

Checklist of the Collembola:

Pictorial key to common surface dwelling species of Collembola from South Dakota, USA



This key is still under construction. **Note** that missing figures will be provided as soon as possible. Currently, the key is in the feasibility study phase to find out how to integrate in the checklist in a modular way a key that has been generated with [DELTA](#).

[Frans Janssens](#), Department of Biology, University of Antwerp, Antwerp, B-2020, Belgium

Rick Cowen, ...South Dakota, USA

Preamble

This experimental and macrophotographically illustrated key is intended to key out the most common species from South Dakota, USA, based on habitus inspection of alive specimens in the field using at most a magnification of 5x.

All illustrations courtesy of Rick Cowen.

Key

- 1 (0) . Body elongate..... [2](#)
Body subglobular..... [8](#)

- 2 (1) . Body iridescent..... [3](#)
Body not iridescent..... [4](#)

- 3 (2) . Eyes absent (fig.1)..... *Pseudosinella rolfsi*
Eyes present (fig.2)..... *Tomocerus*



Fig.1.



Fig.2.

- 4(2) . Body colour not uniform..... [5](#)
Body colour uniform..... [7](#)
- 5(4) . Body markings distinct..... [6](#)
Body markings indistinct (fig.3)..... *Entomobrya unostriata*



Fig.3.

- 6(5) . Abdominal markings longitudinal (fig.4).....
..... *Isotoma viridis* var. *riparia* [1](#)
Abdominal markings mainly transversal (fig.5). *Orchesella cincta*



Fig.4.



Fig.5.

- 7(4) . Body colour bluish (fig.6)..... *Hypogastrura*
Body colour greenish (fig.7)..... *Isotoma viridis*



Fig.6.



Fig.7.

- 8(1). Abdomen with long strong setae (fig.8)..... Sminthurus
 Abdomen without long strong setae..... 9



Fig.8.

- 9(8). Abdomen with distinct dorsal black markings (fig.9).....
 Sminthurinus elegans
 Abdomen without distinct dorsal markings (fig.10).....
 Sminthurinus henshawi



Fig.9.



Fig.10.

Endnotes

¹ Christiansen & Bellinger (1998:853-854) consider *Isotoma viridis* as a species-group that includes all named varieties.

Differential diagnoses

Entomobrya unostrigata

Body elongate. Body not iridescent. Body colour not uniform. Body markings indistinct (fig.3).

Hypogastrura

Body elongate. Body not iridescent. Body colour uniform. Body colour bluish (fig.6).

Isotoma viridis

Body elongate. Body not iridescent. Body colour uniform. Body colour greenish (fig.7).

Isotoma viridis var. riparia¹

Abdominal markings longitudinal (fig.4). Body elongate. Body not iridescent. Body colour not uniform. Body markings distinct.

Orchesella cincta

Abdominal markings mainly transversal (fig.5). Body elongate. Body not iridescent. Body colour not uniform. Body markings distinct.

Pseudosinella rolfsi

Body elongate. Body iridescent. Eyes absent (fig.1).

Sminthurinus elegans

Abdomen without long strong setae. Abdomen with distinct dorsal black markings (fig.9). Body subglobular.

Sminthurinus henshawi

Abdomen without long strong setae. Abdomen without distinct dorsal markings (fig.10). Body subglobular.

Sminthurus

Abdomen with long strong setae (fig.8). Body subglobular.

Tomocerus

Body elongate. Body iridescent. Eyes present (fig.2).

References

- **Christiansen, K. et Bellinger, P.** 1998. The Collembola of North America North of the Rio Grande, A taxonomic analysis., Grinnell College, Iowa, p.1-1520.
-