62.0 – 94.0 | |
| | | | Tail | 83.1 ± 4.05 (67) | 74.0 – 98.0 | 85.6 ± 4.86 (23) | 75.0 – 93.0 | 84.2 ± 3.78 (81) | 74.0 – 95.0 | 84.0 ± 4.10 (171) | 74.0 – 95.0 | 84.0 ± 4.10 (171) | 74.0 – 98.0 | 84.0 ± 4.10 (171) | 74.0 – 98.0 | 84.0 ± 4.10 (171) | 74.0 – 98.0 | 84.0 ± 4.10 (171) | 74.0 – 98.0 | |
| | | | Tarsus | 32.8 ± 1.42 (61) | 29.4 – 36.8 | 34.2 ± 1.43 (21) | 31.3 – 36.7 | 33.0 ± 1.63 (73) | 28.6 – 36.5 | 33.1 ± 1.58 (155) | 28.6 – 36.5 | 33.1 ± 1.58 (155) | 28.6 – 36.8 | 33.1 ± 1.58 (155) | 28.6 – 36.8 | 33.1 ± 1.58 (155) | 28.6 – 36.8 | 33.1 ± 1.58 (155) | 28.6 – 36.8 | |
| | | | Wing | 129.4 ± 6.38 (68) | 116.0 – 152 | 133.2 ± 5.28 (25) | 120.0 – 142.0 | 130.0 ± 5.10 (82) | 117.0 – 140.0 | 130.2 ± 5.76 (175) | 117.0 – 140.0 | 130.2 ± 5.76 (175) | 116.0 – 152.0 | 130.2 ± 5.76 (175) | 116.0 – 152.0 | 130.2 ± 5.76 (175) | 116.0 – 152.0 | 130.2 ± 5.76 (175) | 116.0 – 152.0 | |
| <i>Onychognathus nabouroup</i> (Pale-winged Starling – 744) | | | | | | | | | | | | | | | | | | | | |
| monotypic | | | | | | | | | | | | | | | | | | | | |
| | | | Culmen | 28.6 ± 0.83 (4) | 27.8 – 29.5 | 29.1 ± 1.28 (4) | 27.5 – 30.6 | 29.3 ± 1.99 (8) | 25.5 – 32.5 | 29.1 ± 1.55 (16) | 25.5 – 32.5 | 29.1 ± 1.55 (16) | 25.5 – 32.5 | 29.1 ± 1.55 (16) | 25.5 – 32.5 | 29.1 ± 1.55 (16) | 25.5 – 32.5 | 29.1 ± 1.55 (16) | 25.5 – 32.5 | |
| | | | Head | 54.2 ± 0.70 (4) | 53.3 – 55.0 | 55.6 ± 1.52 (4) | 53.7 – 57.0 | 54.4 ± 1.73 (9) | 52.1 – 57.6 | 54.6 ± 1.52 (17) | 52.1 – 57.6 | 54.6 ± 1.52 (17) | 52.1 – 57.6 | 54.6 ± 1.52 (17) | 52.1 – 57.6 | 54.6 ± 1.52 (17) | 52.1 – 57.6 | 54.6 ± 1.52 (17) | 52.1 – 57.6 | |
| | | | Mass | 102.8 ± 13.32 (5) | 86.6 – 120.0 | 100.2 ± 5.15 (5) | 94.3 – 108.0 | 98.3 ± 10.40 (11) | 75.2 – 111.0 | 99.8 ± 9.93 (21) | 75.2 – 111.0 | 99.8 ± 9.93 (21) | 75.2 – 120.0 | 99.8 ± 9.93 (21) | 75.2 – 120.0 | 99.8 ± 9.93 (21) | 75.2 – 120.0 | 99.8 ± 9.93 (21) | 75.2 – 120.0 | |
| | | | Tail | 105.8 ± 6.50 (4) | 100.0 – 115.0 | 108.4 ± 2.70 (5) | 104.0 – 111.0 | 106.7 ± 6.10 (11) | 99.0 – 119.0 | 107.0 ± 5.38 (20) | 99.0 – 119.0 | 107.0 ± 5.38 (20) | 99.0 – 119.0 | 107.0 ± 5.38 (20) | 99.0 – 119.0 | 107.0 ± 5.38 (20) | 99.0 – 119.0 | 107.0 ± 5.38 (20) | 99.0 – 119.0 | |
| | | | Tarsus | 32.9 ± 0.72 (4) | 32.2 – 33.7 | 32.5 ± 1.23 (4) | 31.4 – 33.8 | 33.2 ± 1.77 (9) | 30.0 – 35.1 | 33.0 ± 1.42 (17) | 30.0 – 35.1 | 33.0 ± 1.42 (17) | 30.0 – 35.1 | 33.0 ± 1.42 (17) | 30.0 – 35.1 | 33.0 ± 1.42 (17) | 30.0 – 35.1 | 33.0 ± 1.42 (17) | 30.0 – 35.1 | |
| | | | Wing | 143.0 ± 3.16 (4) | 139.0 – 146.0 | 145.8 ± 2.17 (5) | 143.0 – 149.0 | 143.6 ± 5.50 (11) | 135.0 – 151.0 | 144.1 ± 4.43 (20) | 135.0 – 151.0 | 144.1 ± 4.43 (20) | 135.0 – 151.0 | 144.1 ± 4.43 (20) | 135.0 – 151.0 | 144.1 ± 4.43 (20) | 135.0 – 151.0 | 144.1 ± 4.43 (20) | 135.0 – 151.0 | |
| <i>Curruca communis</i> (Common Whitethroat – 594) | | | | | | | | | | | | | | | | | | | | |
| mixed ssp | | | | | | | | | | | | | | | | | | | | |
| | | | Culmen | 16.3 ± 0 (1) | | | | | | | | | | | | | | | | |
| | | | Head | 31.3 ± 0.71 (2) | 30.8 – 31.8 | | | | | | | | | | | | | | | |
| | | | Mass | 14.3 ± 0.99 (2) | 13.6 – 15.0 | | | | | | | | | | | | | | | |
| | | | Tail | 59.0 ± 2.83 (2) | 57.0 – 61.0 | | | | | | | | | | | | | | | |
| | | | Tarsus | 21.7 ± 0.49 (2) | 21.3 – 22.0 | | | | | | | | | | | | | | | |
| | | | Wing | 70.0 ± 1.41 (2) | 69.0 – 71.0 | | | | | | | | | | | | | | | |
| <i>Curruca subcoerulea</i> (Chestnut-vented Warbler – 658) | | | | | | | | | | | | | | | | | | | | |
| C. s. cinerascens | | | | | | | | | | | | | | | | | | | | |
| | | | Culmen | 15.4 ± 0.81 (61) | 13.4 – 17.4 | 15.4 ± 0.73 (38) | 13.5 – 16.7 | 15.3 ± 1.04 (51) | 12.8 – 19.0 | 15.4 ± 0.88 (150) | 12.8 – 19.0 | 15.4 ± 0.88 (150) | 12.8 – 19.0 | 15.4 ± 0.88 (150) | 12.8 – 19.0 | 15.4 ± 0.88 (150) | 12.8 – 19.0 | 15.4 ± 0.88 (150) | 12.8 – 19.0 | |
| | | | Head | 31.1 ± 0.90 (61) | 25.9 – 32.4 | 31.6 ± 1.69 (38) | 30.1 – 41.0 | 31.3 ± 0.88 (51) | 29.6 – 32.8 | 31.3 ± 1.11 (150) | 29.6 – 32.8 | 31.3 ± 1.11 (150) | 29.6 – 32.8 | 31.3 ± 1.11 (150) | 29.6 – 32.8 | 31.3 ± 1.11 (150) | 29.6 – 32.8 | 31.3 ± 1.11 (150) | 29.6 – 32.8 | |

| Family | Species | Subspecies | Measurement | Female | | | Male | | | Total | | |
|--|---|------------|------------------|-----------------|-------------------|------------------|------------------|-----------------|-------------------|------------------|-------------|--|
| | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | |
| <i>Sylvia borin</i> (Garden Warbler – 595) | Mass | | 14.1 ± 1.05 (72) | 12.3 – 17.4 | 13.3 ± 0.78 (39) | 11.5 – 15.0 | 13.7 ± 1.01 (56) | 11.5 – 17.9 | 13.8 ± 1.02 (167) | 11.5 – 17.9 | | |
| | Tail | | 69.6 ± 2.83 (71) | 62.0 – 80.0 | 69.6 ± 2.70 (40) | 65.0 – 78.0 | 69.2 ± 2.97 (53) | 63.0 – 74.0 | 69.5 ± 2.84 (164) | 62.0 – 80.0 | | |
| | Tarsus | | 21.3 ± 0.75 (61) | 17.2 – 22.9 | 21.4 ± 0.63 (37) | 20.0 – 23.5 | 21.4 ± 0.74 (47) | 19.8 – 23.0 | 21.4 ± 0.71 (145) | 17.2 – 23.5 | | |
| | Wing | | 67.4 ± 1.84 (72) | 61.0 – 72.0 | 67.3 ± 1.54 (40) | 64.0 – 73.0 | 67.2 ± 2.31 (55) | 64.0 – 77.0 | 67.3 ± 1.93 (167) | 61.0 – 77.0 | | |
| <i>S. b. woodwardi</i> | Culmen | | | | 15.5 ± 0 (1) | | 16.1 ± 1.29 (7) | 14.0 – 17.8 | 16.0 ± 1.21 (8) | 14.0 – 17.8 | | |
| | Head | | | | 32.0 ± 0 (1) | | 33.0 ± 0.98 (7) | 31.8 – 34.6 | 32.9 ± 0.98 (8) | 31.8 – 34.6 | | |
| | Mass | | | | 20.0 ± 0 (1) | | 21.1 ± 6.02 (7) | 16.7 – 34.4 | 20.9 ± 5.59 (8) | 16.7 – 34.4 | | |
| | Tail | | | | 57.0 ± 0 (1) | | 59.0 ± 4.94 (6) | 54.0 – 68.0 | 58.7 ± 4.57 (7) | 54.0 – 68.0 | | |
| Turdidae (Thrushes) | Tarsus | | | | 20.3 ± 0 (1) | | 20.4 ± 0.33 (6) | 20.1 – 21.0 | 20.4 ± 0.31 (7) | 20.1 – 21.0 | | |
| | Wing | | | | 75.0 ± 0 (1) | | 79.7 ± 4.07 (7) | 76.0 – 87.0 | 79.1 ± 4.12 (8) | 75.0 – 87.0 | | |
| | <i>Turdus litsitsirupa</i> (Groundscraper Thrush – 557) mixed ssp | Culmen | | 30.8 ± 0.46 (3) | 30.3 – 31.2 | 31.2 ± 1.79 (10) | 27.5 – 33.2 | 30.8 ± 2.61 (7) | 28.2 – 34.0 | 31.0 ± 1.93 (20) | 27.5 – 34.0 | |
| | | Head | | 55.7 ± 0.38 (3) | 55.3 – 56.0 | 56.8 ± 1.52 (10) | 54.8 – 59.2 | 56.2 ± 1.62 (7) | 56.8 – 61.2 | 57.1 ± 1.65 (20) | 54.8 – 61.2 | |
| Mass | | | 73.2 ± 5.79 (7) | 65.4 – 80.5 | 72.8 ± 6.04 (12) | 65.6 – 84.9 | 74.0 ± 4.80 (7) | 66.6 – 82.7 | 73.2 ± 5.47 (26) | 65.4 – 84.9 | | |
| Tail | | | 69.7 ± 2.50 (7) | 66.0 – 73.0 | 71.6 ± 3.95 (10) | 65.0 – 78.0 | 70.4 ± 5.50 (7) | 63.0 – 78.0 | 70.7 ± 4.04 (24) | 63.0 – 78.0 | | |
| Vangidae (Vangas and Allies) | Tarsus | | 35.5 ± 0.49 (3) | 35.2 – 36.1 | 36.7 ± 1.51 (10) | 34.5 – 39.8 | 37.1 ± 0.58 (7) | 36.3 – 38.1 | 36.7 ± 1.22 (20) | 34.5 – 39.8 | | |
| | Wing | | 126.3 ± 2.50 (7) | 123.0 – 129.0 | 130.4 ± 3.23 (12) | 126.0 – 137.0 | 130.1 ± 4.26 (7) | 125.0 – 137.0 | 129.2 ± 3.71 (26) | 123.0 – 137.0 | | |
| | <i>Pirionops plumatus</i> (White-crested Helmetshrike – 727) <i>P. p. talacoma</i> | Culmen | | 23.9 ± 1.29 (3) | 23.0 – 25.4 | | | 20.7 ± 1.03 (7) | 19.1 – 22.5 | 21.7 ± 1.86 (10) | 19.1 – 25.4 | |
| | | Head | | 44.4 ± 0.23 (3) | 44.3 – 44.7 | | | 43.1 ± 0.96 (7) | 41.8 – 44.3 | 43.5 ± 1.01 (10) | 41.8 – 44.7 | |
| Mass | | | 37.0 ± 2.36 (3) | 34.5 – 39.2 | | | 31.7 ± 1.50 (7) | 29.3 – 33.5 | 33.3 ± 3.03 (10) | 29.3 – 39.2 | | |
| Tail | | | 88.5 ± 2.12 (2) | 87.0 – 90.0 | | | 90.7 ± 1.70 (7) | 88.0 – 93.0 | 90.2 ± 1.92 (9) | 87.0 – 93.0 | | |
| Viduidae (Indigobirds, Whydahs) | Tarsus | | 22.6 ± 0.95 (3) | 21.5 – 23.3 | | | 22.5 ± 0.52 (7) | 21.8 – 23.2 | 22.5 ± 0.62 (10) | 21.5 – 23.3 | | |
| | Wing | | 109.0 ± 2.00 (3) | 107.0 – 111.0 | | | 108.1 ± 1.68 (7) | 106.0 – 110.0 | 108.4 ± 1.71 (10) | 106.0 – 111.0 | | |
| | <i>Vidua chalybeata</i> (Village Indigobird – 851) <i>V. c. okavangoensis</i> | Culmen | | | | 11.9 ± 0 (1) | | 11.5 ± 0.29 (9) | 11.1 – 12.0 | 11.6 ± 0.30 (10) | 11.1 – 12.0 | |
| | | Head | | | | 23.6 ± 0 (1) | | 23.0 ± 0.43 (9) | 22.4 – 23.5 | 23.1 ± 0.45 (10) | 22.4 – 23.6 | |
| Mass | | | | | 12.5 ± 0 (1) | | 11.9 ± 0.59 (16) | 10.7 – 12.9 | 11.9 ± 0.59 (19) | 10.7 – 12.9 | | |
| Tail | | | | | 41.0 ± 0 (1) | | 39.1 ± 1.80 (17) | 36.0 – 42.0 | 39.2 ± 1.80 (18) | 36.0 – 42.0 | | |



| Family | Species | Subspecies | Measurement | Female | | | Male | | | Unknown | | | Total | | | |
|---|-------------------|-------------|-------------------|------------------|---------------------|-----------------|-------------------|-----------------|--------------------|---------------|------------------|---------------|-------|--|--|--|
| | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | | | |
| <i>Vidua macroura</i> (Pin-tailed Whydah – 846) | monotypic | Tarsus | | 15.1 ± 0 (1) | | | 14.9 ± 0.68 (9) | 14.0 – 15.9 | | | 14.9 ± 0.64 (10) | 14.0 – 15.9 | | | | |
| | | Wing | | 68.0 ± 0 (1) | | | 66.0 ± 1.28 (18) | 63.0 – 68.0 | | | 66.1 ± 1.33 (19) | 63.0 – 68.0 | | | | |
| | | Culmen | 11.5 ± 0 (1) | 12.2 ± 0.44 (3) | 11.7 – 12.5 | | | | | | | | | | | |
| | | Head | 23.1 ± 0 (1) | 24.1 ± 0.29 (3) | 23.8 – 24.3 | | | | | | | | | | | |
| | | Mass | 14.5 ± 0 (1) | 13.8 ± 0.49 (3) | 13.2 – 14.1 | | | 12.2 ± 0 (1) | | | | | | | | |
| | | Tail | 41.0 ± 0 (1) | 233.0 ± 2.65 (3) | 231.0 – 236.0 | | | 42.0 ± 0 (1) | | | | | | | | |
| | | Tarsus | 15.7 ± 0 (1) | 16.8 ± 0.35 (3) | 16.5 – 17.2 | | | 62.0 ± 0 (1) | | | | | | | | |
| | | Wing | 65.0 ± 0 (1) | 72.7 ± 2.08 (3) | 71.0 – 75.0 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| <i>Vidua paradisaea</i> (Long-tailed Paradise Whydah – 852) | monotypic | Culmen | 13.4 ± 0.89 (3) | 12.4 – 14.1 | 14.7 ± 0.97 (4) | 14.0 – 16.1 | 14.7 ± 0.14 (2) | 14.6 – 14.8 | 14.3 ± 0.99 (9) | 12.4 – 16.1 | | | | | | |
| | | Head | 25.9 ± 2.29 (3) | 23.3 – 27.4 | 26.3 ± 0.61 (4) | 25.5 – 26.9 | 26.3 ± 0.28 (2) | 26.1 – 26.5 | 26.2 ± 1.22 (9) | 23.3 – 27.4 | | | | | | |
| | | Mass | 19.8 ± 4.01 (4) | 13.8 – 22.2 | 19.1 ± 1.16 (4) | 17.4 – 19.8 | 18.3 ± 1.34 (2) | 17.3 – 19.2 | 19.2 ± 2.52 (10) | 13.8 – 22.2 | | | | | | |
| | | Tail | 50.3 ± 10.79 (3) | 38.0 – 58.0 | 155.3 ± 92.10 (4) | 60.0 – 241.0 | 56.0 ± 1.41 (2) | 55.0 – 57.0 | 98.2 ± 78.37 (9) | 38.0 – 241.0 | | | | | | |
| | | Tarsus | 16.7 ± 1.45 (3) | 15.0 – 17.6 | 17.9 ± 0.79 (4) | 17.2 – 19.0 | 16.6 ± 0.21 (2) | 16.4 – 16.7 | 17.2 ± 1.10 (9) | 15.0 – 19.0 | | | | | | |
| | | Wing | 78.5 ± 4.65 (4) | 72.0 – 83.0 | 79.8 ± 1.50 (4) | 78.0 – 81.0 | 79.5 ± 2.12 (2) | 78.0 – 81.0 | 79.2 ± 2.97 (10) | 72.0 – 83.0 | | | | | | |
| | | Culmen | 12.8 ± 0.70 (72) | 11.0 – 14.9 | 13.0 ± 0.65 (91) | 10.4 – 14.1 | 12.5 ± 1.20 (14) | 10.7 – 15.0 | 12.9 ± 0.73 (177) | 10.4 – 15.0 | | | | | | |
| | | Head | 24.0 ± 0.41 (75) | 22.8 – 24.9 | 24.3 ± 0.41 (93) | 22.6 – 25.2 | 24.1 ± 0.27 (14) | 23.5 – 24.5 | 24.2 ± 0.43 (182) | 22.6 – 25.2 | | | | | | |
| | | Mass | 13.9 ± 1.06 (135) | 11.0 – 18.2 | 14.9 ± 1.18 (145) | 11.6 – 19.5 | 14.0 ± 0.75 (29) | 12.6 – 16.0 | 14.4 ± 1.20 (309) | 11.0 – 19.5 | | | | | | |
| | | Tail | 42.0 ± 2.44 (120) | 36.0 – 56.0 | 145.9 ± 86.53 (135) | 38.0 – 273.0 | 43.3 ± 3.20 (27) | 39.0 – 54.0 | 91.9 ± 79.16 (282) | 36.0 – 273.0 | | | | | | |
| Tarsus | 15.9 ± 0.56 (75) | 13.8 – 16.8 | 16.3 ± 0.53 (91) | 14.9 – 17.8 | 16.1 ± 0.57 (11) | 15.2 – 17.2 | 16.1 ± 0.58 (177) | 13.8 – 17.8 | | | | | | | | |
| Wing | 71.4 ± 1.73 (122) | 65.0 – 76.0 | 73.6 ± 1.72 (141) | 68.0 – 80.0 | 71.4 ± 1.68 (28) | 66.0 – 74.0 | 72.5 ± 2.06 (291) | 65.0 – 80.0 | | | | | | | | |
| <i>Zosterops pallidus</i> (Orange River White-eye – 1171) | monotypic | Culmen | 12.8 ± 0.99 (2) | 12.1 – 13.5 | 12.7 ± 0 (1) | | | 12.8 ± 0.70 (3) | 12.1 – 13.5 | | | | | | | |
| | | Head | 25.6 ± 0.49 (2) | 25.2 – 25.9 | 26.2 ± 0 (1) | | | 25.8 ± 0.51 (3) | 25.2 – 26.2 | | | | | | | |
| | | Mass | 8.0 ± 0.14 (2) | 7.9 – 8.1 | 8.6 ± 0 (1) | | | 8.2 ± 0.36 (3) | 7.9 – 8.6 | | | | | | | |
| | | Tail | 44.5 ± 0.71 (2) | 44.0 – 45.0 | 44.0 ± 0 (1) | | | 44.3 ± 0.58 (3) | 44.0 – 45.0 | | | | | | | |
| | | Tarsus | 17.8 ± 1.41 (2) | 16.8 – 18.8 | 17.9 ± 0 (1) | | | 17.8 ± 1.00 (3) | 16.8 – 18.8 | | | | | | | |
| | | Wing | 55.5 ± 3.54 (2) | 53.0 – 58.0 | 55.0 ± 0 (1) | | | 55.3 ± 2.52 (3) | 53.0 – 58.0 | | | | | | | |
| | | Culmen | 12.8 ± 0.99 (2) | 12.1 – 13.5 | 12.7 ± 0 (1) | | | 12.8 ± 0.70 (3) | 12.1 – 13.5 | | | | | | | |
| | | Head | 25.6 ± 0.49 (2) | 25.2 – 25.9 | 26.2 ± 0 (1) | | | 25.8 ± 0.51 (3) | 25.2 – 26.2 | | | | | | | |
| | | Mass | 8.0 ± 0.14 (2) | 7.9 – 8.1 | 8.6 ± 0 (1) | | | 8.2 ± 0.36 (3) | 7.9 – 8.6 | | | | | | | |
| | | Tail | 44.5 ± 0.71 (2) | 44.0 – 45.0 | 44.0 ± 0 (1) | | | 44.3 ± 0.58 (3) | 44.0 – 45.0 | | | | | | | |
| Tarsus | 17.8 ± 1.41 (2) | 16.8 – 18.8 | 17.9 ± 0 (1) | | | 17.8 ± 1.00 (3) | 16.8 – 18.8 | | | | | | | | | |
| Wing | 55.5 ± 3.54 (2) | 53.0 – 58.0 | 55.0 ± 0 (1) | | | 55.3 ± 2.52 (3) | 53.0 – 58.0 | | | | | | | | | |

| Family | Species | Subspecies | Measurement | Female | | | Male | | | Unknown | | | Total | | | | | | | | | | | | | | |
|---|---------|------------|-------------|---------------|-------|---------------|-------|-----------------|-------------|-----------------|-------------|-----------------|-------------|-----------------|-------------|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | | | | | | | | | | | | | | |
| <i>Zosterops senegalensis</i> (Northern Yellow White-eye – 777) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Z. s. anderssoni</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Culmen | 14.9 ± 0 (1) | | 13.8 ± 0 (1) | | 13.6 ± 0.85 (4) | 12.3 – 14.1 | 13.8 ± 0.85 (6) | 12.3 – 14.1 | 13.8 ± 0.85 (6) | 12.3 – 14.1 | 13.8 ± 0.85 (6) | 12.3 – 14.9 | | | | | | | | | | | | |
| | | | Head | 26.7 ± 0 (1) | | 25.5 ± 0 (1) | | 26.6 ± 0.82 (4) | 25.6 – 27.6 | 26.4 ± 0.77 (6) | 25.6 – 27.6 | 26.4 ± 0.77 (6) | 25.6 – 27.6 | 26.4 ± 0.77 (6) | 25.5 – 27.6 | | | | | | | | | | | | |
| | | | Mass | 7.9 ± 0 (1) | | 9.2 ± 0 (1) | | 10.9 ± 2.42 (4) | 8.9 – 14.3 | 10.1 ± 2.28 (6) | 8.9 – 14.3 | 10.1 ± 2.28 (6) | 7.9 – 14.3 | 10.1 ± 2.28 (6) | 7.9 – 14.3 | | | | | | | | | | | | |
| | | | Tail | 42.0 ± 0 (1) | | 43.0 ± 0 (1) | | 43.3 ± 2.89 (4) | 40.0 – 47.0 | 43.0 ± 2.37 (6) | 40.0 – 47.0 | 43.0 ± 2.37 (6) | 40.0 – 47.0 | 43.0 ± 2.37 (6) | 40.0 – 47.0 | | | | | | | | | | | | |
| | | | Tarsus | 17.5 ± 0 (1) | | 14.0 ± 0 (1) | | 15.8 ± 0.25 (4) | 15.5 – 16.1 | 15.8 ± 1.12 (6) | 15.5 – 16.1 | 15.8 ± 1.12 (6) | 14.0 – 17.5 | 15.8 ± 1.12 (6) | 14.0 – 17.5 | | | | | | | | | | | | |
| | | | Wing | 59.0 ± 0 (1) | | 59.0 ± 0 (1) | | 60.0 ± 3.16 (4) | 56.0 – 63.0 | 59.7 ± 2.50 (6) | 56.0 – 63.0 | 59.7 ± 2.50 (6) | 56.0 – 63.0 | 59.7 ± 2.50 (6) | 56.0 – 63.0 | | | | | | | | | | | | |



Table 3. Comparison between the biometrics of passerine species ringed in Namibia between 2002 and 2022 and those same species reported in Hockey et al. (2005) and Rose et al. (2020). Average measurements are grouped by sex (female, male, unknown), species, and subspecies where possible. SD: Standard Deviation, n: total number of ringing records per species, Range: minimum to maximum measurement. Biometrics include culmen length (mm), head length (mm), mass (g), tail length (mm), tarsus length (mm), and length of the wing chord (mm). Those measurements marked in bold in the Hockey et al. (2005) columns have a difference between averages greater than 15%. Those marked in bold in the Rose et al. (2020) columns note a statistically significant difference ($p < 0.05$), while those in italics are significantly similar ($p > 0.95$). No range is given for Rose et al. (2020) measurements.

| Family | Species | Subspecies | Measurement | Sex | Our Paper | | | Hockey et al. (2005) | | | Rose et al. (2020) | | |
|---|---------|------------|-------------|--------|-------------------|-------------|-------|----------------------|-------|---------------|--------------------|--------------------------|-------|
| | | | | | Mean ± SD (n) | Range | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range |
| <i>Acrocephalidae</i> (Reed Warblers and Allies) | | | | | | | | | | | | | |
| <i>Acrocephalus scirpaceus</i> (Common Reed Warbler – 606, 911) | | | | | | | | | | | | | |
| <i>A. s. scirpaceus</i> | | | | | | | | | | | | | |
| | | | Culmen | Mix | 19.1 ± 1.42 (9) | 17.0 – 21.0 | | | | | | 17.7 ± 1.9 (4) | |
| | | | Head | Mix | 34.2 ± 1.07 (9) | 32.4 – 35.6 | | | | | | 33.9 ± 0.6 (5) | |
| | | | Mass | Mix | 10.6 ± 1.15 (9) | 9.0 – 12.2 | | | | | | 14.7 ± 12.7 (13) | |
| | | | Tail | Mix | 53.8 ± 2.19 (8) | 50.0 – 56.0 | | | | | | 54.8 ± 0.5 (4) | |
| | | | Tarsus | Mix | 23.0 ± 0.61 (7) | 22.0 – 23.8 | | | | | | 23.2 ± 0 (1) | |
| | | | Wing | Mix | 65.0 ± 2.45 (9) | 59.0 – 67.0 | | | | | | 61.4 ± 15.3 (12) | |
| <i>A. s. baeticus</i> | | | | | | | | | | | | | |
| | | | Culmen | Mix | 17.4 ± 1.02 (189) | 14.4 – 20.8 | | | | | | 15.5 ± 2.1 (3484) | |
| | | | Head | Mix | 32.4 ± 1.03 (186) | 30.4 – 41.4 | | | | | | 32.7 ± 1.0 (3203) | |
| | | | Mass | Female | 10.5 ± 0.82 (83) | 9.0 – 12.8 | | | | | | 10.4 ± 1.0 (894) | |
| | | | Mass | Male | 10.3 ± 0.47 (53) | 9.5 – 11.2 | | | | | | 10.1 ± 0.8 (364) | |
| | | | Mass | Mix | 10.3 ± 0.72 (280) | 7.0 – 12.8 | | | | | | 10.3 ± 1.0 (18288) | |
| | | | Tail | Female | 50.9 ± 2.56 (81) | 41.0 – 56.0 | | | | | | 57.3 ± 2.5 (285) | |
| | | | Tail | Male | 53.4 ± 2.54 (50) | 47.0 – 64.0 | | | | | | 52.9 ± 2.2 (99) | |
| | | | Tail | Mix | 52.2 ± 2.55 (269) | 41.0 – 64.0 | | | | | | 51.9 ± 2.6 (5645) | |
| | | | Tarsus | Mix | 22.3 ± 0.87 (188) | 18.2 – 25.2 | | | | | | 22.5 ± 1.3 (2461) | |
| | | | Wing | Female | 57.2 ± 1.65 (84) | 53.0 – 61.0 | | | | | | 58.5 ± 1.8 (609) | |
| | | | Wing | Male | 58.9 ± 1.78 (52) | 56.0 – 63.0 | | | | | | 59.1 ± 1.9 (229) | |
| | | | Wing | Mix | 58.0 ± 1.96 (282) | 52.0 – 68.0 | | | | | | 58.8 ± 2.0 (14606) | |
| <i>Acrocephalus palustris</i> (Marsh Warbler – 607) | | | | | | | | | | | | | |
| monotypic | | | | | | | | | | | | | |
| | | | Culmen | Mix | 17.3 ± 1.15 (4) | 15.6 – 18.1 | | | | | | 15.6 ± 2.0 (373) | |
| | | | Head | Mix | 33.0 ± 0.22 (4) | 32.7 – 33.2 | | | | | | 33.3 ± 2.3 (335) | |
| | | | Mass | Mix | 12.6 ± 1.37 (4) | 11.3 – 14.0 | | | | | | 12.4 ± 5.4 (1334) | |
| | | | Tail | Mix | 53.7 ± 3.06 (3) | 51.0 – 57.0 | | | | | | 52.6 ± 5.0 (426) | |
| | | | Tarsus | Mix | 22.5 ± 0.91 (3) | 21.7 – 23.5 | | | | | | 22.8 ± 3.1 (273) | |
| | | | Wing | Mix | 66.3 ± 0.50 (4) | 66.0 – 67.0 | | | | | | 66.6 ± 5.4 (1066) | |

| Family | Species | Subspecies | Measurement | Sex | Our Paper | | | Hockey et al. (2005) | | | Rose et al. (2020) | | |
|---|---------|------------|-------------|--------|-------------------|-------------|-------------|----------------------|-------|---------------|--------------------|-------------------|--|
| | | | | | Mean ± SD (n) | Range | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | |
| <i>Acrocephalus schoenobaenus</i> (Sedge Warbler – 608) | | | | | | | | | | | | | |
| | | monotypic | | | | | | | | | | | |
| | | | Culmen | Mix | 15.1 ± 2.66 (3) | 12.6 – 17.9 | | | | | | 14.7 ± 4.7 (271) | |
| | | | Head | Mix | 31.8 ± 0.95 (3) | 30.8 – 32.7 | | | | | | 31.7 ± 4.1 (235) | |
| | | | Mass | Mix | 11.2 ± 1.15 (3) | 10.0 – 12.3 | | | | | | 11.7 ± 1.8 (2567) | |
| | | | Tail | Mix | 48.0 ± 3.61 (3) | 45.0 – 52.0 | | | | | | 48.6 ± 7.7 (344) | |
| | | | Tarsus | Mix | 22.2 ± 0.29 (3) | 22.0 – 22.5 | | | | | | 22.1 ± 3.4 (127) | |
| | | | Wing | Mix | 65.7 ± 0.58 (3) | 65.0 – 66.0 | | | | | | 66.2 ± 3.7 (1706) | |
| Alaudidae (Larks) | | | | | | | | | | | | | |
| <i>Calentulauda sabota</i> (Sabota Lark – 460) | | | | | | | | | | | | | |
| | | mixed ssp | | | | | | | | | | | |
| | | | Culmen | Mix | 19.4 ± 1.50 (181) | 16.0 – 29.8 | | | | | | 17.6 ± 2.9 (265) | |
| | | | Head | Mix | 38.1 ± 1.43 (183) | 30.6 – 41.3 | | | | | | 36.7 ± 2.6 (263) | |
| | | | Mass | Female | 25.7 ± 1.93 (74) | 16.8 – 30.4 | | | | | | 25.9 ± 3.6 (100) | |
| | | | Mass | Male | 25.7 ± 1.49 (57) | 21.2 – 29.7 | | | | | | 25.8 ± 3.4 (53) | |
| | | | Mass | Mix | 25.8 ± 1.72 (189) | 16.8 – 30.4 | | | | | | 25.7 ± 2.9 (774) | |
| | | | Tail | Female | 52.9 ± 2.80 (76) | 45.0 – 58.0 | | | | | | 52.8 ± 4.4 (72) | |
| | | | Tail | Male | 54.4 ± 2.50 (58) | 50.0 – 66.0 | | | | | | 54.5 ± 3.3 (40) | |
| | | | Tail | Mix | 53.6 ± 2.76 (192) | 42.0 – 66.0 | | | | | | 53.0 ± 4.4 (303) | |
| | | | Tarsus | Mix | 24.0 ± 0.87 (182) | 20.6 – 26.6 | | | | | | 23.6 ± 1.2 (218) | |
| | | | Wing | Female | 86.9 ± 3.49 (76) | 78.0 – 93.0 | | | | | | 85.2 ± 4.9 (91) | |
| | | | Wing | Male | 88.6 ± 2.31 (58) | 84.0 – 95.0 | | | | | | 87.9 ± 2.3 (44) | |
| | | | Wing | Mix | 87.7 ± 3.25 (194) | 77.0 – 98.0 | | | | | | 85.2 ± 4.2 (628) | |
| <i>Mirafra passerina</i> (Monotonous Lark – 457) | | | | | | | | | | | | | |
| | | monotypic | | | | | | | | | | | |
| | | | Culmen | Mix | 17.1 ± 0.89 (7) | 16.0 – 18.3 | | | | | | 16.7 ± 1.1 (6) | |
| | | | Head | Mix | 33.3 ± 0.43 (7) | 32.6 – 33.8 | | | | | | 33.1 ± 0.1 (4) | |
| | | | Mass | Mix | 24.1 ± 1.20 (8) | 23.0 – 26.5 | | | | | | 24.1 ± 1.2 (13) | |
| | | | Tail | Mix | 57.5 ± 1.93 (8) | 54.0 – 60.0 | | | | | | 57.4 ± 1.1 (5) | |
| | | | Tarsus | Mix | 23.1 ± 0.94 (7) | 22.1 – 24.9 | | | | | | 22.8 ± 0.5 (5) | |
| | | | Wing | Mix | 85.8 ± 1.39 (8) | 84.0 – 88.0 | | | | | | 84.1 ± 3 (12) | |
| <i>Spizocorys starki</i> (Stark's Lark – 492) | | | | | | | | | | | | | |
| | | monotypic | | | | | | | | | | | |
| | | | Culmen | Mix | 14.7 ± 0.98 (193) | 10.8 – 17.2 | | | | | | 14.8 ± 1.0 (167) | |
| | | | Head | Mix | 30.5 ± 0.78 (195) | 26.6 – 32.3 | | | | | | 30.4 ± 0.8 (168) | |
| | | | Mass | Female | 17.4 ± 1.38 (147) | 14.7 – 25.4 | 18.6 ± (30) | 15.5 – 22.5 | | | | 17.3 ± 1.2 (129) | |
| | | | Mass | Male | 17.7 ± 1.34 (36) | 14.2 – 21.2 | 18.5 ± (40) | 16.0 – 21.2 | | | | 17.6 ± 1.5 (28) | |



| Family | Species | Subspecies | Measurement | Sex | Our Paper | | | Hockey et al. (2005) | | | Rose et al. (2020) | | | | |
|---|--|---------------------------|---|-----------------------|-----------------------|-------------|---------------|----------------------|------------------|-------|--------------------|--|--|------------------|--|
| | | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | | | | |
| Cisticolidae (Cisticolas and Allies) | <i>Cisticola juncidis</i> (Zitting Cisticola – 629) | <i>C. j. terrestris</i> | Mass | Mix | 17.3 ± 1.32 (533) | 14.2 – 25.4 | | | | | 17.3 ± 1.4 (580) | | | | |
| | | | Tail | Female | 46.8 ± 2.77 (151) | 40.0 – 59.0 | 41.7 ± (7) | 40.0 – 45.0 | 46.9 ± 2.5 (129) | | | | | | |
| | | | Tail | Male | 48.0 ± 2.99 (38) | 42.0 – 54.0 | 45.6 ± (8) | 43.0 – 48.0 | 48.9 ± 2.5 (30) | | | | | | |
| | | | Tail | Mix | 47.3 ± 2.76 (533) | 40.0 – 59.0 | | | 47.4 ± 2.6 (523) | | | | | | |
| | | | Tarsus | Mix | 19.6 ± 0.79 (188) | 17.0 – 22.2 | | | 19.6 ± 1.1 (121) | | | | | | |
| | | | Wing | Female | 81.3 ± 2.97 (151) | 69.0 – 88.0 | 79.6 ± (6) | 77.0 – 83.0 | 81.3 ± 2.6 (129) | | | | | | |
| | | | Wing | Male | 83.4 ± 3.05 (38) | 78.0 – 88.0 | 83.0 ± (8) | 80.0 – 85.0 | 83.9 ± 2.4 (29) | | | | | | |
| | | | Wing | Mix | 81.6 ± 3.07 (547) | 69.0 – 89.0 | | | 81.4 ± 2.9 (632) | | | | | | |
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| | | | Cisticolidae (Tinkling Cisticola – 641) | <i>C. r. rufiatus</i> | <i>C. r. rufiatus</i> | Mass | Mix | 11.5 ± 0 (1) | | | | | | 12.7 ± 1.8 (40) | |
| Tail | Mix | 61.0 ± 0 (1) | | | | | | | | | 52.0 ± 2.8 (15) | | | | |
| Wing | Mix | 58.0 ± 0 (1) | | | | | | | | | 52.9 ± 10.5 (35) | | | | |
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| Estrildidae (Waxbills, Munias and Allies) | <i>Burhilda erythronotos</i> (Black-faced Waxbill – 841) | <i>B. e. erythronotos</i> | | | | Mass | Mix | 12.3 ± 0.99 (90) | 10.0 – 15.0 | | | | | 11.2 ± 5.6 (332) | |
| | | | Head | Mix | 23.1 ± 0.60 (89) | 21.4 – 26.7 | | | 22.6 ± 2.0 (323) | | | | | | |
| | | | Mass | Female | 9.0 ± 0.76 (92) | 7.5 – 12.8 | 9.0 ± (99) | 7.3 – 11.5 | 10.7 ± 8.4 (316) | | | | | | |
| | | | Mass | Male | 8.9 ± 0.7 (101) | 7.8 – 12.5 | 8.9 ± (73) | 7.0 – 11.0 | 10.1 ± 6.8 (449) | | | | | | |
| | | | Mass | Mix | 9.0 ± 0.73 (229) | 7.5 – 12.8 | | | 9.8 ± 5.3 (3948) | | | | | | |
| | | | Tail | Female | 61.1 ± 2.78 (80) | 54.0 – 75.0 | 58.9 ± (93) | 50.0 – 63.0 | 59.5 ± 5.6 (89) | | | | | | |
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| Family | Species | Subspecies | Measurement | Sex | Our Paper | | | Hockey et al. (2005) | | | Rose et al. (2020) | | |
|--------|---------|------------|--|--------|-------------------|-------------|---------------|----------------------|--------------------------|-------|--------------------|--|--|
| | | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | | |
| | | | Tail | Male | 61.7 ± 2.48 (85) | 53.0 – 71.0 | 60.7 ± (69) | 57.0 – 64.0 | 60.4 ± 5.4 (154) | | | | |
| | | | Tail | Mix | 61.4 ± 2.75 (195) | 53.0 – 75.0 | | | 58.9 ± 7.6 (592) | | | | |
| | | | Tarsus | Mix | 14.7 ± 0.90 (87) | 11.5 – 16.5 | | | 15.8 ± 9.1 (245) | | | | |
| | | | Wing | Female | 54.5 ± 1.52 (89) | 49.0 – 57.0 | 53.9 ± (94) | 50.0 – 56.0 | 51.6 ± 10.0 (256) | | | | |
| | | | Wing | Male | 55.0 ± 1.76 (97) | 52.0 – 62.0 | 54.4 ± (71) | 51.0 – 57.5 | 51.7 ± 10.4 (342) | | | | |
| | | | Wing | Mix | 54.7 ± 1.80 (219) | 49.0 – 63.0 | | | 52.9 ± 5.3 (3181) | | | | |
| | | | <i>Granatina granatina</i> (Violet-eared Waxbill – 840) | | | | | | | | | | |
| | | | monotypic | | | | | | | | | | |
| | | | Culmen | Mix | 13.3 ± 0.90 (54) | 11.3 – 15.9 | | | 11.1 ± 2.7 (547) | | | | |
| | | | Head | Mix | 24.7 ± 0.72 (55) | 23.0 – 27.3 | | | 25.0 ± 4.2 (512) | | | | |
| | | | Mass | Female | 10.9 ± 0.98 (224) | 8.8 – 14.6 | 11.6 ± (198) | 9.5 – 13.9 | 11.3 ± 3.9 (2459) | | | | |
| | | | Mass | Male | 10.9 ± 0.85 (275) | 7.0 – 14.6 | 11.9 ± (174) | 9.5 – 13.5 | 11.4 ± 3.2 (2645) | | | | |
| | | | Mass | Mix | 10.9 ± 0.91 (499) | 7.0 – 14.6 | | | 11.3 ± 3.5 (5467) | | | | |
| | | | Tail | Female | 69.7 ± 3.69 (117) | 55.0 – 78.0 | 67.9 ± (72) | 57.0 – 79.0 | 67.4 ± 8.5 (412) | | | | |
| | | | Tail | Male | 74.2 ± 4.09 (145) | 61.0 – 83.0 | 74.8 ± (64) | 63.0 – 86.0 | 71.9 ± 8.6 (511) | | | | |
| | | | Tail | Mix | 72.2 ± 4.50 (262) | 55.0 – 83.0 | | | 69.7 ± 8.8 (999) | | | | |
| | | | Tarsus | Mix | 16.1 ± 0.62 (52) | 14.8 – 17.6 | | | 17.7 ± 15.8 (391) | | | | |
| | | | Wing | Female | 57.3 ± 1.36 (170) | 52.0 – 60.0 | 57.8 ± (72) | 55.0 – 60.0 | 56.4 ± 3.0 (1759) | | | | |
| | | | Wing | Male | 58.0 ± 1.52 (221) | 53.0 – 63.0 | 58.4 ± (69) | 55.0 – 67.0 | 57.3 ± 2.9 (1938) | | | | |
| | | | Wing | Mix | 57.7 ± 1.5 (391) | 52.0 – 63.0 | | | 56.8 ± 3.0 (3979) | | | | |
| | | | <i>Lagonosicta nitidula</i> (Brown Firefinch – 836) | | | | | | | | | | |
| | | | monotypic | | | | | | | | | | |
| | | | Culmen | Mix | 13.2 ± 0.73 (5) | 12.5 – 14.4 | | | 10.4 ± 0.6 (18) | | | | |
| | | | Head | Mix | 23.6 ± 0.29 (5) | 23.2 – 24.0 | | | 23.4 ± 0.2 (5) | | | | |
| | | | Mass | Female | 10.1 ± 0.47 (8) | 9.3 – 10.8 | 10.3 ± (3) | 9.0 – 12.0 | 10.6 ± 1.8 (46) | | | | |
| | | | Mass | Male | 9.7 ± 0.47 (10) | 8.9 – 10.5 | 10.0 ± (2) | 9.0 – 11.0 | 10.5 ± 1.7 (87) | | | | |
| | | | Mass | Mix | 9.8 ± 0.53 (33) | 8.9 – 11.0 | | | 12.1 ± 8.3 (193) | | | | |
| | | | Tail | Mix | 43.8 ± 1.14 (12) | 42.0 – 46.0 | | | 42.6 ± 2.9 (30) | | | | |
| | | | Tarsus | Mix | 14.7 ± 0.60 (5) | 14.0 – 15.3 | | | 13.0 ± 1.5 (19) | | | | |
| | | | Wing | Female | 52.5 ± 2.73 (8) | 49.0 – 57.0 | 50.9 ± (15) | 48.0 – 53.0 | 49.4 ± 8.2 (28) | | | | |
| | | | Wing | Male | 52.7 ± 1.25 (10) | 50.0 – 54.0 | 51.5 ± (24) | 50.0 – 54.0 | 49.7 ± 6.6 (69) | | | | |
| | | | Wing | Mix | 52.2 ± 1.82 (34) | 48.0 – 57.0 | | | 48.4 ± 9.9 (143) | | | | |
| | | | <i>Lagonosicta senegala</i> (Red-billed Firefinch – 837) | | | | | | | | | | |
| | | | <i>L. s. rendalli</i> | | | | | | | | | | |
| | | | Culmen | Mix | 11.1 ± 0.51 (23) | 9.9 – 12.0 | | | 9.8 ± 1.7 (884) | | | | |
| | | | Head | Mix | 21.4 ± 0.22 (24) | 21.0 – 21.8 | | | 21.8 ± 1.7 (802) | | | | |
| | | | Mass | Female | 8.2 ± 0.50 (21) | 7.2 – 9.1 | 8.8 ± (31) | 7.5 – 9.8 | 8.9 ± 5.6 (2425) | | | | |



| Family | Species | Subspecies | Measurement | Sex | Our Paper | | | Hockey et al. (2005) | | | Rose et al. (2020) | | |
|--------|---------|------------|--|--------|-------------------|-------------|---------------|----------------------|--------------------|-------|--------------------|--|--|
| | | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | | |
| | | | Mass | Male | 8.0 ± 0.58 (14) | 7.2 – 9.3 | 8.9 ± (22) | 7.2 – 10.0 | 8.7 ± 5.5 (2200) | | | | |
| | | | Mass | Mix | 8.1 ± 0.54 (35) | 7.2 – 9.3 | | | 8.9 ± 5.8 (4992) | | | | |
| | | | Tail | Female | 36.4 ± 1.12 (19) | 34.0 – 38.0 | | | 35.9 ± 3.3 (649) | | | | |
| | | | Tail | Male | 37.5 ± 1.20 (13) | 36.0 – 40.0 | | | 36.9 ± 3.5 (627) | | | | |
| | | | Tail | Mix | 36.9 ± 1.26 (32) | 34.0 – 40.0 | | | 36.4 ± 3.5 (1360) | | | | |
| | | | Tarsus | Mix | 12.4 ± 0.52 (24) | 11.0 – 13.1 | | | 12.8 ± 1.1 (619) | | | | |
| | | | Wing | Female | 49.0 ± 1.32 (21) | 46.0 – 51.0 | 47.4 ± (11) | 46.0 – 50.0 | 48.1 ± 2.8 (1805) | | | | |
| | | | Wing | Male | 49.5 ± 1.51 (14) | 46.0 – 51.0 | 49.0 ± (73) | 46.5 – 51.0 | 48.9 ± 2.6 (1637) | | | | |
| | | | Wing | Mix | 49.2 ± 1.40 (35) | 46.0 – 51.0 | | | 48.4 ± 2.7 (3659) | | | | |
| | | | <i>Pytilia melba</i> (Green-winged Pytilia – 830) | | | | | | | | | | |
| | | | <i>P. m. melba</i> | | | | | | | | | | |
| | | | Culmen | Mix | 15.5 ± 1.08 (88) | 13.0 – 17.7 | | | 14.0 ± 7.9 (1757) | | | | |
| | | | Head | Mix | 28.2 ± 0.73 (87) | 26.1 – 29.9 | | | 28.2 ± 4.0 (1714) | | | | |
| | | | Mass | Female | 14.6 ± 1.34 (118) | 10.9 – 20.8 | 14.7 ± (193) | 9.0 – 18.6 | 15.0 ± 3.7 (4115) | | | | |
| | | | Mass | Male | 14.8 ± 0.93 (168) | 11.0 – 16.9 | 14.8 ± (185) | 9.0 – 19.9 | 15.2 ± 3.6 (4898) | | | | |
| | | | Mass | Mix | 14.7 ± 1.12 (286) | 10.9 – 20.8 | | | 15.0 ± 3.7 (9646) | | | | |
| | | | Tail | Female | 50.7 ± 2.23 (97) | 39.0 – 58.0 | 49.9 ± (126) | 45.0 – 7.0 | 49.1 ± 4.8 (1163) | | | | |
| | | | Tail | Male | 51.8 ± 2.24 (149) | 44.0 – 63.0 | 50.8 ± (131) | 44.0 – 55.0 | 49.8 ± 5.0 (1450) | | | | |
| | | | Tail | Mix | 51.4 ± 2.29 (246) | 39.0 – 63.0 | | | 49.5 ± 4.8 (2825) | | | | |
| | | | Tarsus | Mix | 17.1 ± 0.78 (82) | 14.7 – 20.7 | | | 19.9 ± 25.5 (1277) | | | | |
| | | | Wing | Female | 60.3 ± 2.26 (113) | 49.0 – 69.0 | 58.6 ± (146) | 54.0 – 62.0 | 57.9 ± 3.6 (3357) | | | | |
| | | | Wing | Male | 61.2 ± 2.05 (164) | 51.0 – 72.0 | 59.0 ± (134) | 55.0 – 63.0 | 58.6 ± 3.3 (4097) | | | | |
| | | | Wing | Mix | 60.8 ± 2.18 (277) | 49.0 – 72.0 | | | 58.3 ± 3.5 (8033) | | | | |
| | | | <i>Spermestes cucullata</i> (Bronze Mannikin – 823) | | | | | | | | | | |
| | | | <i>S. s. scutata</i> | | | | | | | | | | |
| | | | Culmen | Mix | 12.1 ± 0.66 (8) | 11.0 – 12.8 | | | 10.1 ± 1.6 (2850) | | | | |
| | | | Head | Mix | 21.0 ± 0.42 (8) | 20.4 – 21.8 | | | 21.5 ± 1.7 (2328) | | | | |
| | | | Mass | Female | 10.1 ± 1.18 (10) | 8.9 – 13.0 | | | 9.8 ± 1.0 (243) | | | | |
| | | | Mass | Mix | 9.8 ± 1.00 (22) | 8.4 – 13.0 | | | 10.1 ± 2.5 (12961) | | | | |
| | | | Tail | Female | 32.9 ± 2.15 (9) | 30.0 – 37.0 | | | 32.2 ± 2.6 (52) | | | | |
| | | | Tail | Mix | 32.9 ± 1.80 (17) | 30.0 – 37.0 | | | 32.5 ± 2.5 (3831) | | | | |
| | | | Tarsus | Mix | 13.1 ± 1.11 (8) | 11.7 – 14.5 | | | 13.0 ± 1.1 (1404) | | | | |
| | | | Wing | Female | 49.6 ± 1.71 (10) | 47.0 – 52.0 | | | 48.9 ± 1.4 (76) | | | | |
| | | | Wing | Mix | 49.0 ± 1.59 (22) | 46.0 – 52.0 | | | 49.4 ± 4.0 (8427) | | | | |
| | | | Fringillidae (Finches, Euphoniias) | | | | | | | | | | |
| | | | <i>Crithagra albogularis</i> (White-throated Canary – 865) | | | | | | | | | | |
| | | | mixed ssp | | | | | | | | | | |
| | | | Culmen | Mix | 18.4 ± 1.40 (227) | 12.6 – 28.4 | | | 16.2 ± 2.4 (267) | | | | |
| | | | Head | Mix | 32.2 ± 1.08 (231) | 26.0 – 36.2 | | | 32.1 ± 1.2 (243) | | | | |

| Family | Species | Subspecies | Measurement | Sex | Our Paper | | | Hockey et al. (2005) | | | Rose et al. (2020) | | | | | |
|---|---|------------------|---|----------------------|-------------------|---------------|---------------|----------------------|---------------|-------|--------------------|-------|---------------|-------------------|--|--|
| | | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | | | |
| Hirundinidae (Swallows, Martins) | <i>Cecropis cucullata</i> (Greater Striped Swallow – 502) | monotypic | Mass | Female | 23.4 ± 1.79 (267) | 17.7 – 29.1 | | | | | 24.3 ± 4.1 (285) | | | | | |
| | | | Mass | Male | 23.5 ± 1.58 (130) | 19.9 – 27.7 | | | | | 24.0 ± 2.3 (127) | | | | | |
| | | | Mass | Mix | 23.5 ± 1.8 (767) | 15.0 – 33.5 | | | | | 25.5 ± 4.7 (2062) | | | | | |
| | | | Tail | Female | 54.9 ± 2.56 (245) | 45.0 – 65.0 | 53.0 ± (10) | 49.0 – 56.0 | | | 55.3 ± 2.8 (224) | | | | | |
| | | | Tail | Male | 56.1 ± 2.57 (113) | 50.0 – 63.0 | 56.0 ± (10) | 53.0 – 59.0 | | | 56.0 ± 2.6 (97) | | | | | |
| | | | Tail | Mix | 55.7 ± 2.84 (674) | 45.0 – 68.0 | | | | | 56.1 ± 3.0 (663) | | | | | |
| | | | Tarsus | Mix | 19.8 ± 0.8 (211) | 16.3 – 22.8 | | | | | 20.0 ± 1.3 (198) | | | | | |
| | | | Wing | Female | 81.6 ± 2.80 (255) | 73.0 – 89.0 | 76.0 ± (10) | 73.0 – 79.0 | | | 80.7 ± 3.2 (252) | | | | | |
| | | | Wing | Male | 83.9 ± 2.95 (116) | 69.0 – 89.0 | 80.0 ± (10) | 78.0 – 83.0 | | | 83.3 ± 3.1 (116) | | | | | |
| | | | Wing | Mix | 82.3 ± 3.10 (734) | 67.0 – 89.0 | | | | | 80.4 ± 4.3 (1647) | | | | | |
| | | | <i>Hirundo rustica</i> (Barn Swallow – 493) | <i>H. r. rustica</i> | | Culmen | Mix | 13.6 ± 0.64 (6) | 12.5 – 14.5 | | | | | 13.4 ± 12.5 (231) | | |
| | | | | | | Head | Mix | 30.1 ± 0.35 (6) | 29.5 – 30.4 | | | | | 30.4 ± 7.2 (205) | | |
| | | | | | | Mass | Female | 24.8 ± 2.41 (3) | 22.5 – 27.3 | | | | | 26.3 ± 3.1 (107) | | |
| Mass | Male | 21.6 ± 0 (1) | | | | | | | | | 27.3 ± 5.8 (93) | | | | | |
| Mass | Mix | 24.3 ± 2.23 (6) | | | | 21.6 – 27.3 | | | | | 25.6 ± 7.4 (1402) | | | | | |
| Tail | Female | 99.7 ± 4.93 (3) | | | | 94.0 – 103.0 | | | | | 91.6 ± 15.4 (24) | | | | | |
| Tail | Male | 96.0 ± 0 (1) | | | | | | | | | 95.6 ± 16.4 (21) | | | | | |
| Tail | Mix | 94.7 ± 8.98 (6) | | | | 78.0 – 103.0 | | | | | 85.5 ± 21.1 (320) | | | | | |
| Tarsus | Mix | 15.5 ± 0.62 (6) | | | | 14.8 – 16.6 | | | | | 15.9 ± 2.1 (156) | | | | | |
| Wing | Female | 127.7 ± 5.69 (3) | | | | 123.0 – 134.0 | | | | | 124.5 ± 5.5 (77) | | | | | |
| Wing | Male | 124.0 ± 0 (1) | | | | | | | | | 126.4 ± 7.2 (65) | | | | | |
| Wing | Mix | 126.2 ± 4.17 (6) | | | | 123.0 – 134.0 | | | | | 122.5 ± 10.9 (950) | | | | | |
| <i>Hirundo rustica</i> (Barn Swallow – 493) | <i>H. r. rustica</i> | | | | | Culmen | Mix | 12.1 ± 1.25 (3) | 10.7 – 13.0 | | | | | 13.1 ± 11.9 (608) | | |
| | | | Head | Mix | 30.4 ± 0.28 (2) | 30.2 – 30.6 | | | | | 36.8 ± 16.9 (731) | | | | | |
| | | | Mass | Female | 22.2 ± 1.64 (4) | 20.4 – 24.0 | 20.1 ± (108) | 16.3 – 22.6 | | | 18.7 ± 1.7 (1936) | | | | | |
| | | | Mass | Male | 18.5 ± 2.61 (5) | 15.3 – 21.6 | 20.4 ± (88) | 17.8 – 24.2 | | | 19.1 ± 1.7 (1762) | | | | | |
| | | | Mass | Mix | 19.8 ± 1.99 (25) | 15.3 – 24.0 | | | | | 18.9 ± 1.7 (13832) | | | | | |
| | | | Tail | Female | 69.0 ± 1.41 (2) | 68.0 – 70.0 | 72.3 ± (8) | 61.0 – 99.0 | | | 76.4 ± 13.0 (1014) | | | | | |
| | | | Tail | Male | 101.0 ± 5.66 (2) | 97.0 – 105.0 | 77.0 ± (61) | 59.0 – 109.0 | | | 90.1 ± 17.9 (574) | | | | | |
| | | | Tail | Mix | 77.8 ± 16.77 (9) | 62.0 – 105.0 | | | | | 78.6 ± 16.5 (3235) | | | | | |
| | | | Tarsus | Mix | 12.0 ± 0 (2) | 12.0 – 12.0 | | | | | 12.3 ± 3.2 (255) | | | | | |
| | | | Wing | Female | 125.3 ± 3.40 (4) | 122.0 – 130 | 121.3 ± (109) | 111.0 – 128.0 | | | 121.4 ± 3.5 (1475) | | | | | |
| | | | Wing | Male | 124.2 ± 2.40 (6) | 121.0 – 127.0 | 123.5 ± (89) | 117.0 – 131 | | | 122.2 ± 3.9 (1165) | | | | | |
| | | | Wing | Mix | 124.4 ± 3.17 (23) | 117.0 – 130.0 | | | | | 121.4 ± 3.8 (7854) | | | | | |



| Family | Species | Subspecies | Measurement | Sex | Our Paper | | | Hockey et al. (2005) | | | Rose et al. (2020) | | |
|--|---------|--------------------------|-------------|-----|-------------------|---------------|-------------|----------------------|-------|--|--------------------|-------------------|--|
| | | | | | Mean ± SD (n) | Range | | Mean ± SD (n) | Range | | Mean ± SD (n) | Range | |
| Laniidae (Shrikes) | | | | | | | | | | | | | |
| <i>Lanius collurio</i> (Red-backed Shrike – 708) | | | | | | | | | | | | | |
| | | mixed esp | | | | | | | | | | | |
| | | Culmen | Mix | | 20.1 ± 0.78 (42) | 18.5 – 22.1 | | | | | | 18.2 ± 4.2 (516) | |
| | | Head | Mix | | 38.7 ± 1.07 (46) | 34.1 – 40.8 | | | | | | 39.3 ± 6.7 (498) | |
| | | Mass | Female | | 26.8 ± 2.66 (15) | 19.7 – 30.8 | 28.2 ± (21) | 20.7 – 36.4 | | | | 28.2 ± 5.7 (481) | |
| | | Mass | Male | | 28.2 ± 3.97 (34) | 23.4 – 47.0 | 29.5 ± (38) | 23.8 – 46.0 | | | | 28.5 ± 5.8 (539) | |
| | | Mass | Mix | | 27.8 ± 3.65 (49) | 19.7 – 47.0 | | | | | | 28.2 ± 5.5 (1240) | |
| | | Tail | Female | | 77.3 ± 5.07 (15) | 72.0 – 93.0 | | | | | | 74.7 ± 10.8 (217) | |
| | | Tail | Male | | 78.9 ± 5.05 (32) | 74.0 – 104.0 | | | | | | 75.2 ± 11.1 (239) | |
| | | Tail | Mix | | 78.4 ± 5.05 (47) | 72.0 – 104.0 | | | | | | 75.3 ± 10.0 (681) | |
| | | Tarsus | Mix | | 24.0 ± 1.04 (44) | 22.1 – 27.2 | | | | | | 24.7 ± 7.4 (386) | |
| | | Wing | Female | | 92.4 ± 1.45 (16) | 90.0 – 95.0 | | | | | | 90.4 ± 7.8 (385) | |
| | | Wing | Male | | 93.1 ± 3.27 (34) | 83.0 – 97.0 | | | | | | 90.4 ± 8.6 (459) | |
| | | Wing | Mix | | 92.9 ± 2.82 (50) | 83.0 – 97.0 | | | | | | 90.4 ± 7.9 (1028) | |
| <i>Lanius minor</i> (Lesser Grey Shrike – 706) | | | | | | | | | | | | | |
| | | monotypic | | | | | | | | | | | |
| | | Culmen | Mix | | 22.9 ± 1.06 (43) | 21.4 – 25.1 | | | | | | 22.4 ± 2.3 (155) | |
| | | Head | Mix | | 43.0 ± 1.27 (43) | 40.4 – 46.0 | | | | | | 42.6 ± 1.1 (156) | |
| | | Mass | Mix | | 45.1 ± 4.58 (42) | 37.5 – 61.2 | | | | | | 46.3 ± 5.0 (198) | |
| | | Tail | Mix | | 92.4 ± 4.38 (41) | 80.0 – 104.0 | | | | | | 90.2 ± 5.3 (149) | |
| | | Tarsus | Mix | | 25.2 ± 0.90 (43) | 23.0 – 27.7 | | | | | | 25.1 ± 0.9 (150) | |
| | | Wing | Mix | | 116.0 ± 3.22 (44) | 109.0 – 123.0 | | | | | | 112.8 ± 6.7 (198) | |
| Leiothrichidae (Laughingthrushes and Allies) | | | | | | | | | | | | | |
| <i>Turdoides bicolor</i> (Southern Pied Babbler – 536) | | | | | | | | | | | | | |
| | | monotypic | | | | | | | | | | | |
| | | Culmen | Mix | | 30.0 ± 1.10 (21) | 27.6 – 32.7 | | | | | | 27.3 ± 3.5 (80) | |
| | | Head | Mix | | 52.7 ± 1.42 (21) | 50.8 – 55.6 | | | | | | 54.0 ± 9.3 (70) | |
| | | Mass | Mix | | 73.6 ± 6.43 (21) | 62.7 – 88.5 | | | | | | 75.5 ± 10.7 (215) | |
| | | Tail | Mix | | 112.9 ± 5.45 (19) | 100.0 – 123.0 | | | | | | 109.9 ± 16.6 (83) | |
| | | Tarsus | Mix | | 34.8 ± 1.49 (21) | 31.6 – 38.5 | | | | | | 36.6 ± 10.6 (60) | |
| | | Wing | Mix | | 112.8 ± 2.43 (21) | 109.0 – 117 | | | | | | 108.9 ± 9.4 (147) | |
| <i>Turdoides gymnogynys</i> (Bare-cheeked Babbler – 537) | | | | | | | | | | | | | |
| | | <i>T. g. kaokerensis</i> | | | | | | | | | | | |
| | | Culmen | Mix | | 28.1 ± 1.62 (7) | 24.8 – 30.1 | | | | | | 26.9 ± 2.2 (11) | |
| | | Head | Mix | | 53.2 ± 1.17 (7) | 51.7 – 54.7 | | | | | | 52.9 ± 0.7 (11) | |
| | | Mass | Mix | | 73.2 ± 5.15 (7) | 65.0 – 79.0 | | | | | | 74.8 ± 6.5 (90) | |



| Family | Species | Subspecies | Measurement | Sex | Our Paper | | | Hockey et al. (2006) | | | Rose et al. (2020) | | | |
|--------|--|------------|-------------|--------|------------------------|---------------|---------------|----------------------|---------------|-------------------|--------------------|--|--|--|
| | | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | | | |
| | | | Tail | Mix | 101.6 ± 3.64 (7) | 97.0 – 107.0 | | | | 102.3 ± 3.2 (15) | | | | |
| | | | Tarsus | Mix | 34.0 ± 0.97 (7) | 32.5 – 35.2 | | | | 34.3 ± 1.1 (8) | | | | |
| | | | Wing | Mix | 114.7 ± 4.42 (7) | 105.0 – 118.0 | | | | 112.5 ± 3.9 (86) | | | | |
| | <i>Turdoides hartlaubii</i> (Hartlaub's Babbler – 535) | | | | | | | | | | | | | |
| | | | | | mixed ssp | | | | | | | | | |
| | | | Culmen | Mix | 26.1 ± 1.32 (6) | 24.0 – 27.4 | | | | 24.3 ± 2.3 (38) | | | | |
| | | | Head | Mix | 49.5 ± 0.58 (6) | 48.8 – 50.2 | | | | 49.5 ± 1.1 (32) | | | | |
| | | | Mass | Mix | 85.1 ± 5.17 (8) | 76.3 – 92.0 | | | | 83.8 ± 10.1 (113) | | | | |
| | | | Tail | Mix | 112.9 ± 4.36 (8) | 107.0 – 120.0 | | | | 112.0 ± 4.8 (46) | | | | |
| | | | Tarsus | Mix | 36.6 ± 0.75 (5) | 35.8 – 37.7 | | | | 36.5 ± 1.4 (27) | | | | |
| | | | Wing | Mix | 115.9 ± 4.91 (8) | 106.0 – 123.0 | | | | 114.8 ± 4.4 (93) | | | | |
| | Malaconotidae (Bushshrikes) | | | | | | | | | | | | | |
| | <i>Laniarius atrococcineus</i> (Crimson-breasted Shrike – 711) | | | | | | | | | | | | | |
| | | | | | monotypic | | | | | | | | | |
| | | | Culmen | Mix | 26.3 ± 1.05 (69) | 24.2 – 29.1 | | | | 23.4 ± 3.2 (274) | | | | |
| | | | Head | Mix | 46.2 ± 1.17 (69) | 43.8 – 49.0 | | | | 47.2 ± 9.3 (251) | | | | |
| | | | Mass | Female | 46.3 ± 2.58 (36) | 42.2 – 51.2 | | | | 57.6 ± 46.3 (42) | | | | |
| | | | Mass | Male | 46.3 ± 3.34 (9) | 40.3 – 51.5 | | | | 51.5 ± 26.8 (28) | | | | |
| | | | Mass | Mix | 46.4 ± 2.70 (67) | 40.3 – 51.5 | | | | 47.6 ± 13.0 (885) | | | | |
| | | | Tail | Female | 102.9 ± 5.02 (38) | 95.0 – 116.0 | | | | 98.3 ± 16.5 (32) | | | | |
| | | | Tail | Male | 103.8 ± 5.80 (8) | 98.0 – 117.0 | | | | 96.8 ± 13.8 (16) | | | | |
| | | | Tail | Mix | 103.3 ± 4.75 (67) | 95.0 – 117.0 | | | | 99.7 ± 14.1 (311) | | | | |
| | | | Tarsus | Mix | 33.2 ± 1.06 (67) | 30.6 – 35.1 | | | | 33.4 ± 4.8 (234) | | | | |
| | | | Wing | Female | 99.4 ± 3.96 (38) | 92.0 – 114.0 | 97.0 ± (13) | 93.0 – 101.0 | | 100.3 ± 11.9 (35) | | | | |
| | | | Wing | Male | 98.6 ± 3.75 (9) | 92.0 – 103.0 | 100.0 ± (23) | 98.0 – 105.0 | | 104.7 ± 15.0 (21) | | | | |
| | | | Wing | Mix | 99.8 ± 3.94 (69) | 92.0 – 114.0 | | | | 98.6 ± 6.3 (726) | | | | |
| | <i>Laniarius bicolor</i> (Swamp Boubou – 710) | | | | | | | | | | | | | |
| | | | | | <i>L. b. sticturus</i> | | | | | | | | | |
| | | | Culmen | Mix | 27.3 ± 1.71 (9) | 23.6 – 29.5 | | | | 26.2 ± 2.0 (35) | | | | |
| | | | Head | Mix | 48.6 ± 1.49 (9) | 47.0 – 51.2 | | | | 48.7 ± 0.9 (27) | | | | |
| | | | Mass | Mix | 52.5 ± 3.20 (9) | 49.0 – 58.7 | | | | 53.0 ± 5.7 (75) | | | | |
| | | | Tail | Mix | 105.4 ± 3.28 (9) | 101.0 – 111.0 | | | | 105.9 ± 2.9 (34) | | | | |
| | | | Tarsus | Mix | 34.9 ± 1.87 (9) | 31.2 – 38.3 | | | | 34.7 ± 1.4 (24) | | | | |
| | | | Wing | Mix | 105.3 ± 2.92 (9) | 102.0 – 111.0 | | | | 105.2 ± 3.6 (63) | | | | |
| | Motacillidae (Wagtails, Pipits) | | | | | | | | | | | | | |
| | <i>Anthus trivialis</i> (Tree Pipit – 698) | | | | | | | | | | | | | |
| | | | | | <i>A. t. trivialis</i> | | | | | | | | | |
| | | | Mass | Mix | 22.6 ± 0 (1) | | | | | 23.8 ± 0.9 (6) | | | | |

| Family | Species | Subspecies | Measurement | Sex | Our Paper | | | Hockey et al. (2005) | | | Rose et al. (2020) | | | |
|---|---------|------------|--|--------|------------------|--------------|---------------|----------------------|---------------|-------|--------------------|--|--|--|
| | | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | | | |
| Musciapidae (Chats, Old World Flycatchers) | | | | | | | | | | | | | | |
| Cossypha heuglini (White-browed Robin-Chat – 580) | | | | | | | | | | | | | | |
| C. h. heuglini | | | | | | | | | | | | | | |
| | | | Culmen | Mix | 21.2 ± 1.89 (10) | 17.7 – 25.0 | | | | | | | | |
| | | | Head | Mix | 42.4 ± 1.39 (10) | 40.0 – 44.5 | | | | | | | | |
| | | | Mass | Female | 34.8 ± 14.42 (2) | 24.6 – 45.0 | 32.3 ± (10) | 29.1 – 35.9 | | | | | | |
| | | | Mass | Male | 40.4 ± 4.59 (5) | 35.0 – 46.4 | 37.5 ± (15) | 30.5 – 44.0 | | | | | | |
| | | | Mass | Mix | 38.4 ± 5.40 (17) | 24.6 – 46.4 | | | | | | | | |
| | | | Tail | Male | 96.6 ± 2.61 (5) | 92.0 – 98.0 | 88.0 ± (5) | 80.5 – 94.0 | | | | | | |
| | | | Tail | Mix | 91.9 ± 7.28 (14) | 78.0 – 100.0 | | | | | | | | |
| | | | Tarsus | Mix | 32.4 ± 1.37 (10) | 30.5 – 35.2 | | | | | | | | |
| | | | Wing | Female | 94.5 ± 0.71 (2) | 94.0 – 95.0 | 91.3 ± (12) | 89.0 – 94.0 | | | | | | |
| | | | Wing | Male | 102.8 ± 3.42 (5) | 97.0 – 106.0 | 97.3 ± (13) | 90.0 – 103.0 | | | | | | |
| | | | Wing | Mix | 98.1 ± 5.57 (17) | 87.0 – 106.0 | | | | | | | | |
| | | | Musciapidae (Spotted Flycatcher – 654) | | | | | | | | | | | |
| | | | mixed ssp | | | | | | | | | | | |
| | | | Culmen | Mix | 17.6 ± 1.67 (27) | 12.5 – 20.2 | | | | | | | | |
| | | | Head | Mix | 33.7 ± 0.72 (27) | 32.4 – 35.1 | | | | | | | | |
| | | | Mass | Mix | 14.4 ± 1.48 (26) | 12.4 – 17.8 | | | | | | | | |
| | | | Tail | Mix | 60.1 ± 2.03 (26) | 57.0 – 63.0 | | | | | | | | |
| | | | Tarsus | Mix | 15.3 ± 0.72 (27) | 14.0 – 17.1 | | | | | | | | |
| | | | Wing | Mix | 85.4 ± 4.99 (27) | 72.0 – 96.0 | | | | | | | | |
| | | | Namibomys herero (Herero Chat – 660) | | | | | | | | | | | |
| | | | monotypic | | | | | | | | | | | |
| | | | Culmen | Mix | 20.4 ± 1.80 (13) | 17.2 – 22.4 | | | | | | | | |
| | | | Head | Mix | 40.4 ± 0.88 (13) | 39.0 – 41.8 | | | | | | | | |
| | | | Mass | Mix | 26.7 ± 2.35 (13) | 23.9 – 33.2 | | | | | | | | |
| | | | Tail | Mix | 68.0 ± 1.91 (12) | 65.0 – 71.0 | | | | | | | | |
| | | | Tarsus | Mix | 23.9 ± 0.54 (13) | 23.0 – 24.9 | | | | | | | | |
| | | | Wing | Mix | 93.4 ± 2.33 (13) | 90.0 – 99.0 | | | | | | | | |
| | | | Nectariniidae (Sunbirds) | | | | | | | | | | | |
| | | | Cinnnyris cupreus (Copper Sunbird – 754) | | | | | | | | | | | |
| | | | C. c. chalcus | | | | | | | | | | | |
| | | | Culmen | Mix | 23.2 ± 1.29 (28) | 20.4 – 26.5 | | | | | | | | |
| | | | Head | Mix | 35.1 ± 1.00 (28) | 33.0 – 37.4 | | | | | | | | |
| | | | Mass | Female | 8.4 ± 0.28 (7) | 7.9 – 8.7 | 9.0 ± (8) | 8.1 – 9.9 | | | | | | |
| | | | Mass | Male | 9.2 ± 0.56 (21) | 8.2 – 10.0 | 10.3 ± (20) | 8.6 – 12.5 | | | | | | |



| Family | Species | Subspecies | Measurement | Sex | Our Paper | | | Hockey et al. (2005) | | | Rose et al. (2020) | | |
|--------|--|------------|-------------|--------|------------------|-------------|---------------|----------------------|---------------|-------------------|--------------------|--|--|
| | | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | | |
| | | | Mass | Mix | 9.0 ± 0.59 (28) | 7.9 – 10.0 | | | | 9.2 ± 0.8 (260) | | | |
| | | | Tail | Mix | 47.7 ± 3.31 (28) | 40.0 – 52.0 | | | | 47.2 ± 3.3 (20) | | | |
| | | | Tarsus | Mix | 15.6 ± 0.55 (26) | 14.6 – 16.8 | | | | 15.6 ± 0.5 (19) | | | |
| | | | Wing | Female | 59.7 ± 1.70 (7) | 57.0 – 61.0 | 57.9 ± (8) | 56.0 – 60.0 | | 57.7 ± 1.4 (67) | | | |
| | | | Wing | Male | 65.2 ± 1.54 (21) | 61.0 – 67.0 | 63.9 ± (20) | 61.0 – 66.0 | | 62.3 ± 1.9 (94) | | | |
| | | | Wing | Mix | 63.8 ± 2.87 (28) | 57.0 – 67.0 | | | | 60.3 ± 2.7 (186) | | | |
| | <i>Cinnyris mairiquensis</i> (Maricao Sunbird – 755) | | | | | | | | | | | | |
| | <i>C. m. mairiquensis</i> | | | | | | | | | | | | |
| | | | Culmen | Mix | 26.0 ± 1.05 (36) | 24.0 – 27.8 | | | | 23.8 ± 2.8 (204) | | | |
| | | | Head | Mix | 37.5 ± 0.96 (38) | 35.0 – 39.4 | | | | 37.2 ± 3.7 (189) | | | |
| | | | Mass | Female | 9.9 ± 1.08 (17) | 6.8 – 11.6 | 10.2 ± (25) | 7.0 – 12.3 | | 11.0 ± 5.2 (341) | | | |
| | | | Mass | Male | 11.2 ± 1.19 (22) | 8.8 – 14.0 | 11.7 ± (41) | 10.0 – 14.2 | | 12.0 ± 2.6 (589) | | | |
| | | | Mass | Mix | 10.6 ± 1.30 (39) | 6.8 – 14.0 | | | | 11.6 ± 3.7 (977) | | | |
| | | | Tail | Female | 43.6 ± 1.80 (17) | 41.0 – 48.0 | 42.1 ± (7) | 38.0 – 43.0 | | 42.8 ± 4.1 (113) | | | |
| | | | Tail | Male | 48.2 ± 2.70 (21) | 42.0 – 53.0 | 47.5 ± (10) | 45.0 – 52.0 | | 48.0 ± 3.4 (212) | | | |
| | | | Tail | Mix | 46.2 ± 3.27 (38) | 41.0 – 53.0 | | | | 45.9 ± 4.5 (349) | | | |
| | | | Tarsus | Mix | 17.4 ± 0.82 (34) | 15.0 – 18.8 | | | | 19.9 ± 20.2 (194) | | | |
| | | | Wing | Female | 63.4 ± 1.97 (17) | 61.0 – 68.0 | 64.5 ± (12) | 56.0 – 58.0 | | 61.7 ± 3.6 (290) | | | |
| | | | Wing | Male | 67.3 ± 2.71 (22) | 61.0 – 73.0 | 69.0 ± (38) | 59.0 – 74.0 | | 67.1 ± 2.6 (483) | | | |
| | | | Wing | Mix | 65.6 ± 3.09 (39) | 61.0 – 73.0 | | | | 65.0 ± 4.0 (819) | | | |
| | <i>Cinnyris talatala</i> (White-bellied Sunbird – 763) | | | | | | | | | | | | |
| | monotypic | | | | | | | | | | | | |
| | | | Culmen | Mix | 22.7 ± 2.55 (11) | 17.7 – 26.0 | | | | 22.6 ± 5.9 (700) | | | |
| | | | Head | Mix | 33.1 ± 2.37 (11) | 28.1 – 35.7 | | | | 36.1 ± 1.9 (604) | | | |
| | | | Mass | Female | 7.2 ± 0.83 (4) | 6.4 – 8.3 | 6.9 ± (100) | 6.1 – 8.8 | | 7.9 ± 5.1 (1397) | | | |
| | | | Mass | Male | 8.4 ± 0.59 (5) | 8.0 – 9.4 | 7.6 ± (100) | 6.2 – 9.1 | | 8.6 ± 4.0 (2156) | | | |
| | | | Mass | Mix | 7.6 ± 1.00 (11) | 6.0 – 9.4 | | | | 8.3 ± 4.6 (3877) | | | |
| | | | Tail | Female | 36.8 ± 4.19 (4) | 34.0 – 43.0 | 34.4 ± (100) | 31.0 – 39.0 | | 36.5 ± 3.2 (315) | | | |
| | | | Tail | Male | 40.4 ± 1.82 (5) | 38.0 – 42.0 | 38.0 ± (100) | 35.0 – 42.0 | | 40.8 ± 2.8 (462) | | | |
| | | | Tail | Mix | 39.0 ± 3.61 (11) | 34.0 – 44.0 | | | | 38.9 ± 3.7 (867) | | | |
| | | | Tarsus | Mix | 15.8 ± 1.14 (10) | 13.9 – 17.8 | | | | 18.6 ± 10.3 (655) | | | |
| | | | Wing | Female | 55.5 ± 3.11 (4) | 53.0 – 60.0 | 52.4 ± (100) | 49.0 – 56.0 | | 52.7 ± 2.3 (1213) | | | |
| | | | Wing | Male | 56.2 ± 1.300 (5) | 54.0 – 57.0 | 55.3 ± (100) | 53.0 – 59.0 | | 56.6 ± 2.3 (1777) | | | |
| | | | Wing | Mix | 55.8 ± 1.94 (11) | 53.0 – 60.0 | | | | 54.9 ± 3.0 (3222) | | | |
| | Oriolidae (Figbirds, Old World Orioles, Pioplos) | | | | | | | | | | | | |
| | <i>Oriolus oriolus</i> (Eurasian Golden Oriole – 519) | | | | | | | | | | | | |
| | <i>O. o. oriolus</i> | | | | | | | | | | | | |
| | | | Culmen | Mix | 30.8 ± 1.47 (7) | 28.8 – 32.9 | | | | 29.9 ± 0.5 (3) | | | |
| | | | Head | Mix | 54.2 ± 1.51 (7) | 52.3 – 56.2 | | | | 53.7 ± 0.8 (4) | | | |



| Family | Species | Subspecies | Measurement | Sex | Our Paper | | | Hockey et al. (2005) | | | Rose et al. (2020) | | |
|--|---|------------|-------------|--------|-------------------|---------------|---------------|----------------------|---------------|-------|--------------------|--|--|
| | | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | | |
| Paridae (Tits, Chickadees) | <i>Melaniparus carpi</i> (Carp's Tit – 528) monotypic | | Mass | Mix | 71.2 ± 2.79 (7) | 68.4 – 76.3 | | | | | 70.7 ± 5.5 (33) | | |
| | | | Tail | Mix | 84.7 ± 2.14 (7) | 82.0 – 88.0 | | | | | 83.8 ± 1.6 (5) | | |
| | | | Tarsus | Mix | 22.8 ± 0.59 (7) | 22.2 – 23.7 | | | | | 23.2 ± 0.5 (4) | | |
| | | | Wing | Mix | 147.6 ± 5.06 (7) | 138.0 – 152.0 | | | | | 145.2 ± 5.8 (20) | | |
| Passeridae (Old World Sparrows, Snowfinches) | <i>Passer diffusus</i> (Southern Grey-headed Sparrow – 4142) <i>P. d. diffusus</i> | | Culmen | Mix | 15.4 ± 1.28 (92) | 12.2 – 20.4 | | | | | 12.5 ± 1.2 (1221) | | |
| | | | Head | Mix | 30.6 ± 1.35 (94) | 27.9 – 38.9 | | | | | 30.4 ± 0.7 (1151) | | |
| | | | Mass | Female | 24.5 ± 2.24 (60) | 18.7 – 29.5 | 24.7 ± (5) | 22.0 – 26 | | | 24.7 ± 1.9 (174) | | |
| | | | Mass | Male | 24.2 ± 1.57 (72) | 21.0 – 29.5 | 24.7 ± (4) | 24.0 – 25 | | | 23.9 ± 1.6 (206) | | |
| | | | Mass | Mix | 24.1 ± 1.81 (607) | 18.2 – 30.3 | | | | | 24.5 ± 1.6 (3760) | | |
| | | | Tail | Female | 63.6 ± 3.76 (54) | 56.0 – 80.0 | 59.2 ± (10) | 55.0 – 62 | | | 61.6 ± 2.5 (138) | | |
| | | | Tail | Male | 65.4 ± 2.62 (60) | 57.0 – 75.0 | 62.5 ± (8) | 57.0 – 68 | | | 63.5 ± 2.6 (150) | | |
| | | | Tail | Mix | 64.5 ± 3.28 (473) | 53.0 – 80.0 | | | | | 62.6 ± 2.8 (1842) | | |
| | | | Tarsus | Mix | 18.9 ± 0.99 (89) | 16.0 – 22.8 | | | | | 18.8 ± 1.1 (1008) | | |
| Phylloscopidae (Leaf Warblers and Allies) | <i>Phylloscopus trochilus</i> (Willow Warbler – 599) mixed ssp | | Wing | Female | 81.8 ± 2.14 (55) | 77.0 – 87.0 | 78.5 ± (10) | 73.0 – 78 | | | 80.7 ± 2.3 (154) | | |
| | | | Wing | Male | 84.5 ± 2.20 (64) | 79.0 – 88.0 | 82.9 ± (8) | 78.0 – 88 | | | 82.4 ± 2.5 (155) | | |
| | | | Wing | Mix | 83.1 ± 2.73 (500) | 71.0 – 95.0 | | | | | 81.3 ± 2.6 (3577) | | |
| | | | Culmen | Mix | 13.9 ± 1.20 (28) | 10.6 – 16 | | | | | 12.0 ± 3.2 (976) | | |
| | | | Head | Mix | 28.0 ± 0.67 (29) | 26.7 – 29.1 | | | | | 28.2 ± 3.5 (905) | | |
| | | | Mass | Male | 8.2 ± 0.59 (12) | 7.4 – 9.2 | 9.1 ± (6) | 7.1 – 13.2 | | | 8.6 ± 0.8 (87) | | |
| | | | Mass | Mix | 8.3 ± 0.81 (30) | 6.3 – 9.6 | | | | | 10.3 ± 10.0 (5436) | | |
| | | | Tail | Male | 51.3 ± 5.06 (11) | 47.0 – 64.0 | | | | | 51.8 ± 3.1 (19) | | |
| | | | Tail | Mix | 51.1 ± 4.12 (30) | 46.0 – 64.0 | | | | | 49.9 ± 5.6 (1226) | | |



| Family | Species | Subspecies | Measurement | Sex | Our Paper | | | Hockey et al. (2005) | | | Rose et al. (2020) | | |
|---|---|--------------------|-------------|--------|-------------------|---------------|---------------|----------------------|--------------------|------------------|--------------------|--|--|
| | | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | | |
| Platysteiridae (Wattle-eyes, Batises) | <i>Lanioturdus torquatus</i> (White-tailed Shrike – 726) | monotypic | Tarsus | Mix | 19.7 ± 0.69 (27) | 18.4 – 21.2 | | | | 20.3 ± 4.5 (689) | | | |
| | | | Wing | Male | 65.1 ± 3.15 (12) | 61.0 – 71.0 | | | 67.0 ± 4.3 (42) | | | | |
| | | | Wing | Mix | 65.7 ± 3.26 (31) | 61.0 – 73.0 | | | 65.7 ± 4.8 (3414) | | | | |
| Ploceidae (Weavers, Widowbirds) | <i>Bubalornis niger</i> (Red-billed Buffalo Weaver – 779) | <i>B. n. niger</i> | Culmen | Mix | 23.0 ± 1.06 (12) | 20.5 – 25.0 | | | 21.5 ± 2.4 (27) | | | | |
| | | | Head | Mix | 42.3 ± 1.00 (12) | 40.1 – 44.2 | | | 42.3 ± 0.9 (33) | | | | |
| | | | Mass | Mix | 27.0 ± 1.72 (12) | 24.1 – 29.2 | | | 27.0 ± 2.1 (131) | | | | |
| | | | Tail | Mix | 45.3 ± 2.20 (11) | 42.0 – 48.0 | | | 45.6 ± 2.8 (27) | | | | |
| | | | Tarsus | Mix | 30.6 ± 1.06 (12) | 29.1 – 32.6 | | | 30.4 ± 0.7 (24) | | | | |
| | | | Wing | Mix | 86.3 ± 2.31 (12) | 82.0 – 90.0 | | | 85.8 ± 2.5 (122) | | | | |
| | | | Culmen | Mix | 26.3 ± 1.56 (76) | 21.0 – 29.3 | | | 24.1 ± 2.9 (263) | | | | |
| | | | Head | Mix | 45.9 ± 1.49 (76) | 41.0 – 49.1 | | | 46.6 ± 5.1 (263) | | | | |
| | | | Mass | Female | 71.1 ± 6.30 (39) | 56.0 – 81.5 | 71.4 ± (67) | | 72.3 ± 7.1 (193) | | | | |
| | | | Mass | Male | 80.8 ± 5.54 (49) | 68.4 – 92.0 | 84.4 ± (109) | | 82.5 ± 9.2 (272) | | | | |
| <i>Euplectes afer</i> (Yellow-crowned Bishop – 812) | <i>E. a. tahta</i> | monotypic | Mass | Mix | 76.5 ± 7.60 (88) | 56.0 – 92.0 | | | 78.0 ± 12.7 (638) | | | | |
| | | | Tail | Female | 100.6 ± 5.26 (39) | 93.0 – 117.0 | | | 97.6 ± 10.4 (103) | | | | |
| | | | Tail | Male | 105.8 ± 3.59 (49) | 96.0 – 117.0 | 102.5 ± (49) | 95.0 – 109.5 | 104.4 ± 8.7 (146) | | | | |
| | | | Tail | Mix | 103.5 ± 5.10 (88) | 93.0 – 117.0 | | | 100.8 ± 9.5 (325) | | | | |
| | | | Tarsus | Mix | 30.6 ± 1.33 (72) | 27.3 – 33.3 | | | 30.5 ± 2.2 (161) | | | | |
| | | | Wing | Female | 113.6 ± 3.13 (39) | 104.0 – 118.0 | 114.0 ± (16) | 109.5 – 118.0 | 113.8 ± 3.8 (163) | | | | |
| | | | Wing | Male | 122.3 ± 2.41 (50) | 114.0 – 127.0 | 123.1 ± (60) | 116.5 – 127.0 | 119.8 ± 7.6 (247) | | | | |
| | | | Wing | Mix | 118.5 ± 5.12 (89) | 104.0 – 127.0 | | | 117.4 ± 8.8 (538) | | | | |
| | | | Culmen | Mix | 15.1 ± 0.63 (87) | 13.7 – 16.5 | | | 13.2 ± 1.1 (560) | | | | |
| | | | Head | Mix | 26.5 ± 0.62 (87) | 25.1 – 28.0 | | | 27.2 ± 0.9 (356) | | | | |
| <i>Euplectes afer</i> (Yellow-crowned Bishop – 812) | <i>E. a. tahta</i> | monotypic | Mass | Female | 13.9 ± 1.22 (60) | 12.1 – 17.3 | 14.6 ± (8) | 13.0 – 16.6 | 16.4 ± 10.2 (1084) | | | | |
| | | | Mass | Male | 14.9 ± 0.98 (42) | 12.3 – 16.9 | 16.5 ± (11) | 12.8 – 19.8 | 16.8 ± 6.9 (995) | | | | |
| | | | Mass | Mix | 14.2 ± 1.21 (108) | 12.1 – 17.3 | | | 16.5 ± 8.3 (3040) | | | | |
| | | | Tail | Female | 35.0 ± 1.34 (60) | 32.0 – 38.0 | 35.0 ± (45) | 31.0 – 39.0 | 35.1 ± 1.9 (310) | | | | |
| <i>Euplectes afer</i> (Yellow-crowned Bishop – 812) | <i>E. a. tahta</i> | monotypic | Tail | Male | 36.4 ± 1.53 (41) | 31.0 – 40.0 | 37.0 ± (51) | 34.0 – 40 | 36.8 ± 1.7 (304) | | | | |
| | | | Tail | Mix | 35.5 ± 1.59 (107) | 31.0 – 40.0 | | | 35.8 ± 2.4 (758) | | | | |



| Family | Species | Subspecies | Measurement | Sex | Our Paper | | | Hockey et al. (2005) | | | Rose et al. (2020) | | |
|--------|---|------------|-------------|--------|-------------------|-------------|---------------|----------------------|---------------|-------|--------------------|--------------------|--|
| | | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | | |
| | | | Tarsus | Mix | 17.1 ± 0.75 (87) | 15.5 – 19.1 | | | | | | 17.1 ± 0.9 (405) | |
| | | | Wing | Female | 59.9 ± 1.79 (60) | 55.0 – 63.0 | 60.0 ± (43) | 56.0 – 63 | | | | 62.0 ± 2.0 (695) | |
| | | | Wing | Male | 62.7 ± 1.77 (41) | 59.0 – 67.0 | 63.0 ± (51) | 59.0 – 66 | | | | 63.7 ± 1.9 (722) | |
| | | | Wing | Mix | 61.0 ± 2.20 (107) | 55.0 – 67.0 | | | | | | 62.8 ± 2.1 (1949) | |
| | <i>Euplectes orix</i> (Southern Red Bishop – 808) | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | Culmen | Mix | 18.5 ± 0.52 (14) | 17.1 – 19.4 | | | | | | 15.6 ± 3.0 (13099) | |
| | | | Head | Mix | 31.3 ± 1.41 (15) | 29.0 – 33.4 | | | | | | 31.0 ± 4.4 (10965) | |
| | | | Mass | Female | 21.2 ± 1.52 (17) | 18.8 – 23.5 | 20.7 ± (445) | 17.0 – 26.0 | | | | 22.2 ± 3.4 (32368) | |
| | | | Mass | Male | 26.1 ± 2.83 (17) | 19.8 – 32.2 | 25.5 ± (704) | 21.0 – 30.0 | | | | 26.2 ± 3.3 (27327) | |
| | | | Mass | Mix | 23.8 ± 3.23 (38) | 18.8 – 32.2 | | | | | | 23.9 ± 4.0 (80212) | |
| | | | Tail | Female | 38.8 ± 2.07 (18) | 34.0 – 42.0 | 36.0 ± (118) | 30.0 – 42.0 | | | | 39.0 ± 3.6 (9521) | |
| | | | Tail | Male | 42.3 ± 1.65 (17) | 38.0 – 45.0 | 40.0 ± (257) | 35.0 – 47.0 | | | | 42.6 ± 3.5 (8618) | |
| | | | Tail | Mix | 40.6 ± 2.45 (39) | 34.0 – 45.0 | | | | | | 40.7 ± 3.9 (24642) | |
| | | | Tarsus | Mix | 21.5 ± 0.96 (14) | 19.8 – 22.9 | | | | | | 21.5 ± 4.8 (9503) | |
| | | | Wing | Female | 69.7 ± 2.08 (21) | 64.0 – 74.0 | 65.0 ± (118) | 54.0 – 72.0 | | | | 69.2 ± 3.9 (23664) | |
| | | | Wing | Male | 75.4 ± 2.33 (18) | 71.0 – 79.0 | 71.0 ± (257) | 57.0 – 81.0 | | | | 74.7 ± 4.7 (21527) | |
| | | | Wing | Mix | 72.4 ± 3.48 (43) | 64.0 – 79.0 | | | | | | 71.6 ± 5.0 (60600) | |
| | <i>Philetaurus socius</i> (Sociable Weaver – 783) | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | Culmen | Mix | 17.9 ± 1.49 (31) | 16.0 – 23.3 | | | | | | 16.1 ± 1.0 (1136) | |
| | | | Head | Mix | 33.3 ± 0.77 (30) | 31.7 – 34.8 | | | | | | 35.0 ± 3.0 (729) | |
| | | | Mass | Female | 26.7 ± 2.59 (47) | 22.7 – 35.2 | 27.3 ± (43) | 24.0 – 32.0 | | | | 27.5 ± 1.7 (1043) | |
| | | | Mass | Male | 26.6 ± 1.98 (17) | 23.4 – 31.6 | 27.5 ± (73) | 23.8 – 31.9 | | | | 27.3 ± 1.6 (1083) | |
| | | | Mass | Mix | 26.0 ± 2.18 (148) | 20.0 – 35.2 | | | | | | 27.3 ± 1.9 (18672) | |
| | | | Tail | Female | 43.2 ± 1.65 (49) | 38.0 – 47.0 | 40.8 ± (43) | 36.0 – 45.1 | | | | 44.8 ± 4.0 (161) | |
| | | | Tail | Male | 44.1 ± 1.93 (17) | 41.0 – 48.0 | 41.0 ± (73) | 36.7 – 45.5 | | | | 46.0 ± 1.6 (171) | |
| | | | Tail | Mix | 43.8 ± 1.82 (147) | 38.0 – 49.0 | | | | | | 44.0 ± 4.0 (1667) | |
| | | | Tarsus | Mix | 20.1 ± 0.76 (30) | 18.5 – 21.9 | | | | | | 23.0 ± 1.6 (4549) | |
| | | | Wing | Female | 73.8 ± 1.77 (50) | 70.0 – 78.0 | 70.7 ± (43) | 68.1 – 74.1 | | | | 76.1 ± 2.2 (537) | |
| | | | Wing | Male | 75.2 ± 1.75 (17) | 73.0 – 78.0 | 71.7 ± (73) | 68.1 – 77.8 | | | | 76.8 ± 2.0 (490) | |
| | | | Wing | Mix | 74.0 ± 2.09 (165) | 67.0 – 83.0 | | | | | | 74.7 ± 2.6 (15457) | |
| | <i>Ploceus intermedius</i> (Lesser Masked Weaver – 792) | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | Culmen | Mix | 18.8 ± 0.94 (65) | 16.6 – 21.0 | | | | | | 16.4 ± 8.8 (990) | |
| | | | Head | Mix | 33.7 ± 0.87 (65) | 31.8 – 35.3 | | | | | | 33.5 ± 3.9 (935) | |
| | | | Mass | Female | 19.3 ± 1.36 (41) | 16.2 – 22.4 | 19.8 ± (499) | 15.0 – 32.9 | | | | 20.2 ± 3.5 (1394) | |

| Family | Species | Subspecies | Measurement | Sex | Our Paper | | | Hockey et al. (2005) | | | Rose et al. (2020) | | |
|--------|---------|------------|--|--------|-------------------|-------------|---------------|----------------------|--------------------|-------|--------------------|--|--|
| | | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | | |
| | | | Mass | Male | 22.0 ± 1.53 (45) | 18.9 – 26.2 | 21.4 ± (777) | 15.0 – 43.0 | 22.0 ± 3.9 (1305) | | | | |
| | | | Mass | Mix | 20.7 ± 1.97 (86) | 16.2 – 26.2 | | | 21.0 ± 4.8 (3863) | | | | |
| | | | Tail | Female | 48.5 ± 1.67 (41) | 46.0 – 52.0 | | | 47.4 ± 5.0 (508) | | | | |
| | | | Tail | Male | 50.7 ± 1.98 (45) | 47.0 – 56.0 | | | 48.6 ± 6.0 (436) | | | | |
| | | | Tail | Mix | 49.7 ± 2.12 (86) | 46.0 – 56.0 | | | 48.0 ± 5.7 (1452) | | | | |
| | | | Tarsus | Mix | 21.1 ± 0.72 (65) | 19.3 – 22.9 | | | 24.8 ± 30.3 (706) | | | | |
| | | | Wing | Female | 70.5 ± 2.10 (42) | 67.0 – 74.0 | 69.6 ± (112) | 65.0 – 78.0 | 69.7 ± 3.6 (1141) | | | | |
| | | | Wing | Male | 73.6 ± 1.63 (45) | 70.0 – 78.0 | 72.8 ± (140) | 67.0 – 78.0 | 72.3 ± 4.0 (977) | | | | |
| | | | Wing | Mix | 72.1 ± 2.45 (87) | 67.0 – 78.0 | | | 70.8 ± 3.9 (3109) | | | | |
| | | | <i>Ploceus rubiginosus</i> (Chestnut Weaver – 796) | | | | | | | | | | |
| | | | <i>P. r. trochae</i> | | | | | | | | | | |
| | | | Culmen | Mix | 21.4 ± 1.36 (115) | 17.4 – 24.8 | | | 20.1 ± 1.6 (148) | | | | |
| | | | Head | Mix | 35.7 ± 1.23 (115) | 33.1 – 38.2 | | | 35.7 ± 1.9 (152) | | | | |
| | | | Mass | Female | 29.2 ± 2.65 (98) | 23.6 – 35.5 | 27.8 ± (65) | 25.0 – 30.0 | 30.7 ± 8.4 (1810) | | | | |
| | | | Mass | Male | 33.6 ± 2.31 (63) | 26.9 – 38.8 | 32.1 ± (39) | 28.0 – 37.0 | 35.7 ± 12.7 (1949) | | | | |
| | | | Mass | Mix | 30.5 ± 3.35 (203) | 21.4 – 38.8 | | | 32.5 ± 9.9 (5733) | | | | |
| | | | Tail | Female | 50.2 ± 2.32 (95) | 46.0 – 57.0 | 47.0 ± (29) | 45.0 – 49.0 | 50.4 ± 2.4 (211) | | | | |
| | | | Tail | Male | 53.6 ± 2.80 (57) | 46.0 – 57.0 | 52.0 ± (42) | 47.0 – 55.0 | 54.7 ± 2.4 (227) | | | | |
| | | | Tail | Mix | 51.1 ± 3.01 (194) | 42.0 – 57.0 | | | 52.2 ± 3.2 (794) | | | | |
| | | | Tarsus | Mix | 21.8 ± 0.99 (102) | 19.7 – 25.1 | | | 21.4 ± 1.0 (96) | | | | |
| | | | Wing | Female | 77.7 ± 2.40 (96) | 72.0 – 86.0 | 78.0 ± (29) | 74.0 – 79.0 | 76.4 ± 5.8 (1826) | | | | |
| | | | Wing | Male | 82.9 ± 2.37 (57) | 76.0 – 90.0 | 84.0 ± (42) | 80.0 – 87.0 | 77.8 ± 12.6 (2011) | | | | |
| | | | Wing | Mix | 79.3 ± 3.39 (195) | 72.0 – 90.0 | | | 77.3 ± 8.7 (5316) | | | | |
| | | | <i>Ploceus xanthrops</i> (Holub's Golden Weaver – 801) | | | | | | | | | | |
| | | | monotypic | | | | | | | | | | |
| | | | Culmen | Mix | 22.2 ± 0.75 (6) | 20.9 – 23.0 | | | 21.5 ± 1.6 (166) | | | | |
| | | | Head | Mix | 38.6 ± 0.83 (6) | 37.3 – 39.6 | | | 39.6 ± 1.3 (155) | | | | |
| | | | Mass | Female | 38.1 ± 1.24 (4) | 36.3 – 39.0 | | | 38.9 ± 6.7 (115) | | | | |
| | | | Mass | Male | 43.8 ± 2.87 (3) | 40.6 – 46.2 | | | 42.6 ± 5.1 (281) | | | | |
| | | | Mass | Mix | 40.5 ± 3.56 (7) | 36.3 – 46.2 | | | 40.7 ± 5.6 (584) | | | | |
| | | | Tail | Female | 68.3 ± 2.63 (4) | 66.0 – 72.0 | | | 69.5 ± 5.1 (39) | | | | |
| | | | Tail | Male | 73.5 ± 1.73 (4) | 72.0 – 76.0 | | | 71.7 ± 4.2 (84) | | | | |
| | | | Tail | Mix | 70.9 ± 3.48 (8) | 66.0 – 76.0 | | | 70.7 ± 4.9 (198) | | | | |
| | | | Tarsus | Mix | 26.3 ± 1.02 (6) | 25.0 – 27.4 | | | 25.9 ± 1.4 (147) | | | | |
| | | | Wing | Female | 88.8 ± 2.87 (4) | 87.0 – 93.0 | | | 87.6 ± 4.6 (84) | | | | |
| | | | Wing | Male | 95.3 ± 4.50 (4) | 89.0 – 99.0 | | | 91.1 ± 4.6 (213) | | | | |
| | | | Wing | Mix | 92.0 ± 4.83 (8) | 87.0 – 99.0 | | | 89.4 ± 5.2 (463) | | | | |



| Family | Species | Subspecies | Measurement | Sex | Our Paper | | | Hockey et al. (2005) | | | Rose et al. (2020) | | |
|--|---------|------------|-------------|--------|-------------------|-------------|---------------|----------------------|---------------|-------|--------------------|--------------------|--|
| | | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | | |
| <i>Quelea quelea</i> (Red-billed Quelea – 805) | | | | | | | | | | | | | |
| <i>Q. q. leithamii</i> | | | | | | | | | | | | | |
| | | | Culmen | Mix | 15.9 ± 0.77 (20) | 14.5 – 17.4 | | | | | | 14.2 ± 1.8 (4074) | |
| | | | Head | Mix | 27.5 ± 1.12 (21) | 23.5 – 29.3 | | | | | | 28.2 ± 2.8 (3439) | |
| | | | Mass | Female | 17.8 ± 1.71 (75) | 14.7 – 23.0 | 18.7 ± (419) | 14.5 – 25.0 | | | | 18.5 ± 3.6 (9367) | |
| | | | Mass | Male | 17.8 ± 1.85 (71) | 13.6 – 22.3 | 19.6 ± (1164) | 15.0 – 26.5 | | | | 19.4 ± 3.0 (12456) | |
| | | | Mass | Mix | 17.6 ± 1.73 (224) | 13.4 – 23.0 | | | | | | 18.9 ± 3.5 (45587) | |
| | | | Tail | Female | 36.9 ± 1.21 (22) | 34.0 – 38.0 | 36.0 ± (12) | 33.0 – 39.0 | | | | 37.1 ± 3.3 (2614) | |
| | | | Tail | Male | 37.9 ± 1.95 (43) | 33.0 – 43.0 | 38.0 ± (12) | 36.0 – 40.0 | | | | 37.9 ± 3.3 (2807) | |
| | | | Tail | Mix | 37.5 ± 1.90 (127) | 33.0 – 43.0 | | | | | | 37.5 ± 3.4 (9093) | |
| | | | Tarsus | Mix | 18.3 ± 0.78 (21) | 16.1 – 19.8 | | | | | | 18.9 ± 2.3 (2977) | |
| | | | Wing | Female | 65.3 ± 2.83 (26) | 60.0 – 74.0 | 64.0 ± (12) | 62.0 – 67.0 | | | | 64.4 ± 4.3 (7450) | |
| | | | Wing | Male | 66.3 ± 1.99 (44) | 62.0 – 71.0 | 66.0 ± (12) | 63.0 – 69.0 | | | | 65.9 ± 5.4 (10730) | |
| | | | Wing | Mix | 65.6 ± 2.22 (136) | 60.0 – 74.0 | | | | | | 65.2 ± 4.8 (33348) | |
| Sturnidae (Starlings, Rhabdomis) | | | | | | | | | | | | | |
| <i>Cinnyricinclus leucogaster</i> (Violet-backed Starling – 736) | | | | | | | | | | | | | |
| | | | Culmen | Mix | 18.8 ± 1.04 (85) | 16.9 – 22.5 | | | | | | 17.3 ± 3.2 (244) | |
| | | | Head | Mix | 38.5 ± 0.88 (85) | 36.3 – 40.9 | | | | | | 39.5 ± 1.4 (217) | |
| | | | Mass | Female | 35.4 ± 3.22 (36) | 26.5 – 43.6 | 44.7 ± (10) | 39.0 – 56.0 | | | | 42.2 ± 6.8 (253) | |
| | | | Mass | Male | 33.9 ± 3.11 (56) | 29.0 – 46.4 | 44.4 ± (10) | 39.0 – 50.0 | | | | 40.8 ± 6.6 (377) | |
| | | | Mass | Mix | 34.5 ± 3.22 (92) | 26.5 – 46.4 | | | | | | 41.5 ± 6.6 (663) | |
| | | | Tail | Female | 57.9 ± 2.11 (36) | 52.0 – 64.0 | 58.0 ± (10) | 54.0 – 60.0 | | | | 58.4 ± 2.8 (102) | |
| | | | Tail | Male | 60.4 ± 2.03 (57) | 55.0 – 65.0 | 63.0 ± (10) | 61.0 – 66.0 | | | | 61.4 ± 4.3 (150) | |
| | | | Tail | Mix | 59.4 ± 2.39 (93) | 52.0 – 65.0 | | | | | | 60.0 ± 4.1 (268) | |
| | | | Tarsus | Mix | 21.5 ± 1.25 (85) | 19.4 – 29.0 | | | | | | 24.7 ± 9.7 (175) | |
| | | | Wing | Female | 98.8 ± 3.23 (36) | 89.0 – 107 | 100.0 ± (10) | 95.0 – 105.0 | | | | 101.2 ± 4.8 (212) | |
| | | | Wing | Male | 102.8 ± 2.35 (57) | 97.0 – 108 | 108.0 ± (10) | 104.0 – 122.0 | | | | 106.3 ± 4.2 (305) | |
| | | | Wing | Mix | 101.3 ± 3.34 (93) | 89.0 – 108 | | | | | | 104.0 ± 5.3 (547) | |
| <i>Creatophora cinerea</i> (Wattled Starling – 735) | | | | | | | | | | | | | |
| monotypic | | | | | | | | | | | | | |
| | | | Culmen | Mix | 27.7 ± 1.64 (58) | 25.0 – 33.3 | | | | | | 25.1 ± 2.7 (217) | |
| | | | Head | Mix | 49.4 ± 1.29 (59) | 46.2 – 53.2 | | | | | | 49.3 ± 1.4 (215) | |
| | | | Mass | Female | 64.4 ± 4.06 (28) | 56.2 – 75.3 | 71.5 ± (63) | 51.0 – 83.0 | | | | 70.9 ± 6.2 (646) | |
| | | | Mass | Male | 69.6 ± 5.18 (18) | 62.0 – 78.9 | 74.5 ± (67) | 64.0 – 85.0 | | | | 75.8 ± 8.0 (513) | |
| | | | Mass | Mix | 66.7 ± 5.06 (61) | 56.2 – 78.9 | | | | | | 72.6 ± 8.5 (2108) | |
| | | | Tail | Female | 68.3 ± 3.22 (27) | 62.0 – 73.0 | 68.0 ± (11) | 65.0 – 73.0 | | | | 66.5 ± 3.1 (67) | |
| | | | Tail | Male | 69.1 ± 3.68 (18) | 61.0 – 78.0 | 69.0 ± (12) | 65.0 – 73.0 | | | | 68.3 ± 3.1 (87) | |



| Family | Species | Subspecies | Measurement | Sex | Our Paper | | | Hockey et al. (2005) | | | Rose et al. (2020) | | |
|--------|---|------------|-------------|--------|--------------------|---------------|---------------|----------------------|---------------|---------------------------|--------------------|--|--|
| | | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | | |
| | | | Tail | Mix | 68.3 ± 3.41 (59) | 61.0 – 78.0 | | | | 67.5 ± 3.3 (246) | | | |
| | | | Tarsus | Mix | 29.6 ± 1.01 (59) | 27.3 – 32.3 | | | | 29.8 ± 2.5 (153) | | | |
| | | | Wing | Female | 117.3 ± 4.65 (28) | 103.0 – 127.0 | 117.0 ± (11) | 111.0 – 124.0 | | 116.7 ± 7.2 (409) | | | |
| | | | Wing | Male | 121.1 ± 2.34 (18) | 117.0 – 125.0 | 120.0 ± (12) | 116.0 – 123.0 | | 120.1 ± 6.8 (369) | | | |
| | | | Wing | Mix | 118.6 ± 4.42 (61) | 103.0 – 127.0 | | | | 117.9 ± 6.8 (1375) | | | |
| | <i>Lamprotornis australis</i> (Burchell's Starling – 743) | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | Culmen | Mix | 28.7 ± 2.65 (31) | 23.1 – 36.0 | | | | 25.4 ± 5.5 (87) | | | |
| | | | Head | Mix | 55.5 ± 1.96 (32) | 50.0 – 58.4 | | | | 55.1 ± 3.2 (92) | | | |
| | | | Mass | Mix | 116.3 ± 14.56 (30) | 91.3 – 143.0 | | | | 118.0 ± 16.8 (231) | | | |
| | | | Tail | Mix | 162.8 ± 14.09 (28) | 140.0 – 202.0 | | | | 156.2 ± 23.0 (107) | | | |
| | | | Tarsus | Mix | 45.7 ± 2.80 (32) | 40.0 – 50.6 | | | | 44.7 ± 4.5 (44) | | | |
| | | | Wing | Mix | 181.4 ± 11.41 (32) | 160.0 – 199.0 | | | | 176.5 ± 14.2 (220) | | | |
| | <i>Lamprotornis mevesii</i> (Meves's Starling – 742) | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | Culmen | Mix | 22.1 ± 1.81 (37) | 18.3 – 26.8 | | | | 24.4 ± 19.8 (276) | | | |
| | | | Head | Mix | 48.5 ± 1.29 (37) | 45.4 – 50.5 | | | | 48.0 ± 3.5 (296) | | | |
| | | | Mass | Male | 87.8 ± 0 (1) | | 88.5 ± (8) | 77.0 – 95.0 | | 82.1 ± 7.3 (61) | | | |
| | | | Mass | Mix | 75.1 ± 8.04 (38) | 62.0 – 94.0 | | | | 75.7 ± 12.0 (716) | | | |
| | | | Tail | Male | 214.0 ± 0 (1) | | 211.0 ± (10) | 188.0 – 225.0 | | 197.5 ± 19.0 (37) | | | |
| | | | Tail | Mix | 204.2 ± 13.64 (37) | 183.0 – 233.0 | | | | 190.1 ± 23.3 (398) | | | |
| | | | Tarsus | Mix | 38.6 ± 1.61 (36) | 35.0 – 42.5 | | | | 39.3 ± 3.1 (177) | | | |
| | | | Wing | Male | 151.0 ± 0 (1) | | 150.0 ± (10) | 146.0 – 157.0 | | 149.9 ± 5.9 (62) | | | |
| | | | Wing | Mix | 145.8 ± 6.05 (38) | 131.0 – 154.0 | | | | 141.8 ± 12.0 (688) | | | |
| | <i>Lamprotornis nitens</i> (Cape Starling – 737) | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | Culmen | Mix | 25.4 ± 1.51 (158) | 20.9 – 29.9 | | | | 22.6 ± 3.3 (666) | | | |
| | | | Head | Mix | 49.6 ± 1.52 (157) | 45.0 – 54.0 | | | | 51.3 ± 6.3 (662) | | | |
| | | | Mass | Female | 73.0 ± 6.83 (69) | 55.9 – 89.4 | 80.0 ± (12) | 67.0 – 96.0 | | 77.1 ± 10.2 (144) | | | |
| | | | Mass | Male | 78.6 ± 6.58 (25) | 66.2 – 92.0 | 85.0 ± (17) | 65.0 – 116.0 | | 87.0 ± 11.7 (102) | | | |
| | | | Mass | Mix | 75.4 ± 6.95 (174) | 55.9 – 92.0 | | | | 80.4 ± 10.6 (2842) | | | |
| | | | Tail | Female | 83.1 ± 4.05 (67) | 74.0 – 98.0 | 86.0 ± (10) | 77.0 – 90.0 | | 80.6 ± 10.8 (71) | | | |
| | | | Tail | Male | 85.6 ± 4.86 (23) | 75.0 – 93.0 | 86.0 ± (10) | 77.0 – 90.0 | | 86.8 ± 5.4 (45) | | | |
| | | | Tail | Mix | 84.0 ± 4.10 (171) | 74.0 – 98.0 | | | | 83.9 ± 8.0 (960) | | | |
| | | | Tarsus | Mix | 33.1 ± 1.58 (155) | 28.6 – 36.8 | | | | 33.4 ± 5.0 (526) | | | |
| | | | Wing | Female | 129.4 ± 6.38 (68) | 116.0 – 152.0 | 128.0 ± (10) | 119.0 – 134.0 | | 125.0 ± 9.6 (132) | | | |
| | | | Wing | Male | 133.2 ± 5.28 (25) | 120.0 – 142.0 | 134.0 ± (10) | 130.0 – 137.0 | | 132.3 ± 8.5 (96) | | | |
| | | | Wing | Mix | 130.2 ± 5.76 (175) | 116.0 – 152.0 | | | | 128.5 ± 7.7 (2514) | | | |



| Family | Species | Subspecies | Measurement | Sex | Our Paper | | | Hockey et al. (2005) | | | Rose et al. (2020) | | | |
|---|---------|------------|---|--------|-------------------|---------------|--------------|----------------------|-------|--|--------------------|-------|--|-------------------|
| | | | | | Mean ± SD (n) | Range | | Mean ± SD (n) | Range | | Mean ± SD (n) | Range | | |
| <i>Onychognathus naboroupp</i> (Pale-winged Starling – 744) | | | | | | | | | | | | | | |
| | | monotypic | | | | | | | | | | | | |
| | | | Culmen | Mix | 29.1 ± 1.55 (16) | 25.5 – 32.5 | | | | | | | | 24.0 ± 2.9 (66) |
| | | | Head | Mix | 54.6 ± 1.52 (17) | 52.1 – 57.6 | | | | | | | | 54.4 ± 2.5 (111) |
| | | | Mass | Mix | 99.8 ± 9.93 (21) | 75.2 – 120.0 | | | | | | | | 96.7 ± 9.7 (466) |
| | | | Tail | Mix | 107.0 ± 5.37 (20) | 99.0 – 119.0 | | | | | | | | 103.3 ± 4.8 (157) |
| | | | Tarsus | Mix | 33.0 ± 1.42 (17) | 30.0 – 35.1 | | | | | | | | 31.5 ± 1.6 (123) |
| | | | Wing | Mix | 144.1 ± 4.43 (20) | 135.0 – 151.0 | | | | | | | | 141.2 ± 5.5 (367) |
| Sylviidae (Sylvid Babblers) | | | | | | | | | | | | | | |
| | | | <i>Curruca communis</i> (Common Whitethroat – 594) | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | mixed ssp | | | | | | | | | | | |
| | | | Culmen | Mix | 16.2 ± 0.21 (2) | 16.0 – 16.3 | | | | | | | | 14.7 ± 8.0 (85) |
| | | | Head | Mix | 31.6 ± 0.72 (3) | 30.8 – 32.2 | | | | | | | | 32.0 ± 5.2 (82) |
| | | | Mass | Female | 14.3 ± 0.99 (2) | 13.6 – 15.0 | | | | | | | | 15.5 ± 1.6 (49) |
| | | | Mass | Mix | 14.2 ± 0.74 (3) | 13.6 – 15.0 | | | | | | | | 15.7 ± 5.3 (265) |
| | | | Tail | Female | 59.0 ± 2.83 (2) | 57.0 – 61.0 | 57.4 ± (10) | 54.0 – 61.0 | | | | | | 63.3 ± 3.4 (26) |
| | | | Tail | Mix | 62.0 ± 5.57 (3) | 57.0 – 68.0 | | | | | | | | 62.6 ± 6.2 (103) |
| | | | Tarsus | Mix | 21.7 ± 0.35 (3) | 21.3 – 22.0 | | | | | | | | 21.3 ± 1.0 (60) |
| | | | Wing | Female | 70.0 ± 1.41 (2) | 69.0 – 71.0 | 71.0 ± (10) | 68.0 – 73.0 | | | | | | 72.6 ± 2.1 (46) |
| | | | Wing | Mix | 71.7 ± 3.06 (3) | 69.0 – 75.0 | | | | | | | | 71.9 ± 5.0 (217) |
| Turdidae (Thrushes) | | | | | | | | | | | | | | |
| | | | <i>Turdus lillsitirupa</i> (Groundscraper Thrush – 557) | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | mixed ssp | | | | | | | | | | | |
| | | | Culmen | Mix | 31.0 ± 1.93 (20) | 27.5 – 34.0 | | | | | | | | 27.2 ± 3.0 (153) |
| | | | Head | Mix | 57.1 ± 1.65 (20) | 54.8 – 61.2 | | | | | | | | 56.1 ± 4.2 (147) |
| | | | Mass | Female | 73.2 ± 5.79 (7) | 65.4 – 80.5 | 76.1 ± (7) | 71.0 – 84.4 | | | | | | 75.1 ± 8.8 (30) |
| | | | Mass | Male | 72.8 ± 6.04 (12) | 65.6 – 84.9 | | | | | | | | 79.0 ± 8.6 (28) |
| | | | Mass | Mix | 73.2 ± 5.47 (26) | 65.4 – 84.9 | | | | | | | | 76.5 ± 7.9 (515) |
| | | | Tail | Female | 69.7 ± 2.50 (7) | 66.0 – 73.0 | 63.1 ± (10) | 55.0 – 77.0 | | | | | | 68.9 ± 16.9 (17) |
| | | | Tail | Male | 71.6 ± 3.95 (10) | 65.0 – 78.0 | 70.5 ± (10) | 67.0 – 77.0 | | | | | | 67.3 ± 13.4 (13) |
| | | | Tail | Mix | 70.7 ± 4.04 (24) | 63.0 – 78.0 | | | | | | | | 69.9 ± 9.6 (193) |
| | | | Tarsus | Mix | 36.7 ± 1.22 (20) | 34.5 – 39.8 | | | | | | | | 37.3 ± 5.3 (108) |
| | | | Wing | Female | 126.3 ± 2.50 (7) | 123.0 – 129.0 | 124.0 ± (10) | 120.0 – 130.0 | | | | | | 127.4 ± 3.6 (26) |
| | | | Wing | Male | 130.4 ± 3.23 (12) | 126.0 – 137.0 | 127.0 ± (10) | 121.0 – 139.0 | | | | | | 130.5 ± 2.9 (24) |
| | | | Wing | Mix | 129.2 ± 3.71 (26) | 123.0 – 137.0 | | | | | | | | 127.1 ± 8.8 (454) |



| Family | Species | Subspecies | Measurement | Sex | Our Paper | | | Hockey et al. (2005) | | | Rose et al. (2020) | | |
|---|---------|------------|-------------|--------------------|---------------|--------------------|--------------------|----------------------|---------------|-------|--------------------|--|--|
| | | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | | |
| Viduidae (Indigobirds, Whydahs) | | | | | | | | | | | | | |
| <i>Vidua macroura</i> (Pin-tailed Whydah – 846) | | | | | | | | | | | | | |
| monotypic | | | | | | | | | | | | | |
| | | Culmen | Mix | 12.0 ± 0.50 (4) | 11.5 – 12.5 | | | | | | | | |
| | | Head | Mix | 23.9 ± 0.57 (4) | 23.1 – 24.3 | | | | | | | | |
| | | Mass | Female | 14.5 ± 0 (1) | | 14.9 ± (18) | 13.4 – 15.9 | | | | | | |
| | | Mass | Male | 13.8 ± 0.49 (3) | 13.2 – 14.1 | 15.5 ± (18) | 13.8 – 17.8 | | | | | | |
| | | Mass | Mix | 13.6 ± 0.91 (5) | 12.2 – 14.5 | | | | | | | | |
| | | Tail | Female | 41.0 ± 0 (1) | | 50.6 ± (18) | 47.0 – 55.0 | | | | | | |
| | | Tail | Male | 233.0 ± 2.65 (3) | 231.0 – 236.0 | | | | | | | | |
| | | Tail | Mix | 156.4 ± 104.91 (5) | 41.0 – 236.0 | | | | | | | | |
| | | Tarsus | Mix | 16.6 ± 0.64 (4) | 15.7 – 17.2 | | | | | | | | |
| | | Wing | Female | 65.0 ± 0 (1) | | 66.8 ± (17) | 66.0 – 68.0 | | | | | | |
| | | Wing | Male | 72.7 ± 2.08 (3) | 71.0 – 75.0 | 71.2 ± (33) | 67.0 – 76.0 | | | | | | |
| | | Wing | Mix | 69.0 ± 5.34 (5) | 62.0 – 75.0 | | | | | | | | |
| <i>Vidua paradisaea</i> (Long-tailed Paradise Whydah – 852) | | | | | | | | | | | | | |
| monotypic | | | | | | | | | | | | | |
| | | Culmen | Mix | 14.3 ± 0.99 (9) | 12.4 – 16.1 | | | | | | | | |
| | | Head | Mix | 26.2 ± 1.22 (9) | 23.3 – 27.4 | | | | | | | | |
| | | Mass | Female | 19.8 ± 4.01 (4) | 13.8 – 22.2 | 19.0 ± (98) | 15.8 – 24.7 | | | | | | |
| | | Mass | Male | 19.1 ± 1.16 (4) | 17.4 – 19.8 | 21.8 ± (102) | 18.5 – 29.3 | | | | | | |
| | | Mass | Mix | 19.2 ± 2.52 (10) | 13.8 – 22.2 | | | | | | | | |
| | | Tail | Female | 50.3 ± 10.79 (3) | 38.0 – 58.0 | 55.5 ± (27) | 50.0 – 65.0 | | | | | | |
| | | Tail | Male | 155.2 ± 92.10 (4) | 60.0 – 241.0 | | | | | | | | |
| | | Tail | Mix | 98.2 ± 78.37 (9) | 38.0 – 241.0 | | | | | | | | |
| | | Tarsus | Mix | 17.2 ± 1.10 (9) | 15.0 – 19.0 | | | | | | | | |
| | | Wing | Female | 78.5 ± 4.65 (4) | 72.0 – 83.0 | 75.7 ± (35) | 73.0 – 79.0 | | | | | | |
| | | Wing | Male | 79.8 ± 1.50 (4) | 78.0 – 81.0 | 78.6 ± (246) | 74.0 – 82.0 | | | | | | |
| | | Wing | Mix | 79.2 ± 2.97 (10) | 72.0 – 83.0 | | | | | | | | |
| <i>Vidua regia</i> (Shaft-tailed Whydah – 847) | | | | | | | | | | | | | |
| monotypic | | | | | | | | | | | | | |
| | | Culmen | Mix | 12.9 ± 0.73 (177) | 10.4 – 15.0 | | | | | | | | |
| | | Head | Mix | 24.2 ± 0.43 (182) | 22.6 – 25.2 | | | | | | | | |
| | | Mass | Female | 13.9 ± 1.06 (135) | 11.0 – 18.2 | 13.8 ± (67) | 11.9 – 15.5 | | | | | | |
| | | Mass | Male | 14.9 ± 1.18 (145) | 11.6 – 19.5 | 14.8 ± (49) | 11.9 – 16.9 | | | | | | |
| | | Mass | Mix | 14.4 ± 1.20 (309) | 11.0 – 19.5 | | | | | | | | |
| | | Tail | Female | 42.0 ± 2.44 (120) | 36.0 – 56.0 | 41.9 ± (14) | 40.0 – 43.0 | | | | | | |



| Family | Species | Subspecies | Measurement | Sex | Our Paper | | | Hockey et al. (2005) | | Rose et al. (2020) | |
|---------------------------|---|------------|-------------|--------|---------------------|--------------|---------------|----------------------|--------------------|--------------------|--|
| | | | | | Mean ± SD (n) | Range | Mean ± SD (n) | Range | Mean ± SD (n) | Mean ± SD (n) | |
| Zosteropidae (White-eyes) | | | Tail | Male | 145.9 ± 86.53 (135) | 38.0 – 273.0 | | | 179.0 ± 75.3 (106) | | |
| | | | Tail | Mix | 91.9 ± 79.16 (282) | 36.0 – 273.0 | | | 109.7 ± 87.0 (267) | | |
| | | | Wing | Female | 71.4 ± 1.73 (122) | 65.0 – 76.0 | 70.1 ± (14) | 68.0 – 72.0 | 70.2 ± 2.2 (306) | | |
| | | | Wing | Male | 73.6 ± 1.72 (141) | 68.0 – 80.0 | 72.7 ± (30) | 70.0 – 75.0 | 72.9 ± 1.8 (294) | | |
| | | | Wing | Mix | 72.5 ± 2.06 (291) | 65.0 – 80.0 | | | 70.9 ± 2.6 (987) | | |
| Zosteropidae (White-eyes) | | | | | | | | | | | |
| | <i>Zosterops pallidus</i> (Orange River White-eye – 1171) | | | | | | | | | | |
| | monotypic | | | | | | | | | | |
| | | | Culmen | Mix | 12.8 ± 0.70 (3) | 12.1 – 13.5 | | | 11.8 ± 1.9 (680) | | |
| | | | Head | Mix | 25.8 ± 0.51 (3) | 25.2 – 26.2 | | | 27.6 ± 2.6 (629) | | |
| | | | Mass | Female | 8.0 ± 0.14 (2) | 7.9 – 8.1 | | | 10.2 ± 0.8 (90) | | |
| | | | Mass | Mix | 8.2 ± 0.36 (3) | 7.9 – 8.6 | | | 10.0 ± 1.0 (2183) | | |
| | | | Tail | Female | 44.5 ± 0.71 (2) | 44.0 – 45.0 | | | 46.1 ± 4.6 (71) | | |
| | | | Tail | Mix | 44.3 ± 0.58 (3) | 44.0 – 45.0 | | | 46.8 ± 3.5 (1017) | | |
| | | | Tarsus | Mix | 17.8 ± 1.00 (3) | 16.8 – 18.8 | | | 17.8 ± 2.0 (631) | | |
| | | | Wing | Female | 55.5 ± 3.54 (2) | 53.0 – 58.0 | | | 58.9 ± 2.0 (84) | | |
| | | | Wing | Mix | 55.3 ± 2.52 (3) | 53.0 – 58.0 | | | 58.5 ± 3.0 (1966) | | |
| | <i>Zosterops anderssoni</i> (Southern Yellow White-eye – 777) | | | | | | | | | | |
| | <i>Z. a. anderssoni</i> | | | | | | | | | | |
| | | | Culmen | Mix | 13.8 ± 0.85 (6) | 12.3 – 14.9 | | | 12.0 ± 1.6 (119) | | |
| | | | Head | Mix | 26.4 ± 0.77 (6) | 25.5 – 27.6 | | | 27.0 ± 1.0 (81) | | |
| | | | Mass | Female | 7.9 ± 0 (1) | | | | 10.2 ± 1.0 (145) | | |
| | | | Mass | Male | 9.2 ± 0 (1) | | | | 10.0 ± 0.9 (127) | | |
| | | | Mass | Mix | 10.1 ± 2.28 (6) | 7.9 – 14.3 | | | 10.5 ± 5.7 (1416) | | |
| | | | Tail | Mix | 43.0 ± 2.37 (6) | 40.0 – 47.0 | | | 41.2 ± 2.2 (132) | | |
| | | | Tarsus | Mix | 15.8 ± 1.12 (6) | 14.0 – 17.5 | | | 16.1 ± 1.0 (92) | | |
| | | | Wing | Mix | 59.7 ± 2.50 (6) | 56.0 – 63.0 | | | 58.9 ± 5.2 (322) | | |

Appendix 1. Subspecies nomenclature and counts. Records were grouped by subspecies where possible and are restricted to the initial (first) record of adults, i.e., recaptures were excluded.

| Family | Species | Authority_spp | Subspecies | Authority_ssp | Record Count | Wing | Tail | Tarsus | Culmen | Head | Mass |
|---|---|--------------------|--------------------------|------------------------------|--------------|------|------|--------|--------|------|------|
| Acrocephalidae (Reed Warblers and Allies) | <i>Acrocephalus arundinaceus</i> (Great Reed Warbler - 603) | Linnaeus, 1758 | mixed ssp | NA | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Acrocephalidae (Reed Warblers and Allies) | <i>Acrocephalus scirpaceus</i> (Common Reed Warbler - 606) | Vieillot, 1817 | <i>A. s. baeticus</i> | Vieillot, 1817 | 283 | 282 | 269 | 188 | 189 | 186 | 280 |
| Acrocephalidae (Reed Warblers and Allies) | <i>Acrocephalus scirpaceus</i> (Common Reed Warbler - 911) | Hermann, 1804 | <i>A. s. scirpaceus</i> | Hermann, 1804 | 9 | 9 | 8 | 7 | 9 | 9 | 9 |
| Acrocephalidae (Reed Warblers and Allies) | <i>Acrocephalus palustris</i> (Marsh Warbler - 607) | Bechstein, 1798 | monotypic | NA | 4 | 4 | 3 | 3 | 4 | 4 | 4 |
| Acrocephalidae (Reed Warblers and Allies) | <i>Acrocephalus schoenobaenus</i> (Sedge Warbler - 608) | Linnaeus, 1758 | monotypic | NA | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Acrocephalidae (Reed Warblers and Allies) | <i>Hippolais icterina</i> (Icterine Warbler - 596) | Vieillot, 1817 | monotypic | NA | 41 | 41 | 33 | 39 | 41 | 41 | 41 |
| Alaudidae (Larks) | <i>Armonanopsis grayi</i> (Gray's Lark - 483) | Wahlberg, 1855 | <i>A. g. grayi</i> | Wahlberg, 1855 | 5 | 5 | 5 | 5 | 5 | 5 | 4 |
| Alaudidae (Larks) | <i>Calendulauda africanoides</i> (Fawn-coloured Lark - 459) | Smith, A., 1836 | <i>C. a. harei</i> | Roberts, 1917 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| Alaudidae (Larks) | <i>Calendulauda sabota</i> (Sabota Lark - 460) | Smith, A., 1836 | mixed ssp | NA | 195 | 194 | 192 | 182 | 181 | 183 | 190 |
| Alaudidae (Larks) | <i>Certhilauda subcomata</i> (Karoo Long-billed Lark - 4127) | Smith, A., 1843 | <i>C. s. damarensis</i> | Sharpe, 1904 | 87 | 87 | 82 | 87 | 87 | 87 | 84 |
| Alaudidae (Larks) | <i>Chersomanes albofasciata</i> (Spike-heeled Lark - 474) | Lafrésnay, 1836 | <i>C. a. arenaria</i> | Reichenow, 1904 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Alaudidae (Larks) | <i>Eremopterix verticalis</i> (Grey-backed Sparrow-Lark - 485) | Smith, A., 1836 | <i>E. v. damarensis</i> | Roberts, 1931 | 156 | 146 | 145 | 69 | 68 | 69 | 153 |
| Alaudidae (Larks) | <i>Mirafra africana</i> (Rufous-naped Lark - 458) | Smith, A., 1836 | <i>M. a. ghanstensis</i> | Roberts, 1932 | 5 | 5 | 4 | 5 | 5 | 5 | 5 |
| Alaudidae (Larks) | <i>Mirafra passerina</i> (Monotonous Lark - 457) | Gyldenstolpe, 1926 | monotypic | NA | 8 | 8 | 8 | 7 | 7 | 7 | 8 |
| Alaudidae (Larks) | <i>Pinarocorys nigricans</i> (Dusky Lark - 464) | Sundevall, 1850 | <i>P. n. occidentis</i> | Clancey, 1968 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Alaudidae (Larks) | <i>Spizocorys starki</i> (Stark's Lark - 492) | Shelley, 1902 | monotypic | NA | 563 | 547 | 533 | 188 | 193 | 195 | 533 |
| Cisticolidae (Cisticolas and Allies) | <i>Calamanastes fasciolatus</i> (Barred Wren-Warbler - 614) | Smith, A., 1847 | <i>C. f. fasciolatus</i> | Smith, A., 1847 | 71 | 70 | 69 | 66 | 66 | 66 | 68 |
| Cisticolidae (Cisticolas and Allies) | <i>Camaroptera brevicaudata</i> (Grey-backed Camaroptera - 628) | Cretzschmar, 1830 | <i>C. b. intercalata</i> | White, CMN, 1960 | 12 | 12 | 12 | 7 | 8 | 11 | 12 |
| Cisticolidae (Cisticolas and Allies) | <i>Camaroptera brevicaudata</i> (Grey-backed Camaroptera - 628) | Cretzschmar, 1830 | <i>C. b. sharpei</i> | Zedlitz, 1911 | 62 | 61 | 61 | 56 | 57 | 57 | 62 |
| Cisticolidae (Cisticolas and Allies) | <i>Cisticola aridulus</i> (Desert Cisticola - 630) | Witherby, 1900 | <i>C. a. eremicus</i> | Clancey, 1984 | 11 | 11 | 11 | 11 | 11 | 11 | 9 |
| Cisticolidae (Cisticolas and Allies) | <i>Cisticola aridulus</i> (Desert Cisticola - 630) | Witherby, 1900 | <i>C. a. kalahari</i> | Ogilvie-Grant, 1910 | 12 | 12 | 10 | 12 | 12 | 12 | 12 |
| Cisticolidae (Cisticolas and Allies) | <i>Cisticola chiniana</i> (Rattling Cisticola - 642) | Smith, A., 1843 | <i>C. c. frater</i> | Reichenow, 1916 | 43 | 43 | 39 | 35 | 35 | 35 | 42 |
| Cisticolidae (Cisticolas and Allies) | <i>Cisticola juncidis</i> (Zitling Cisticola - 629) | Rafinesque, 1810 | <i>C. j. terrestris</i> | Smith, A., 1842 | 3 | 3 | 3 | 3 | 3 | 3 | 2 |
| Cisticolidae (Cisticolas and Allies) | <i>Cisticola rufilatus</i> (Tinkling Cisticola - 641) | Hartlaub, 1870 | <i>C. r. rufilatus</i> | Hartlaub, 1870 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Cisticolidae (Cisticolas and Allies) | <i>Eremomela icteropygia</i> (Yellow-bellied Eremomela - 600) | Lafrésnay, 1839 | <i>E. i. icteropygia</i> | Lafrésnay, 1839 | 34 | 34 | 34 | 29 | 30 | 30 | 32 |
| Cisticolidae (Cisticolas and Allies) | <i>Eremomela icteropygia</i> (Yellow-bellied Eremomela - 600) | Lafrésnay, 1839 | <i>E. i. sharpei</i> | Reichenow, 1905 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Cisticolidae (Cisticolas and Allies) | <i>Eremomela usticollis</i> (Burnt-necked Eremomela - 601) | Sundevall, 1850 | <i>E. u. baumgarthi</i> | Pearson, 2006 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| Cisticolidae (Cisticolas and Allies) | <i>Malcorus pectoralis</i> (Rufous-eared Warbler - 619) | Smith, A., 1829 | <i>M. p. etoshiae</i> | Winterbottom, 1965 | 3 | 3 | 1 | 3 | 3 | 3 | 3 |
| Cisticolidae (Cisticolas and Allies) | <i>Prinia flavicans</i> (Black-chested Prinia - 650) | Vieillot, 1821 | <i>P. f. flavicans</i> | Vieillot, 1821 | 73 | 68 | 64 | 58 | 59 | 59 | 71 |
| Cisticolidae (Cisticolas and Allies) | <i>Prinia flavicans</i> (Black-chested Prinia - 650) | Vieillot, 1821 | <i>P. f. rubilosa</i> | Clancey, 1957 | 100 | 96 | 94 | 81 | 81 | 81 | 96 |
| Cisticolidae (Cisticolas and Allies) | <i>Prinia subflava</i> (Tawny-flanked Prinia - 649) | Gmelin, JF, 1789 | <i>P. s. bechuanae</i> | Macdonald, 1941 | 10 | 10 | 8 | 10 | 10 | 10 | 10 |
| Dicruridae (Drongos) | <i>Dicrurus adsimilis</i> (Fork-tailed Drongo - 517) | Bechstein, 1794 | <i>D. a. apivorus</i> | Clancey, 1976 | 50 | 50 | 49 | 45 | 46 | 46 | 50 |
| Emberizidae (Buntings) | <i>Emberiza capensis</i> (Cape Bunting - 873) | Linnaeus, 1766 | <i>E. c. bradfieldi</i> | Roberts, 1928 | 100 | 100 | 99 | 83 | 83 | 83 | 97 |
| Emberizidae (Buntings) | <i>Emberiza flaviventris</i> (Golden-breasted Bunting - 874) | Stephens, 1815 | <i>E. f. princeps</i> | Clancey & Winterbottom, 1960 | 298 | 283 | 204 | 127 | 127 | 127 | 293 |
| Emberizidae (Buntings) | <i>Emberiza impetuans</i> (Lark-like Bunting - 871) | Smith, A., 1836 | <i>E. i. impetuans</i> | Smith, A., 1836 | 599 | 492 | 446 | 115 | 123 | 125 | 565 |
| Emberizidae (Buntings) | <i>Emberiza tahapisi</i> (Cinnamon-breasted Bunting - 872) | Smith, A., 1836 | <i>E. t. nivenorum</i> | Winterbottom, 1965 | 60 | 59 | 58 | 47 | 47 | 47 | 58 |
| Estrildidae (Waxbills, Munias and Allies) | <i>Amadina erythrocephala</i> (Red-headed Finch - 820) | Linnaeus, 1758 | <i>A. e. dissita</i> | Clancey, 1958 | 221 | 192 | 187 | 46 | 46 | 46 | 212 |



| Family | Species | Authority_spp | Subspecies | Authority_spp | Record Count | Wing | Tail | Tarsus | Culmen | Head | Mass |
|---|--|-------------------------|-----------------------------|---------------------------|--------------|------|------|--------|--------|------|------|
| Estrildidae (Waxbills, Munias and Allies) | <i>Amadina erythrocephala</i> (Red-headed Finch - 820) | Linnaeus, 1758 | <i>A. e. erythrocephala</i> | Linnaeus, 1758 | 165 | 160 | 147 | 55 | 66 | 66 | 160 |
| Estrildidae (Waxbills, Munias and Allies) | <i>Brunhilda erythronotos</i> (Black-faced Waxbill - 841) | Viellot, 1817 | <i>B. e. erythronotos</i> | Payne, 2010 | 240 | 219 | 195 | 87 | 90 | 89 | 229 |
| Estrildidae (Waxbills, Munias and Allies) | <i>Estrilda astrild</i> (Common Waxbill - 843) | Linnaeus, 1758 | <i>E. a. damarensis</i> | Reichenow, 1902 | 543 | 374 | 291 | 7 | 7 | 10 | 534 |
| Estrildidae (Waxbills, Munias and Allies) | <i>Estrilda astrild</i> (Common Waxbill - 843) | Linnaeus, 1758 | <i>E. a. ngamiensis</i> | Roberts, 1932 | 4 | 4 | 4 | 0 | 1 | 1 | 4 |
| Estrildidae (Waxbills, Munias and Allies) | <i>Granatina granatina</i> (Violet-eared Waxbill - 840) | Linnaeus, 1766 | monotypic | NA | 504 | 391 | 262 | 52 | 54 | 55 | 499 |
| Estrildidae (Waxbills, Munias and Allies) | <i>Lagonosticta nitidula</i> (Brown Firefinch - 836) | Hartlaub, 1886 | monotypic | NA | 34 | 34 | 12 | 5 | 5 | 5 | 33 |
| Estrildidae (Waxbills, Munias and Allies) | <i>Lagonosticta rhodopareia</i> (Jameson's Firefinch - 835) | Heuglin, 1868 | <i>L. r. jamesoni</i> | Shelley, 1882 | 10 | 11 | 9 | 9 | 9 | 9 | 11 |
| Estrildidae (Waxbills, Munias and Allies) | <i>Lagonosticta senegalae</i> (Red-billed Firefinch - 837) | Linnaeus, 1766 | <i>L. s. rendalli</i> | Hartert, 1898 | 35 | 35 | 32 | 24 | 23 | 24 | 35 |
| Estrildidae (Waxbills, Munias and Allies) | <i>Oryzospiza atricollis</i> (Quailfinch - 844) | Viellot, 1817 | <i>O. a. bradfieldi</i> | Roberts, 1929 | 23 | 8 | 8 | 0 | 0 | 0 | 23 |
| Estrildidae (Waxbills, Munias and Allies) | <i>Pylilia melba</i> (Green-winged Pylilia - 830) | Linnaeus, 1758 | <i>P. m. melba</i> | Linnaeus, 1758 | 294 | 277 | 246 | 82 | 88 | 87 | 286 |
| Estrildidae (Waxbills, Munias and Allies) | <i>Spermestes cucullata</i> (Bronze Mannikin - 823) | Swainson, 1837 | <i>S. c. scutata</i> | Heuglin, 1863 | 22 | 22 | 17 | 8 | 8 | 8 | 22 |
| Estrildidae (Waxbills, Munias and Allies) | <i>Uraeginthus argoleus</i> (Blue Waxbill - 839) | Linnaeus, 1758 | <i>U. a. argoleus</i> | Linnaeus, 1758 | 216 | 192 | 139 | 31 | 36 | 37 | 206 |
| Fringillidae (Finches, Euphonias) | <i>Crithagra albogularis</i> (White-throated Canary - 865) | Smith, A., 1833 | <i>C. a. sordahlae</i> | Friedmann, 1932 | 2 | 2 | 2 | 1 | 1 | 1 | 1 |
| Fringillidae (Finches, Euphonias) | <i>Crithagra albogularis</i> (White-throated Canary - 865) | Smith, A., 1833 | mixed ssp | NA | 814 | 734 | 674 | 211 | 227 | 231 | 767 |
| Fringillidae (Finches, Euphonias) | <i>Crithagra atrogularis</i> (Black-throated Canary - 860) | Smith, A., 1836 | <i>C. a. deserti</i> | Reichenow, 1918 | 74 | 74 | 71 | 54 | 55 | 54 | 73 |
| Fringillidae (Finches, Euphonias) | <i>Crithagra atrogularis</i> (Black-throated Canary - 860) | Smith, A., 1836 | <i>C. a. seridesseri</i> | Roberts, 1932 | 152 | 146 | 142 | 80 | 72 | 81 | 148 |
| Fringillidae (Finches, Euphonias) | <i>Crithagra flavieritris</i> (Yellow Canary - 866) | Gmelin, JF, 1789 | <i>C. f. damarensis</i> | Roberts, 1922 | 133 | 128 | 124 | 78 | 76 | 75 | 130 |
| Fringillidae (Finches, Euphonias) | <i>Serinus leucolaema</i> (Damara Canary - 4102) | Boddaert, 1783 | <i>S. a. leucolaema</i> | Sharpe, 1903 | 7 | 7 | 7 | 6 | 5 | 6 | 6 |
| Hirundinidae (Swallows, Martins) | <i>Cecropis cucullata</i> (Greater Striped Swallow - 502) | Linnaeus, 1758 | monotypic | NA | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Hirundinidae (Swallows, Martins) | <i>Hirundo rustica</i> (Barn Swallow - 493) | Linnaeus, 1758 | <i>H. r. rustica</i> | Linnaeus, 1758 | 26 | 23 | 9 | 2 | 3 | 2 | 25 |
| Hirundinidae (Swallows, Martins) | <i>Phyonoprogne fuligula</i> (Rock Martin - 506) | Lichtenstein, MHK, 1842 | <i>P. f. anderssoni</i> | Sharpe & Wyatt, 1887 | 45 | 45 | 44 | 19 | 26 | 26 | 43 |
| Hirundinidae (Swallows, Martins) | <i>Phyonoprogne fuligula</i> (Rock Martin - 506) | Lichtenstein, MHK, 1842 | <i>P. f. fuligula</i> | Lichtenstein, MHK, 1842 | 3 | 3 | 3 | 2 | 2 | 2 | 3 |
| Laniidae (Shrikes) | <i>Eurocephalus anguliformis</i> (Southern White-crowned Shrike - 730) | Smith, A., 1836 | <i>E. a. anguliformis</i> | Smith, A., 1836 | 18 | 19 | 19 | 19 | 19 | 19 | 19 |
| Laniidae (Shrikes) | <i>Lanius collaris</i> (Southern Fiscal - 707) | Linnaeus, 1766 | <i>L. c. aridcolus</i> | Clancey, 1955 | 123 | 123 | 118 | 106 | 113 | 113 | 118 |
| Laniidae (Shrikes) | <i>Lanius collurio</i> (Red-backed Shrike - 708) | Linnaeus, 1758 | mixed ssp | NA | 50 | 50 | 47 | 44 | 42 | 46 | 49 |
| Laniidae (Shrikes) | <i>Lanius minor</i> (Lesser Grey Shrike - 706) | Gmelin, JF, 1788 | monotypic | NA | 44 | 44 | 41 | 43 | 43 | 43 | 42 |
| Leiotherichidae (Laughingthrushes and Allies) | <i>Turtooides bicolor</i> (Southern Pied Babbler - 536) | Jardine, 1831 | monotypic | NA | 21 | 21 | 19 | 21 | 21 | 21 | 21 |
| Leiotherichidae (Laughingthrushes and Allies) | <i>Turtooides gymnogynys</i> (Bare-cheeked Babbler - 537) | Hartlaub, 1865 | <i>T. g. kaokensis</i> | Roberts, 1937 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Leiotherichidae (Laughingthrushes and Allies) | <i>Turtooides hartlaubii</i> (Hartlaub's Babbler - 535) | Barboza du Bocage, 1868 | mixed ssp | NA | 8 | 8 | 8 | 5 | 6 | 6 | 8 |
| Leiotherichidae (Laughingthrushes and Allies) | <i>Turtooides hartlaubii</i> (Hartlaub's Babbler - 535) | Barboza du Bocage, 1868 | <i>T. h. griseoquaratus</i> | Clancey, 1974 | 6 | 6 | 6 | 6 | 6 | 6 | 5 |
| Leiotherichidae (Laughingthrushes and Allies) | <i>Turtooides hartlaubii</i> (Hartlaub's Babbler - 535) | Barboza du Bocage, 1868 | <i>T. h. hartlaubii</i> | Barboza du Bocage, 1868 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Leiotherichidae (Laughingthrushes and Allies) | <i>Turtooides jardineii</i> (Arrow-marked Babbler - 533) | Smith, A., 1836 | <i>T. j. famalakanei</i> | Meyer de Schauensee, 1932 | 13 | 13 | 12 | 13 | 13 | 13 | 11 |
| Leiotherichidae (Laughingthrushes and Allies) | <i>Turtooides melanops</i> (Black-faced Babbler - 534) | Hartlaub, 1867 | <i>T. m. melanops</i> | Hartlaub, 1867 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Leiotherichidae (Laughingthrushes and Allies) | <i>Turtooides melanops</i> (Black-faced Babbler - 534) | Hartlaub, 1867 | <i>T. m. querulus</i> | Clancey, 1979 | 1 | 1 | 1 | 1 | 1 | 1 | 0 |
| Macrosphenidae (Crombeas, African Warblers) | <i>Sylvietta rufescens</i> (Long-billed Crombec - 621) | Viellot, 1817 | <i>S. r. flecki</i> | Reichenow, 1900 | 7 | 7 | 5 | 2 | 2 | 3 | 7 |
| Macrosphenidae (Crombeas, African Warblers) | <i>Sylvietta rufescens</i> (Long-billed Crombec - 621) | Viellot, 1817 | <i>S. r. ochrocarra</i> | Oberholser, 1905 | 34 | 34 | 33 | 32 | 32 | 32 | 34 |
| Malacoconidae (Bushshrikes) | <i>Dryoscopus cubile</i> (Black-backed Puffback - 712) | Latham, 1801 | <i>D. c. okavangoensis</i> | Roberts, 1932 | 6 | 5 | 5 | 5 | 5 | 5 | 5 |
| Malacoconidae (Bushshrikes) | <i>Laniarius major</i> (Tropical Boubou - 977) | Hartlaub, 1848 | <i>L. a. mossambicus</i> | Fischer & Reichenow, 1880 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Malacoconidae (Bushshrikes) | <i>Laniarius atrococcineus</i> (Crimson-breasted Shrike - 711) | Burchell, 1822 | monotypic | NA | 69 | 69 | 67 | 67 | 69 | 69 | 67 |



| Family | Species | Authority_spp | Subspecies | Authority_spp | Record Count | Wing | Tail | Tarsus | Culmen | Head | Mass |
|---|---|----------------------------|------------------------------|-------------------------|--------------|------|------|--------|--------|------|------|
| Malaconotidae (Bushshrikes) | <i>Laniarius bicolor</i> (Swamp Boubou - 710) | Hartlaub, 1857 | <i>L. b. sticturus</i> | Hartlaub & Finsch, 1870 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| Malaconotidae (Bushshrikes) | <i>Nilaus afer</i> (Brubru - 731) | Latham, 1801 | <i>N. a. brubru</i> | Latham, 1801 | 8 | 8 | 7 | 7 | 8 | 8 | 8 |
| Malaconotidae (Bushshrikes) | <i>Tchagra australis</i> (Brown-crowned Tchagra - 714) | Smith, A., 1836 | <i>T. a. damarensis</i> | Reichenow, 1915 | 21 | 21 | 19 | 21 | 21 | 21 | 20 |
| Malaconotidae (Bushshrikes) | <i>Tchagra australis</i> (Brown-crowned Tchagra - 714) | Smith, A., 1836 | <i>T. a. rhodesiensis</i> | Roberts, 1932 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Malaconotidae (Bushshrikes) | <i>Teophrastus zeylonus</i> (Bokmakierie - 722) | Linnaeus, 1766 | <i>T. z. thermophilus</i> | Clancey, 1960 | 42 | 42 | 39 | 40 | 41 | 41 | 41 |
| Monarchidae (Monarchs) | <i>Terpsiphone viridis</i> (African Paradise Flycatcher - 682) | Müller, PLS, 1776 | <i>T. v. plumbeiceps</i> | Reichenow, 1898 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| Motacillidae (Wagtails, Pipits) | <i>Anthus ornamomeus</i> (African Pipit - 692) | Rüppell, 1840 | <i>A. a. grotei</i> | Niethammer, 1957 | 14 | 14 | 13 | 14 | 14 | 14 | 14 |
| Motacillidae (Wagtails, Pipits) | <i>Anthus leucopygus</i> (Plain-backed Pipit - 694) | Viellot, 1818 | <i>A. l. tephrodorsus</i> | Clancey, 1967 | 2 | 2 | 1 | 2 | 2 | 2 | 2 |
| Motacillidae (Wagtails, Pipits) | <i>Anthus nicholsoni</i> (Nicholson's Pipit - 693) | Sharpe, 1884 | <i>A. n. leucocoraxpedon</i> | Reichenow, 1915 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Motacillidae (Wagtails, Pipits) | <i>Anthus trivialis</i> (Tree Pipit - 698) | Linnaeus, 1758 | <i>A. t. trivialis</i> | Linnaeus, 1758 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Motacillidae (Wagtails, Pipits) | <i>Anthus vaalensis</i> (Buffy Pipit - 695) | Shelley, 1900 | <i>A. v. exasperatus</i> | Winterbottom, 1963 | 39 | 39 | 37 | 38 | 36 | 38 | 39 |
| Motacillidae (Wagtails, Pipits) | <i>Motacilla capensis</i> (Cape Wagtail - 686) | Linnaeus, 1766 | <i>M. c. capensis</i> | Linnaeus, 1766 | 60 | 60 | 56 | 22 | 23 | 23 | 58 |
| Muscicapidae (Chats, Old World Flycatchers) | <i>Cercotrichas leucophrys</i> (White-browed Scrub Robin - 588) | Viellot, 1817 | <i>C. l. zambesiana</i> | Sharpe, 1882 | 10 | 10 | 9 | 10 | 10 | 10 | 10 |
| Muscicapidae (Chats, Old World Flycatchers) | <i>Cercotrichas paena</i> (Kalahari Scrub Robin - 586) | Smith, A., 1836 | <i>C. p. paena</i> | Smith, A., 1836 | 158 | 158 | 148 | 142 | 142 | 143 | 156 |
| Muscicapidae (Chats, Old World Flycatchers) | <i>Cossypha heuglini</i> (White-browed Robin-Chat - 580) | Hartlaub, 1866 | <i>C. h. heuglini</i> | Hartlaub, 1866 | 17 | 17 | 14 | 10 | 10 | 10 | 17 |
| Muscicapidae (Chats, Old World Flycatchers) | <i>Emarginata schlegelii</i> (Karoo Chat - 566) | Wahlberg, 1855 | <i>E. s. schlegelii</i> | Wahlberg, 1855 | 197 | 195 | 192 | 193 | 193 | 193 | 194 |
| Muscicapidae (Chats, Old World Flycatchers) | <i>Emarginata tractac</i> (Traetac Chat - 571) | Wilkes, 1817 | <i>E. t. albicans</i> | Wahlberg, 1855 | 64 | 64 | 62 | 63 | 63 | 63 | 63 |
| Muscicapidae (Chats, Old World Flycatchers) | <i>Melaenomis infuscatus</i> (Chat Flycatcher - 663) | Smith, A., 1839 | <i>M. i. benguelensis</i> | Sousa, 1886 | 154 | 154 | 151 | 151 | 151 | 150 | 150 |
| Muscicapidae (Chats, Old World Flycatchers) | <i>Melaenomis mariquensis</i> (Marico Flycatcher - 661) | Smith, A., 1847 | <i>M. m. acaciae</i> | Irwin, 1957 | 194 | 191 | 181 | 168 | 167 | 168 | 192 |
| Muscicapidae (Chats, Old World Flycatchers) | <i>Melaenomis pammelaena</i> (Southern Black Flycatcher - 664) | Stanley, 1814 | <i>M. p. poliozona</i> | Lawson, 1964 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Muscicapidae (Chats, Old World Flycatchers) | <i>Monticola brevipes</i> (Short-toed Rock Thrush - 551) | Waterhouse, 1838 | <i>M. b. brevipes</i> | Waterhouse, 1838 | 10 | 10 | 10 | 9 | 9 | 9 | 10 |
| Muscicapidae (Chats, Old World Flycatchers) | <i>Muscicapa caerulescens</i> (Ashy Flycatcher - 656) | Hartlaub, 1865 | <i>M. c. impavida</i> | Clancey, 1957 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Muscicapidae (Chats, Old World Flycatchers) | <i>Muscicapa striata</i> (Spotted Flycatcher - 654) | Pallas, 1764 | mixed ssp | NA | 27 | 27 | 26 | 27 | 27 | 27 | 26 |
| Muscicapidae (Chats, Old World Flycatchers) | <i>Myrmecocichia formicivora</i> (Ant-eating Chat - 575) | Wilkes, 1817 | <i>M. f. minor</i> | Roberts, 1932 | 51 | 51 | 51 | 50 | 50 | 50 | 49 |
| Muscicapidae (Chats, Old World Flycatchers) | <i>Myrmecocichia monticola</i> (Mountain Wheatear - 564) | Viellot, 1818 | <i>M. m. atronoi</i> | Tristram, 1869 | 161 | 161 | 156 | 146 | 147 | 149 | 151 |
| Muscicapidae (Chats, Old World Flycatchers) | <i>Namibornis herero</i> (Herero Chat - 660) | Meyer de Schauensee, 1931 | monotypic | NA | 12 | 13 | 12 | 13 | 13 | 13 | 13 |
| Muscicapidae (Chats, Old World Flycatchers) | <i>Oenanthe familiaris</i> (Familiar Chat - 570) | Wilkes, 1817 | <i>O. f. galtoni</i> | Strickland, 1853 | 42 | 42 | 41 | 36 | 36 | 36 | 38 |
| Muscicapidae (Chats, Old World Flycatchers) | <i>Oenanthe pileata</i> (Capped Wheatear - 568) | Gmelin, JF, 1789 | <i>O. p. neseri</i> | Macdonald, 1952 | 89 | 89 | 72 | 87 | 87 | 88 | 88 |
| Muscicapidae (Chats, Old World Flycatchers) | <i>Saxicola torquatus</i> (African Stonechat - 576) | Linnaeus, 1766 | <i>S. t. stonei</i> | Bowen, 1931 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Nectariniidae (Sunbirds) | <i>Chalcomitra amethystina</i> (Amethyst Sunbird - 772) | Shaw, 1812 | <i>C. a. kirkii</i> | Shelley, 1876 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Nectariniidae (Sunbirds) | <i>Chalcomitra senegalensis</i> (Scarlet-chested Sunbird - 774) | Linnaeus, 1766 | <i>C. s. saturator</i> | Reichenow, 1891 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Nectariniidae (Sunbirds) | <i>Cinnyris cupreus</i> (Copper Sunbird - 754) | Shaw, 1812 | <i>C. c. chaldeus</i> | Hartlaub, 1862 | 28 | 28 | 28 | 26 | 28 | 28 | 28 |
| Nectariniidae (Sunbirds) | <i>Cinnyris fuscus</i> (Dusky Sunbird - 764) | Viellot, 1819 | <i>C. f. fuscus</i> | Viellot, 1819 | 383 | 377 | 376 | 313 | 322 | 322 | 376 |
| Nectariniidae (Sunbirds) | <i>Cinnyris mariquensis</i> (Marico Sunbird - 755) | Smith, A., 1836 | <i>C. m. mariquensis</i> | Smith, A., 1836 | 39 | 39 | 38 | 34 | 36 | 38 | 39 |
| Nectariniidae (Sunbirds) | <i>Cinnyris talata</i> (White-bellied Sunbird - 763) | Smith, A., 1836 | monotypic | NA | 11 | 11 | 11 | 10 | 11 | 11 | 11 |
| Nectariniidae (Sunbirds) | <i>Hedydipna collaris</i> (Collared Sunbird - 771) | Viellot, 1819 | <i>H. c. zambesiana</i> | Shelley, 1876 | 4 | 4 | 4 | 2 | 4 | 4 | 4 |
| Oriolidae (Figbirds, Orioles, Tumbagra) | <i>Oriolus oriolus</i> (Eurasian Golden Oriole - 519) | Linnaeus, 1758 | <i>O. o. oriolus</i> | Linnaeus, 1758 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| Paridae (Tits, Chickadees) | <i>Melaniparus carpi</i> (Carp's Tit - 528) | Macdonald & Hall, BP, 1957 | monotypic | NA | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Paridae (Tits, Chickadees) | <i>Melaniparus cinerascens</i> (Ashy Tit - 514) | Viellot, 1818 | <i>M. c. cinerascens</i> | Viellot, 1818 | 27 | 27 | 26 | 24 | 24 | 25 | 27 |

| Family | Species | Authority_spp | Subspecies | Authority_ssp | Record Count | Wing | Tail | Tarsus | Culmen | Head | Mass |
|--|--|-------------------------|------------|-------------------------|--------------|------|------|--------|--------|------|------|
| Paridae (Tits, Chickadees) | <i>Melanerpes niger</i> (Southern Black Tit - 527) | Vieillot, 1818 | | Shelley, 1892 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Passeridae (Old World Sparrows, Snowfinches) | <i>Passer diffusus</i> (Southern Grey-headed Sparrow - 4142) | Smith, A., 1836 | | Smith, A., 1836 | 628 | 500 | 473 | 89 | 92 | 94 | 607 |
| Passeridae (Old World Sparrows, Snowfinches) | <i>Passer griseus</i> (Northern Grey-headed Sparrow - 3852) | Vieillot, 1817 | | Reichenow, 1904 | 8 | 9 | 9 | 9 | 9 | 9 | 9 |
| Passeridae (Old World Sparrows, Snowfinches) | <i>Passer melanurus</i> (Cape Sparrow - 786) | Müller, P.L.S., 1776 | | Reichenow, 1902 | 1740 | 1377 | 1087 | 110 | 155 | 177 | 1618 |
| Passeridae (Old World Sparrows, Snowfinches) | <i>Passer motitensis</i> (Great Sparrow - 785) | Smith, A., 1836 | | Smith, A., 1836 | 252 | 250 | 245 | 219 | 218 | 219 | 249 |
| Phylloscopidae (Leaf Warblers and Allies) | <i>Phylloscopus trochilus</i> (Willow Warbler - 599) | Linnaeus, 1758 | | NA | 31 | 31 | 30 | 27 | 28 | 29 | 31 |
| Platysteiridae (Wattle-eyes, Batises) | <i>Batis pririt</i> (Pirrit Batis - 674) | Vieillot, 1818 | | Wahlberg, 1855 | 47 | 47 | 46 | 47 | 47 | 47 | 47 |
| Platysteiridae (Wattle-eyes, Batises) | <i>Lanioturdus torquatus</i> (White-tailed Shrike - 726) | Waterhouse, 1838 | | NA | 12 | 12 | 11 | 12 | 12 | 12 | 12 |
| Ploceidae (Weavers, Widowbirds) | <i>Amblyospiza albifrons</i> (Thick-billed Weaver - 804) | Vigors, 1831 | | Roberts, 1932 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Ploceidae (Weavers, Widowbirds) | <i>Bubalornis niger</i> (Red-billed Buffalo Weaver - 779) | Smith, A., 1836 | | Smith, A., 1836 | 89 | 89 | 88 | 72 | 76 | 76 | 88 |
| Ploceidae (Weavers, Widowbirds) | <i>Euplectes afer</i> (Yellow-crowned Bishop - 812) | Gmelin, J.F., 1789 | | Smith, A., 1836 | 109 | 107 | 107 | 87 | 87 | 87 | 108 |
| Ploceidae (Weavers, Widowbirds) | <i>Euplectes orix</i> (Southern Red Bishop - 808) | Linnaeus, 1758 | | NA | 43 | 43 | 39 | 14 | 14 | 15 | 38 |
| Ploceidae (Weavers, Widowbirds) | <i>Philetairus socius</i> (Sociable Weaver - 783) | Latham, 1790 | | NA | 166 | 165 | 147 | 30 | 31 | 30 | 148 |
| Ploceidae (Weavers, Widowbirds) | <i>Plocepasser mahali</i> (White-browed Sparrow-Weaver - 780) | Smith, A., 1836 | | Hartert, 1907 | 202 | 183 | 180 | 94 | 92 | 94 | 201 |
| Ploceidae (Weavers, Widowbirds) | <i>Plocepasser mahali</i> (White-browed Sparrow-Weaver - 780) | Smith, A., 1836 | | Smith, A., 1836 | 95 | 94 | 86 | 54 | 58 | 57 | 92 |
| Ploceidae (Weavers, Widowbirds) | <i>Ploceus cucullatus</i> (Village Weaver - 797) | Müller, P.L.S., 1776 | | Layard, E.L., 1867 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Ploceidae (Weavers, Widowbirds) | <i>Ploceus intermedius</i> (Lesser Masked Weaver - 792) | Rüppell, 1845 | | Peters, W., 1868 | 87 | 87 | 86 | 65 | 65 | 65 | 86 |
| Ploceidae (Weavers, Widowbirds) | <i>Ploceus ocularis</i> (Spectacled Weaver - 791) | Smith, A., 1828 | | Hartlaub, 1881 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Ploceidae (Weavers, Widowbirds) | <i>Ploceus rubiginosus</i> (Chestnut Weaver - 796) | Rüppell, 1840 | | Reichenow, 1905 | 207 | 195 | 194 | 102 | 115 | 115 | 203 |
| Ploceidae (Weavers, Widowbirds) | <i>Ploceus velatus</i> (Southern Masked Weaver - 803) | Vieillot, 1819 | | Clancey, 1959 | 1175 | 1156 | 787 | 193 | 193 | 200 | 853 |
| Ploceidae (Weavers, Widowbirds) | <i>Ploceus xanthops</i> (Holub's Golden Weaver - 801) | Hartlaub, 1862 | | NA | 8 | 8 | 8 | 6 | 6 | 6 | 7 |
| Ploceidae (Weavers, Widowbirds) | <i>Ploceus xanthopterus</i> (Southern Brown-throated Weaver - 802) | Hartlaub & Finsch, 1870 | | Cabanis, 1884 | 61 | 61 | 54 | 10 | 12 | 12 | 59 |
| Ploceidae (Weavers, Widowbirds) | <i>Quelea quelea</i> (Red-billed Quelea - 805) | Linnaeus, 1758 | | Smith, A., 1836 | 229 | 136 | 127 | 21 | 20 | 21 | 224 |
| Ploceidae (Weavers, Widowbirds) | <i>Sporopipes squamifrons</i> (Scaly-feathered Weaver - 789) | Smith, A., 1836 | | Smith, A., 1836 | 524 | 412 | 348 | 41 | 42 | 41 | 464 |
| Ploceidae (Weavers, Widowbirds) | <i>Chlorocichla flaviventris</i> (Yellow-bellied Greenbul - 550) | Smith, A., 1834 | | Smith, A., 1834 | 26 | 26 | 22 | 26 | 26 | 26 | 26 |
| Pycnonotidae (Bulbuls) | <i>Phyllostrephus terrestris</i> (Terrestrial Brownbul - 544) | Swainson, 1837 | | Roberts, 1917 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| Pycnonotidae (Bulbuls) | <i>Pycnonotus nigricans</i> (African Red-eyed Bulbul - 544) | Vieillot, 1818 | | Vieillot, 1818 | 635 | 609 | 562 | 190 | 191 | 195 | 607 |
| Pycnonotidae (Bulbuls) | <i>Anthoscopus minutus</i> (Cape Penduline Tit - 531) | Shaw, 1812 | | Reichenow, 1905 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| Remizidae (Penduline Tits) | <i>Cinnyricinclus leucogaster</i> (Violet-backed Starling - 736) | Boddaert, 1793 | | Finsch & Hartlaub, 1870 | 93 | 93 | 93 | 85 | 85 | 85 | 92 |
| Sturnidae (Starlings, Rhabdomis) | <i>Cretophora cinerea</i> (Wattled Starling - 735) | Meuschen, 1787 | | NA | 61 | 61 | 59 | 59 | 58 | 59 | 61 |
| Sturnidae (Starlings, Rhabdomis) | <i>Lamprotornis australis</i> (Burchell's Starling - 743) | Smith, A., 1836 | | NA | 32 | 32 | 28 | 32 | 31 | 32 | 30 |
| Sturnidae (Starlings, Rhabdomis) | <i>Lamprotornis mevesii</i> (Meves's Starling - 742) | Wahlberg, 1856 | | Wahlberg, 1856 | 38 | 38 | 37 | 36 | 37 | 37 | 38 |
| Sturnidae (Starlings, Rhabdomis) | <i>Lamprotornis nitens</i> (Cape Starling - 737) | Linnaeus, 1766 | | NA | 176 | 175 | 171 | 155 | 158 | 157 | 174 |
| Sturnidae (Starlings, Rhabdomis) | <i>Onychognathus nabouroup</i> (Pale-winged Starling - 744) | Daudin, 1800 | | NA | 21 | 20 | 20 | 17 | 16 | 17 | 21 |
| Sylviidae (Sylvid Babblers) | <i>Currucula communis</i> (Common Whitethroat - 594) | Latham, 1787 | | NA | 3 | 3 | 3 | 3 | 2 | 3 | 3 |
| Sylviidae (Sylvid Babblers) | <i>Currucula subcoerulea</i> (Chestnut-vented Warbler - 658) | Vieillot, 1817 | | Reichenow, 1902 | 168 | 167 | 164 | 145 | 150 | 150 | 167 |
| Sylviidae (Sylvid Babblers) | <i>Sylvia borin</i> (Garden Warbler - 595) | Boddaert, 1783 | | Shape, 1877 | 8 | 8 | 7 | 7 | 8 | 8 | 8 |
| Turdidae (Thrushes) | <i>Turdus listrius</i> (Groundscraper Thrush - 557) | Smith, A., 1836 | | NA | 26 | 26 | 24 | 20 | 20 | 20 | 26 |
| Vangidae (Vangas and Allies) | <i>Phonops plumatus</i> (White-crested Helmetshrike - 727) | Shaw, 1809 | | Smith, A., 1836 | 10 | 10 | 9 | 10 | 10 | 10 | 10 |

| Family | Species | Authority_spp | Subspecies | Authority_ssp | Record Count | Wing | Tail | Tarsus | Culmen | Head | Mass |
|---------------------------------|---|----------------------|----------------------------|---------------|--------------|------|------|--------|--------|------|------|
| Viduidae (Indigobirds, Whydahs) | <i>Vidua chalybeata</i> (Village Indigobird - 851) | Müller, P.L.S., 1776 | <i>V. c. okavangoensis</i> | Payne, 1973 | 19 | 19 | 18 | 10 | 10 | 10 | 19 |
| Viduidae (Indigobirds, Whydahs) | <i>Vidua macroura</i> (Pin-tailed Whydah - 846) | Pallas, 1764 | monotypic | NA | 5 | 5 | 5 | 4 | 4 | 4 | 5 |
| Viduidae (Indigobirds, Whydahs) | <i>Vidua paradisaea</i> (Long-tailed Paradise Whydah - 852) | Linnaeus, 1758 | monotypic | NA | 10 | 10 | 9 | 9 | 9 | 9 | 10 |
| Viduidae (Indigobirds, Whydahs) | <i>Vidua regia</i> (Shaft-tailed Whydah - 847) | Linnaeus, 1766 | monotypic | NA | 321 | 291 | 282 | 177 | 177 | 182 | 309 |
| Zosteropidae (White-eyes) | <i>Zosterops pallidus</i> (Orange River White-eye - 1171) | Swainson, 1838 | monotypic | NA | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Zosteropidae (White-eyes) | <i>Zosterops anderssoni</i> (Southern Yellow White-eye - 777) | Shelley, 1892 | <i>Z. a. anderssoni</i> | Shelley, 1892 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |

