

11. *S. personata*.

*Plumage*: lightly streaked and mottled on back, below plain grey-brown on chest, rufous on belly. *Face* boldly patterned with black, forming a mask. *Bill* yellowish-horn. *Legs and feet* flesh white (data from Dean, in prep.).

12. *E. starki*.

*Plumage*: streaked above, below whitish, plain or lightly streaked. *Face* not patterned, but has bold white eye-ring. *Bill* whitish-horn. *Legs and feet* pinkish-white. *Song-flight* is complex: ascends into the air singing a simple mellow song 'prrr prrr preee preee prrr prrr preee preee . . .' until it reaches a height of 6–10 m (even up to 200 m according to Willoughby 1971), where it continues to sing for several minutes as it hovers into the wind before dropping straight down to the ground. *The nest* is a cup of grass in a scrape, lacking both apron and ramp (data from Maclean 1970, Willoughby 1971).

13. *E. dunni*.

*Plumage*: lightly streaked on back, almost plain, whitish below, streaked dark on chest. *Face* boldly patterned, with dark brown to black moustachial and malar stripes and surround to cheeks, and white eye-ring. *Bill* yellowish-white. *Legs and feet* pale flesh. *Song-flight* is complex: rises into the wind to height of 30–50 m, and sings while remaining more or less in one place, swinging from side to side with slow, lazy wing-beats, effecting a floppy appearance. At end of song-flight it drops to the ground. The song is a series of short rambling phrases, given both in song-flight and on the ground. *The nest* is a scrape lined with fresh vegetation (data from de Naurois 1974, Cramp 1988).

## Weights of birds collected in the Mutare Municipal Area, Zimbabwe

by H. D. Jackson

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The Mutare Municipal Area, occupying c. 158 km<sup>2</sup>, extends from c. 18°56' to 19°02'S, and from c. 32°32' to 32°42'E, so adjoining the Mozambique border. Altitude varies from c. 915 to 1740 m a.s.l. and there is a diversity of habitat ranging from moist montane evergreen forest in the northeast to dry *Acacia* thornveld in the southwest. The Mutare Museum has been conducting an avifaunal survey of this area, the results being reported in a series of papers by Jackson (1972, 1976, 1986, 1987a, 1987b, 1988).

Most of the birds collected were weighed on a triple-beam balance, usually to the nearest decigram. This paper provides a synthesis of the weight data, obtained from 2809 individuals of 209 species. Maclean (1985) gives no weights for 31 (\*\*) of these species and less than 10 weights each for another 59 (\*).

Mutare mean weights tend to be lighter than those given by Maclean (1985) for the whole of southern Africa, often more than 10% lighter (<), sometimes more than 25% so (≤). This is in agreement with Bergmann's Rule that, among the forms of a polytypic species, body-size tends to be larger in cooler parts of the total range and smaller in the warmer parts (Thomson 1964). Weight data in Maclean (1985) are unfortunately lumped geographically, except for the following species, all of which support Bergmann's Rule (mean weights in grams):

*Anas smithii*: Cape ♂♂ 688, ♀♀ 598; Transvaal ♂♂ 603, ♀♀ 572

*Charadrius pecuarius*: Cape 42.6; Transvaal 34

*C. tricolor*: Cape 34; Transvaal 31.2

*Tringa stagnatilis* (Palearctic visitor): Cape 75.1; Transvaal 58

*Laniarius ferrugineus*: South Africa ♂♂ 60.2, ♀♀ 57.5; Mozambique ♂♂ 50, ♀♀ 44.7

*Telophorus zeylonus*: South Africa 64.8; Zimbabwe/Mozambique border in the cool montane zone of the Chimanimani Mountains 69.0

*Sporopipes squamifrons*: Transvaal 12.4; Botswana 10.3

*Serinus sulphuratus*: Cape 28.7; Natal 25.8; Zimbabwe 21.1

*S. gularis*: Cape 22.7; Transvaal 20.1; Zimbabwe 15.2

The Cape to Zimbabwe cline accounts for the lightweight Mutare data, where *Coturnix delegorguei* is about the only species that apparently does not conform. Future revisions of *Roberts' Birds of Southern Africa* should take more notice of this cline.

In those species where at least 5 weights are available for each sex, the difference in mean weights between the sexes has been subjected to Student's t-test, the statistical significance being shown in brackets immediately after the species name. Breeding ♀♀ are not included in these comparisons as their increased weight could mask the true difference between the sexes. The results generally support Maclean's (1985) data, except for the *Cossypha* spp, where ♂♂ are clearly heavier than ♀♀, but Maclean lumps them together.

In the list that follows weights in grams are given by age (J = skull not fully ossified) and sex (o = indeterminate). Where 5 or more weights are available in any category, the mean, standard deviation and range are given. The diameter of the largest oocyte is shown in brackets immediately after the weight of a ♀ in breeding condition (B). Nomenclature and order follow Maclean (1985). DOR = Dead on road.

\**Phalacrocorax carbo* ♂ 1700

\*\**Ciconia abdimii* ♀ 1517

\**Anastomus lamelligerus* ♀ 1016

⋈*Phoenicopterus ruber* o 1538

⋈\**P. minor* ♀ 960

*Milvus migrans* ♂ 698

\*\**Aviceda cuculoides* o 296

⋈\**Aquila verreauxii* ♂ 3000

*Kaupifalco monogrammicus* 5♂♂ 239.6 ± 12.4 (220–254); ♀♀ 277/285/342; oo 238/308/332

*Accipiter ovampensis* o 249

\**A. minullus* ♂♂ 75.3/76.1; ♀ 101.2

*A. badius* ♀♀ 122/124

*A. tachiro* 5♂♂ 195.4 ± 18.0 (168–217.5); ♀♀ 302/381/394

< \**Polyboroides typus* o 636

< *Falco tinnunculus* o 154

> \**Coturnix delegorguei* ♂♂ 79.2/81.3/82.9/90.6; 8♀♀ 83.3 ± 7.5 (72.2–93.3)

\**C. adansonii* ♂ 46.6

*Numida meleagris* ♀ 1429

< \**Turnix sylvatica* ♂♂ 28.0/35.8; ♀ 32.8

\*\**Crex egregia* ♂ 121

\**Sarothrura rufa* ♀ 29.4

\*\**S. boehmi* ♀ 21.4

\*\**Porphyrylla alleni* ♂♂ 132/134; ♀ 117

\**Gallinula angulata* ♀ 92.4

< \**Rostratula benghalensis* ♀ 110

*Gallinago media* ♂ 126

\*\**Rhinoptilus chalcopterus* ♂♂ 160/168; ♀ 135

- Chlidonias leucopterus* o 43.1  
*Turtur chalcospilos* (n.s.) 6♂♂ 65.9 ± 6.3 (58.5–77.0); 5♀♀ 60.3 ± 6.7 (50.2–68.8); B♀♀ 50.4 (3 mm)/65.7 (4 mm)  
*T. tympanistria* ♂♂ 63.4/63.4/68.2/72.5; ♀♀ 63.8/65.5/66.7/82.5; B♀♀ 70.6 (3 mm)/70.6 (3 mm); J♂♂ 65.0/71.8  
 < \* *Aplopelia larvata* ♂ 146  
 \* *Treron calva* ♀ 215; B♀ 269 (2 mm)  
 \* *Cuculus gularis* ♀ 104  
 \* *C. solitarius* ♀♀ 66.5/66.5; o 70.0  
 \*\* *Chrysococcyx klaas* ♂♂ 26.4/27.4; o 38.6  
*C. caprius* ♀♀ 33.8/37.3  
 \* *Centropus senegalensis* ♀ 141  
*C. superciliosus* ♂ 168  
 \* *Strix woodfordii* ♂ 270.7  
 \*\* *Otus senegalensis* ♀♀ 60.1/61.6; o 49.2  
 < *Bubo africanus* ♂♂ 540/751; 5♀♀ 628 ± 113.9 (446–729); oo 623/713; J♀ 612  
 \* *Caprimulgus europaeus* ♂♂ 56.7/57.0/60.2; ♀ 74.0; oo 38.3 (DOR)/52.4  
 \* *C. pectoralis* (n.s.) 5♂♂ 45.0 ± 5.7 (37.4–51.7); 5♀♀ 47.2 ± 4.6 (41.2–53.2); B♀ 52.2 (2 mm); oo 42.7/43.8/45.6/49.7; J♂ 32.7  
 \*\* *C. tristigma* o 65.7  
 \* *C. fossii* ♂♂ 39.0/57.0; 7♀♀ 53.3 ± 10.1 (38.5–68.3); oo 32.8/40.0/45.6  
*Macrodipteryx vexillaria* (n.s.) 9♂♂ 73.9 ± 8.5 (61.0–85.9); 13♀♀ 65.8 ± 11.3 (40.2–83.1); oo 61.3/72.2; J♂ 49.7  
 < *Apus affinis* o 18.0  
 < \* *A. aequatorialis* ♂ 59.7; ♀ 73.0  
 < \* *Cypsiurus parvus* B♀ 14.3 (2 mm); o 8.6 (DOR)  
*Colius striatus* ♂♂ 42.4/44.6/45.4/52.3; ♀♀ 38.4/44.2/46.5/46.7; B♀♀ 54.0 (2 mm)/55.7 (20 × 13 mm)  
*C. indicus* ♂♂ 58.4/66.8; ♀♀ 48.4/51.5  
 < *Alcedo cristata* ♀ 15.1  
*Ispidina picta* (n.s.) 20♂♂ 13.8 ± 1.3 (11.8–17.2); 13♀♀ 13.5 ± 1.2 (11.1–15.4); B♀ 15.8 (2 mm); oo 11.3/16.0  
 < \* *Halcyon senegalensis* ♂ 61.8  
*H. albiventris* (n.s.) 9♂♂ 55.7 ± 3.8 (49.6–61.5); 6♀♀ 59.3 ± 7.2 (45.6–65.5); J♀ 51.4  
*H. leucocephala* ♂♂ 33.6/39.8/42.4/58.1; o 43.4; 5J♂♂ 34.3 ± 3.6 (29.3–39.5); J♀♀ 33.3/38.2  
*H. chelicuti* ♂ 42.7  
*Merops pusillus* ♂♂ 11.0/12.4/14.7; ♀♀ 12.5/14.1/16.0/17.2; o 9.6  
*M. hirundineus* ♂ 22.5  
 \* *Coracias garrulus* ♀ 136  
 \* *C. naevia* ♂♂ 157/167  
 \*\* *Tockus alboterminatus* ♂ 234  
*Lybius torquatus* (n.s.) 14♂♂ 51.1 ± 2.7 (47.9–56.3); 14♀♀ 50.9 ± 2.2 (47.1–54.7); B♀ 50.8 (2 mm); oo 44.0/44.0/48.3  
 \* *Stactolaema whytii* ♂♂ 51.3/52.9/54.8; 7♀♀ 49.0 ± 7.7 (34.1–59.5)  
 < *Pogoniulus chrysoconus* ♂♂ 11.3/12.4/12.7/14.2; ♀♀ 11.4/12.3; J♀ 12.6  
*P. bilineatus* ♂♂ 11.8/13.1/13.1; ♀♀ 13.8/15.1/16.6; o 13.7  
 < *Trachyphonus vaillantii* ♀ 61.6  
*Indicator indicator* ♂ 49.7  
 \*\* *I. variegatus* ♂♂ 47.8/49.1; ♀♀ 35.6/47.3; B♀♀ 52.7 (3½ mm)/53.5 (5 mm); o 57.0  
*I. minor* 6♂♂ 28.8 ± 1.5 (26.5–30.5); ♀♀ 24.1/27.8/28.2  
 > *Prodotiscus regulus* ♂ 17.6  
*Campethera abingoni* ♂ 63.2; ♀ 64.6  
 < *Thripas namaquus* ♀ 61.7  
 \*\* *Smithornis capensis* 6♂♂ 23.7 ± 1.8 (21.0–26.1); ♀♀ 17.4/21.8/23.9; J♂ 23.9  
 \* *Mirafra africana* ♂ 42.1; J♂ 28.2  
 \*\* *M. rufocinnamomea* ♂ 26.0  
*Hirundo rustica* ♂ 16.8  
 \* *Delichon urbica* ♂ 19.8  
 \* *Pseudhirundo griseopyga* oo 9.7/9.8  
*Psolidoprocne orientalis* ♂ 11.9  
 \* *Campephaga flava* ♂♂ 31.6/32.9

- << \**Dicrurus adsimilis* ♂♂ 38.1/39.6/42.4; ♀ 23.7  
 \**Oriolus auratus* o 79.4  
 < \**O. larvatus* ♂♂ 59.6/63.3; o 59.3  
*Corvus albus* 5♀♀ 519.2 ± 62.2 (421–581)  
 \*\**C. albicollis* ♀ 865; o 762  
 < *Parus niger* ♂♂ 19.7/19.8/19.8/21.0; ♀♀ 17.2/17.7/18.5  
 \**Anthoscopus caroli* ♂ 6.5; ♀♀ 6.2/6.9  
 \*\**Turdoides jardineii* ♂ 70.6; ♀ 56.3  
*Pycnonotus barbatus* (p < 0.001) 50♂♂ 40.4 ± 2.3 (35.4–44.7); 30♀♀ 36.7 ± 2.9 (29.3–42.3); 6B♀♀ (2 mm) 37.0 ± 3.9 (31.9–42.6); B♀♀ 38.6/39.8 (3 mm)/42.4 (4 mm)/40.7 (5 mm)/37.8 (6 mm)/41.1 (9 mm)/44.3 (12 mm)/44.8 (22 × 14½ mm)/41.8 (25 × 16 mm); o 35.0; J♂ 32.0; 5J♀♀ 35.2 ± 2.1 (33.3–38.6)  
*Phyllastrephus terrestris* (p < 0.001) 51♂♂ 33.9 ± 2.7 (29.5–40.5); 40♀♀ 28.5 ± 2.4 (24.3–33.3); B♀♀ 30.4 (8 mm)/30.5 (3 mm)/30.8 (2 mm)/35.3 (6 mm); 8 oo 30.5 ± 3.4 (27.0–37.3); J♂ 35.5; J♀♀ 25.4/27.1/30.9; Jo 27.7  
*P. flavostriatus* (p < 0.001) 15♂♂ 33.9 ± 2.5 (30.8–39.8); 7♀♀ 25.4 ± 2.3 (21.4–28.0)  
*Andropadus importunus* ♂♂ 31.2/31.3; ♀♀ 24.3/24.8/24.8/28.6; B♀♀ 25.6 (3 mm)/25.7 (2½ mm); J♀♀ 25.5/25.7  
*A. milanjensis* (p < 0.001) 40♂♂ 38.7 ± 2.7 (34.6–45.9); 18♀♀ 36.1 ± 2.4 (32.8–40.8); 12B♀♀ 38.0 ± 2.3 (35.3–43.9) (2–6 mm)  
*Chlorocichla flaviventris* (p < 0.001) 21♂♂ 42.0 ± 3.8 (34.5–51.2); 12♀♀ 36.9 ± 2.5 (31.9–39.6); B♀♀ 36.2 (2 mm)/39.4 (2½ mm)/39.4 (8 mm); J♂♂ 39.2/40.2; Jo 34.7  
 < *Turdus libonyana* ♂♂ 46.2/52.3/59.4/64.5; ♀♀ 50.8/59.3; J♀ 64.3; Jo 59.3  
 << *T. olivaceus* ♂♂ 61.8/62.5  
*Cercomela familiaris* ♂ 21.0; ♀ 19.5  
 \**Thamnolaea cinnamomeiventris* ♀ 46.7  
*Saxicola torquata* ♂ 15.8; ♀ 13.5  
*Cossypha heuglini* (p < 0.001) 14♂♂ 37.5 ± 3.7 (30.5–44.1); 10♀♀ 32.3 ± 1.9 (29.1–35.9); B♀♀ 34.1 (2 mm)/34.6 (5 mm)/41.9 (23 × 17 mm); oo 26.7/27.6; J♂ 32.4; J♀♀ 25.3/30.7/33.1  
 \**C. natalensis* (p < 0.001) 25♂♂ 31.5 ± 2.4 (28.3–39.8); 14♀♀ 28.7 ± 2.3 (24.4–33.0); B♀ 30.3 (3 mm); J♂♂ 28.2/29.4/32.9/35.6; J♀ 31.4  
*C. caffra* ♂♂ 27.7/28.1/28.9; ♀♀ 22.7/23.8/24.3/25.9  
*C. humeralis* (p < 0.01) 14♂♂ 22.4 ± 1.5 (20.2–24.7); 8♀♀ 20.1 ± 1.5 (19.0–23.1); B♀ 25.8 (2 mm); o 24.1; J♂♂ 19.3/20.1/22.6  
*Pogonocichla stellata* 6♂♂ 21.2 ± 2.9 (16.7–24.2); ♀ 22.1; o 17.6; 6Joo 20.0 ± 1.1 (18.0–21.1)  
 \*\**Pinarornis plumosus* ♂ 65.8  
 < *Erythropygia leucophrys* (n.s.) 14♂♂ 17.0 ± 2.1 (12.9–20.3); 5♀♀ 16.0 ± 1.1 (15.0–17.9); J♂ 18.6; J♀♀ 17.0/22.1  
*E. quadrivirgata* (n.s.) 20♂♂ 26.6 ± 2.4 (23.4–30.7); 12♀♀ 25.6 ± 2.9 (21.2–31.2); B♀ 26.2 (12 mm); J♂ 26.4; J♀ 23.6  
*Sylvia borin* (n.s.) 36♂♂ 19.5 ± 2.6 (15.3–29.2); 22♀♀ 18.5 ± 1.5 (15.1–21.2); J♂ 19.5  
 \*\**Hyliota australis* ♂ 12.4; ♀ 12.3  
*Acrocephalus palustris* ♂♂ 11.2/11.5/12.9; ♀♀ 10.4/11.7/12.8  
*Phylloscopus trochilus* (n.s.) 6♂♂ 9.1 ± 2.2 (7.1–13.2); 14♀♀ 8.0 ± 0.8 (6.6–9.3); oo 6.4/7.3/7.5; J♂♂ 8.2/9.7; J♀♀ 8.3/8.8/8.9  
*Apalis thoracica* (n.s.) 10♂♂ 10.1 ± 0.8 (9.1–11.3); 13♀♀ 9.9 ± 0.9 (8.3–11.5); oo 9.2/9.6/9.8; J♂ 10.5; J♀ 9.6  
*A. chirindensis* ♂♂ 7.6/7.9/8.1/8.9; B♀ 7.5 (2 mm)  
 \**A. flavida* ♀♀ 7.3/7.4  
 \*\**Sylvietta whytii* 5♂♂ 10.0 ± 0.5 (9.1–10.4); ♀♀ 9.7/10.1; B♀ 9.2 (2 mm); o 10.0; J♀ 10.1  
*S. rufescens* 6♂♂ 11.3 ± 0.8 (10.1–12.7); ♀♀ 9.2/10.9/12.4  
 \**Eremomela icteropygialis* ♂ 7.6; ♀ 7.0  
 \*\**E. scotops* ♂ 9.2  
*Camaroptera brachyura* (p < 0.05) 20♂♂ 10.8 ± 0.7 (9.2–12.1); 13♀♀ 10.2 ± 0.7 (9.1–11.5); B♀ 9.0 (2 mm)/9.7 (2 mm); o 8.2  
 \*\**C. stierlingi* ♂♂ 12.3/13.4/14.0; ♀ 13.1; J♀ 10.6; Joo 10.7/11.5/12.1/13.9  
*Sphenoeacus afer* ♂♂ 32.3/51.5(?); ♀ 28.3; B♀ 33.7 (oviduct egg broken)  
*Cisticola lais* ♂♂ 13.4/14.0/15.6; ♀ 10.8  
*C. chiniana* ♂ 19.6; ♀ 12.8; o 12.4  
 \**C. cantans* ♂♂ 11.1/12.1/12.6; B♀ 10.2 (2 mm); o 10.2

- < *C. erythrops* ♂♂ 13.7/14.9/16.4; ♀♀ 12.2/12.6/12.7/14.2  
 \* *C. natalensis* ♂ 24.8; ♀ 15.7; o 14.5  
*C. aberrans* 8♂♂  $15.3 \pm 0.9$  (14.1–16.9); ♀♀ 12.4/12.7/13.9  
*C. fulvicapilla* ♂♂ 8.4/9.1; B♀ 8.1 (4 mm); J♂♂ 8.5/8.6/9.4  
 \*\* *Heliolais erythroptera* ♂♂ 12.4/13.0; ♀♀ 10.6/12.0/12.3  
*Prinia subflava* (n.s.) 7♂♂  $9.3 \pm 0.7$  (8.1–10.2); 5♀♀  $8.5 \pm 0.9$  (7.1–9.6); B♀♀ 8.3 (5 mm)/10.4 (14 × 10 mm); Jo 8.8  
*P. robertsi* ♂ 9.5; ♀ 8.3  
*Muscicapa striata* ♂♂ 13.6/14.7/16.0; ♀♀ 14.1/14.1; o 13.9; J♀ 17.7  
 \* *M. adusta* ♀ 9.6  
 \*\* *M. caeruleus* 7♂♂  $17.4 \pm 1.2$  (15.2–18.4); ♀♀ 16.3/16.4/16.4; J♂♂ 15.2/18.4; J♀ 13.8  
 \*\* *Melaenornis pallidus* ♂♂ 22.3/23.2; ♀ 21.1  
*Batis capensis* (n.s.) 13♂♂  $11.5 \pm 1.3$  (9.3–14.2); 16♀♀  $11.2 \pm 1.0$  (9.6–12.9); o 11.3; J♂ 11.4; Joo 10.4/10.9/11.4/11.5  
 < *B. molitor* (n.s.) 6♂♂  $10.3 \pm 1.0$  (9.1–11.7); 7♀♀  $10.1 \pm 0.7$  (9.3–11.2); oo 9.0/11.9; J♂♂ 10.0/10.2; J♀ 9.9; Jo 10.1  
 \* *Trochocercus albonotatus* ♂♂ 8.2/8.3; ♀ 7.0; oo 7.1/7.1/7.9  
 < *Terpsiphone viridis* 9♂♂  $13.3 \pm 1.1$  (11.1–14.7); ♀♀ 11.6/12.7/13.6; o 12.6; J♂♂ 12.4/13.8  
 \* *Anthus similis* ♂♂ 23.8/25.1  
 \*\* *A. vaalensis* ♀ 29.7  
*A. lineiventris* ♂♂ 30.3/34.8; ♀♀ 31.8/34.8  
 \* *A. trivialis* ♀♀ 21.4/21.7  
*Lanius collaris* ♂♂ 39.8/41.4; ♀ 41.2; J♂♂ 29.2/30.0/38.4; J♀♀ 35.6/38.4; Jo 20.3  
*L. collurio* ♂♂ 24.1/32.8; ♀♀ 24.5/27.4; o 30.2  
 \* *Laniarius aethiopicus* ( $p < 0.05$ ) 8♂♂  $51.2 \pm 4.3$  (42.4–55.5); 6♀♀  $46.3 \pm 3.9$  (40.1–50.3); B♀ 51.1 (2 mm)  
 \* *Dryoscopus cubla* ( $p < 0.002$ ) 12♂♂  $27.4 \pm 1.8$  (23.6–29.8); 11♀♀  $24.9 \pm 1.5$  (23.2–28.7); B♀ 30.8 (8 mm); J♂♂ 24.1/25.6/28.7/30.8; J♀♀ 20.6/26.6  
 \* *Nilais afer* J♀ 22.5  
*Tchagra australis* 9♂♂  $34.9 \pm 5.3$  (30.6–45.8); ♀ 31.1; B♀♀ 29.6 (3 mm)/32.9 (6 mm); J♂ 29.3; J♀ 30.9  
 \* *T. senegala* B♀ 61.8 (12 mm); J♀ 54.6  
 \* *Telophorus quadricolor* 5♂♂  $36.5 \pm 4.5$  (29.6–40.5); ♀♀ 37.5/37.8; J♀ 32.7; Jo 33.8  
*T. sulfureopectus* ♂♂ 27.8/28.5; ♀♀ 25.1/27.8/30.2  
 \* *T. olivaceus* 5♂♂  $34.4 \pm 2.8$  (31.1–37.9); ♀♀ 26.2/28.1/32.4/36.1; B♀ 35.8 (2 mm)  
 \*\* *Malaconotus blanchoti* ♂ 75.9; ♀ 72.3  
*Prionops plumatus* ( $p < 0.05$ ) 16♂♂  $31.9 \pm 2.6$  (27.3–35.8); 17♀♀  $34.4 \pm 3.4$  (29.7–40.7); B♀ 39.2 (7 mm); J♂♂ 26.1/33.8/38.7; J♀ 31.4  
*P. retzii* ♂♂ 37.9/42.5; ♀♀ 46.4/46.7  
 \* *Cinnyricinclus leucogaster* ♂♂ 39.5/48.2; ♀♀ 45.5/55.6  
 \*\* *Onychognathus morio* ♂ 125; ♀ 146; o 120  
 < *Nectarinia famosa* 5♂♂  $15.3 \pm 1.0$  (14.3–16.5); ♀♀ 11.5/12.4/15.0  
 \* *N. kilimensis* ♂ 18.0  
*N. manoensis* ( $p < 0.002$ ) 15♂♂  $9.8 \pm 1.0$  (8.4–12.8); 8♀♀  $8.4 \pm 0.8$  (7.4–9.3); oo 8.6/8.7; J♂ 8.5; J♀ 8.9  
*N. venusta* (n.s.) 27♂♂  $7.0 \pm 0.7$  (5.4–9.0); 15♀♀  $6.7 \pm 0.8$  (5.3–8.5); 5B♀♀  $6.4 \pm 0.6$  (5.6–7.1) (2–2½ mm); 9oo  $6.9 \pm 0.8$  (6.0–8.1); J♂♂ 6.7/6.9; J♀♀ 6.5/7.4  
*N. talatala* ♂♂ 6.7/8.0; ♀ 6.0  
*N. olivacea* ( $p < 0.001$ ) 20♂♂  $10.5 \pm 0.8$  (9.2–12.4); 19♀♀  $9.4 \pm 0.7$  (8.0–10.5); 8B♀♀  $9.8 \pm 0.8$  (8.2–10.5) (2–2½ mm); oo 8.6/9.5/10.3/10.1; J♂♂ 10.5/11.5; J♀ 8.8  
*N. senegalensis* ♂♂ 13.7/14.2; ♀♀ 11.2/12.0/13.8; oo 11.7/13.0/13.0  
 < *N. amethystina* ( $p < 0.01$ ) 23♂♂  $11.0 \pm 1.0$  (9.2–12.8); 11♀♀  $9.8 \pm 1.0$  (8.3–11.4); 16oo  $10.1 \pm 1.1$  (8.3–12.5); J♂♂ 11.2/11.3/11.8  
*Anthreptes collaris* ( $p < 0.05$ ) 10♂♂  $8.3 \pm 0.7$  (7.0–9.3); 5♀♀  $7.4 \pm 0.7$  (6.5–8.3); o 7.6; J♀ 7.2  
*Zosterops senegalensis* (n.s.) 17♂♂  $9.8 \pm 0.9$  (8.1–10.9); 20♀♀  $9.4 \pm 0.8$  (8.1–10.8); B♀♀ 11.0 (6½ mm)/11.3 (2 mm)/11.6 (7 mm)/11.8 (3 mm); J♂ 8.6; J♀ 10.0; Jo 10.1  
*Passer domesticus* ♂ 23.7; o 16.8  
 < *Petronia supercilii* ♂♂ 21.0/23.4/25.9; ♀♀ 23.4/26.0  
 < *Amblyospiza albifrons* ♂ 43.3; ♀ 31.4; oo 29.6/64.4

- < *Ploceus ocularis* 6♂♂ 25.0 ± 1.9 (21.6–27.2); ♀♀ 21.7/22.6/24.6; B♀♀ 23.4 (2 mm)/26.9 (6 mm); J♀ 23.7
- < *P. cucullatus* (p < 0.001) 12♂♂ 35.6 ± 4.0 (29.2–41.7); 23♀♀ 30.6 ± 2.4 (26.8–38.3); 5B♀♀ 30.5 ± 2.3 (27.5–33.6) (2–3 mm)/35.2 (19 × 12 mm); 8J♂♂ 34.0 ± 3.3 (28.5–37.7); J♀♀ 29.3/29.7/30.6/30.8; Joo 25.6/27.6/38.6
- \* *P. xanthops* ♂♂ 46.2/47.8; ♀♀ 36.3/38.3/39.3; B♀ 34.6 (2 mm); oo 35.0/37.4/40.2
- \*\* *Anaplectes rubriceps* ♂ 24.6
- Quelea quelea* (p < 0.001) 138♂♂ 19.2 ± 1.5 (15.2–22.8); 138♀♀ 18.0 ± 1.3 (13.7–21.2); 5B♀♀ 16.8 ± 2.8 (12.6–19.2) (2 mm); 8B♀♀ 17.5 ± 1.4 (14.9–19.1) (3 mm); 4B♀♀ 18.0 ± 0.6 (17.1–18.5) (4 mm); 5B♀♀ 18.4 ± 2.1 (15.4–20.7) (5 mm); B♀♀ 18.5 (6 mm)/17.2 (7 mm)/20.3 (8 mm); o 19.6
- < *Euplectes orix* (p < 0.001) 8♂♂ 18.6 ± 1.3 (16.2–20.6); 15♀♀ 16.5 ± 1.0 (14.3–18.0); J♂♂ 14.3/18.2
- \* *E. hordeaceus* B♀ 18.8 (2 mm)
- \*\* *E. capensis* (p < 0.001) 17♂♂ 20.0 ± 1.1 (17.7–21.9); 19♀♀ 16.2 ± 1.2 (12.8–19.1); B♀ 18.9 (4 mm); 6oo 15.8 ± 2.0 (16.3–18.1); J♂ 17.6; 5J♀♀ 16.7 ± 1.6 (15.1–19.2); Jo 20.9
- < *E. ardens* (p < 0.001) 76♂♂ 18.6 ± 1.5 (15.6–23.3); 100♀♀ 16.0 ± 1.2 (13.1–19.3); 10B♀♀ 16.3 ± 1.5 (13.1–18.7) (2–5 mm); B♀♀ 16.7 (15 × 11 mm)/17.8 (20.5 × 14 mm)/18.3 (25 × 11 mm); 9oo 15.9 ± 1.7 (14.5–18.7); 8J♂♂ 17.0 ± 3.1 (11.7–21.7); J♀♀ 15.2/15.2/15.4/15.4; Jo 18.8
- \* *Pytilia afra* ♀ 15.5
- < *P. melba* (n.s.) 19♂♂ 13.4 ± 1.2 (10.7–15.3); 14♀♀ 13.4 ± 1.7 (10.0–15.4); B♀♀ 12.4 (3 mm)/13.2 (2 mm)/14.4 (6 mm)/14.6 (2 mm)/16.2 (12 × 9 mm); J♂ 13.7; J♀♀ 13.4/15.0
- Mandingoa nitidula* 7♂♂ 8.8 ± 0.5 (8.3–9.7); ♀♀ 8.1/8.6/9.3/9.8; 5B♀♀ 9.8 ± 1.0 (8.6–11.2) (2–4 mm); J♂♂ 8.6/9.8; Jo 8.5
- Cryptospiza reichenovii* 8♂♂ 12.9 ± 1.0 (11.6–14.3); ♀♀ 12.2/13.3/15.2; B♀♀ 13.8 (2 mm)/14.0 (2½ mm)/15.0 (7 mm)/17.1 (3 mm)
- \* *Hypargos niveoguttatus* (n.s.) 21♂♂ 15.1 ± 0.9 (13.2–17.1); 20♀♀ 14.8 ± 1.4 (12.5–17.9); B♀♀ 13.4 (2 mm)/16.2 (4 mm)/16.3 (3 mm); 7oo 13.6 ± 1.2 (11.4–15.3); J♂♂ 14.3/14.3; J♀ 14.7
- Lagonosticta rubricata* 6♂♂ 9.9 ± 0.8 (9.0–11.2); ♀♀ 8.0/8.6/11.2/11.7; B♀♀ 8.8 (5 mm)/10.2 (4 mm); 12oo 10.3 ± 0.8 (8.7–11.6)
- L. rhodopareia* (n.s.) 10♂♂ 8.9 ± 0.6 (7.5–9.5); 6♀♀ 8.7 ± 0.9 (7.1–9.5); B♀♀ 7.4 (2 mm)/9.0 (5 mm)/10.1 (5 mm)
- < *L. senegala* ♂♂ 6.0/7.4; ♀ 8.8
- < *Uraeginthus angolensis* (n.s.) 21♂♂ 9.0 ± 1.0 (6.8–10.9); 12♀♀ 9.0 ± 0.9 (8.3–10.3); B♀♀ 10.3 (4 mm)/11.2 (13 × 9 mm)/12.3 (2 mm)/11.8 (15 × 9 mm); oo 7.2/8.0
- < *U. granatinus* ♂♂ 8.6/9.9/10.3/12.2; B♀ 10.8 (2 mm); oo 8.6/9.0; Joo 9.6/10.4
- < *Estrilda astrild* ♂ 7.5; ♀♀ 6.5/7.3/8.3/8.3; B♀♀ 7.5 (3 mm)/9.0 (2 mm); oo 6.4/6.8/7.2/8.1; J♂ 8.4; J♀♀ 7.4/7.8/8.1/8.2
- \*\* *E. perreini* ♂♂ 7.2/7.6; ♀ 7.5; oo 6.1/7.1/9.0
- \*\* *E. quartinia* ♂♂ 5.7/6.2; B♀♀ 7.0 (2 mm)/7.2 (3 mm)
- Sporaeginthus subflavus* ♂ 7.3; o 7.0
- < *Spermestes cucullatus* ♂♂ 8.2/9.1/9.2/9.6; 5♀♀ 8.7 ± 0.6 (8.1–9.5); 17oo 8.6 ± 1.1 (6.2–10.2); J♂ 8.1; J♀♀ 7.1/9.3; Joo 6.6/7.4/8.7/9.0
- S. bicolor* ♂♂ 8.4/8.9/9.1/9.3; 6♀♀ 8.6 ± 0.7 (8.0–9.8); oo 8.0/8.5; J♂ 8.5
- \*\* *S. fringilloides* ♂♂ 16.1/17.4/18.9; ♀♀ 16.2/17.0
- Vidua macroura* ♀ 13.8
- V. paradisea* B♀ 22.2 (3 mm)
- V. purpurascens* ♀♀ 12.5/13.5/13.7; B♀ 11.7 (6 mm)
- < *Serinus mozambicus* (n.s.) 11♂♂ 11.4 ± 1.2 (9.3–12.8); 17♀♀ 11.6 ± 0.8 (10.0–13.3); B♀♀ 10.1 (4 mm)/11.2 (5 mm); oo 10.0/10.0/10.3/10.4; J♂ 12.4; J♀♀ 10.2/10.7
- S. sulphuratus* ♂ 16.6; ♀♀ 17.4/17.5/21.8; 5oo 19.3 ± 1.5 (17.5–21.6)
- S. gularis* ♂♂ 14.3/14.5/16.8; 5♀♀ 15.9 ± 3.4 (10.5–19.5)
- \* *S. mennelli* J♂ 15.1
- \* *Emberiza cabanisi* ♂ 22.3
- E. flaviventris* (n.s.) 5♂♂ 18.5 ± 2.0 (15.1–20.5); ♂♂ 28.3(?) / 28.4(?); 5♀♀ 17.6 ± 1.0 (16.1–18.5); B♀♀ 18.3 (2 mm)/21.2 (10 mm); J♀ 18.1
- E. capensis* ♂ 18.2
- E. tahapisi* ♂ 13.2; B♀ 14.5 (2 mm)

## References:

- Jackson, H. D. 1972. Avifaunal survey of the Umtali Municipal Area. I. The Muneni River collection: a comparison of samples from riparian forest and miombo woodland. *Arnoldia Rhod.* 6(1): 1–10.
- Jackson, H. D. 1976. Ditto. II. The Cecil Kop collection: a comparison of samples from montane grassland, montane thicket and montane forest. *Arnoldia Rhod.* 8(5): 1–11.
- Jackson, H. D. 1986. Avifaunal survey of the Mutare Municipal Area. III. The Gimboki collection: a comparison of samples from riparian thicket, miombo woodland on sand-flats and miombo woodland on rocky slopes. *Arnoldia Zimbabwe* 9(25): 325–332.
- Jackson, H. D. 1987a. Ditto. IV. The Matika collection: a comparison of samples from grassland, thicket, woodland and riparian forest. *Arnoldia Zimbabwe* 9(28): 353–360.
- Jackson, H. D. 1987b. Ditto. V. The Birkley South collection: a comparison of samples from grassland, woodland and thicket. *Arnoldia Zimbabwe* 9(29): 361–367.
- Jackson, H. D. 1988. Ditto. VI. Further Mutare specimens in the collections of the Natural History Museum, Bulawayo, and the Mutare Museum. *Arnoldia Zimbabwe* 9(31): 431–438.
- Maclean, G. L. 1985. *Roberts' Birds of Southern Africa*. John Voelcker Bird Book Fund, Cape Town.
- Thompson, A. L. (ed.) 1964. *A New Dictionary of Birds*. British Ornithologists' Union.

Address: H. D. Jackson, Director, Natural History Museum, P.O. Box 240, Bulawayo, Zimbabwe.

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## The correct name of the Terek Sandpiper

by Burt L. Monroe, Jr.

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The recent trend of merging most forms of tringine sandpipers into the single genus *Tringa* has produced a case of *apparent* secondary homonymy in the Terek Sandpiper. Often recognized in a monotypic genus as *Xenus cinereus*, this species is now frequently placed in *Tringa*, producing the name *Tringa cinerea* in apparent conflict with the older *Tringa cinerea* Brünnich 1764, a synonym of *Calidris canutus* (Red Knot). The original description of the Terek Sandpiper was based on *Scolopax cinerea* Gldenstdt 1775; the next available name is *Scolopax terek* Latham 1790.

It should be pointed out that this is *not* a case of secondary homonymy, inasmuch as both species' descriptions as '*cinerea*' were allocated to different genera (*Scolopax* and *Tringa*, respectively, for the Terek Sandpiper and Red Knot) and are currently placed in different genera (*Tringa* and *Calidris*, respectively); at no time have both species been concurrently placed in the same genus, thus no secondary homonymy exists. This case is precisely the same as the one in America of the Blackpoll Warbler: originally described as *Muscicapa striata* Forster 1772, the Blackpoll Warbler is now recognized as *Dendroica striata*, the name unaffected by the presently recognized *Muscicapa striata* (Spotted Flycatcher) based on *Motacilla striata* Pallas 1764 (see Lowery & Monroe in Peters (1968) *Check-list of Birds of the World*, 14: 32, footnote). In both cases, there was no instance of concurrent homonymy, thus no



Jackson, H D. 1989. "WEIGHTS OF BIRDS COLLECTED IN THE MUTARE MUNICIPAL AREA ZIMBABWE." *Bulletin of the British Ornithologists' Club* 109, 100–106.

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