



## 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 *Ammomomanopsis grayi*, Rockrunner *Achaeatops 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 Paijmans 2021; Bryson and Paijmans 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 passersines 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

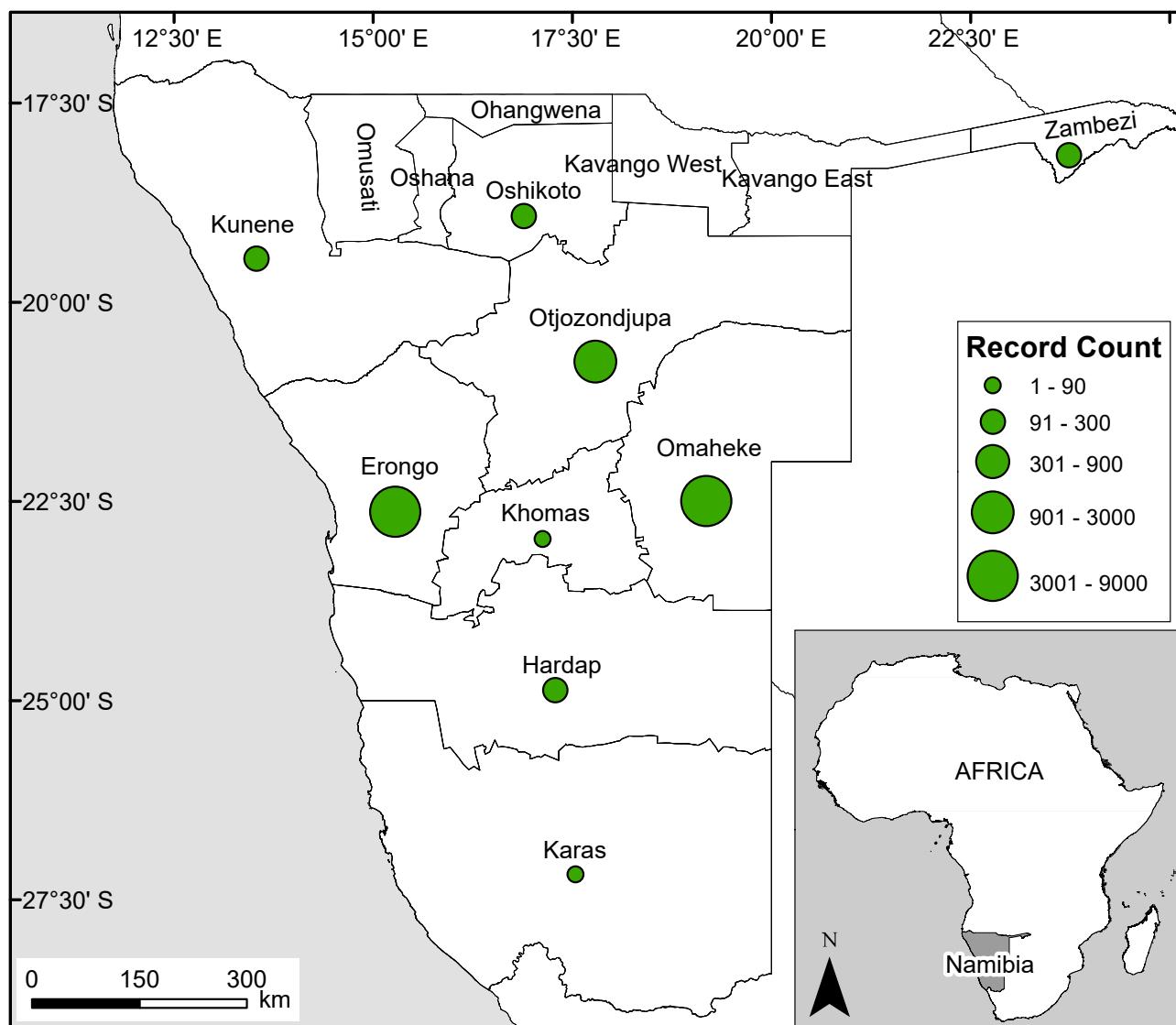


Figure 1. Distribution of the passerine ringing effort across Namibia per region, between 2002 and 2022. Proportional circles depict initial ringing record counts per region and include only adult records with at least one measurement record.

et al. (1997), Fry et al. (2000), Fry and Keith (2004), Hockey et al. (2005), del Hoyo et al. (2016), and Billermann et al. (2020). If needed and if possible, cloacal shape and width of the gap in between the pelvic bones and the existence and size of a brood patch were drawn upon for confirmation (Brown and Franke-Bryson 2016). Birds were classified as either female, male, or as unsexed when the sex was not identified or could not be determined with certainty.

## Measurements

We present data for the individual species and subspecies, divided into female, male, and undescribed sex, and totals thereof. Only initial records were included to limit the impact of multiple same individu-

al records on the overall averages. The values are: sample size, average  $\pm$  SD, minimum and maximum values in the categories of wing, tail, tarsus, culmen, head, and mass, as far as these data were collected. Some species only had a few recorded measurements. If the subspecies or the species in the published data were not represented in Namibia, or only in small numbers, we kept these measurements in the report, even when there was no statistical value (e.g., Nicholson's Pipit *Anthus nicholsoni* and Tree Pipit *Anthus trivialis*).

The measurements were primarily taken by one person (UB), and only a few measurements by two trainees under close supervision. This provided the same methods for all records and minimised the of-

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 alteration 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
Estrildidae (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
Malacoptonidae (Bushshrikes)	8	160	159	151	154	158	158	155
Monarchidae (Monarchs)	1	16	16	16	16	16	16	16
Motacillidae (Magpies, 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, Turnags)	1	7	7	7	7	7	7	7
Paridae (Titss, Chickadees)	3	33	33	32	30	30	31	33
Passeridae (Old World Sparrows, Snowfinches)	4	2628	2136	1814	427	474	499	2483
Phylloscopidae (Leaf 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 Titss)	1	12	12	12	12	12	12	12
Sturnidae (Starlings, Rhabdornis)	6	421	419	408	384	385	387	416
Sylviidae (Sylviad Babblers)	3	179	178	174	155	160	161	178
Turdidae (Thrushes)	1	26	24	20	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		Range
				Mean ± SD (n)	Range	Mean ± SD (n)	Range	Mean ± SD (n)	Range	Mean ± SD (n)	Range	
<i>Acrocephalidae (Reed Warblers and Allies)</i>												
	<i>Acrocephalus arundinaceus</i> (Great Reed Warbler - 603)	mixed ssp	Culmen	19.3 ± 0 (1)	19.3	25.5 ± 0 (1)	25.5	24.1 ± 0 (1)	24.1	23.0 ± 3.25 (3)	19.3 – 25.5	
			Head	42.3 ± 0 (1)	42.3	46.8 ± 0 (1)	46.8	42.9 ± 0 (1)	42.9	44.0 ± 2.44 (3)	42.3 – 46.8	
			Mass	26.4 ± 0 (1)	26.4	30.0 ± 0 (1)	30.0	30.5 ± 0 (1)	30.5	29.0 ± 2.24 (3)	26.4 – 30.5	
			Tail	83.0 ± 0 (1)	83.0	84.0 ± 0 (1)	84.0	77.0 ± 0 (1)	77.0	81.3 ± 3.79 (3)	77.0 – 84.0	
			Tarsus	28.2 ± 0 (1)	28.2	30.0 ± 0 (1)	30.0	28.4 ± 0 (1)	28.4	28.9 ± 0.99 (3)	28.2 – 30.0	
			Wing	83.0 ± 0 (1)	83.0	98.0 ± 0 (1)	98.0	94.0 ± 0 (1)	94.0	91.7 ± 7.77 (3)	83.0 – 98.0	
	<i>Acrocephalus scirpaceus</i> (Common Reed Warbler - 606, 911)											
		<i>A. s. baeticus</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	<b>32.1 ± 0.70 (54)</b>	<b>30.4 – 34.0</b>	<b>32.4 ± 0.69 (33)</b>	<b>30.8 – 33.8</b>	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	<b>50.9 ± 2.56 (81)</b>	<b>41.0 – 56.0</b>	<b>53.4 ± 2.54 (50)</b>	<b>47.0 – 64.0</b>	52.4 ± 2.24 (138)	46.0 – 58.0	52.2 ± 2.55 (269)	41.0 – 64.0	
			Tarsus	<b>22.1 ± 0.71 (54)</b>	<b>20.4 – 23.4</b>	<b>22.6 ± 1.04 (34)</b>	<b>19.2 – 25.2</b>	22.4 ± 0.87 (100)	18.2 – 23.9	22.3 ± 0.87 (188)	18.2 – 25.2	
			Wing	<b>57.2 ± 1.65 (84)</b>	<b>53.0 – 61.0</b>	<b>58.9 ± 1.78 (52)</b>	<b>56.0 – 63.0</b>	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)	20.4	18.9 ± 1.42 (8)	17.0 – 21.0	19.1 ± 1.42 (9)	17.0 – 21.0	19.1 ± 1.42 (9)	17.0 – 21.0	
			Head	35.3 ± 0 (1)	35.3	34.1 ± 1.06 (8)	32.4 – 35.6	34.2 ± 1.07 (9)	32.4 – 35.6			
			Mass	10.3 ± 0 (1)	10.3	10.6 ± 1.22 (8)	9.0 – 12.2	10.6 ± 1.15 (9)	9.0 – 12.2			
			Tail	55.0 ± 0 (1)	55.0	53.6 ± 2.30 (7)	50.0 – 56.0	53.8 ± 2.19 (8)	50.0 – 56.0			
			Tarsus	23.1 ± 0 (1)	23.1	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	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)	17.9	17.6 ± 0 (1)	17.6	17.7 ± 1.77 (2)	15.6 – 18.1	17.3 ± 1.15 (4)	15.6 – 18.1	
			Head	33.2 ± 0 (1)	33.2	33.1 ± 0 (1)	33.1	32.7 ± 0.21 (2)	32.7 – 33.0	33.0 ± 0.22 (4)	32.7 – 33.2	
			Mass	14.0 ± 0 (1)	14.0	11.5 ± 0 (1)	11.5	12.4 ± 1.56 (2)	11.3 – 13.5	12.6 ± 1.37 (4)	11.3 – 14.0	
			Tail	53.0 ± 0 (1)	53.0	51.0 ± 0 (1)	51.0	57.0 ± 0 (1)	57.0	53.7 ± 3.06 (3)	51.0 – 57.0	
			Tarsus	23.5 ± 0 (1)	23.5	22.4 ± 0 (1)	22.4	21.7 ± 0 (1)	21.7	22.5 ± 0.91 (3)	21.7 – 23.5	
			Wing	66.0 ± 0 (1)	66.0	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
<i>Acrocephalus schoenobaenus</i> (Sedge Warbler – 609)											
monotypic	Culmen					15.1 ± 2.66 (3)	12.6 – 17.9	15.1 ± 2.66 (3)	12.6 – 17.9	12.6 – 17.9	
	Head					31.8 ± 0.95 (3)	30.8 – 32.7	31.8 ± 0.95 (3)	30.8 – 32.7	30.8 – 32.7	
	Mass					11.2 ± 1.15 (3)	10.0 – 12.3	11.2 ± 1.15 (3)	10.0 – 12.3	10.0 – 12.3	
	Tail					48.0 ± 3.61 (3)	45.0 – 52.0	48.0 ± 3.61 (3)	45.0 – 52.0	45.0 – 52.0	
	Tarsus					22.2 ± 0.29 (3)	22.0 – 22.5	22.2 ± 0.29 (3)	22.0 – 22.5	22.0 – 22.5	
	Wing					65.7 ± 0.58 (3)	65.0 – 66.0	65.7 ± 0.58 (3)	65.0 – 66.0	65.0 – 66.0	
<i>Hippolais icterina</i> (Icterine Warbler – 596)											
monotypic	Culmen					18.5 ± 1.17 (34)	15.2 – 21.1	18.5 ± 1.08 (41)	15.2 – 21.1	15.2 – 21.1	
	Head					33.1 ± 0.98 (7)	31.4 – 34.4	32.1 – 33.5	0.99 (41)	31.4 – 35.8	
	Mass					14.2 ± 1.95 (7)	12.7 – 17.7	13.2 ± 1.03 (34)	11.2 – 16.6	11.2 – 17.7	
	Tail					53.3 ± 2.58 (6)	49.0 – 57.0	54.6 ± 1.89 (27)	51.0 – 59.0	54.3 ± 2.04 (33)	
	Tarsus					20.6 ± 0.64 (7)	19.5 – 21.3	20.5 ± 0.78 (32)	18.8 – 21.8	20.5 ± 0.75 (39)	
	Wing					75.7 ± 1.80 (7)	72.0 – 77.0	78.3 ± 2.71 (34)	70.0 – 84.0	77.8 ± 2.74 (41)	
Alaudidae (Larks)											
<i>Ammomanopsis grayi</i> (Gray's Lark – 483)											
<i>A. g. grayi</i>	Culmen					16.4 ± 0.78 (2)	15.8 – 16.9	16.9 – 18.1	17.0 ± 0.83 (5)	15.8 – 18.1	
	Head					34.0 ± 0.85 (2)	33.4 – 34.6	34.8 ± 1.22 (3)	33.4 – 35.6	34.5 ± 1.05 (5)	
	Mass					19.9 ± 0.99 (2)	19.2 – 20.6	21.5 ± 0.64 (2)	21.0 – 21.9	20.7 ± 1.12 (4)	
	Tail					48.0 ± 0.2 (2)	48.0 – 48.0	46.0 ± 3.0 (3)	43.0 – 49.0	46.8 ± 2.39 (5)	
	Tarsus					21.0 ± 0.99 (2)	20.3 – 21.7	21.8 ± 0 (3)	21.8 – 21.8	21.5 ± 0.66 (5)	
	Wing					79.5 ± 0.71 (2)	79.0 – 80.0	82.3 ± 1.15 (3)	81.0 – 83.0	81.2 ± 1.79 (5)	
<i>Calendulauda africanoides</i> (Fawn-coloured Lark – 459)											
<i>C. a. harei</i>	Culmen					16.5 ± 0.54 (4)	16.0 – 17.2	17.3 ± 1.15 (12)	14.1 – 18.4	16.7 ± 0 (1)	
	Head					33.4 ± 0.36 (4)	32.9 – 33.7	35.3 ± 0.48 (12)	34.4 – 36.2	34.5 ± 0 (1)	
	Mass					23.4 ± 1.94 (4)	21.2 – 25.7	24.4 ± 1.35 (12)	21.7 – 27.1	25.8 ± 0 (1)	
	Tail					57.5 ± 2.89 (4)	54.0 – 61.0	61.1 ± 2.35 (12)	55.0 – 64.0	62.0 ± 0 (1)	
	Tarsus					24.1 ± 0.98 (4)	22.8 – 25.0	24.2 ± 0.89 (12)	22.8 – 25.5	24.3 ± 0 (1)	
	Wing					85.0 ± 4.16 (4)	80.0 – 90.0	92.3 ± 2.63 (12)	86.0 – 96.0	95.0 ± 0 (1)	
<i>Calendulauda sabota</i> (Sabota Lark – 460)											
mixed ssp	Culmen					19.4 ± 1.58 (73)	17.4 – 29.8	19.8 ± 1.54 (55)	17.3 – 29.3	19.0 ± 1.22 (53)	16.0 – 29.6
	Head					38.1 ± 1.32 (73)	33.7 – 41.3	38.4 ± 1.70 (55)	30.6 – 40.1	38.3 ± 1.28 (55)	34.0 – 40.5
Measurements of passerine species in Namibia											
										19.4 ± 1.50 (181)	16.0 – 29.8
										38.2 ± 1.43 (183)	30.6 – 41.3



Family	Species	Subspecies	Measurement	Female		Male		Unknown		Total	
				Mean ± SD (n)	Range	Mean ± SD (n)	Range	Mean ± SD (n)	Range	Mean ± SD (n)	Range
			Mass	25.7 ± 1.93 (74)	16.8 – 30.4	25.7 ± 1.48 (58)	21.2 – 29.7	25.9 ± 1.69 (58)	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 (58)	50.0 – 60.0	53.8 ± 2.78 (58)	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 (58)	84.0 – 95.0	87.8 ± 3.52 (60)	77.0 – 98.0	87.7 ± 3.26 (194)	77.0 – 98.0
<i>Certhilauda subcoronata</i> (Karoo Long-billed Lark – 4127)											
<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 ± 2.82 (25)	42.3 – 49.9	49.7 ± 3.0 (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		
	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		
<i>Chersomanes albofasciata</i> (Spike-heeled Lark – 474)											
<i>C. a. arenaria</i>	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		
	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)											
<i>E. v. damarensis</i>	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		
	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		
<i>Mirafrla africana</i> (Rufous-naped Lark – 458)											
<i>M. a. ghansensis</i>	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		
	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 ± 1.21 (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
<i>Mirafra passerina</i> (Monotonous Lark – 457)											
monotypic	Culmen					17.1	0.89 (7)	16.0	–	18.3	16.0 – 18.3
	Head					33.3	0.43 (7)	32.6	–	33.8	33.3 ± 0.43 (7)
	Mass			26.5 ± 0 (1)		23.8	0.78 (7)	23.0	–	25.3	24.1 ± 1.20 (8)
	Tail			58.0 ± 0 (1)		57.4	2.07 (7)	54.0	–	60.0	57.5 ± 1.93 (8)
	Tarsus					23.1	0.94 (7)	22.1	–	24.9	23.1 ± 0.94 (7)
	Wing			88.0 ± 0 (1)		85.4	± 1.13 (7)	84.0	–	87.0	85.8 ± 1.39 (8)
<i>Pinarocorys nigricans</i> (Dusky Lark – 464)											
<i>P. n. occidentis</i>	Culmen			19.6 ± 0 (1)						19.6	± 0 (1)
	Head			38.7 ± 0 (1)						38.7	± 0 (1)
	Mass			32.7 ± 0 (1)						32.7	± 0 (1)
	Tail			73.0 ± 0 (1)						73.0	± 0 (1)
	Tarsus			28.3 ± 0 (1)						28.3	± 0 (1)
	Wing			112.0 ± 0 (1)						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)
	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	–
	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	–
	Tail	46.8 ± 2.77 (151)	40.0 –	59.0	48.0 ± 2.99 (38)	42.0	–	54.0	47.4 ± 2.71 (344)	41.0	–
	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	–
	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	–
<i>Calamonastes fasciolatus</i> (Barred Wren-Warbler – 614)											
<i>C. f. fasciolatus</i>											
<i>C. b. intercalata</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	–
	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	–
	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	–
	Tail	51.4 ± 3.06 (27)	47.0 –	58.0	55.9 ± 2.56 (34)	49.0	–	64.0	55.6 ± 3.93 (8)	51.0	–
	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	–
	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	–
<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 –
	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 –

Family	Species	Subspecies	Measurement	Female		Male		Unknown		Total	
				Mean ± SD (n)	Range	Mean ± SD (n)	Range	Mean ± SD (n)	Range	Mean ± SD (n)	Range
<i>C. b. sharpei</i>	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
	Culmen		16.4 ± 1.01 (31)	14.1 – 18.5	16.6 ± 0.89 (7)	15.7 – 17.7	16.7 ± 1.02 (19)	14.8 – 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	31.6 ± 0.79 (19)	30.3 – 32.6	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	10.8 ± 0.68 (23)	9.4 – 11.9	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	44.1 ± 3.18 (23)	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	22.2 ± 0.86 (19)	20.7 – 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	56.2 ± 1.85 (23)	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	
	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	
	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	
	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	
	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	
	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	
	C. a. kalahari										
	Culmen		14.0 ± 0.34 (6)	13.5 – 14.4	14.6 ± 0.68 (4)	13.6 – 15.2	14.9 ± 1.56 (2)	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	27.3 ± 0.14 (2)	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	9.0 ± 1.06 (2)	8.2 – 9.7	8.3 ± 0.68 (12)	7.4 – 9.7	
<i>C. c. chiniana</i> (Rattling Cisticola – 642)	Tail		38.0 ± 3.67 (5)	33.0 – 42.0	38.7 ± 1.53 (3)	37.0 – 40.0	37.0 ± 1.41 (2)	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	18.8 ± 0.71 (2)	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	49.5 ± 0.71 (2)	49.0 – 50.0	51.0 ± 1.91 (12)	47.0 – 53.0	
	C. c. frater										
	Culmen		16.5 ± 0.82 (20)	14.8 – 18.1	17.7 ± 0.61 (7)	16.7 – 18.5	16.4 ± 1.08 (8)	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	33.0 ± 1.08 (8)	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	16.8 ± 1.67 (12)	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	65.9 ± 4.59 (9)	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	23.8 ± 0.35 (8)	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	66.3 ± 4.18 (12)	56.0 – 71.0	62.7 ± 6.26 (43)	55.0 – 77.0	
<i>Cisticola juncidis</i> (Zitting Cisticola – 629)											
<i>C. j. teretis</i>	Culmen		13.7 ± 0 (1)		14.6 ± 0 (1)		14.6 ± 0 (1)		14.3 ± 0.52 (3)	13.7 – 14.6	
	Head		24.6 ± 0 (1)		25.2 ± 0 (1)		26.3 ± 0 (1)		25.4 ± 0.86 (3)	24.6 – 26.3	



Family	Species	Subspecies	Measurement	Female		Male		Range	Mean ± SD (n)	Range	Mean ± SD (n)	Range	Mean ± SD (n)	Range	Total	Range	
				Mean ± SD (n)	Range	Mean ± SD (n)	Range										
			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 ± 2.05 (3)			48.0 – 53.0		
		<i>Cisticola rufilatus</i> (Tinkling Cisticola – 641)															
		<i>C. r. rufilatus</i>	Culmen	15.8 ± 0 (1)											15.8 ± 0 (1)		
			Head	31.2 ± 0 (1)											31.2 ± 0 (1)		
			Mass	11.5 ± 0 (1)											11.5 ± 0 (1)		
			Tail	61.0 ± 0 (1)											61.0 ± 0 (1)		
			Tarsus	21.3 ± 0 (1)											21.3 ± 0 (1)		
			Wing	58.0 ± 0 (1)											58.0 ± 0 (1)		
		<i>Eremomela icteropygialis</i> (Yellow-bellied Eremomela – 600)															
		<i>E. i. icteropygialis</i>	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. sharpei</i>															
		<i>E. i. sharpei</i>	Culmen	13.9 ± 0.81 (3)	13.0 – 14.5	12.7 ± 0 (1)									13.7 ± 0.88 (6)	12.7 – 14.7	
			Head	26.2 ± 0.35 (3)	25.9 – 26.6	25.7 ± 0 (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 ± 0.31 (6)	6.5 – 7.4	
			Tail	36.7 ± 1.53 (3)	35.0 – 38.0	35.0 ± 0 (1)									36.7 ± 1.37 (6)	35.0 – 38.0	
			Tarsus	17.8 ± 0.38 (3)	17.4 – 18.1	18.2 ± 0 (1)									18.0 ± 0.30 (6)	17.4 – 18.2	
			Wing	55.0 ± 2.65 (3)	52.0 – 57.0	51.0 ± 0 (1)									54.8 ± 2.64 (6)	51.0 – 57.0	
		<i>Eremomela usticollis</i> (Burnt-necked Eremomela – 601)															
		<i>E. u. baumgarti</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		Unknown		Total	
				Mean ± SD (n)	Range	Mean ± SD (n)	Range	Mean ± SD (n)	Range	Mean ± SD (n)	Range
<i>Melanurus pectoralis</i> (Rufous-eared Warbler – 619)											
	<i>M. p. etoshae</i>		Culmen	15.1 ± 0.78 (2)	14.5 – 15.6	14.3 ± 0 (1)	–	14.8 ± 0.70 (3)	–	14.3 – 15.6	
			Head	28.9 ± 0.42 (2)	28.6 – 29.2	28.5 ± 0 (1)	–	28.8 ± 0.38 (3)	–	28.5 – 29.2	
			Mass	9.3 ± 0.21 (2)	9.1 – 9.4	9.1 ± 0 (1)	–	9.2 ± 0.17 (3)	–	9.1 – 9.4	
			Tail	76.0 ± 0 (1)	–	–	–	76.0 ± 0 (1)	–	–	
			Tarsus	19.8 ± 0.35 (2)	19.5 – 20.0	19.5 ± 0 (1)	–	19.7 ± 0.29 (3)	–	19.5 – 20.0	
			Wing	49.5 ± 0.71 (2)	49.0 – 50.0	49.0 ± 0 (1)	–	49.3 ± 0.58 (3)	–	49.0 – 50.0	
<i>Prinia flavigans</i> (Black-chested Prinia – 650)											
	<i>P. f. flavicans</i>		Culmen	14.5 ± 0.80 (30)	13.1 – 17.2	15.2 ± 0.97 (13)	13.9 – 16.6	14.4 ± 0.90 (16)	12.5 –	14.6 ± 0.91 (59)	12.5 – 17.2
			Head	28.0 ± 0.78 (30)	26.6 – 30.4	28.8 ± 0.47 (13)	27.8 – 29.5	28.6 ± 0.61 (16)	27.7 –	30.5 ± 0.76 (59)	26.6 – 30.5
			Mass	8.4 ± 0.92 (36)	7.0 – 10.8	8.8 ± 0.63 (16)	7.7 – 9.9	8.6 ± 0.63 (19)	7.4 –	8.6 ± 0.80 (71)	7.0 – 10.8
			Tail	61.6 ± 4.59 (31)	53.0 – 70.0	66.0 ± 4.52 (14)	58.0 – 73.0	66.8 ± 8.25 (19)	58.0 –	64.1 ± 6.32 (64)	53.0 – 91.0
			Tarsus	20.5 ± 0.85 (30)	18.9 – 22.0	20.8 ± 0.76 (13)	19.6 – 22.0	21.4 ± 0.73 (15)	20.2 –	22.8 ± 0.87 (58)	18.9 – 22.8
			Wing	52.0 ± 2.38 (34)	45.0 – 56.0	55.2 ± 1.32 (15)	53.0 – 58.0	54.4 ± 1.87 (19)	50.0 –	57.0 ± 2.48 (68)	45.0 – 58.0
<i>P. f. nubilosa</i>											
			Culmen	15.0 ± 0.85 (37)	13.7 – 16.5	15.6 ± 0.81 (24)	14.6 – 17.4	15.3 ± 0.65 (20)	14.2 –	16.9 ± 0.82 (81)	13.7 – 17.4
			Head	28.2 ± 0.78 (37)	26.8 – 29.6	28.8 ± 0.63 (24)	27.7 – 30.2	29.0 ± 0.55 (20)	27.9 –	29.9 ± 0.77 (81)	26.8 – 30.2
			Mass	8.6 ± 0.69 (49)	7.2 – 10.0	8.7 ± 0.59 (24)	7.9 – 10.7	9.0 ± 0.50 (23)	8.0 –	9.7 ± 0.65 (96)	7.2 – 10.7
			Tail	64.0 ± 6.78 (46)	50.0 – 86.0	66.0 ± 3.90 (23)	61.0 – 74.0	66.4 ± 4.59 (25)	58.0 –	78.0 ± 5.71 (94)	50.0 – 86.0
			Tarsus	20.9 ± 0.77 (37)	19.6 – 22.5	21.1 ± 0.65 (24)	19.5 – 22.7	21.7 ± 0.66 (20)	19.7 –	22.7 ± 0.77 (81)	19.5 – 22.7
			Wing	52.4 ± 2.66 (46)	41.0 – 57.0	54.3 ± 1.91 (25)	50.0 – 58.0	54.9 ± 2.30 (25)	47.0 –	60.0 ± 53.6 ± 2.61 (96)	41.0 – 60.0
<i>Prinia subflava</i> (Tawny-flanked Prinia – 649)											
	<i>P. s. bechuanae</i>		Culmen	14.8 ± 0.56 (4)	14.1 – 15.4	14.7 ± 1.10 (6)	13.0 –	16.1 ± 1.08 (10)	–	13.0 – 16.1	
			Head	28.1 ± 0.79 (4)	26.9 – 28.7	28.6 ± 1.14 (6)	27.5 –	30.7 ± 1.01 (10)	–	26.9 – 30.7	
			Mass	8.6 ± 1.14 (4)	6.9 – 9.4	8.7 ± 0.59 (6)	8.0 –	9.8 ± 0.80 (10)	–	6.9 – 9.8	
			Tail	55.3 ± 1.53 (3)	54.0 – 57.0	56.8 ± 2.77 (5)	53.0 –	56.3 ± 2.38 (8)	–	53.0 – 60.0	
			Tarsus	19.8 ± 2.29 (4)	16.4 – 21.2	21.0 ± 0.88 (6)	20.1 –	22.6 ± 1.60 (10)	–	16.4 – 22.6	
			Wing	51.3 ± 2.50 (4)	48.0 – 54.0	51.3 ± 1.51 (6)	50.0 –	53.0 ± 1.83 (10)	–	48.0 – 54.0	
Dicruridae (Drongos)											
	<i>D. a. apivorus</i>		Culmen	25.4 ± 2.62 (16)	19.4 – 28.8	26.3 ± 1.04 (3)	25.5 –	24.8 ± 1.72 (27)	19.5 –	25.1 ± 2.06 (46)	19.4 – 28.8
			Head	47.1 ± 1.94 (16)	43.5 – 49.9	48.5 ± 1.26 (3)	47.3 – 49.8	46.8 ± 1.62 (27)	44.4 –	52.2 ± 1.74 (46)	43.5 – 52.2
			Mass	45.1 ± 3.70 (17)	40.0 – 52.4	46.1 ± 1.48 (3)	45.1 – 47.8	44.8 ± 2.82 (30)	40.0 –	49.7 ± 3.06 (50)	40.0 – 52.4



Family	Species	Subspecies	Measurement	Female		Male		Unknown		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)	<i>E. c. bradfieldi</i>	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
			Head	<b>30.9 ± 1.76 (10)</b>	<b>26.2 – 32.5</b>	<b>31.8 ± 0.75 (49)</b>	<b>30.3 – 33.2</b>	<b>31.7 ± 0.74 (24)</b>	<b>30.2 – 33.3</b>	<b>31.7 ± 0.95 (83)</b>	<b>26.2 – 33.3</b>
			Mass	19.0 ± 1.10 (9)	17.2 – 20.4	19.7 ± 1.20 (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	<b>19.5 ± 1.15 (10)</b>	<b>17.0 – 21.1</b>	<b>20.2 ± 0.69 (49)</b>	<b>18.7 – 21.7</b>	<b>20.5 ± 0.69 (24)</b>	<b>19.2 – 21.8</b>	<b>20.2 ± 0.80 (83)</b>	<b>17.0 – 21.8</b>
			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)	<i>E. f. princeps</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	<b>30.9 ± 1.76 (10)</b>	<b>26.2 – 32.5</b>	<b>31.8 ± 0.75 (49)</b>	<b>30.3 – 33.2</b>	<b>31.7 ± 0.74 (24)</b>	<b>30.2 – 33.3</b>	<b>31.7 ± 0.95 (83)</b>	<b>26.2 – 33.3</b>
			Mass	19.0 ± 1.10 (9)	17.2 – 20.4	19.7 ± 1.20 (56)	16.5 – 22.4	19.4 ± 1.55 (32)	15.3 – 23.0	19.6 ± 1.32 (97)	15.3 – 23.0
			Tail	<b>64.0 ± 3.09 (10)</b>	<b>60.0 – 70.0</b>	<b>65.6 ± 2.69 (56)</b>	<b>59.0 – 72.0</b>	<b>64.5 ± 2.75 (33)</b>	<b>59.0 – 70.0</b>	<b>65.1 ± 2.80 (99)</b>	<b>59.0 – 72.0</b>
			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 impetuani</i> (Lark-like Bunting – 871)	<i>E. i. impetuani</i>	<i>E. i. impetuani</i>	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 ± 0.60 (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	<b>58.7 ± 2.54 (87)</b>	<b>54.0 – 64.0</b>	<b>59.9 ± 2.62 (86)</b>	<b>53.0 – 67.0</b>	<b>59.6 ± 2.90 (273)</b>	<b>49.0 – 66.0</b>	<b>59.4 ± 2.80 (446)</b>	<b>49.0 – 67.0</b>
			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
	<i>Emberiza tahapisi</i> (Cinnamon-breasted Bunting – 872)	<i>E. t. nivenorum</i>	Wing	<b>74.1 ± 2.64 (95)</b>	<b>64.0 – 82.0</b>	<b>76.6 ± 2.82 (89)</b>	<b>65.0 – 82.0</b>	<b>75.1 ± 3.19 (308)</b>	<b>60.0 – 83.0</b>	<b>75.2 ± 3.12 (492)</b>	<b>60.0 – 83.0</b>
			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	<b>61.9 ± 2.65 (20)</b>	<b>57.0 – 66.0</b>	<b>63.5 ± 2.08 (28)</b>	<b>58.0 – 68.0</b>	<b>61.9 ± 1.52 (10)</b>	<b>60.0 – 64.0</b>	<b>62.7 ± 2.32 (58)</b>	<b>57.0 – 68.0</b>
			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	<b>76.4 ± 2.48 (20)</b>	<b>72.0 – 82.0</b>	<b>78.9 ± 2.28 (28)</b>	<b>75.0 – 84.0</b>	<b>76.8 ± 1.47 (11)</b>	<b>74.0 – 79.0</b>	<b>77.7 ± 2.51 (59)</b>	<b>72.0 – 84.0</b>

Family	Species	Subspecies	Measurement	Female		Male		Unknown		Total				
				Mean ± SD (n)	Range	Mean ± SD (n)	Range	Mean ± SD (n)	Range	Mean ± SD (n)	Range			
<b>Estrildidae (Waxbills, Munias and Allies)</b>														
<i>Amadina erythrocephala</i> (Red-headed Finch – 820)														
<i>A. e. dissita</i>				Culmen	15.1 ± 0.71 (14)	14.2 – 16.3	15.3 ± 0.62 (32)	14.6 – 17.4	15.2 ± 0.65 (46)	14.2 – 17.4				
Head	27.3 ± 0.55 (14)	26.4 – 28.2	27.6 ± 0.61 (32)	26.5 – 29.2	27.5 ± 0.60 (46)	26.4 – 29.2								
Mass	21.0 ± 1.85 (90)	16.1 – 26.7	21.1 ± 1.44 (22)	16.3 – 25.6	21.0 ± 1.62 (22)	16.1 – 26.7								
Tail	49.2 ± 2.30 (77)	45.0 – 54.0	51.2 ± 2.45 (110)	45.0 – 61.0	50.4 ± 2.58 (187)	45.0 – 61.0								
Tarsus	15.7 ± 0.65 (14)	14.3 – 17.0	16.1 ± 0.52 (32)	15.0 – 17.2	15.9 ± 0.59 (46)	14.3 – 17.2								
Wing	71.9 ± 2.00 (77)	64.0 – 77.0	73.3 ± 1.73 (115)	68.0 – 78.0	72.8 ± 1.98 (192)	64.0 – 78.0								
<i>A. e. erythrocephala</i>														
Head	27.3 ± 0.66 (27)	25.8 – 28.5	27.6 ± 0.72 (39)	25.8 – 29.2	27.5 ± 0.71 (66)	25.8 – 29.2								
Mass	22.1 ± 2.39 (64)	18.4 – 28.1	22.0 ± 1.95 (96)	17.6 – 26.3	22.0 ± 2.13 (160)	17.6 – 28.1								
Tail	49.5 ± 2.45 (60)	45.0 – 53.0	52.0 ± 1.95 (87)	46.0 – 57.0	50.9 ± 2.48 (147)	45.0 – 57.0								
Tarsus	15.6 ± 0.58 (21)	14.7 – 16.8	16.2 ± 0.60 (34)	14.8 – 17.6	16.0 ± 0.64 (55)	14.7 – 17.6								
Wing	71.6 ± 2.01 (63)	63.0 – 76.0	72.9 ± 2.01 (97)	67.0 – 77.0	72.4 ± 2.11 (160)	63.0 – 77.0								
<i>Brunhilda erythronotos</i> (Black-faced Waxbill – 841)														
Head	23.1 ± 0.76 (35)	22.0 – 26.7	23.1 ± 0.48 (36)	21.4 – 23.7	22.9 ± 0.43 (18)	22.2 – 23.6								
Mass	9.0 ± 0.76 (92)	7.5 – 12.8	8.9 ± 0.70 (101)	7.8 – 12.5	9.0 ± 0.75 (36)	7.9 – 12.2								
Tail	61.1 ± 2.78 (80)	54.0 – 75.0	61.7 ± 2.48 (85)	53.0 – 71.0	61.4 ± 3.38 (30)	57.0 – 74.0								
Tarsus	14.7 ± 0.69 (35)	13.1 – 15.7	14.7 ± 0.96 (36)	11.5 – 16.0	14.3 ± 1.14 (16)	11.9 – 16.5								
Wing	54.5 ± 1.52 (89)	49.0 – 57.0	55.0 ± 1.76 (97)	52.0 – 62.0	54.5 ± 2.44 (33)	50.0 – 63.0								
<i>Estrelda astrild</i> Common Waxbill – 843)														
<i>E. a. damarensis</i>														
Head	21.7 ± 0.42 (2)	21.4 – 22.0	21.3 ± 0.42 (3)	20.8 – 21.6	21.4 ± 0.38 (5)	20.8 – 21.8								
Mass	9.4 ± 0.79 (182)	6.9 – 11.1	9.4 ± 0.89 (270)	7.0 – 13.2	9.2 ± 0.96 (82)	7.0 – 11.7								
Tail	55.0 ± 2.53 (98)	49.0 – 62.0	57.2 ± 2.74 (133)	51.0 – 65.0	55.5 ± 2.98 (60)	48.0 – 63.0								
Tarsus	13.4 ± 1.41 (2)	12.4 – 14.4	14.4 ± 0.48 (4)	14.0 – 15.0	13.5 ± 0.1 (1)	14.0 ± 0.84 (7)								
Wing	50.5 ± 1.4 (120)	46.0 – 54.0	51.5 ± 1.61 (177)	48.0 – 58.0	50.9 ± 2.41 (77)	47.0 – 60.0								
<i>E. a. ngamensis</i>														
Head	20.8 ± 0 (1)													
Mass	7.4 ± 0 (1)													
Tail	45.0 ± 0 (1)													
Wing	45.0 ± 0 (1)													



Family	Species	Subspecies	Measurement	Female		Male		Unknown		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)											
		monotypic	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	<b>24.3 ± 0.56 (21)</b>	<b>23.0 – 25.1</b>	<b>25.0 ± 0.69 (34)</b>	<b>24.0 – 27.3</b>	<b>24.7 ± 0.72 (55)</b>	<b>23.0 – 27.3</b>		
			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	<b>69.7 ± 3.69 (117)</b>	<b>55.0 – 78.0</b>	<b>74.2 ± 4.09 (145)</b>	<b>61.0 – 83.0</b>	<b>72.2 ± 4.50 (262)</b>	<b>55.0 – 83.0</b>		
			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	<b>57.3 ± 1.36 (170)</b>	<b>52.0 – 60.0</b>	<b>58.0 ± 1.52 (221)</b>	<b>53.0 – 63.0</b>	<b>57.7 ± 1.50 (391)</b>	<b>52.0 – 63.0</b>		
<i>Lagonosticida nitidula</i> (Brown Firefinch – 836)											
		monotypic	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		
			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	43.8 ± 1.14 (12)	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	52.2 ± 1.82 (34)	48.0 – 57.0
<i>Lagonosticida rhodopareia</i> (Jameson's Firefinch – 835)											
		<i>L. r. jamesoni</i>	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>Lagonosticida senegalensis</i> (Red-billed Firefinch – 837)											
		<i>L. s. rendalli</i>	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	<b>36.4 ± 1.12 (19)</b>	<b>34.0 – 38.0</b>	<b>37.5 ± 1.20 (13)</b>	<b>36.0 – 40.0</b>	<b>36.9 ± 1.26 (32)</b>	<b>34.0 – 40.0</b>		
			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>Oryzopsis atricollis</i> (Quailfinch – 844)											
		<i>O. a. bradfieldi</i>	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		Unknown		Total	
				Mean ± SD (n)	Range						
	Tail	<b>54.9</b> ± <b>2.56</b> (245)	<b>45.0</b> – <b>65.0</b>	<b>56.1</b> ± <b>2.57</b> (113)	<b>50.0</b> – <b>63.0</b>	<b>56.1</b> ± <b>3.00</b> (316)	<b>46.0</b> – <b>68.0</b>	<b>55.7</b> ± <b>2.84</b> (674)	<b>45.0</b> – <b>68.0</b>	<b>55.7</b> ± <b>2.84</b> (674)	<b>45.0</b> – <b>68.0</b>
	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	19.8 ± 0.80 (211)	16.3 – 22.8
	Wing	<b>81.6</b> ± <b>2.76</b> (255)	<b>73.0</b> – <b>89.0</b>	<b>83.9</b> ± <b>2.95</b> (116)	<b>69.0</b> – <b>89.0</b>	<b>82.3</b> ± <b>3.20</b> (363)	<b>67.0</b> – <b>89.0</b>	<b>82.3</b> ± <b>3.10</b> (734)	<b>67.0</b> – <b>89.0</b>	<b>82.3</b> ± <b>3.10</b> (734)	<b>67.0</b> – <b>89.0</b>
<i>Critchagra atrogularis</i> (Black-throated Canary – 860)											
<i>C. a. deserti</i>	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	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	23.1 ± 0.50 (54)	22.2 – 24.6
	Mass	10.9 ± 0.78 (14)	9.8 – 12.4	10.9 ± 0.68 (19)	9.7 – 12.2	10.7 ± 0.63 (40)	9.2 – 12.0	10.8 ± 0.67 (73)	9.2 – 12.4	10.8 ± 0.67 (73)	9.2 – 12.4
	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	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	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 – 79.0	67.3 ± 2.12 (74)	62.0 – 79.0
<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	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 – 24.4	23.2 ± 0.49 (81)	22.2 – 24.4
	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 – 13.6	10.8 ± 0.81 (148)	9.1 – 13.6
	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	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	13.9 ± 0.58 (80)	12.5 – 15.7
	Wing	<b>67.8</b> ± <b>1.62</b> (52)	<b>64.0</b> – <b>73.0</b>	<b>68.7</b> ± <b>2.19</b> (57)	<b>65.0</b> – <b>75.0</b>	<b>67.8</b> ± <b>1.74</b> (37)	<b>64.0</b> – <b>72.0</b>	<b>68.1</b> ± <b>1.93</b> (146)	<b>64.0</b> – <b>75.0</b>	<b>68.1</b> ± <b>1.93</b> (146)	<b>64.0</b> – <b>75.0</b>
<i>Critchagra flaviventris</i> (Yellow Canary – 866)											
<i>C. f. damarensis</i>	Culmen	<b>14.5</b> ± <b>0.90</b> (36)	<b>11.6</b> – <b>16.7</b>	<b>15.1</b> ± <b>0.80</b> (40)	<b>13.5</b> – <b>17.2</b>						
	Head	<b>26.5</b> ± <b>0.66</b> (35)	<b>25.1</b> – <b>28.0</b>	<b>27.0</b> ± <b>0.45</b> (40)	<b>26.1</b> – <b>28.1</b>						
	Mass	16.0 ± 1.45 (55)	13.1 – 19.9	16.2 ± 0.89 (75)	14.3 – 18.4						
	Tail	<b>55.7</b> ± <b>2.46</b> (52)	<b>47.0</b> – <b>60.0</b>	<b>57.6</b> ± <b>2.28</b> (72)	<b>52.0</b> – <b>63.0</b>						
	Tarsus	17.9 ± 0.76 (36)	16.0 – 19.5	18.1 ± 0.63 (42)	17.1 – 19.5						
	Wing	<b>72.4</b> ± <b>2.88</b> (54)	<b>60.0</b> – <b>77.0</b>	<b>75.0</b> ± <b>2.25</b> (74)	<b>65.0</b> – <b>80.0</b>						
<i>Serinus leucocephala</i> (Damara Canary – 4102)											
<i>S. a. leucocephala</i>	Culmen	12.3 ± 0.99 (4)	11.2 – 13.6	12.0 ± 0 (1)							
	Head	23.0 ± 0.84 (4)	22.0 – 24.0	22.6 ± 0.99 (2)	21.9 – 23.3						
	Mass	12.0 ± 1.00 (3)	11.0 – 13.0	12.3 ± 1.53 (3)	11.0 – 14.0						
	Tail	46.3 ± 2.06 (4)	44.0 – 48.0	46.0 ± 1.00 (3)	45.0 – 47.0						
	Tarsus	14.9 ± 0.42 (4)	14.4 – 15.3	14.8 ± 0.35 (2)	14.5 – 15.0						
	Wing	64.3 ± 2.36 (4)	61.0 – 66.0	62.0 ± 3.61 (3)	58.0 – 65.0						

Family	Species	Subspecies	Measurement	Female		Male		Unknown		Total			
				Mean ± SD (n)	Range	Mean ± SD (n)	Range	Mean ± SD (n)	Range	Mean ± SD (n)	Range		
<b>Hirundinidae (Swallows, Martins)</b>													
	<i>Cecropis cucullata</i> (Greater Striped Swallow – 502)												
	monotypic												
	Culmen	13.5 ± 0.0 (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)	78.0 – 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				
<i>Hirundo rustica</i> (Barn Swallow – 493)													
	<i>H. r. rustica</i>												
	Culmen	11.7 ± 1.41 (2)	10.7 – 12.7	13.0 ± 0 (1)				12.1 ± 1.25 (3)	10.7 – 13.0				
	Head	30.2 ± 0 (1)	30.6 – 30.6	30.6 ± 0 (1)				30.4 ± 0.28 (2)	30.2 – 30.6				
	Mass	22.2 ± 1.64 (4)	20.4 – 24.0	18.5 ± 2.61 (5)		15.3 – 21.6	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)		97.0 – 105.0	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 – 12.0	12.0 ± 0 (1)		12.0 – 12.0	12.0 ± 0 (2)	12.0 – 12.0	12.0 – 12.0				
	Wing	125.3 ± 3.40 (4)	122.0 – 130.0	124.2 ± 2.40 (6)		121.0 – 127.0	124.2 ± 3.59 (13)	117.0 – 129.0	124.4 ± 3.17 (23)	117.0 – 130.0			
<i>Ptyonoprogne fuligula</i> (Rock Martin – 506)													
	<i>P. f. anderssoni</i>												
	Culmen	13.8 ± 0 (1)		14.1 ± 0.58 (10)		13.2 – 15.0	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)		29.5 – 31.8	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)	17.6 – 22.7	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)	52.0 – 60.0	56.3 ± 3.81 (27)	50.0 – 68.0	56.2 ± 3.32 (44)	50.0 – 68.0			
	Tarsus			11.7 ± 1.15 (10)	10.1 – 13.9	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)	125.0 – 137.0	129.0 ± 3.54 (28)	118.0 – 134.0	129.2 ± 3.70 (45)	118.0 – 137.0			
	<i>P. f. fuligula</i>												
	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)		19.5 – 21.8		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 ± 0 (1)		57.0 ± 2.00 (3)	55.0 – 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		131.0 ± 0 (1)		131.7 ± 3.06 (3)	129.0 – 135.0				
<b>Laniidae (Shrikes)</b>													
	<i>Eurocephalus anguitimens</i> (Southern White-crowned Shrike – 730)												
	<i>E. a. anguitimens</i>												
	Culmen	25.2 ± 1.59 (10)		21.0 – 26.4	26.1 ± 1.06 (4)	25.3 – 27.6	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)	46.8 – 47.9	47.5 ± 1.04 (5)	46.3 – 48.6	47.4 ± 0.70 (19)	45.6 – 48.6			



Family	Species	Subspecies	Measurement	Female		Male		Unknown		Total		
				Mean ± SD (n)	Range	Mean ± SD (n)	Range	Mean ± SD (n)	Range	Mean ± SD (n)	Range	
			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>Lanius collaris</i> (Southern Fiscal – 707)												
<i>L. c. aridicola</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	22.7 ± 1.44 (113)	19.0 – 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	44.0 ± 1.36 (113)	39.8 – 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	36.9 ± 2.99 (118)	29.4 – 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	106.6 ± 5.29 (118)	92.0 – 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	26.8 ± 0.87 (106)	24.9 – 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	97.5 ± 2.94 (123)	90.0 – 107.0	97.5 ± 2.94 (123)	90.0 – 107.0	
	<i>Lanius collaris</i> (Red-backed Shrike – 708)											
	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	20.1 ± 0.78 (42)	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	38.7 ± 1.07 (46)	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	27.8 ± 3.65 (49)	19.7 – 47.0	27.8 ± 3.65 (49)	19.7 – 47.0	
<i>Lanius minor</i> (Lesser Grey Shrike – 706)	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	78.4 ± 5.05 (47)	72.0 – 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	24.0 ± 1.04 (44)	22.1 – 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 (50)	83.0 – 97.0	92.9 ± 2.82 (50)	83.0 – 97.0	92.9 ± 2.82 (50)	83.0 – 97.0	
	<i>Lanius minor</i> (Lesser Grey Shrike – 706)											
	Culmen	23.2 ± 0.91 (12)	22.0 – 25.1	22.8 ± 1.26 (18)	21.4 – 25.1	22.7 ± 0.88 (13)	21.4 – 24.2	22.7 ± 0.88 (13)	21.4 – 24.2	22.7 ± 0.88 (13)	21.4 – 24.2	
<i>Turdoides bicolor</i> (Southern Pied Babbler – 536)	Head	42.6 ± 0.88 (12)	41.2 – 43.8	43.6 ± 1.21 (18)	41.7 – 45.6	42.5 ± 1.38 (13)	40.4 – 46.0	42.5 ± 1.38 (13)	40.4 – 46.0	42.5 ± 1.38 (13)	40.4 – 46.0	
	Mass	44.8 ± 5.14 (12)	39.2 – 58.0	45.1 ± 2.56 (17)	40.7 – 48.6	45.3 ± 6.20 (13)	37.5 – 61.2	45.3 ± 6.20 (13)	37.5 – 61.2	45.3 ± 6.20 (13)	37.5 – 61.2	
	Tail	92.2 ± 3.28 (11)	87.0 – 96.0	93.3 ± 5.43 (18)	80.0 – 104.0	91.3 ± 3.41 (12)	84.0 – 96.0	91.3 ± 3.41 (12)	84.0 – 96.0	91.3 ± 3.41 (12)	84.0 – 96.0	
	Tarsus	25.0 ± 0.91 (12)	23.6 – 26.9	25.2 ± 0.94 (18)	23.0 – 26.8	25.3 ± 0.87 (13)	24.3 – 27.7	25.3 ± 0.87 (13)	24.3 – 27.7	25.3 ± 0.87 (13)	24.3 – 27.7	
	Wing	116.3 ± 3.22 (12)	110.0 – 122.0	115.6 ± 4.02 (19)	109.0 – 123.0	116.5 ± 1.71 (13)	113.0 – 119.0	116.5 ± 1.71 (13)	113.0 – 119.0	116.5 ± 1.71 (13)	113.0 – 119.0	
	<i>Turdoides bicolor</i> (Southern Pied Babbler – 536)											
Leiothrichidae (Laughingthrushes and Allies) monotypic	Culmen	29.9 ± 0.49 (2)	29.5 – 30.2	30.0 ± 1.15 (19)	27.6 – 32.7	30.0 ± 1.10 (21)	27.6 – 32.7	30.0 ± 1.10 (21)	27.6 – 32.7	30.0 ± 1.10 (21)	27.6 – 32.7	
	Head	51.8 ± 0.14 (2)	51.7 – 51.9	51.7 ± 1.47 (19)	50.8 – 52.7	51.7 ± 1.42 (21)	50.8 – 52.7	51.7 ± 1.42 (21)	50.8 – 52.7	51.7 ± 1.42 (21)	50.8 – 52.7	
	Mass	72.4 ± 1.77 (2)	71.1 – 73.6	73.7 ± 6.75 (19)	62.7 – 88.5	73.6 ± 6.43 (21)	62.7 – 88.5	73.6 ± 6.43 (21)	62.7 – 88.5	73.6 ± 6.43 (21)	62.7 – 88.5	
	Tail	112.0 ± 1.41 (2)	111.0 – 113.0	113.0 ± 5.76 (17)	100.0 – 123.0	112.9 ± 5.45 (19)	100.0 – 123.0	112.9 ± 5.45 (19)	100.0 – 123.0	112.9 ± 5.45 (19)	100.0 – 123.0	
	Tarsus	34.6 ± 0.42 (2)	34.3 – 34.9	34.8 ± 1.56 (19)	31.6 – 38.5	34.8 ± 1.49 (21)	31.6 – 38.5	34.8 ± 1.49 (21)	31.6 – 38.5	34.8 ± 1.49 (21)	31.6 – 38.5	
	Wing	110.5 ± 2.12 (2)	109.0 – 112.0	113.0 ± 2.38 (19)	110.0 – 117.0	112.8 ± 2.43 (21)	109.0 – 117.0	112.8 ± 2.43 (21)	109.0 – 117.0	112.8 ± 2.43 (21)	109.0 – 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
<i>Turaooides gymnorhynchos</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 – 54.7
			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>Turaooides hartlaubii</i> (Hartlaub's Babbler – 535)											
	<i>T. h. griseoquama</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 – 50.4	–	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 – 37.7		
			Wing	106.0 ± 0 (1)	–	117.3 ± 3.09 (7)	114.0 – 123.0	115.9 ± 4.91 (8)	106.0 – 123.0		
<i>Turaooides jarainii</i> (Arrow-marked Babbler – 533)											
	<i>T. j. tamaiakanei</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
<i>Turdidae melanops</i> (Black-faced Babblers – 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
			Head	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
			Tail	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
			Wing	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	– 24.4	24.4	± 0 (1)	24.4	– 24.4
			Head	50.4	± 0 (1)	50.4	– 50.4	50.4	± 0 (1)	50.4	– 50.4
			Tail	118.0	± 0 (1)	118.0	– 118.0	118.0	± 0 (1)	118.0	– 118.0
			Tarsus	37.8	± 0 (1)	37.8	– 37.8	37.8	± 0 (1)	37.8	– 37.8
			Wing	118.0	± 0 (1)	118.0	– 118.0	118.0	± 0 (1)	118.0	– 118.0
<i>Macrosphenidae</i> (Crombecs, African Warblers)											
	<i>Sylvietta rufescens</i> (Long-billed Crombec – 621)		<i>S. r. flecki</i>								
			Culmen	15.6	± 0 (1)	19.3	– 19.3	19.3	± 0 (1)	17.5	– 17.5
			Head	29.3	± 0.21 (2)	29.1	– 29.4	32.1	± 0 (1)	30.2	– 30.2
			Mass	9.9	± 0.64 (3)	9.2	– 10.4	11.8	± 1.32 (3)	10.4	– 13.0
			Tail	26.7	± 1.15 (3)	26.0	– 28.0	27.0	± 0 (1)	26.8	– 26.8
			Tarsus	19.1	± 0 (1)	19.1	– 19.1	21.2	± 0 (1)	20.2	– 20.2
			Wing	58.0	± 1.00 (3)	57.0	– 59.0	60.7	± 2.52 (3)	58.0	– 63.0
	<i>S. r. ochracea</i>		Culmen	18.8	± 1.26 (18)	17.1	– 22.5	19.3	± 0.60 (6)	18.3	– 18.3
			Head	32.4	± 0.74 (18)	31.3	– 34.2	33.3	± 0.69 (6)	32.5	– 32.5
			Mass	11.7	± 1.05 (19)	10.0	– 13.7	11.7	± 0.75 (7)	10.8	– 12.8
			Tail	27.7	± 2.54 (18)	23.0	– 32.0	29.1	± 1.57 (7)	27.0	– 32.0
			Tarsus	19.4	± 0.62 (18)	18.1	– 20.7	20.1	± 0.27 (6)	19.6	– 20.3
			Wing	61.6	± 2.77 (19)	58.0	– 67.0	63.3	± 1.80 (7)	61.0	– 66.0
<i>Malacoptonidae</i> (Bushshrikes)											
	<i>Dryoscopus cubla</i> (Black-backed Puffback – 712)		<i>D. c. okavangoensis</i>								
			Culmen	21.8	± 0 (1)	22.0	– 22.0	21.8	± 1.29 (4)	20.6	– 23.7
			Head	37.3	± 0 (1)	39.6	– 38.2	37.3	± 1.41 (4)	38.2	– 41.5
			Mass	24.6	± 0 (1)	24.9	– 1.88 (4)	22.5	– 26.7	24.8	– 24.8
			Tail	65.0	± 0 (1)	66.3	– 2.87 (4)	64.0	– 70.0	66.0	– 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
			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 major</i> (Tropical Boubou – 977)											
<i>L. m. mossambicus</i>											
			Culmen	27.2 ± 0.49 (2)	26.8 – 27.5	24.5 ± 0 (1)		26.3 ± 1.57 (3)		24.5 ± 1.57 (3)	
			Head	47.1 ± 0.07 (2)	47.0 – 47.1	47.8 ± 0 (1)		47.3 ± 0.44 (3)		47.0 ± 0.44 (3)	
			Mass	44.2 ± 4.38 (2)	41.1 – 47.3	50.2 ± 0 (1)		46.2 ± 4.65 (3)		41.1 – 50.2	
			Tail	98.5 ± 2.12 (2)	97.0 – 100.0	108.0 ± 0 (1)		101.7 ± 5.69 (3)		97.0 – 108.0	
			Tarsus	33.4 ± 1.13 (2)	32.6 – 34.2	33.8 ± 0 (1)		33.5 ± 0.83 (3)		32.6 – 34.2	
			Wing	99.0 ± 8.49 (2)	93.0 – 105.0	98.0 ± 0 (1)		98.7 ± 6.03 (3)		93.0 – 105.0	
<i>Laniarius atrococcineus</i> (Crimson-breasted Strike – 711)											
monotypic											
			Culmen	26.2 ± 1.04 (38)	24.2 – 29.0	27.1 ± 1.11 (9)		26.1 ± 0.93 (22)		24.6 – 28.1	
			Head	45.9 ± 0.96 (38)	43.8 – 48.2	46.7 ± 1.32 (9)		44.2 – 48.6		44.4 – 49.0	
			Mass	46.3 ± 2.58 (36)	42.2 – 51.2	46.3 ± 3.34 (9)		40.3 – 51.5		46.4 – 51.0	
			Tail	102.9 ± 5.02 (38)	95.0 – 116.0	103.8 ± 5.80 (8)		98.0 – 117.0		103.8 ± 3.92 (21)	
			Tarsus	33.0 ± 1.12 (36)	30.6 – 35.1	33.3 ± 1.07 (9)		31.7 – 34.9		33.4 ± 0.93 (22)	
			Wing	98.4 ± 3.96 (38)	92.0 – 114.0	98.6 ± 3.75 (9)		92.0 – 103.0		101.1 ± 3.82 (22)	
<i>Laniarius bicolor</i> (Swamp Boubou – 710)											
<i>L. b. strictifus</i>											
			Culmen	27.5 ± 0.95 (5)	26.3 – 28.7	28.3 ± 0 (1)		26.7 ± 2.96 (3)		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	
			Mass	52.7 ± 2.37 (5)	49.6 – 55.4	58.7 ± 0 (1)		50.0 ± 1.11 (3)		51.2 – 59.0	
			Tail	106.4 ± 3.21 (5)	103.0 – 111.0	104.0 ± 0 (1)		104.3 ± 4.16 (3)		101.0 – 109.0	
			Tarsus	35.6 ± 1.67 (5)	33.8 – 38.3	35.2 ± 0 (1)		33.5 ± 2.02 (3)		31.2 – 35.0	
			Wing	106.4 ± 3.36 (5)	102.0 – 111.0	106.0 ± 0 (1)		103.3 ± 1.53 (3)		102.0 – 105.0	
<i>Niliaus 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 ± 2.24		17.8 ± 0 (1)	
			Head	38.1 ± 0.46 (3)	37.6 – 38.5	37.9 ± 1.42 (4)		36.4 – 39.7		37.6 ± 0 (1)	
			Mass	22.0 ± 0.75 (3)	21.3 – 22.8	23.7 ± 2.05 (4)		20.9 – 25.8		24.2 ± 0 (1)	
			Tail	55.7 ± 1.15 (3)	55.0 – 57.0	57.7 ± 2.08 (3)		56.0 – 60.0		55.0 ± 0 (1)	
			Tarsus	23.0 ± 1.10 (3)	21.9 – 24.1	23.8 ± 1.52 (4)		22.0 – 25.4		23.4 ± 1.32 (7)	
			Wing	83.7 ± 1.53 (3)	82.0 – 85.0	85.8 ± 2.5 (4)		82.0 – 87.0		87.0 ± 0 (1)	
<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)	
			Head	41.3 ± 0.78 (6)	40.4 – 42.2	42.1 ± 0.35 (2)		41.8 – 42.3		40.8 ± 0.92 (13)	



Family	Species	Subspecies	Measurement	Female		Male		Unknown		Total		
				Mean ± SD (n)	Range	Mean ± SD (n)	Range	Mean ± SD (n)	Range	Mean ± SD (n)	Range	
<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	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	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	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	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	
	Mass					31.6 ± 2.19 (2)	30.0 – 33.1	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	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	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	77.5 ± 0.71 (2)	77.0 – 78.0	
<i>Telophorus zeylonus</i> (Bokmakierie – 722)												
<i>T. z. thermophilus</i>	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	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	51.4 ± 2.44 (41)	40.0 – 54.2	
	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	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	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	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	97.5 ± 3.83 (42)	90.0 – 107.0	
	<i>Monarchidae</i> (Monarchs)											
	<i>Terpsiphone viridis</i> (African Paradise Flycatcher – 682)											
	<i>T. v. plumbeiceps</i>											
	Culmen	19.4 ± 1.04 (11)	18.0 – 21.0	19.0 ± 1.54 (5)	16.5 – 20.6			19.3 ± 1.18 (16)	16.5 – 21.0	19.3 ± 1.18 (16)	16.5 – 21.0	
<i>A. c. cinnamomeus</i> (African Pipit – 692)	Head	36.2 ± 0.94 (11)	35.0 – 37.6	36.4 ± 0.72 (5)	35.5 – 37.4			36.2 ± 0.86 (16)	35.0 – 37.6	36.2 ± 0.86 (16)	35.0 – 37.6	
	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	105.4 ± 85.05 (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	
	<i>Motacillidae</i> (Wagtails, Pipits)											
	<i>Anthus cinnamomeus</i> (African Pipit – 692)											
	<i>A. c. groei</i>											
	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 – 17.7	18.0 ± 1.11 (14)	15.1 – 19.6	18.0 ± 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	35.6 ± 0.86 (14)	34.3 – 37.8	
	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	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	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	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	85.9 ± 3.29 (14)	80.0 – 91.0	



Family	Species	Subspecies	Measurement	Female		Male		Unknown		Total	
				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. leucocappon</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
			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 (38)	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
			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
			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
			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
<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
			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
			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 (58)	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
Muscicapidae (Chats, Old World Flycatchers)	<i>Cercotrichas leucophrys</i> (White-browed Scrub Robin – 588)	<i>C. l. 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
			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>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
			<i>Cossypha heuglini</i> (White-browed Robin–Chat – 580)								
			<i>C. h. heuglini</i>								
			Culmen	20.5 ± 0 (1)	24.0 – 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 ± 43.2	0.92 (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 – 96.6	98.0 ± 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
			<i>Emarginata schlegelii</i> (Karo 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

Family	Species	Subspecies	Measurement	Female		Male		Unknown		Total	
				Mean ± SD (n)	Range	Mean ± SD (n)	Range	Mean ± SD (n)	Range	Mean ± SD (n)	Range
<i>Emarginata tractrac</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
			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
			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
			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 – 65.0
			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)	28.1 – 33.0
			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
<i>Melaenornis fuscalatus</i> (Chat Flycatcher – 663)											
	<i>M. l. benguillensis</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 – 24.9
			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 ± 0.90 (150)	40.5 – 45.7
			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)	24.4 – 51.7
			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 – 91.0
			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)	24.5 – 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)	98.0 – 119.0
<i>Melaenornis mariquensis</i> (Marico Flycatcher – 661)											
	<i>M. m. acaciae</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 – 22.6
			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 – 38.4
			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 – 27.4
			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
			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)	19.1 – 26.1
			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 – 93.0
<i>Melaenornis parmelaina</i> (Southern Black Flycatcher – 664)											
	<i>M. p. polycyma</i>		Culmen	17.2 ± 0 (1)	0 (1)	18.0 ± 0 (1)	0 (1)	18.0 ± 0 (1)	0 (1)	17.6 ± 0.57 (2)	17.2 – 18.0
			Head	37.5 ± 0 (1)	0 (1)	38.7 ± 0 (1)	0 (1)	38.7 ± 0.85 (2)	0 (1)	38.1 ± 0.85 (2)	37.5 – 38.7
			Mass	32.7 ± 0 (1)	0 (1)	28.5 ± 0 (1)	0 (1)	28.5 ± 0.7 (2)	0 (1)	30.6 ± 2.97 (2)	28.5 – 32.7
			Tail	89.0 ± 0 (1)	0 (1)	88.0 ± 0 (1)	0 (1)	88.0 ± 0.71 (2)	0 (1)	88.5 ± 0.71 (2)	88.0 – 89.0
			Tarsus	22.7 ± 0 (1)	0 (1)	22.8 ± 0 (1)	0 (1)	22.8 ± 0.07 (2)	0 (1)	22.8 ± 0.07 (2)	22.7 – 22.8
			Wing	106.0 ± 0 (1)	0 (1)	107.0 ± 0 (1)	0 (1)	106.5 ± 0.71 (2)	0 (1)	106.0 – 107.0	106.0 – 107.0
<i>Monticola brevipes</i> (Short-toed Rock Thrush – 561)											
	<i>M. b. brevipes</i>		Culmen	26.0 ± 0 (1)	0 (1)	25.8 ± 1.07 (8)	24.1 – 27.5	25.9 ± 1.01 (9)	24.1 – 27.5	25.9 ± 1.06 (9)	47.0 – 49.7
			Head	48.3 ± 0 (1)	0 (1)	48.5 ± 1.13 (8)	47.0 – 49.7	48.5 ± 1.06 (9)	47.0 – 49.7	48.5 ± 1.06 (9)	29.3 – 39.0
			Mass	36.2 ± 2.26 (2)	34.6 – 37.8	35.5 ± 3.61 (8)	29.3 – 39.0	35.6 ± 3.28 (10)	29.3 – 39.0	35.6 ± 3.28 (10)	29.3 – 39.0



Family	Species	Subspecies	Measurement	Female		Male		Unknown		Total		
				Mean ± SD (n)	Range	Mean ± SD (n)	Range	Mean ± SD (n)	Range	Mean ± SD (n)	Range	
			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	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	26.2 ± 0.79 (9)	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	104.0 ± 4.27 (10)	98.0 – 110.0	
<i>Muscicapa caerulescens</i> (Ashy Flycatcher – 656)												
<i>M. c. impavida</i>												
			Culmen	16.8 ± 1.38 (3)	15.8 – 18.4	16.3 ± 0 (1)	16.7 ± 1.16 (4)	15.8 – 18.4	16.7 ± 1.16 (4)	15.8 – 18.4	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	35.2 ± 3.14 (4)	33.3 – 39.9	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	16.7 ± 1.09 (4)	15.2 – 17.8	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	63.8 ± 2.75 (4)	61.0 – 67.0	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	18.4 ± 0.5 (4)	18.0 – 19.1	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	79.8 ± 2.75 (4)	77.0 – 83.0	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	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	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	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	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	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	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	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	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	37.1 ± 3.12 (49)	30.2 – 43.8	
			Tail	56.4 ± 2.21 (24)	52.0 – 62.0	59.0 ± 2.85 (27)	53.0 – 66.0	57.8 ± 2.86 (51)	52.0 – 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	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	93.9 ± 3.35 (51)	87.0 – 102.0	
<i>Myrmecocichla monticola</i> (Mountain Wheatear – 564)												
<i>M. m. alimori</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	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	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	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	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	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	105.5 ± 4.49 (161)	89.0 – 117.0	



Family	Species	Subspecies	Measurement	Female		Male		Unknown		Total	
				Mean ± SD (n)	Range						
<i>Namibornis herero</i> (Herero Chat – 660)											
monotypic	Culmen	21.5 ± 0.82 (3)	20.8 – 22.4	22.3 ± 0.06 (3)	22.3 – 22.4	19.1 ± 0.37 (7)	17.2 – 20.8	20.4 ± 1.80 (13)	17.2 – 22.4	39.0 ± 0.88 (13)	39.0 – 41.8
	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 – 41.8	39.0 ± 0.60 (4)	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	15.6 ± 1.12 (4)	15.6 – 16.8
	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	57.0 ± 2.16 (4)	55.0 – 60.0
	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	22.4 ± 0.70 (4)	21.7 – 23.2
	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 – 99.0	72.8 ± 1.26 (4)	71.0 – 74.0
	<i>Oenanthe familiaris</i> (Familiar Chat – 570)										
<i>O. f. galtoni</i>	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)	16.5 – 20.7	37.2 ± 0.75 (36)	35.4 – 38.3
	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)	35.4 – 38.3	17.2 ± 1.61 (38)	13.1 – 21.6
	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)	13.1 – 21.6	60.5 ± 3.01 (41)	54.0 – 70.0
	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	24.4 ± 0.98 (36)	22.8 – 26.5
	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)	22.8 – 26.5	83.9 ± 2.97 (42)	79.0 – 90.0
	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 ± 3.33 (89)	81.0 – 91.4	33.0 – 33.0	33.0 – 33.0
	<i>O. p. pileata</i> (Capped Wheatear – 568)										
<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 – 22.4	40.4 ± 1.06 (88)	38.1 – 42.6
	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)	38.1 – 42.6	23.0 – 27.8	23.0 – 27.8
	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	20.7 (88)	23.0 – 33.0	58.0 ± 3.74 (72)	43.0 – 65.0
	Tail	57.1 ± 2.91 (7)	53.0 – 61.0	59.1 ± 2.92 (36)	53.0 – 65.0	56.8 ± 4.43 (29)	43.0 – 65.0	31.5 ± 1.29 (87)	27.0 – 33.0	31.5 ± 1.29 (87)	27.0 – 34.3
	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 – 31.2	31.5 ± 1.29 (87)	27.0 – 33.0	91.0 ± 3.14 (36)	81.0 – 91.4
	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 – 91.4	33.0 – 33.0	33.0 – 33.0
	<i>Saxicola torquatus</i> (African Stonechat – 576)										
<i>S. t. stonei</i>	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 – 17.0	17.0 ± 0.86 (4)	16.2 – 17.0	33.0 ± 0.60 (4)	32.5 – 33.8
	Head	32.6 ± 0.07 (2)	32.5 – 32.6	33.5 ± 0.42 (2)	33.2 – 33.8	33.0 ± 0.60 (4)	33.0 – 33.0	33.0 ± 0.60 (4)	33.0 – 33.0	15.6 ± 1.12 (4)	14.1 – 16.8
	Mass	15.0 ± 1.20 (2)	14.1 – 15.8	16.3 ± 0.71 (2)	15.8 – 16.8	15.6 ± 1.12 (4)	15.6 – 15.6	57.0 ± 2.16 (4)	55.0 – 57.0	60.0 ± 0.70 (4)	55.0 – 60.0
	Tail	56.0 ± 1.41 (2)	55.0 – 57.0	58.0 ± 2.83 (2)	56.0 – 60.0	56.0 ± 2.16 (4)	56.0 – 56.0	22.4 ± 0.70 (4)	21.7 – 22.4	21.7 ± 0.70 (4)	21.7 – 23.2
	Tarsus	22.2 ± 0.71 (2)	21.7 – 22.7	22.6 ± 0.92 (2)	21.9 – 23.2	23.9 ± 0.54 (13)	23.0 – 23.9	23.9 ± 0.54 (13)	23.0 – 23.9	72.8 ± 1.26 (4)	71.0 – 72.8
	Wing	72.0 ± 1.41 (2)	71.0 – 73.0	73.5 ± 0.71 (2)	73.0 – 74.0	73.0 ± 0.71 (2)	73.0 – 73.0	73.0 ± 0.71 (2)	73.0 – 73.0	91.4 ± 3.33 (89)	81.0 – 91.4
	<i>Nectariniidae</i> (Sunbirds)										
<i>Chalcomitra amethystina</i> (Amethyst Sunbird – 772)	<i>C. a. kirktii</i>	Culmen	24.6 ± 0 (1)	24.6 ± 0 (1)	24.6 ± 0 (1)	24.6 ± 0 (1)	24.6 ± 0 (1)	24.6 ± 0 (1)	24.6 ± 0 (1)	24.6 ± 0 (1)	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 ± 0 (1)	37.2 ± 0 (1)	37.2 ± 0 (1)	37.2 ± 0 (1)	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 ± 0 (1)	9.5 ± 0 (1)	9.5 ± 0 (1)	9.5 ± 0 (1)	9.5 ± 0 (1)



Family	Species	Subspecies	Measurement	Female		Male		Unknown	Range	Mean ± SD (n)	Total
				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>Chalcomitra 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. chalceus</i>	Culmen	22.2 ± 1.01 (7)	20.4 — 23.5	—	—	—	—	23.2 ± 1.29 (28)	20.4 — 26.5
			Head	34.0 ± 0.78 (7)	33.0 — 35.1	—	—	—	—	35.1 ± 1.0 (28)	33.0 — 37.4
			Mass	8.4 ± 0.28 (7)	7.9 — 8.7	—	—	—	—	9.0 ± 0.59 (28)	7.9 — 10.0
			Tail	42.9 ± 1.57 (7)	40.0 — 44.0	—	—	—	—	47.7 ± 3.31 (28)	40.0 — 52.0
			Tarsus	15.7 ± 0.52 (7)	15.0 — 16.3	—	—	—	—	15.6 ± 0.55 (26)	14.6 — 16.8
			Wing	59.7 ± 1.70 (7)	57.0 — 61.0	—	—	—	—	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	—	—	—	—	24.6 ± 1.52 (322)	20.8 — 29.9
			Head	33.5 ± 0.93 (100)	31.0 — 36.8	—	—	—	—	35.2 ± 1.55 (322)	31.0 — 38.5
			Mass	6.7 ± 0.68 (118)	5.0 — 11.0	—	—	—	—	7.5 ± 0.81 (376)	5.0 — 11.0
			Tail	35.3 ± 1.80 (118)	32.0 — 45.0	—	—	—	—	39.2 ± 3.47 (376)	32.0 — 52.0
			Tarsus	16.4 ± 0.97 (97)	14.0 — 22.9	—	—	—	—	17.0 ± 0.88 (313)	14.0 — 22.9
			Wing	53.1 ± 1.55 (118)	49.0 — 58.0	—	—	—	—	56.8 ± 3.44 (377)	37.0 — 65.0
<i>Cinnyris mariquensis</i> (Marico Sunbird – 755)											
		<i>C. m. mariquensis</i>	Culmen	25.6 ± 1.04 (15)	24.0 — 27.0	—	—	—	—	26.0 ± 1.05 (36)	24.0 — 27.8
			Head	36.9 ± 0.87 (17)	35.0 — 38.5	—	—	—	—	37.5 ± 0.96 (38)	35.0 — 39.4
			Mass	9.9 ± 1.08 (17)	6.8 — 11.6	—	—	—	—	10.6 ± 1.30 (39)	6.8 — 14.0
			Tail	43.6 ± 1.80 (17)	41.0 — 48.0	—	—	—	—	46.2 ± 3.27 (38)	41.0 — 53.0
			Tarsus	17.0 ± 0.75 (17)	15.0 — 18.3	—	—	—	—	17.4 ± 0.82 (34)	15.0 — 18.8
			Wing	63.4 ± 1.97 (17)	61.0 — 68.0	—	—	—	—	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
<i>Cinnyris taitana</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>Hedydipna 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, Ploceids)											
<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 (6)	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 (6)	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 (6)	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 (6)	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									
<i>Passer motteensis</i> (Great Sparrow – 785)														
			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	33.2 ± 1.01 (219)	30.2 – 39.6			
			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	29.4 ± 2.34 (249)	20.8 – 38.4			
			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	58.0 ± 2.34 (245)	50.0 – 65.0			
			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	20.6 ± 0.82 (219)	18.5 – 24.2			
			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	82.9 ± 2.81 (250)	69.0 – 99.0			
			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 – 559)											
		mixed ssp	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					
Platysteiridae (Wattle-eyes, Batises)														
			<i>Batis pririt</i> (Pintail Batis – 674)											
			<i>B. p. affinis</i>											
			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					
Lanioturdidae (White-tailed Shrike – 726)														
		monotypic	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					



Family	Species	Subspecies	Measurement	Female		Male		Unknown		Total				
				Mean ± SD (n)	Range	Mean ± SD (n)	Range	Mean ± SD (n)	Range	Mean ± SD (n)	Range			
Ploceidae (Weavers, Widbills)														
	<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 – 41.0	41.0 ± 0 (1)				37.9 ± 1.58 (6)	36.8 – 41.0			
	Mass			44.9 ± 1.99 (5)	42.7 – 58.0	58.0 ± 0 (1)				47.1 ± 5.64 (6)	42.7 – 58.0			
	Tail			74.4 ± 3.78 (5)	70.0 – 81.0	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			28.4 ± 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>Philetairus 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		Unknown		Total		Range
				Mean ± SD (n)	Range	Mean ± SD (n)	Range	Mean ± SD (n)	Range	Mean ± SD (n)	Range	
			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>Plocepasser mahali</i> (White-browed Sparrow-Weaver – 786)												
	<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	
			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	
			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	
			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	
			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	
			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	
<i>P. m. mahali</i>												
			Culmen	21.1 ± 0.84 (27)	18.5 – 23.3	21.2 ± 1.03 (31)	18.8 – 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	
			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	
			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	
			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	
			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	
<i>Ploceus cucullatus</i> (Village Weaver – 797)												
			<i>P. c. nigriceps</i>									
			Culmen	20.6 ± 1.34 (2)	19.6 – 21.5			21.2 ± 0 (1)		20.8 ± 1.02 (3)	19.6 – 21.5	
			Head	35.7 ± 0.21 (2)	35.5 – 35.8			36.8 ± 0 (1)		36.0 ± 0.68 (3)	35.5 – 36.8	
			Mass	32.8 ± 2.47 (2)	31.0 – 34.5			26.8 ± 0 (1)		30.8 ± 3.86 (3)	26.8 – 34.5	
			Tail	53.5 ± 4.95 (2)	50.0 – 57.0			58.0 ± 0 (1)		55.0 ± 4.36 (3)	50.0 – 58.0	
			Tarsus	21.0 ± 0.07 (2)	20.9 – 21.0			24.4 ± 0 (1)		22.1 ± 1.99 (3)	20.9 – 24.4	
			Wing	80.0 ± 1.41 (2)	79.0 – 81.0			78.0 ± 0 (1)		79.3 ± 1.53 (3)	78.0 – 81.0	
<i>Ploceus intermedius</i> (Lesser Masked Weaver – 792)												
			<i>P. i. cabanisi</i>									
			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	
			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	
			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	
			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	
			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	
			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	
<i>Ploceus ocularis</i> (Spectacled Weaver – 791)												
	<i>P. o. crocatus</i>											
			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	
			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	



Family	Species	Subspecies	Measurement	Female		Male		Unknown		Total				
				Mean ± SD (n)	Range	Mean ± SD (n)	Range	Mean ± SD (n)	Range	Mean ± SD (n)	Range			
			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 rubiginosus</i> (Chestnut Weaver – 796)											
			<i>P. r. tristis</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	21.4 ± 1.36 (115)	17.4 – 24.8			
			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	35.7 ± 1.23 (115)	33.1 – 38.2			
			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	30.5 ± 3.35 (203)	21.4 – 38.8			
			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	51.1 ± 3.01 (194)	42.0 – 57.0			
			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	21.8 ± 0.99 (102)	19.7 – 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	79.3 ± 3.39 (195)	72.0 – 90.0			
			<i>Ploceus velatus</i> (Southern Masked Weaver – 803)											
			<i>P. v. cauininus</i>											
			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	18.0 ± 0.95 (193)	14.7 – 20.2			
			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	32.4 ± 0.91 (200)	30.0 – 34.4			
			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	22.7 ± 2.39 (853)	16.9 – 33.0			
			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	50.0 ± 2.92 (787)	39.0 – 63.0			
			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	21.2 ± 1.25 (193)	18.3 – 29.8			
			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	73.4 ± 3.49 (1156)	64.0 – 82.0			
			<i>Ploceus xanthopterus</i> (Holub's Golden Weaver – 801)											
			monotypic											
			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	38.3 ± 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			
			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			
			<i>Ploceus xanthopterus</i> (Southern Brown-throated Weaver – 802)											
			<i>P. x. castaneigula</i>											
			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			
			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	55.2 ± 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	
				Range	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. 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	<b>36.9 ± 1.21 (22)</b>	<b>34.0 – 38.0</b>	<b>37.9 ± 1.95 (43)</b>	<b>33.0 – 43.0</b>	<b>37.4 ± 2.03 (62)</b>	<b>34.0 – 42.0</b>	<b>37.5 ± 1.90 (127)</b>	<b>33.0 – 43.0</b>
			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 – 12.7	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 – 24.0	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	<b>39.1 ± 1.71 (109)</b>	<b>35.0 – 40.0</b>	<b>40.0 ± 1.49 (52)</b>	<b>37.0 – 44.0</b>	<b>39.4 ± 2.20 (187)</b>	<b>30.0 – 51.0</b>	<b>39.4 ± 1.98 (348)</b>	<b>30.0 – 51.0</b>
			Tarsus	15.0 ± 0.29 (8)	14.6 – 15.5	15.9 ± 0 (1)	15.2 – 16.1	15.2 ± 0.56 (32)	14.0 – 16.1	15.1 ± 0.52 (41)	14.0 – 16.1
			Wing	<b>56.7 ± 1.62 (117)</b>	<b>51.0 – 61.0</b>	<b>57.9 ± 1.35 (58)</b>	<b>55.0 – 63.0</b>	<b>56.7 ± 2.16 (237)</b>	<b>49.0 – 72.0</b>	<b>56.8 ± 1.96 (412)</b>	<b>49.0 – 72.0</b>
<i>Pycnonotidae</i> (Bulbul)											
<i>Chlorodrepana flavigaster</i> (Yellow-bellied Greenbul – 550)											
<i>C. f. flavigaster</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>Phyllastrephus terrestris</i> (Terrestrial Brownbul – 544)											
<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
			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
			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
			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
			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
			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
<i>Pycnonotus nigricans</i> (African Red-eyed Bulbul – 544)											
<i>P. n. nigricans</i>			Culmen	20.0 ± 1.22 (5)	18.0 – 24.2	20.3 ± 1.18 (4)	17.5 – 23.8	19.3 ± 1.74 (95)	16.6 – 28.3	19.7 ± 1.55 (191)	16.6 – 28.3
			Head	<b>37.3 ± 1.03 (56)</b>	<b>31.3 – 38.9</b>	<b>38.1 ± 0.85 (41)</b>	<b>36.1 – 39.7</b>	<b>37.6 ± 0.93 (98)</b>	<b>32.9 – 39.6</b>	<b>37.6 ± 0.99 (195)</b>	<b>31.3 – 39.7</b>



Family	Species	Subspecies	Measurement	Female		Male		Unknown		Total	
				Mean ± SD (n)	Range	Mean ± SD (n)	Range	Mean ± SD (n)	Range	Mean ± SD (n)	Range
			Mass	28.8 ± 3.02 (165)	18.2 – 41.7	29.3 ± 2.66 (109)	21.0 – 36.5	28.1 ± 2.58 (333)	20.1 – 38.0	29.0 ± 2.72 (607)	18.2 – 41.7
			Tail	<b>79.5 ± 4.02 (147)</b>	<b>61.0 – 96.0</b>	<b>80.9 ± 3.88 (108)</b>	<b>67.0 – 95.0</b>	<b>80.4 ± 3.52 (307)</b>	<b>69.0 – 92.0</b>	<b>80.2 ± 3.75 (562)</b>	<b>61.0 – 96.0</b>
			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	<b>92.4 ± 3.10 (162)</b>	<b>82.0 – 104.0</b>	<b>95.0 ± 3.22 (112)</b>	<b>87.0 – 108.0</b>	<b>94.1 ± 3.61 (335)</b>	<b>80.0 – 105.0</b>	<b>93.8 ± 3.53 (609)</b>	<b>80.0 – 108.0</b>
Remizidae (Penduline Tits)											
<i>A. m. damarensis</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
			Tarsus	14.4 ± 0.63 (6)	13.5 – 15.1	13.2 ± 0.12	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
Sturnidae (Starlings, Rhabdornis)											
<i>Cinnyricinclus leucogaster</i> (Violet-backed Starling – 736)											
			<i>C. l. verreauxi</i>								
			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
			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
			Mass	<b>35.4 ± 3.22 (36)</b>	<b>26.5 – 43.6</b>	<b>33.9 ± 3.11 (56)</b>	<b>29.0 – 46.4</b>			34.5 ± 3.22 (92)	26.5 – 46.4
			Tail	<b>57.9 ± 2.11 (36)</b>	<b>52.0 – 64.0</b>	<b>60.4 ± 2.03 (57)</b>	<b>55.0 – 65.0</b>			59.4 ± 2.39 (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
			Wing	<b>98.8 ± 3.23 (36)</b>	<b>89.0 – 107.0</b>	<b>102.8 ± 2.35 (57)</b>	<b>97.0 – 108.0</b>			101.3 ± 3.34 (93)	89.0 – 108.0
<i>Creatophora cinerea</i> (Waiteti Starling – 735)											
			monotypic								
			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	<b>64.4 ± 4.06 (28)</b>	<b>56.2 – 75.3</b>	<b>69.6 ± 5.18 (18)</b>	<b>62.0 – 78.9</b>	<b>67.4 ± 4.88 (15)</b>	<b>60.0 – 75.3</b>	<b>66.7 ± 5.06 (61)</b>	<b>56.2 – 78.9</b>
			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
			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	<b>117.3 ± 4.65 (28)</b>	<b>103.0 – 127.0</b>	<b>121.1 ± 2.34 (18)</b>	<b>117.0 – 125.0</b>	<b>118.2 ± 4.89 (15)</b>	<b>112.0 – 127.0</b>	<b>118.6 ± 4.42 (61)</b>	<b>103.0 – 127.0</b>
<i>Lamprotornis australis</i> (Burchell's Starling – 743)											
			monotypic								
			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
			Mass	<b>110.2 ± 16.33 (12)</b>	<b>91.3 – 143.0</b>	<b>122.4 ± 10.21 (11)</b>	<b>107.0 – 134.0</b>	<b>117.2 ± 14.76 (7)</b>	<b>98.0 – 133.0</b>	<b>116.3 ± 14.56 (30)</b>	<b>91.3 – 143.0</b>
			Tail	160.9 ± 11.60 (10)	148.0 – 162.9	158.0 ± 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	
				Range	Mean ± SD (n)	Range	Mean ± SD (n)	Range	Mean ± SD (n)	Range	Mean ± SD (n)
<i>Lamprotornis mevesii</i> (Meves's Starling – 742)											
			Culmen	24.1 ± 0 (1)		22.0 ± 1.81 (36)	18.3 –	26.8	22.1 ± 1.81 (37)	18.3 –	26.8
			Head	49.5 ± 0 (1)		48.5 ± 1.30 (36)	45.4 –	50.5	48.5 ± 1.29 (37)	45.4 –	50.5
			Mass	87.8 ± 0 (1)		74.8 ± 7.86 (37)	62.0 –	94.0	75.1 ± 8.04 (38)	62.0 –	94.0
			Tail	214.0 ± 0 (1)		203.9 ± 13.73 (36)	183.0 –	233.0	204.2 ± 13.64 (37)	183.0 –	233.0
			Tarsus	39.3 ± 0 (1)		38.6 ± 1.62 (35)	35.0 –	42.5	38.6 ± 1.61 (36)	35.0 –	42.5
			Wing	151.0 ± 0 (1)		145.7 ± 6.07 (37)	131.0 –	154.0	145.8 ± 6.05 (38)	131.0 –	154.0
<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
			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
			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
			Tail	83.1 ± 4.05 (67)	74.0 –	98.0 ± 4.86 (23)	75.0 –	93.0	84.2 ± 3.78 (81)	74.0 –	95.0
			Tarsus	32.8 ± 1.42 (61)	29.4 –	36.8 ± 1.43 (21)	31.3 –	36.7	33.0 ± 1.63 (73)	28.6 –	36.5
			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
<i>Onychognathus nabourou</i> (Pale-winged Starling – 744)											
		monotypic	Culmen	28.6 ± 0.83 (4)	27.8 –	29.5 ± 1.28 (4)	27.5 –	30.6	29.3 ± 1.99 (8)	25.5 –	32.5
			Head	54.2 ± 0.70 (4)	53.3 –	55.0 ± 1.52 (4)	53.7 –	57.0	54.4 ± 1.73 (9)	52.1 –	57.6
			Mass	102.8 ± 13.32 (5)	86.6 –	120.0 ± 5.15 (5)	94.3 –	108.0	98.3 ± 10.40 (11)	75.2 –	111.0
			Tail	105.8 ± 6.50 (4)	100.0 –	115.0 ± 2.70 (5)	104.0 –	111.0	106.7 ± 6.10 (11)	99.0 –	119.0
			Tarsus	32.9 ± 0.72 (4)	32.2 –	33.7 ± 1.23 (4)	31.4 –	33.8	33.2 ± 1.77 (9)	30.0 –	35.1
			Wing	143.0 ± 3.16 (4)	139.0 –	146.0 ± 2.17 (5)	143.0 –	149.0	143.6 ± 5.50 (11)	135.0 –	151.0
Sylviidae (Sylvid Babblers)											
		mixed ssp	Culmen	16.3 ± 0 (1)					16.0 ± 0 (1)		16.2 ± 0.21 (2)
			Head	31.3 ± 0.71 (2)	30.8 –	31.8			32.2 ± 0 (1)		31.6 ± 0.72 (3)
			Mass	14.3 ± 0.99 (2)	13.6 –	15.0			13.9 ± 0 (1)		14.2 ± 0.74 (3)
			Tail	59.0 ± 2.83 (2)	57.0 –	61.0			68.0 ± 0 (1)		62.0 ± 5.57 (3)
			Tarsus	21.7 ± 0.49 (2)	21.3 –	22.0			21.7 ± 0 (1)		21.7 ± 0.35 (3)
			Wing	70.0 ± 1.41 (2)	69.0 –	71.0			75.0 ± 0 (1)		71.7 ± 3.06 (3)
Curruca communis (Common Whitethroat – 594)											
			Culmen	15.4 ± 0.81 (61)	13.4 –	17.4 ± 0.73 (38)	13.5 –	16.7	15.3 ± 1.04 (51)	12.8 –	19.0
			Head	31.1 ± 0.90 (61)	25.9 –	32.4 ± 1.69 (38)	30.1 –	41.0	31.3 ± 0.68 (51)	29.6 –	32.8
Curruca subcoerulea (Chestnut-vented Warbler – 658)											
		<i>C. s. cinereiceps</i>	Culmen	15.4 ± 0.81 (61)					16.0 ± 0.21 (2)		16.0 ± 0.21 (2)
			Head	31.1 ± 0.90 (61)					32.2 ± 0 (1)		31.6 ± 0.72 (3)
			Mass	14.3 ± 0.99 (2)					13.9 ± 0 (1)		14.2 ± 0.74 (3)
			Tail	59.0 ± 2.83 (2)					68.0 ± 0 (1)		62.0 ± 5.57 (3)
			Tarsus	21.7 ± 0.49 (2)					21.7 ± 0 (1)		21.7 ± 0.35 (3)
			Wing	70.0 ± 1.41 (2)					75.0 ± 0 (1)		71.7 ± 3.06 (3)



Family	Species	Subspecies	Measurement	Female		Male		Unknown		Total		Range	
				Mean ± SD (n)	Range	Mean ± SD (n)	Range	Mean ± SD (n)	Range	Mean ± SD (n)	Range		
			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>Sylvia borin</i> (Garden Warbler – 595)													
<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	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	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	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	54.0 – 68.0			
			Tarsus	20.3 ± 0 (1)		20.4 ± 0.33 (6)	20.1 – 21.0	20.4 ± 0.31 (7)	20.1 – 21.0	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	75.0 – 87.0			
Turdidae (Thrushes)													
<i>Turdus fuscater</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	58.2 ± 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	
				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	
Vangidae (Vangas and Allies)													
<i>Priotelops plumatus</i> (White-crested Helmetshrike – 727)													
			<i>P. p. teleoma</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		
				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		
Viduidae (Indigobirds, Whydahs)													
<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 (18)	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
			Tarsus	15.1 ± 0 (1)		14.9 ± 0.68 (9)		14.0 ± 15.9		14.9 ± 0.64 (10)	
			Wing	68.0 ± 0 (1)		66.0 ± 1.28 (18)		63.0 ± 68.0		66.1 ± 1.33 (19)	
<i>Vidua macroura</i> (Pin-tailed Whydah – 846)											
monotypic											
	Culmen	11.5 ± 0 (1)		12.2 ± 0.44 (3)	11.7 – 12.5			12.0 ± 0.50 (4)		11.5 – 12.5	
	Head	23.1 ± 0 (1)		24.1 ± 0.29 (3)	23.8 – 24.3			23.9 ± 0.57 (4)		23.1 – 24.3	
	Mass	14.5 ± 0 (1)		13.8 ± 0.49 (3)	13.2 – 14.1	12.2 ± 0 (1)		13.6 ± 0.91 (5)		12.2 – 14.5	
	Tail	41.0 ± 0 (1)		233.0 ± 2.65 (3)	231.0 – 236.0	42.0 ± 0 (1)		156.4 ± 104.91 (5)		41.0 – 236.0	
	Tarsus	15.7 ± 0 (1)		16.8 ± 0.35 (3)	16.5 – 17.2			16.6 ± 0.64 (4)		15.7 – 17.2	
	Wing	65.0 ± 0 (1)		72.7 ± 2.08 (3)	71.0 – 75.0	62.0 ± 0 (1)		69.0 ± 5.34 (5)		62.0 – 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 ± 0.98 (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	
<i>Vidua regia</i> (Shaft-tailed Whydah – 847)											
monotypic											
	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)	68.0 – 74.0	72.5 ± 2.06 (291)		65.0 – 80.0	
Zosteropidae (White-eyes)											
<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	



Family	Species	Subspecies	Measurement	Female		Male		Range	Mean ± SD (n)	Range	Mean ± SD (n)	Range	Mean ± SD (n)	Total	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								12.3 – 14.9
			Head	26.7 ± 0 (1)	25.5 ± 0 (1)	26.6 ± 0.82 (4)	25.6 – 27.6								25.5 – 27.6
			Mass	7.9 ± 0 (1)	9.2 ± 0 (1)	10.9 ± 2.42 (4)	8.9 – 14.3								7.9 – 14.3
			Tail	42.0 ± 0 (1)	43.0 ± 0 (1)	43.3 ± 2.99 (4)	40.0 – 47.0								40.0 – 47.0
			Tarsus	17.5 ± 0 (1)	14.0 ± 0 (1)	15.8 ± 0.25 (4)	15.5 – 16.1								14.0 – 17.5
			Wing	59.0 ± 0 (1)	59.0 ± 0 (1)	60.0 ± 3.16 (4)	56.0 – 63.0								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	Mean ± SD (n)	Range	Mean ± SD (n)					
<i>Acrocephalidae (Reed Warblers and Allies)</i>														
<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)						
							<b>15.5</b>	<b>± 2.1 (3484)</b>						
							32.7	± 1.0 (3203)						
<i>A. s. baeticus</i>	Culmen	Mix	17.4	± 1.02 (189)	14.4	– 20.8	10.4	± 1.0 (894)						
	Head	Mix	32.4	± 1.03 (186)	30.4	– 41.4	<b>10.1</b>	<b>± 0.8 (364)</b>						
	Mass	Female	10.5	± 0.82 (83)	9.0	– 12.8	10.3	± 1.0 (18288)						
	Mass	Male	10.3	± 0.47 (53)	9.5	– 11.2	51.3	± 2.5 (285)						
	Mass	Mix	10.3	± 0.72 (280)	7.0	– 12.8	52.9	± 2.2 (99)						
	Tail	Female	50.9	± 2.56 (81)	41.0	– 56.0	51.9	± 2.6 (5645)						
	Tail	Male	53.4	± 2.54 (50)	47.0	– 64.0	22.5	± 1.3 (2461)						
	Tail	Mix	52.2	± 2.55 (289)	41.0	– 64.0	58.5	± 1.8 (609)						
<i>Acrocephalus palustris</i> (Marsh Warbler – 607)	Tarsus	Mix	22.3	± 0.87 (188)	18.2	– 25.2	59.1	± 1.9 (229)						
	Wing	Female	57.2	± 1.65 (84)	53.0	– 61.0	58.8	± 2.0 (14606)						
	Wing	Male	58.9	± 1.78 (52)	56.0	– 63.0								
	Wing	Mix	58.0	± 1.96 (282)	52.0	– 68.0								
							15.6	± 2.0 (373)						
							33.3	± 2.3 (335)						
							12.4	± 5.4 (1334)						
							52.6	± 5.0 (426)						
monotypic	Culmen	Mix	17.3	± 1.15 (4)	15.6	– 18.1	22.8	± 3.1 (273)						
	Head	Mix	33.0	± 0.22 (4)	32.7	– 33.2	66.6	± 5.4 (1066)						
	Mass	Mix	12.6	± 1.37 (4)	11.3	– 14.0								
	Tail	Mix	53.7	± 3.06 (3)	51.0	– 57.0								
	Tarsus	Mix	22.5	± 0.91 (3)	21.7	– 23.5								
	Wing	Mix	66.3	± 0.50 (4)	66.0	– 67.0								

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)	Range
<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)	
<i>Alaudidae</i> (Larks)										
		<i>Calendulauda 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 (233)	
			Mass	Female	25.7 ± 1.93 (74)	16.8 – 30.4			25.9 ± 3.6 (109)	
			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 ± 3.26 (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	
			Mass	Mix	17.3 ± 1.32 (533)	14.2 – 25.4					
Tail		Female	46.8 ± 2.77 (151)	40.0 – 59.0	41.7 ± (7)	40.0 – 45.0					17.3 ± 1.4 (580)
Tail		Male	48.0 ± 2.99 (38)	42.0 – 54.0	45.6 ± (8)	43.0 – 48.0					46.9 ± 2.5 (129)
Tail		Mix	47.3 ± 2.76 (533)	40.0 – 59.0							47.4 ± 2.5 (30)
Tarsus		Mix	19.6 ± 0.79 (188)	17.0 – 22.2							47.6 (523)
Wing		Female	81.3 ± 2.97 (151)	69.0 – 88.0	79.6 ± (6)	77.0 – 83.0					19.6 ± 7.1 (121)
Wing		Male	83.4 ± 3.05 (38)	78.0 – 88.0	83.0 ± (8)	80.0 – 85.0					87.3 ± 2.6 (129)
Wing		Mix	81.6 ± 3.07 (547)	69.0 – 89.0							83.9 ± 2.4 (29)
											81.4 ± 2.9 (632)
Cisticolidae (Cisticolas and Allies)											
<i>Cisticola juncidis</i> (Zitting Cisticola – 629)											
<i>C. j. terrestris</i>											
			Culmen	Mix	14.3 ± 0.52 (3)	13.7 – 14.6					
Head		Mix	25.4 ± 0.86 (3)	24.6 – 26.3							11.8 ± 1.4 (227)
Mass		Female	7.4 ± 0 (1)								26.2 ± 1.4 (216)
Mass		Male	8.1 ± 0 (1)								9.7 ± 10.2 (82)
Mass		Mix	7.8 ± 0.49 (2)	7.4 – 8.1							10.0 ± 7.7 (93)
Tail		Female	37.0 ± 0 (1)								9.4 ± 6.8 (448)
Tail		Male	35.0 ± 0 (1)								36.8 ± 4.2 (44)
Tail		Mix	35.3 ± 1.53 (3)	34.0 – 37.0							36.0 ± 6.7 (62)
Tarsus		Mix	19.5 ± 0.81 (3)	18.6 – 20.1							37.9 ± 5.4 (238)
Wing		Female	48.0 ± 0 (1)								19.3 ± 1.6 (199)
Wing		Male	53.0 ± 0 (1)								48.6 ± 1.9 (73)
Wing		Mix	51.0 ± 2.65 (3)	48.0 – 53.0							52.9 ± 1.6 (88)
											50.4 ± 2.7 (368)
Cisticola rufilatus (Tinkling Cisticola – 641)											
<i>C. r. rufilatus</i>											
			Mass	Mix	11.5 ± 0 (1)						
Tail		Mix	61.0 ± 0 (1)								12.7 ± 1.8 (40)
Wing		Mix	58.0 ± 0 (1)								52.0 ± 2.8 (15)
											52.9 ± 10.5 (35)
Estrildidae (Waxbills, Munias and Allies)											
<i>Brunhilda erythronotos</i> (Black-faced Waxbill – 841)											
<i>B. e. erythronotos</i>											
			Culmen	Mix	12.3 ± 0.99 (90)	10.0 – 15.0					
Head		Mix	23.1 ± 0.60 (89)	21.4 – 26.7							11.2 ± 5.6 (332)
Mass		Female	9.0 ± 0.76 (92)	7.5 – 12.8	9.0 ± (99)	7.3 – 11.5					22.6 ± 2.0 (323)
Mass		Male	8.9 ± 0.7 (101)	7.8 – 12.5	8.9 ± (73)	7.0 – 11.0					10.7 ± 8.4 (316)
Mass		Mix	9.0 ± 0.73 (229)	7.5 – 12.8							10.1 ± 6.8 (449)
Tail		Female	61.1 ± 2.78 (80)	54.0 – 75.0	58.9 ± (93)	50.0 – 63.0					5.3 (3948) ± 5.6 (88)



Family	Species	Subspecies	Measurement	Sex	Our Paper			Hockey et al. (2005)			Rose et al. (2020) Mean ± SD (n)
					Mean ± SD (n)	Range	Mean ± SD (n)	Range	Mean ± SD (n)	Range	
			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>Lagonosticta 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 (793)	–	
			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>Lagonosticta senegalensis</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)		Range		Mean ± SD (n)	Mean ± SD (n)	
					Mean ± SD (n)	Range	Mean ± SD (n)	Range	Mean ± SD (n)	Range			
<i>Pytilia melba</i> (Green-winged Pytilia – 830)	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 (679)
	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>P. m. melba</i> (Green-winged Pytilia – 830)												
<i>Spermestes cucullata</i> (Bronze Mannkin – 823)	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 (774)
	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>Crithagra albogularis</i> (White-throated Canary – 865)	<i>S. c. 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, Euphonias) 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)
	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>Hirundinidae (Swallows, Martins)</i>										
<i>Cecropis cucullata</i> (Greater Striped Swallow – 502)										
monotypic										
	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 (1382)
	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 – 136.0						121.4 ± 3.8 (754)

Family	Species	Subspecies	Measurement	Sex	Our Paper		Hockey et al. (2005) Mean ± SD (n)	Range	Hockey et al. (2005) Mean ± SD (n)	Range	Rose et al. (2020) Mean ± SD (n)	
						Mean ± SD (n)						
<i>Laniidae</i> (Shrikes)												
	<i>Lanius collaris</i> (Red-backed Shrike – 708)	mixed ssp	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
			Mass	Male	28.2	± 3.97 (34)	23.4	– 47.0	29.5	± (38)	23.8	– 46.0
			Mass	Mix	27.8	± 3.65 (49)	19.7	– 47.0			28.2	± 5.5 (7240)
			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 (581)
			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 (798)
			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)
<i>Leiothrichidae</i> (Laughingthrushes and Allies)												
		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 (50)
			Wing	Mix	112.8	± 2.43 (21)	109.0	– 117			108.9	± 9.4 (147)
<i>Turdoides</i> <i>gymnogenys</i> (Bare-cheeked Babblers – 537)												
		<i>T. g. kaohensis</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. (2005)			Rose et al. (2020) Mean ± SD (n)
						Mean ± SD (n)	Range	Mean ± SD (n)	Range	Mean ± SD (n)	
Turdidae	<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)	24.3	± 2.3 (38)
			Head	Mix	49.5	± 0.58 (6)	48.8 – 50.2	49.5	– 1.1 (32)	49.5	± 1.1 (32)
			Mass	Mix	85.1	± 5.17 (8)	76.3 – 92.0	83.8	– 10.1 (13)	83.8	± 10.1 (13)
			Tail	Mix	112.9	± 4.36 (8)	107.0 – 120.0	112.0	– 4.8 (46)	112.0	± 4.8 (46)
			Tarsus	Mix	36.6	± 0.75 (5)	35.8 – 37.7	36.5	– 1.4 (27)	36.5	± 1.4 (27)
			Wing	Mix	115.9	± 4.91 (8)	106.0 – 123.0	114.8	– 4.4 (93)	114.8	± 4.4 (93)
Malacoptilidae (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)	23.4	± 3.2 (274)
			Head	Mix	46.2	± 1.17 (69)	43.8 – 49.0	47.2	– 9.3 (251)	47.2	– 9.3 (251)
			Mass	Female	46.3	± 2.58 (36)	42.2 – 51.2	57.6	– 46.3 (42)	57.6	– 46.3 (42)
			Male	Male	46.3	± 3.34 (9)	40.3 – 51.5	51.5	– 26.8 (28)	51.5	– 26.8 (28)
			Mass	Mix	46.4	± 2.70 (67)	40.3 – 51.5	47.6	– 13.0 (885)	47.6	– 13.0 (885)
			Tail	Female	102.9	± 5.02 (38)	95.0 – 116.0	98.3	– 16.5 (32)	98.3	– 16.5 (32)
			Tail	Male	103.8	± 5.80 (8)	98.0 – 117.0	96.8	– 13.8 (16)	96.8	– 13.8 (16)
			Tail	Mix	103.3	± 4.75 (67)	95.0 – 117.0	99.7	– 14.1 (311)	99.7	– 14.1 (311)
			Tarsus	Mix	33.2	± 1.06 (67)	30.6 – 35.1	33.4	– 4.8 (234)	33.4	– 4.8 (234)
			Wing	Female	99.4	± 3.96 (38)	92.0 – 114.0	97.0	– (13)	93.0	– 101.0
			Wing	Male	98.6	± 3.75 (9)	92.0 – 103.0	100.0	– (23)	98.0	– 105.0
			Wing	Mix	99.8	± 3.94 (69)	92.0 – 114.0	102.0	– 111.0	104.7	– 15.0 (21)
			<i>L. b. sticturus</i>					98.6	– 6.3 (726)	98.6	– 6.3 (726)
Motacillidae (Wagtails, Pipits)	<i>Laniarius bicolor</i> (Swamp Boubou – 710)		Culmen	Mix	27.3	± 1.71 (9)	23.6 – 29.5	26.2	– 2.0 (35)	26.2	– 2.0 (35)
			Head	Mix	48.6	± 1.49 (9)	47.0 – 51.2	48.7	– 0.9 (27)	48.7	– 0.9 (27)
			Mass	Mix	52.5	± 3.20 (9)	49.0 – 58.7	53.0	– 5.7 (75)	53.0	– 5.7 (75)
			Tail	Mix	105.4	± 3.28 (9)	101.0 – 111.0	105.9	– 2.9 (34)	105.9	– 2.9 (34)
			Tarsus	Mix	34.9	± 1.87 (9)	31.2 – 38.3	34.7	– 1.4 (24)	34.7	– 1.4 (24)
			Wing	Mix	105.3	± 2.92 (9)	102.0 – 111.0	105.2	– 3.6 (63)	105.2	– 3.6 (63)
Anthus trivialis (Tree Pipit – 698)	<i>A. t. trivialis</i>									23.8	– 0.9 (6)

Family	Species	Subspecies	Measurement	Sex	Our Paper		Hockey et al (2005) Mean ± SD (n)	Range	Hockey et al (2005) Mean ± SD (n)	Range	Rose et al.(2020) Mean ± SD (n)
					Mean ± SD (n)	Range					
<b>Muscicapidae (Chats, Old World Flycatchers)</b>											
	<i>Cossypha heuglini</i>										
	<i>Cossypha heuglini</i> (White-browed Robin-Chat – 580)										
		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	34.1 ± 3.7 (111)			41.8 ± 4.6 (248)
		Mass	Male	40.4 ± 4.59 (5)	35.0 – 46.4	37.5 ± (15)	30.5 – 44.0	39.9 ± 3.6 (149)			
		Mass	Mix	38.4 ± 5.40 (17)	24.6 – 46.4						37.0 ± 6.8 (554)
		Tail	Male	96.6 ± 2.61 (5)	92.0 – 98.0	88.0 ± (5)	80.5 – 94.0	92.3 ± 4.7 (50)			
		Tail	Mix	91.9 ± 7.28 (14)	78.0 – 100.0						87.7 ± 7.1 (304)
		Tarsus	Mix	32.4 ± 1.37 (10)	30.5 – 35.2						31.2 ± 1.8 (196)
		Wing	Female	94.5 ± 0.71 (2)	94.0 – 95.0	91.3 ± (12)	89.0 – 94.0	90.6 ± 3.3 (58)			
		Wing	Male	102.8 ± 3.42 (5)	97.0 – 106.0	97.3 ± (13)	90.0 – 103.0	99.1 ± 3.9 (90)			
		Wing	Mix	98.1 ± 5.57 (17)	87.0 – 106.0						92.8 ± 9.3 (657)
	<i>Muscicapa striata</i> (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						
	<i>Namibornis herero</i> (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						
	<i>Nectariniidae</i> (Sunbirds)										
		<i>Cinnyris cupreus</i> (Copper Sunbird – 754)									
		<i>C. c. chalceus</i>									
		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	8.8 ± 0.6 (101)			
		Mass	Male	9.2 ± 0.56 (21)	8.2 – 10.0	10.3 ± (20)	8.6 – 12.5	9.6 ± 0.7 (132)			



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)
			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 mariquensis</i> (Marioco Sunbird – 755)										
<i>C. m. mariquensis</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 (887)
Tarsus	Mix	15.8	± 1.14 (10)	13.9 – 17.8						18.6 ± 10.3 (555)
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	± 1.30 (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 Oriolts, Pipios)										
<i>O. o. oriolus</i> (Eurasian Golden Oriole – 519)	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) Mean ± SD (n)	Range	Hockey et al. (2005) Mean ± SD (n)	Range	Rose et al. (2020) Mean ± SD (n)
					Mean ± SD (n)	Range					
			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)
Paridae (Tit, Chickadees)											
<i>Melaniparus carpi</i> (Carp's Tit – 528)											
monotypic											
			Culmen	Mix	13.5 ± 0.79 (5)	12.5 – 14.5					13.0 ± 1.0 (7)
			Head	Mix	30.2 ± 0.77 (5)	29.0 – 31.0					30.4 ± 0.3 (7)
			Mass	Mix	17.6 ± 1.45 (5)	16.1 – 19.9					18.7 ± 1.6 (75)
			Tail	Mix	66.0 ± 3.74 (5)	63.0 – 71.0					68.7 ± 2.5 (7)
			Tarsus	Mix	19.5 ± 0.54 (5)	19.1 – 20.4					19.7 ± 0.4 (6)
			Wing	Mix	77.8 ± 3.35 (5)	72.0 – 80.0					78.2 ± 3.8 (72)
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)		
			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)		
Phylloscopidae (Leaf Warblers and Allies)											
<i>Phylloscopus trochilus</i> (Willow Warbler – 599)											
mixed ssp											
			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 (81)		
			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)	Range	Mean ± SD (n)
Platysteiridae (Wattle-eyes, Batises)	<i>Lanioturdus torquatus</i> (White-tailed Shrike – 726)	monotypic	Culmen	Mix	23.0 ± 1.08 (12)	20.5 – 25.0	21.5 ± 2.4 (27)	20.3 – 4.5 (689)	42.3 ± 0.9 (33)	42.3 ± 0.9 (33)	46.6 ± 5.1 (263)	46.6 ± 5.1 (263)	42.3 ± 0.9 (33)
			Head	Mix	42.3 ± 1.00 (12)	40.1 – 44.2	42.3 ± 2.1 (131)	27.0 – 2.1 (131)	45.6 ± 2.8 (27)	45.6 ± 2.8 (27)	45.6 ± 2.8 (27)	45.6 ± 2.8 (27)	45.6 ± 2.8 (27)
			Mass	Mix	27.0 ± 1.72 (12)	24.1 – 29.2	27.0 ± 2.1 (131)	27.0 ± 2.1 (131)	82.5 ± 9.2 (272)	82.5 ± 9.2 (272)	82.5 ± 9.2 (272)	82.5 ± 9.2 (272)	82.5 ± 9.2 (272)
			Tail	Mix	45.3 ± 2.20 (11)	42.0 – 48.0	45.6 ± 2.8 (27)	45.6 ± 2.8 (27)	78.0 ± 12.7 (638)	78.0 ± 12.7 (638)	78.0 ± 12.7 (638)	78.0 ± 12.7 (638)	78.0 ± 12.7 (638)
			Tarsus	Mix	30.6 ± 1.06 (12)	29.1 – 32.6	30.4 ± 0.7 (24)	30.4 ± 0.7 (24)	85.8 ± 8.8 (122)	85.8 ± 8.8 (122)	85.8 ± 8.8 (122)	85.8 ± 8.8 (122)	85.8 ± 8.8 (122)
			Wing	Mix	86.3 ± 2.31 (12)	82.0 – 90.0	85.8 ± 2.5 (122)	85.8 ± 2.5 (122)					
Ploceidae (Weavers, Widowbirds)	<i>Bubalornis niger</i> (Red-billed Buffalo Weaver – 779)		Culmen	Mix	26.3 ± 1.56 (76)	21.0 – 29.3	24.1 ± 2.9 (263)	24.1 ± 2.9 (263)					
			Head	Mix	45.9 ± 1.49 (76)	41.0 – 49.1	46.6 ± 5.1 (263)	46.6 ± 5.1 (263)					
			Mass	Female	71.1 ± 6.30 (39)	56.0 – 81.5	71.4 ± (67)	71.4 ± (67)	72.3 ± 7.1 (193)	72.3 ± 7.1 (193)	72.3 ± 7.1 (193)	72.3 ± 7.1 (193)	72.3 ± 7.1 (193)
			Mass	Male	80.8 ± 5.54 (49)	68.4 – 92.0	84.4 ± (109)	84.4 ± (109)	82.5 ± 9.2 (272)	82.5 ± 9.2 (272)	82.5 ± 9.2 (272)	82.5 ± 9.2 (272)	82.5 ± 9.2 (272)
			Mass	Mix	76.5 ± 7.60 (88)	56.0 – 92.0	76.0 ± 12.7 (638)	76.0 ± 12.7 (638)	78.0 ± 12.7 (638)	78.0 ± 12.7 (638)	78.0 ± 12.7 (638)	78.0 ± 12.7 (638)	78.0 ± 12.7 (638)
			Tail	Female	100.6 ± 5.26 (39)	93.0 – 117.0	93.0 ± 10.4 (103)	93.0 ± 10.4 (103)	97.6 ± 10.4 (103)	97.6 ± 10.4 (103)	97.6 ± 10.4 (103)	97.6 ± 10.4 (103)	97.6 ± 10.4 (103)
			Tail	Male	105.8 ± 3.59 (49)	96.0 – 117.0	102.5 ± (49)	102.5 ± (49)	104.4 ± 8.7 (146)	104.4 ± 8.7 (146)	104.4 ± 8.7 (146)	104.4 ± 8.7 (146)	104.4 ± 8.7 (146)
			Tail	Mix	103.5 ± 5.10 (88)	93.0 – 117.0	103.5 ± 9.5 (325)	103.5 ± 9.5 (325)	100.8 ± 9.5 (325)	100.8 ± 9.5 (325)	100.8 ± 9.5 (325)	100.8 ± 9.5 (325)	100.8 ± 9.5 (325)
			Tarsus	Mix	30.6 ± 1.33 (72)	27.3 – 33.3	30.5 ± 2.2 (161)	30.5 ± 2.2 (161)					
			Wing	Female	113.6 ± 3.13 (39)	104.0 – 118.0	114.0 ± (16)	114.0 ± (16)	113.8 ± 3.8 (163)	113.8 ± 3.8 (163)	113.8 ± 3.8 (163)	113.8 ± 3.8 (163)	113.8 ± 3.8 (163)
			Wing	Male	122.3 ± 2.41 (50)	114.0 – 127.0	123.1 ± (60)	123.1 ± (60)	119.8 ± 7.6 (247)	119.8 ± 7.6 (247)	119.8 ± 7.6 (247)	119.8 ± 7.6 (247)	119.8 ± 7.6 (247)
			Wing	Mix	118.5 ± 5.12 (89)	104.0 – 127.0	117.4 ± 8.8 (538)	117.4 ± 8.8 (538)					
			<i>Euplectes afer</i> (Yellow-crowned Bishop – 812)										
			<i>E. a. taha</i>										
			Culmen	Mix	15.1 ± 0.63 (87)	13.7 – 16.5	13.2 ± 1.1 (560)	13.2 ± 1.1 (560)					
			Head	Mix	26.5 ± 0.62 (87)	25.1 – 28.0	27.2 ± 0.9 (356)	27.2 ± 0.9 (356)					
			Mass	Female	13.9 ± 1.22 (60)	12.1 – 17.3	16.4 ± 16.4 ± 10.2 (1084)	16.4 ± 16.4 ± 10.2 (1084)					
			Mass	Male	14.9 ± 0.98 (42)	12.3 – 16.9	16.5 ± 16.8 ± 6.9 (995)	16.5 ± 16.8 ± 6.9 (995)					
			Mass	Mix	14.2 ± 1.21 (108)	12.1 – 17.3	16.5 ± 8.3 (3040)	16.5 ± 8.3 (3040)					
			Tail	Female	1.34 (60)	32.0 – 38.0	31.0 – 39.0	31.0 – 39.0					
			Tail	Male	1.53 (41)	31.0 – 40.0	34.0 – 40	34.0 – 40					
			Tail	Mix	1.59 (107)	31.0 – 40.0	35.8 – 40	35.8 – 40					

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>Euplectes orix</i> (Southern Red Bishop – 808) monotypic	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 – 66	63.7 – 66	62.0 ± 2.0 (695)		
	Wing	Male	62.7 ± 1.77 (41)		59.0 – 67.0	63.0 ± (51)	59.0 – 66		63.7 – 66	63.7 – 66	63.7 ± 1.9 (722)		
	Wing	Mix	61.0 ± 2.20 (107)		55.0 – 67.0						62.8 ± 2.1 (7949)		
	Culmen	Mix	18.5 ± 0.52 (14)		17.1 – 19.4						15.6 ± 3.0 (13089)		
	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 – 26.0	22.2 – 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 – 30.0	26.2 – 30.0	26.2 ± 3.3 (27327)		
	Mass	Mix	23.8 ± 3.23 (38)		18.8 – 32.2						23.9 – 30.0	23.9 – 30.0	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 – 42.0	39.0 – 42.0	39.0 ± 3.6 (9521)		
<i>Philetairus socius</i> (Social Weaver – 733) monotypic	Tail	Male	42.3 ± 1.65 (17)		38.0 – 45.0	40.0 ± (257)	35.0 – 47.0		42.6 – 47.0	42.6 – 47.0	42.6 ± 3.5 (8618)		
	Tail	Mix	40.6 ± 2.45 (39)		34.0 – 45.0						40.7 – 45.0	40.7 – 45.0	40.7 ± 3.9 (24642)
	Tarsus	Mix	21.5 ± 0.96 (14)		19.8 – 22.9						21.5 – 22.9	21.5 – 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 – 72.0	69.2 – 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 – 81.0	74.7 – 81.0	74.7 ± 4.7 (21527)		
	Wing	Mix	72.4 ± 3.48 (43)		64.0 – 79.0						71.6 – 83.0	71.6 – 83.0	71.6 ± 5.0 (60600)
	Culmen	Mix	17.9 ± 1.49 (31)		16.0 – 23.3						16.1 – 23.3	16.1 – 23.3	16.1 ± 1.0 (1136)
	Head	Mix	33.3 ± 0.77 (30)		31.7 – 34.8						35.0 – 37.2	35.0 – 37.2	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 – 32.0	27.5 – 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 – 31.9	27.3 – 31.9	27.3 ± 1.6 (1083)		
<i>Ploceus intermedius</i> (Lesser Masked Weaver – 792) <i>P. i. cabanisi</i> <sup>ii</sup>	Mass	Mix	26.0 ± 2.18 (148)		20.0 – 35.2						27.3 – 35.2	27.3 – 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 – 45.1	44.8 – 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 – 45.5	46.0 – 45.5	46.0 ± 1.6 (171)		
	Tail	Mix	43.8 ± 1.82 (147)		38.0 – 49.0						44.0 – 49.0	44.0 – 49.0	44.0 ± 4.0 (1667)
	Tarsus	Mix	20.1 ± 0.76 (30)		18.5 – 21.9						23.0 – 23.0	23.0 – 23.0	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 – 74.1	76.1 – 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 – 77.8	76.8 – 77.8	76.8 ± 2.0 (490)		
	Wing	Mix	74.0 ± 2.09 (165)		67.0 – 83.0						74.7 – 83.0	74.7 – 83.0	74.7 ± 2.6 (15457)

Family	Species	Subspecies	Measurement	Sex	Our Paper			Hockey et al. (2006)			Rose et al. (2020) Mean ± SD (n)
					Mean ± SD (n)	Range	Mean ± SD (n)	Range	Mean ± SD (n)	Range	
			Mass	Male	22.0 ± 1.53 (45)	18.9 – 26.2	21.4 ± (777)	15.0 – 43.0	22.0 ± 3.9 (1305)	17.0 – 39.0	
			Mass	Mix	20.7 ± 1.97 (86)	16.2 – 26.2			21.0 ± 4.8 (3863)	17.0 – 39.0	
Tail	Female		48.5 ± 1.67 (41)	46.0 – 52.0					47.4 ± 5.0 (508)	42.0 – 57.0	
Tail	Male		50.7 ± 1.98 (45)	47.0 – 56.0					48.6 ± 6.0 (436)	42.0 – 57.0	
Tail	Mix		49.7 ± 2.12 (86)	46.0 – 56.0					48.0 ± 5.7 (1452)	42.0 – 57.0	
Tarsus	Male		21.1 ± 0.72 (65)	19.3 – 22.9					24.8 ± 3.03 (706)	20.0 – 30.0	
Wing	Female		70.5 ± 2.10 (42)	67.0 – 74.0	69.6 ± (112)	65.0 – 78.0	69.7 ± 3.6 (1141)	65.0 – 78.0	69.7 ± 4.0 (977)	65.0 – 78.0	
Wing	Male		73.6 ± 1.63 (45)	70.0 – 78.0	72.8 ± (140)	67.0 – 78.0	72.3 ± 3.9 (3109)	67.0 – 78.0	70.8 ± 3.9 (3109)	67.0 – 78.0	
Wing	Mix		72.1 ± 2.45 (87)	67.0 – 78.0					70.8 ± 3.9 (3109)	67.0 – 78.0	
<i>Ploceus rubiginosus</i> (Chestnut Weaver – 796)											
<i>P. r. trophae</i>											
Culmen	Mix		21.4 ± 1.36 (115)	17.4 – 24.8					20.1 ± 1.6 (148)	17.0 – 24.0	
Head	Mix		35.7 ± 1.23 (115)	33.1 – 38.2					35.7 ± 1.9 (152)	33.0 – 39.0	
Mass	Female		29.2 ± 2.65 (98)	23.6 – 35.5	27.8 ± (55)	25.0 – 30.0	30.7 ± 8.4 (1810)	25.0 – 30.0	30.7 ± 8.4 (1810)	25.0 – 30.0	
Mass	Male		33.6 ± 2.31 (63)	26.9 – 38.8	32.1 ± (39)	28.0 – 37.0	35.7 ± 12.7 (1949)	28.0 – 37.0	35.7 ± 12.7 (1949)	28.0 – 37.0	
Mass	Mix		30.5 ± 3.35 (203)	21.4 – 38.8					32.5 ± 9.9 (5133)	28.0 – 38.0	
Tail	Female		50.2 ± 2.32 (95)	46.0 – 57.0	47.0 ± (29)	45.0 – 49.0	50.4 ± 2.4 (211)	45.0 – 49.0	50.4 ± 2.4 (211)	45.0 – 49.0	
Tail	Male		53.6 ± 2.80 (57)	46.0 – 57.0	52.0 ± (42)	47.0 – 55.0	54.7 ± 2.4 (227)	47.0 – 55.0	54.7 ± 2.4 (227)	47.0 – 55.0	
Tail	Mix		51.1 ± 3.01 (194)	42.0 – 57.0					52.2 ± 3.2 (794)	42.0 – 57.0	
Tarsus	Male		21.8 ± 0.99 (192)	19.7 – 25.1					21.4 ± 1.0 (96)	19.0 – 25.0	
Wing	Female		77.7 ± 2.40 (96)	72.0 – 86.0	78.0 ± (29)	74.0 – 79.0	76.4 ± 5.8 (1826)	74.0 – 79.0	76.4 ± 5.8 (1826)	74.0 – 79.0	
Wing	Male		82.9 ± 2.37 (57)	76.0 – 90.0	84.0 ± (42)	80.0 – 87.0	87.0 ± 8.7 (5316)	80.0 – 87.0	87.0 ± 8.7 (5316)	80.0 – 87.0	
Wing	Mix		79.3 ± 3.39 (195)	72.0 – 90.0					77.3 ± 8.7 (5316)	72.0 – 90.0	
<i>Ploceus xanthops</i> (Holub's Golden Weaver – 801)											
monotypic											
Culmen	Mix		22.2 ± 0.75 (6)	20.9 – 23.0					21.5 ± 1.6 (166)	19.0 – 23.0	
Head	Mix		38.6 ± 0.93 (6)	37.3 – 39.6					39.6 ± 1.3 (155)	37.0 – 41.0	
Mass	Female		38.1 ± 1.24 (4)	36.3 – 39.0					38.9 ± 6.7 (115)	32.0 – 45.0	
Mass	Male		43.8 ± 2.87 (3)	40.6 – 46.2					42.6 ± 5.1 (281)	37.0 – 48.0	
Mass	Mix		40.5 ± 3.56 (7)	36.3 – 46.2					40.7 ± 5.6 (584)	35.0 – 46.0	
Tail	Female		68.3 ± 2.63 (4)	66.0 – 72.0					69.5 ± 5.1 (39)	63.0 – 75.0	
Tail	Male		73.5 ± 1.73 (4)	72.0 – 76.0					71.7 ± 4.2 (84)	65.0 – 78.0	
Tail	Mix		70.9 ± 3.48 (8)	66.0 – 76.0					70.7 ± 4.9 (198)	65.0 – 78.0	
Tarsus	Mix		26.3 ± 1.02 (6)	25.0 – 27.4					25.9 ± 1.4 (147)	22.0 – 29.0	
Wing	Female		88.8 ± 2.87 (4)	87.0 – 93.0					87.6 ± 4.6 (84)	82.0 – 92.0	
Wing	Male		95.3 ± 4.50 (4)	89.0 – 99.0					91.1 ± 4.6 (213)	85.0 – 95.0	
Wing	Mix		92.0 ± 4.93 (8)	87.0 – 99.0					89.4 ± 5.2 (463)	82.0 – 98.0	



Family	Species	Subspecies	Measurement	Sex	Our Paper			Hockey et al. (2005) Mean ± SD (n)	Range	Hockey et al. (2005) Mean ± SD (n)	Range	Rose et al. (2020) Mean ± SD (n)
						Mean ± SD (n)	Range					
<i>Quielea quielea</i> (Red-billed Quelea – 805)												
	<i>Q. q. lathamii</i>		Culmen	Mix	15.9	± 0.77 (20)	14.5 – 17.4					
			Head	Mix	27.5	± 1.12 (21)	23.5 – 29.3					
			Mass	Female	17.8	± 1.71 (75)	14.7 – 23.0	18.7 ± (419)	14.5 – 25.0	18.5	± 2.8 (3439)	
			Mass	Male	17.8	± 1.85 (71)	13.6 – 22.3	19.6 ± (1164)	15.0 – 26.5	19.4	± 3.6 (9367)	
			Mass	Mix	17.6	± 1.73 (224)	13.4 – 23.0			18.9	± 3.0 (12456)	
			Tail	Female	36.9	± 1.21 (22)	34.0 – 38.0	36.0 ± (12)	33.0 – 39.0	37.1	± 3.5 (43587)	
			Tail	Male	37.9	± 1.95 (43)	33.0 – 43.0	38.0 ± (12)	36.0 – 40.0	37.9	± 3.3 (2807)	
			Tarsus	Mix	37.5	± 1.90 (127)	33.0 – 43.0			37.5	± 3.4 (9093)	
			Wing	Female	65.3	± 2.83 (26)	60.0 – 74.0	64.0 ± (12)	62.0 – 67.0	64.4	± 2.3 (2977)	
			Wing	Male	66.3	± 1.99 (44)	62.0 – 71.0	66.0 ± (12)	63.0 – 69.0	65.9	± 4.3 (7450)	
			Wing	Mix	65.6	± 2.22 (136)	60.0 – 74.0			65.2	± 5.4 (10730)	
Sturnidae (Starlings, Rhabdornis)												
	<i>Cinnyricinclus leucogaster</i> (Violet-backed Starling – 736)											
		<i>C. l. verreauxi</i>	Culmen	Mix	18.8	± 1.04 (85)	16.9 – 22.5					
			Head	Mix	38.5	± 0.88 (85)	36.3 – 40.9					
			Mass	Female	35.4	± 3.22 (36)	26.5 – 43.6	44.7 ± (10)	39.0 – 56.0	39.5	± 1.4 (217)	
			Mass	Male	33.9	± 3.11 (56)	29.0 – 46.4	44.4 ± (10)	39.0 – 50.0	42.2	± 6.8 (233)	
			Mass	Mix	34.5	± 3.22 (92)	26.5 – 46.4			40.8	± 6.6 (377)	
			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					
			Head	Mix	49.4	± 1.29 (59)	46.2 – 53.2					
			Mass	Female	64.4	± 4.06 (28)	56.2 – 75.3	71.5 ± (53)	51.0 – 83.0	49.3	± 1.4 (215)	
			Mass	Male	69.6	± 5.18 (18)	62.0 – 78.9	74.5 ± (67)	64.0 – 85.0	75.8	± 6.2 (646)	
			Mass	Mix	66.7	± 5.06 (61)	56.2 – 78.9			72.6	± 8.0 (513)	
			Tail	Female	68.3	± 3.22 (27)	62.0 – 73.0	68.0 ± (11)	65.0 – 73.0	66.5	± 8.5 (2108)	
			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
	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) monotypic										
	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 ± 14.99 (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) monotypic										
	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 (71)	
	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 (686)	
<i>Lamprotornis nitens</i> (Cape Starling – 737) monotypic										
	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)		Range	Mean ± SD (n)	Mean ± SD (n)	Range	Mean ± SD (n)	Range	Mean ± SD (n)
					Mean ± SD (n)	Range	Hockey et al. (2005)	Rose et al. (2020)							
<b>Onychognathus nabourou</b> (Pale-winged Starling – 744)															
monotypic															
Culmen	Mix		29.1 ± 1.55 (16)		25.5 – 32.5										
Head	Mix		54.6 ± 1.52 (17)		52.1 – 57.6										
Mass	Mix		99.8 ± 9.93 (21)		75.2 – 120.0										
Tail	Mix		107.0 ± 5.37 (20)		99.0 – 119.0										
Tarsus	Mix		33.0 ± 1.42 (17)		30.0 – 35.1										
Wing	Mix		144.1 ± 4.43 (20)		135.0 – 151.0										
<b>Sylviidae (Sylviad Babblers)</b>															
<i>Curruca communis</i> (Common Whitethroat – 594)															
mixed ssp															
Culmen	Mix		16.2 ± 0.21 (2)		16.0 – 16.3										
Head	Mix		31.6 ± 0.72 (3)		30.8 – 32.2										
Mass	Female		14.3 ± 0.99 (2)		13.6 – 15.0										
Mass	Mix		14.2 ± 0.74 (3)		13.6 – 15.0										
Tail	Female		59.0 ± 2.83 (2)		57.0 – 61.0										
Tail	Mix		62.0 ± 5.57 (3)		57.0 – 68.0										
Tarsus	Mix		21.7 ± 0.35 (3)		21.3 – 22.0										
Wing	Female		70.0 ± 1.41 (2)		69.0 – 71.0										
Wing	Mix		71.7 ± 3.06 (3)		69.0 – 75.0										
<b>Turdidae (Thrushes)</b>															
<i>Turdus litsitsirupa</i> (Groundscraper Thrush – 557)															
mixed ssp															
Culmen	Mix		31.0 ± 1.93 (20)		27.5 – 34.0										
Head	Mix		57.1 ± 1.65 (20)		54.8 – 61.2										
Mass	Female		73.2 ± 5.79 (7)		65.4 – 80.5										
Mass	Male		72.8 ± 6.04 (12)		65.6 – 84.9										
Mass	Mix		73.2 ± 5.47 (26)		65.4 – 84.9										
Tail	Female		69.7 ± 2.50 (7)		66.0 – 73.0										
Tail	Male		71.6 ± 3.95 (10)		65.0 – 78.0										
Tail	Mix		70.7 ± 4.04 (24)		63.0 – 78.0										
Tarsus	Mix		36.7 ± 1.22 (20)		34.5 – 39.8										
Wing	Female		126.3 ± 2.50 (7)		123.0 – 129.0										
Wing	Male		130.4 ± 3.23 (12)		126.0 – 137.0										
Wing	Mix		129.2 ± 3.71 (26)		123.0 – 137.0										



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)	Range				
<i>Viduidae (Indigobirds, Whydans)</i>														
<i>Vidua macroura</i> (Pin-tailed Whydah – 846)														
	monotypic		Culmen	Mix	12.0 ± 0.50 (4)	11.5 – 12.5			10.2 ± 1.0 (545)					
	Head	Mix	23.9 ± 0.57 (4)	23.1 – 24.3					23.8 ± 0.7 (467)					
Mass	Female	14.5 ± 0 (1)			14.9 ± (18)	13.4 – 15.9			14.6 ± 1.2 (1108)					
Mass	Male	13.8 ± 0.49 (3)	13.2 – 14.1		15.5 ± (18)	13.8 – 17.8			15.6 ± 1.2 (1014)					
Mass	Mix	13.6 ± 0.91 (5)	12.2 – 14.5						15.1 ± 1.3 (2802)					
Tail	Female	41.0 ± 0 (1)			50.6 ± (18)	47.0 – 55.0			49.5 ± 7.8 (298)					
Tail	Male	233.0 ± 2.65 (3)	231.0 – 236.0						103.2 ± 77.0 (338)					
Tail	Mix	156.4 ± 104.91 (5)	41.0 – 236.0						70.0 ± 54.4 (904)					
Tarsus	Mix	16.6 ± 0.64 (4)	15.7 – 17.2						17.0 ± 1.1 (346)					
Wing	Female	65.0 ± 0 (1)			66.8 ± (17)	66.0 – 68.0			69.2 ± 2.4 (824)					
Wing	Male	72.7 ± 2.08 (3)	71.0 – 75.0		71.2 ± (33)	67.0 – 76.0			72.6 ± 2.6 (804)					
Wing	Mix	69.0 ± 5.34 (5)	62.0 – 75.0						70.6 ± 3.0 (2106)					
<i>Vidua paradisaea</i> (Long-tailed Paradise Whydah – 852)														
	monotypic		Culmen	Mix	14.3 ± 0.99 (9)	12.4 – 16.1			12.2 ± 1.2 (23)					
	Head	Mix	26.2 ± 1.22 (9)	23.3 – 27.4					26.2 ± 0.7 (25)					
Mass	Female	19.8 ± 4.01 (4)	13.8 – 22.2		19.0 ± (98)	15.8 – 24.7			20.6 ± 2.1 (618)					
Mass	Male	19.1 ± 1.16 (4)	17.4 – 19.8		21.8 ± (102)	18.5 – 29.3			23.0 ± 2.1 (643)					
Mass	Mix	19.2 ± 2.52 (10)	13.8 – 22.2						21.7 ± 2.4 (7569)					
Tail	Female	50.3 ± 10.79 (3)	38.0 – 58.0		55.5 ± (27)	50.0 – 65.0			67.3 ± 41.8 (12)					
Tail	Male	155.2 ± 92.10 (4)	60.0 – 241.0						196.0 ± 88.7 (132)					
Tail	Mix	98.2 ± 78.37 (9)	38.0 – 241.0						174.8 ± 95.5 (157)					
Tarsus	Mix	17.2 ± 1.10 (9)	15.0 – 19.0						17.0 ± 0.4 (18)					
Wing	Female	78.5 ± 4.65 (4)	72.0 – 83.0		75.7 ± (35)	73.0 – 79.0			78.0 ± 1.7 (607)					
Wing	Male	79.8 ± 1.50 (4)	78.0 – 81.0		78.6 ± (246)	74.0 – 82.0			81.1 ± 1.7 (601)					
Wing	Mix	79.2 ± 2.97 (10)	72.0 – 83.0						79.5 ± 2.3 (1482)					
<i>Vidua regia</i> (Shaft-tailed Whydah – 847)														
	monotypic		Culmen	Mix	12.9 ± 0.73 (177)	10.4 – 15.0			12.1 ± 1.4 (145)					
	Head	Mix	24.2 ± 0.43 (182)	22.6 – 25.2					24.1 ± 0.5 (146)					
Mass	Female	13.9 ± 1.06 (135)	11.0 – 18.2		13.8 ± (67)	11.9 – 15.5			15.0 ± 5.3 (350)					
Mass	Male	14.9 ± 1.18 (145)	11.6 – 19.5		14.8 ± (49)	11.9 – 16.9			15.9 ± 4.4 (352)					
Mass	Mix	14.4 ± 1.20 (309)	11.0 – 19.5						15.2 ± 4.0 (1104)					
Tail	Female	42.0 ± 2.44 (120)	36.0 – 56.0		41.9 ± (14)	40.0 – 43.0			42.7 ± 20.1 (92)					

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>Zosteropidae</i> (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 (387)	
<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. baeticatus</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>Ammannopsis 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 africanaoides</i> (Fawn-coloured Lark - 459)	Smith, A. 1836	<i>C. a. horei</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 subcoronata</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 albostriata</i> (Spike-heeled Lark - 474)	Lafresnaye, 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 - 455)	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. ghansiensis</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>Calamonastes 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>	Zelitz, 1911	62	61	56	57	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> (Zitting 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 icteropygialis</i> (Yellow-bellied Eremomela - 600)	Lafresnaye, 1839	<i>E. i. icteropygialis</i>	Lafresnaye, 1839	34	34	34	29	30	30	32
Cisticolidae (Cisticolas and Allies)	<i>Eremomela icteropygialis</i> (Yellow-bellied Eremomela - 600)	Lafresnaye, 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. baumgarti</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. etoshae</i>	Winterbottom, 1965	3	3	1	3	3	3	3
Cisticolidae (Cisticolas and Allies)	<i>Prinia flavigans</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 flavigans</i> (Black-chested Prinia - 650)	Vieillot, 1821	<i>P. f. nubilosa</i>	Clancey, 1957	100	96	94	81	81	81	96
Cisticolidae (Cisticolas and Allies)	<i>Prinia subflava</i> (Tawny-flanked Prinia - 649)	Gmelin, J.F. 1789	<i>P. s. beccarianae</i>	Macdonald, 1941	10	10	8	10	10	10	10
Cisticolidae (Cisticolas and Allies)	<i>Dicrurus adsimilis</i> (Fork-tailed Drongo - 517)	Bechstein, 1794	<i>D. a. apivorus</i>	Clancey, 1976	50	50	49	45	46	46	50
Cisticolidae (Cisticolas and Allies)	<i>Emberiza capensis</i> (Cape Bunting - 873)	Linnaeus, 1766	<i>E. c. bradfieldi</i>	Roberts, 1928	100	100	99	83	83	83	97
Cisticolidae (Cisticolas and Allies)	<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
Cisticolidae (Cisticolas and Allies)	<i>Emberiza impetuani</i> (Lark-like Bunting - 871)	Smith, A. 1836	<i>E. i. impetuani</i>	Smith, A. 1836	599	492	446	115	123	125	565
Cisticolidae (Cisticolas and Allies)	<i>Emberiza tahapisi</i> (Cinnamon-breasted Bunting - 872)	Smith, A. 1836	<i>E. t. nivenerorum</i>	Winterbottom, 1965	60	59	58	47	47	47	58
Cisticolidae (Cisticolas 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_ssp	Record Count	Wing	Tail	Tarsus	Culmen	Head	Mass
Estrildidae (Waxbills, Munias and Allies)	<i>Anadina 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>Braunhilda erythronotos</i> (Black-faced Waxbill - 841)	Vieillot, 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 rhodoparetra</i> (Jameson's Firefinch - 835)	Hegi, 1868	<i>L. r. jamesoni</i>	Shelley, 1882	10	11	9	9	9	9	11
Estrildidae (Waxbills, Munias and Allies)	<i>Lagonosticta senegalensis</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>Oryzopsis atricollis</i> (Quailfinch - 844)	Vieillot, 1817	<i>O. a. bradfieldi</i>	Roberts, 1929	23	8	8	0	0	0	23
Estrildidae (Waxbills, Munias and Allies)	<i>Ptililia meiba</i> (Green-winged Pytilia - 850)	Linnaeus, 1758	<i>P. m. meiba</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 angolensis</i> (Blue Waxbill - 839)	Linnaeus, 1758	<i>U. a. angolensis</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. sordidiae</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 spp	NA	814	734	674	211	227	231	767
Fringillidae (Finches, Euphonias)	<i>Crithagra atricollis</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 atricollis</i> (Black-throated Canary - 860)	Smith, A. 1836	<i>C. a. semideserti</i>	Roberts, 1932	152	146	142	80	72	81	148
Fringillidae (Finches, Euphonias)	<i>Crithagra flaviventris</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>Semnornis leucolaema</i> (Damara Canary - 4102)		<i>S. a. leucolaema</i>	Sharpe, 1903	7	7	7	6	5	6	6
Hirundinidae (Swallows, Martins)	<i>Cercopsis cucullata</i> (Greater Striped Swallow - 502)	Boddart, 1783	monotypic	NA	6	6	6	6	6	6	6
Hirundinidae (Swallows, Martins)	<i>Hirundo ustica</i> (Barb Swallow - 493)	Linnaeus, 1758	<i>H. r. rusticica</i>	Linnaeus, 1758	26	23	9	2	3	2	25
Hirundinidae (Swallows, Martins)	<i>Phonoprogne 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>Phonoprogne 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 anguitimens</i> (Southern White-crowned Shrike - 730)	Smith, A. 1836	<i>E. a. anguitimens</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. aridiculus</i>	Clancey, 1955	123	123	118	106	113	113	118
Laniidae (Shrikes)	<i>Lanius collaris</i> (Red-backed Shrike - 708)	Linnaeus, 1758	mixed spp	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
Leiothrichidae (Laughingthrushes and Allies)	<i>Turdoides bicolor</i> (Southern Pied Babbler - 536)	Jardine, 1831	monotypic	NA	21	21	19	21	21	21	21
Leiothrichidae (Laughingthrushes and Allies)	<i>Turdoides gymnogenys</i> (Bare-cheeked Babbler - 537)	Hartlaub, 1865	<i>T. g. kaalensis</i>	Roberts, 1937	7	7	7	7	7	7	7
Leiothrichidae (Laughingthrushes and Allies)	<i>Turdoides hartlaubii</i> (Hartlaub's Babbler - 535)	Barboza du Bocage, 1868	mixed spp	NA	8	8	8	5	6	6	8
Leiothrichidae (Laughingthrushes and Allies)	<i>Turdoides hartlaubii</i> (Hartlaub's Babbler - 535)	Hartlaub, 1865	<i>T. h. grisequamatus</i>	Clancey, 1974	6	6	6	6	6	6	5
Leiothrichidae (Laughingthrushes and Allies)	<i>Turdoides 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
Leiothrichidae (Laughingthrushes and Allies)	<i>Turdoides jardinei</i> (Arrow-marked Babbler - 533)	Smith, A. 1836	<i>T. j. tamalakaniei</i>	Meyer de Schauensee, 1932	13	13	12	13	13	13	11
Leiothrichidae (Laughingthrushes and Allies)	<i>Turdoides melanops</i> (Black-faced Babbler - 534)	Hartlaub, 1867	<i>T. m. melanops</i>	Hartlaub, 1867	2	2	2	2	2	2	2
Leiothrichidae (Laughingthrushes and Allies)	<i>Turdoides melanops</i> (Black-faced Babbler - 534)	Hartlaub, 1867	<i>T. m. querulus</i>	Clancey, 1979	1	1	1	1	1	1	0
Macrosphenidae (Crombecs, African Warblers)	<i>Sylvietta rufigularis</i> (Long-billed Crombec - 621)	Viellot, 1817	<i>S. r. fleckii</i>	Reichenow, 1900	7	7	5	2	2	3	7
Macrosphenidae (Crombecs, African Warblers)	<i>Sylvietta rufigularis</i> (Long-billed Crombec - 621)	Viellot, 1817	<i>S. r. ochrocara</i>	Oberholser, 1905	34	34	33	32	32	32	34
Malacoptonidae (Bushshrikes)	<i>Dyoscopus cubla</i> (Black-backed Puffback - 712)	Latham, 1801	<i>D. c. okavangensis</i>	Roberts, 1932	6	5	5	5	5	5	5
Malacoptonidae (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
Malacoptonidae (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_ssp	Record Count	Wing	Tail	Tarsus	Culmen	Head	Mass
Malacoptinidae (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
Malacoptinidae (Bushshrikes)	<i>Nilaeus afer</i> (Brubru - 731)	Latham, 1801	<i>N. a. brabru</i>	Latham, 1801	8	8	7	7	8	8	8
Malacoptinidae (Bushshrikes)	<i>Tchagra australis</i> (Brown-crowned Tchagra - 714)	Smith, A. 1836	<i>T. a. damarensis</i>	Reichenow, 1915	21	19	21	21	21	21	20
Malacoptinidae (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
Malacoptinidae (Bushshrikes)	<i>Telophorus 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 cinnamomeus</i> (African Pipit - 692)	Rüppell, 1840	<i>A. c. grotei</i>	Niehamner, 1957	14	14	13	14	14	14	14
Motacillidae (Wagtails, Pipits)	<i>Anthus leucophrys</i> (Plain-backed Pipit - 694)	Veillot, 1818	<i>A. l. tephridorsus</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. leucocrocepsodon</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	56	22	23	23	23	58
Muscicapidae (Chats, Old World Flycatchers)	<i>Certhotrichas leucophrus</i> (White-browed Scrub Robin - 588)	Veillot, 1817	<i>C. l. zambeziana</i>	Sharpe, 1882	10	9	10	10	10	10	10
Muscicapidae (Chats, Old World Flycatchers)	<i>Certhotrichas 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 trachac</i> (Trachac Chat - 571)	Wilkes, 1817	<i>E. t. albicans</i>	Wahlberg, 1855	64	62	63	63	63	63	63
Muscicapidae (Chats, Old World Flycatchers)	<i>Melaenornis infrascutus</i> (Chat Flycatcher - 663)	Smith, A. 1839	<i>M. i. benguelliensis</i>	Sousa, 1886	154	154	151	151	150	150	150
Muscicapidae (Chats, Old World Flycatchers)	<i>Melaenornis 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>Melaenornis parvirostris</i> (Southern Black Flycatcher - 664)	Stanley, 1814	<i>M. p. polioptyna</i>	Lawson, 1964	2	2	2	2	2	2	2
Muscicapidae (Chats, Old World Flycatchers)	<i>Monticola brevipes</i> (Short-toed Rock Thrush - 561)	Waterhouse, 1838	<i>M. b. brevipes</i>	Waterhouse, 1838	10	10	9	9	9	9	10
Muscicapidae (Chats, Old World Flycatchers)	<i>Muscicapa caerulea</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 spp	NA	27	27	26	27	27	27	26
Muscicapidae (Chats, Old World Flycatchers)	<i>Myrmecocichla formicivora</i> (Ant-eating Chat - 575)	Wilkes, 1817	<i>M. f. minor</i>	Roberts, 1932	51	51	50	50	50	50	49
Muscicapidae (Chats, Old World Flycatchers)	<i>Myrmecocichla monticola</i> (Mountain Wheatear - 564)	Gmelin, JF, 1789	<i>M. m. atrorii</i>	Tristram, 1869	161	161	156	146	147	149	151
Muscicapidae (Chats, Old World Flycatchers)	<i>Namilornis 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. chalceus</i>	Hartlaub, 1862	28	28	28	28	28	28	28
Nectariniidae (Sunbirds)	<i>Cinnyris fuscus</i> (Dusky Sunbird - 764)	Veillot, 1819	<i>C. f. fuscus</i>	Veillot, 1819	383	377	313	322	322	322	376
Nectariniidae (Sunbirds)	<i>Cinnyris mariquensis</i> (Marico Sunbird - 755)	Smith, A. 1836	<i>C. m. mariquensis</i>	Smith, A., 1836	39	38	34	36	38	38	39
Nectariniidae (Sunbirds)	<i>Cinnyris talatala</i> (White-bellied Sunbird - 763)	Smith, A. 1836	monotypic	NA	11	11	10	11	11	11	11
Nectariniidae (Sunbirds)	<i>Hedydipna collaris</i> (Collared Sunbird - 771)	Veillot, 1819	<i>H. c. zambeziana</i>	Shelley, 1876	4	4	2	4	4	4	4
Oriolidae (Figbirds, Orioles, Tumagras)	<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 capito</i> (Carp's Tit - 528)	Macdonald & Hall, BP, 1957	monotypic	NA	5	5	5	5	5	5	5
Paridae (Tits, Chickadees)	<i>Melaniparus cinereascens</i> (Ashy Tit - 514)	Veillot, 1818	<i>M. c. cinereascens</i>	Veillot, 1818	27	26	24	24	25	25	27



Family	Species	Authority_spp	Subspecies	Authority_ssp	Record Count	Wing	Tail	Culmen	Head	Mass
Paridae (Tits, Chickadees)	<i>Melaniparus niger</i> (Southern Black Tit - 527)	Vieillot, 1818		<i>M. n. xanthostomus</i>	1	1	1	1	1	1
Passeridae (Old World Sparrows, Snowfinches)	<i>Passer diffusus</i> (Southern Grey-headed Sparrow - 4142)	Smith, A. 1836		<i>P. d. diffusus</i>	628	500	473	89	92	94
Passeridae (Old World Sparrows, Snowfinches)	<i>Passer griseus</i> (Northern Grey-headed Sparrow - 3852)	Vieillot, 1817		<i>P. g. ugandae</i>	8	9	9	9	9	9
Passeridae (Old World Sparrows, Snowfinches)	<i>Passer melanurus</i> (Cape Sparrow - 786)	Müller, PL S., 1776		<i>P. m. damarensis</i>	1740	1377	1087	110	155	177
Passeridae (Old World Sparrows, Snowfinches)	<i>Passer motitensis</i> (Great Sparrow - 785)	Smith, A. 1836		<i>P. m. motitensis</i>	252	250	245	219	218	219
Phylloscopidae (Leaf Warblers and Allies)	<i>Phylloscopus trochilus</i> (Willow Warbler - 59)	Linnaeus, 1758	mixed ssp	NA	31	31	30	27	28	29
Platysteiridae (Wattle-eyes, Batises)	<i>Batis pririt</i> (Pruit Batis - 674)	Vieillot, 1818		<i>B. p. affinis</i>	47	47	46	47	47	47
Platysteiridae (Wattle-eyes, Batises)	<i>Lanioturdus torquatus</i> (White-tailed Shrike - 726)	Waterhouse, 1838		monotypic	NA	12	12	11	12	12
Amblyospizidae (Thick-billed Weavers - 804)	<i>Amblyospiza albifrons</i> (Thick-billed Weaver - 804)	Vigors, 1831		<i>A. a. maxima</i>	6	6	6	6	6	6
Bubalornithidae (Buffalo Weavers - 779)	<i>Bubalornis niger</i> (Red-billed Buffalo Weaver - 779)	Smith, A. 1836		<i>B. n. niger</i>	89	89	88	72	76	88
Euplectesidae (after Yellow-crowned Bishop - 812)	<i>Euplectes afer</i> (Yellow-crowned Bishop - 812)	Gmelin, J.F. 1789		<i>E. a. taha</i>	109	107	107	87	87	108
Euplectesidae (onyx (Southern Red Bishop - 808))	<i>Euplectes orix</i> (Southern Red Bishop - 808)	Linnaeus, 1758		monotypic	43	43	39	14	14	15
Philetairidae (Sociable Weaver - 783)	<i>Philetairus socius</i> (Sociable Weaver - 783)	Latham, 1790		monotypic	NA	166	147	30	31	30
Phoenicopasseridae (White-browed Sparrow-Weaver - 780)	<i>Phoenicopasser mahali</i> (White-browed Sparrow-Weaver - 780)	Smith, A. 1836		<i>P. m. ansorgei</i>	202	183	180	94	92	201
Phoenicopasseridae (White-browed Sparrow-Weaver - 780)	<i>Phoenicopasser mahali</i> (White-browed Sparrow-Weaver - 780)	Smith, A. 1836		<i>P. m. mahali</i>	95	94	86	54	58	57
Phoeniculusidae (Village Weavers - 797)	<i>Phoeniculus cucullatus</i> (Village Weaver - 797)	Müller, PL S., 1776		<i>P. c. nigricans</i>	3	3	3	3	3	3
Phoeniculusidae (Lesser Masked Weaver - 792)	<i>Phoeniculus intermedius</i> (Lesser Masked Weaver - 792)	Rüppell, 1845		<i>P. i. cabanisi</i>	87	87	86	65	65	86
Phoeniculusidae (Spectacled Weaver - 791)	<i>Phoeniculus ocularis</i> (Spectacled Weaver - 791)	Smith, A. 1828		<i>P. o. croatus</i>	5	5	5	5	5	5
Phoeniculusidae (Chestnut Weaver - 796)	<i>Phoeniculus rubiginosus</i> (Chestnut Weaver - 796)	Rüppell, 1840		<i>P. r. trothae</i>	Reichenow, 1905	207	195	194	102	115
Phoeniculusidae (Southern Masked Weaver - 803)	<i>Phoeniculus velatus</i> (Southern Masked Weaver - 803)	Vieillot, 1819		<i>P. v. cauinus</i>	1175	1156	787	193	193	200
Phoeniculusidae (Holub's Golden Weaver - 801)	<i>Phoeniculus xanthopterus</i> (Holub's Golden Weaver - 801)	Hartlaub, 1862		<i>P. x. castaneigula</i>	NA	8	8	6	6	7
Phoeniculusidae (Southern Brown-throated Weaver - 802)	<i>Phoeniculus xanthopterus</i> (Southern Brown-throated Weaver - 802)	Hartlaub & Finsch, 1870		<i>Cabanis, 1884</i>	61	61	54	10	12	12
Querulaidae (Red-billed Quelea - 805)	<i>Querula quelea</i> (Red-billed Quelea - 805)	Linnaeus, 1758		<i>Q. q. lathamii</i>	Smith, A. 1836	229	136	127	21	21
Sporophopidae (Scaly-feathered Weaver - 789)	<i>Sporophopidae squamifrons</i> (Scaly-feathered Weaver - 789)	Smith, A. 1836		<i>S. s. squamifrons</i>	524	412	348	41	42	41
Chlorocichlidae (Yellow-bellied Greenbul - 550)	<i>Chlorocichla flaviventris</i> (Yellow-bellied Greenbul - 550)	Smith, A. 1834		<i>C. f. flaviventris</i>	26	26	22	26	26	26
Phyllastrephidae (Terrestrial Brownbul - 546)	<i>Phyllastrephus terrestris</i> (Terrestrial Brownbul - 546)	Swainson, 1837		<i>P. t. rhodesiae</i>	Roberts, 1917	9	9	9	9	9
Pycnonotidae (African Red-eyed Bulbul - 544)	<i>Pycnonotus nigricans</i> (African Red-eyed Bulbul - 544)	Vieillot, 1818		<i>P. n. nigricans</i>	Vieillot, 1818	635	609	562	190	191
Anthoscopidae (Cape Penduline Tit - 531)	<i>Anthoscopus minutus</i> (Cape Penduline Tit - 531)	Shaw, 1812		<i>A. m. damarensis</i>	Reichenow, 1905	12	12	12	12	12
Cinnycircinidae (Violet-backed Starling - 736)	<i>Cinnycircinidae leucogastra</i> (Violet-backed Starling - 736)	Boddaert, 1783		<i>C. l. verreauxi</i>	Finsch & Hartlaub, 1870	93	93	85	85	85
Creobaphidae (Wattled Starling - 735)	<i>Creobaphora cinerea</i> (Wattled Starling - 735)	Meuschen, 1787		monotypic	NA	61	59	59	58	59
Lamprotornisidae (Burchell's Starling - 743)	<i>Lamprotornis australis</i> (Burchell's Starling - 743)	Smith, A. 1836		<i>L. m. mevesii</i>	Wahlberg, 1856	38	38	37	36	37
Lamprotornisidae (Meves's Starling - 742)	<i>Lamprotornis mevesii</i> (Meves's Starling - 742)	Linnaeus, 1766		monotypic	NA	176	175	171	155	157
Sturnidae (Starlings, Rhabdornis)	<i>Sturnus vulgaris</i> (Cape Starling - 737)	Daudin, 1800		monotypic	NA	21	20	20	17	16
Sturnidae (Starlings, Rhabdornis)	<i>Onychognathus naevius</i> (Pale-winged Starling - 744)	Latham, 1787		mixed ssp	NA	3	3	3	2	3
Sturnidae (Starlings, Rhabdornis)	<i>Curruca communis</i> (Common Whitethroat - 594)	Vieillot, 1817		<i>C. s. chinorensis</i>	Reichenow, 1902	168	167	164	145	150
Sturnidae (Starlings, Rhabdornis)	<i>Curruca subcoerulea</i> (Chestnut-vented Warbler - 658)	Boddaert, 1783		<i>S. b. woodwardi</i>	Sharpe, 1877	8	8	7	7	8
Sylviidae (Sylvid Babblers)	<i>Sylvia borin</i> (Garden Warbler - 595)	Smith, A. 1836		mixed ssp	NA	26	26	24	20	20
Turdidae (Thrushes)	<i>Turdus iliacus</i> (Groundscraper Thrush - 557)	Shaw, 1809		<i>P. p. talacoma</i>	Smith, A. 1836	10	10	9	10	10
Vangidae (Vangas and Allies)	<i>Prionops plumatus</i> (White-crested Helmetshrike - 727)									



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, PLS, 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	4	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