



SHORT COMMUNICATION

Beetles (Coleoptera) of the Rogów region. Part X – skin beetles (Dermestidae)

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ABSTRACT

In the tenth part of the series entitled “Beetles (Coleoptera) of the Rogów region” presents skin beetles (Dermestidae), as one of the better-known families of beetles occurring in the Rogów area. The faunistic data of the listed species is supplemented by bionomical information. 22 species of Dermestidae were recorded in the study area, representing approx. 56% of Polish fauna.

Keywords: Insecta, Coleoptera, Dermestidae, Rogów region, faunistic data, bionomy

1. INTRODUCTION

Until now, 3 species of Dermestidae, has been reported from the Rogów region (Borowski & Kieszek 1999, Byk & *al.* 2013).

The following is a list of the species of skin beetles that occur in the Rogów region. Almost all species have been collected by the author, and a small part of specimens comes from the collection of J. Dominik, S. Mazur and A. Ślipiński. Specimens of evidence are in

the collection of Department of Forest Protection and Ecology in Rogów and Warsaw. Names are taken from the "Catalogue of Palearctic Coleoptera" (Löbl & Smetana (ed.) 2007).

2. RESULTS – REVIEW OF THE SPECIES

2. 1. *Dermestes (Dermestinus) frischii* Kugelann, 1792

- Rogów, UTM: DC24, 01.VII.1978, 2 exx., the dead dog, leg. Ślipiński;
- Rogów, „Górki” range, UTM: DC24, 15.V.1999, 2 exx., and 15.V.1999 1 ex., agricultural and xerothermic field, the dead chicken, leg. J. Borowski;
- Gutkowice, UTM: DC33, 02.X.1998, 1 ex., sandy fossa, leg. J. Borowski.

A quite common species in the Rogów area. The species most frequently occurs on dead animals, especially in the xerothermic environments.

2. 2. *Dermestes (Dermestinus) murinus* Linnaeus, 1758

- Rogów, „Zimna Woda and Wilczy Dół” range, UTM: DC24, 04.VI.1991, 1 ex., the dead dog, leg. J. Borowski;
- Rogów, dendrological garden, UTM: DC24, 06.V.1994, 4 exx., on bones, leg. T. Mokrzycki;
- Rogów, „Górki” range, UTM: DC24, 07.X.1995, 1 ex., the cow guts, leg. J. Borowski;
- Gutkowice, UTM: DC33, 20.IV.1998, 2 exx., the dead chicken; leg. J. Borowski;
- Rogów, „Zimna Woda and Wilczy Dół” range, „Zimna Woda” reserve, UTM: DC24, 19.IV.1999, 1 ex., leg. J. Borowski.

For the first time from the Rogów region reported by Byk & al. (2013). A common species found in various environments. Adults were observed and collected on carrion and bones of animals.

2. 3. *Dermestes (Dermestinus) udulatus* Brahm, 1790

- Rogów, UTM: DC24, 10.VII.1999, 6 exx., the dead mole, and 16.IV.2004, 1 ex, on tree, leg. J. Borowski;
- Rogów, „Doliska” range, UTM DC:24, 15.VII.2012, 1 ex., the dead mole, leg. J. Borowski.

A quite rare species found in various environments. The species prefers small dead mammals.

2. 4. *Dermestes (Dermestes) bicolor* Fabricius, 1781

- Rogów, UTM: DC24, 20.V.2007, 1 ex., the loft of building, on bones of a bird, leg. J. Borowski.

A very rare species in the Rogów region. During 20 years of researches in this area and using of various traps, only 1 specimen of this species was caught.

2. 5. *Dermestes (Dermestes) haemorrhoidalis* Küster, 1852

- Rogów, UTM: DC24, 29.VIII.2003, 1 ex., to the light, leg. J. Borowski.

This cosmopolitan species is very rare observed in the Rogów region. One specimen of this species came to the light at the end of August in urban area.

2. 6. *Dermestes (Dermestes) lardarius* Linnaeus, 1758

- Rogów, UTM: DC24, 16.V.1957, 1 ex., leg. J. Dominik; 30.V.1995, 1 ex., 12.XII.1997, 1 ex., 30.IV.1998, 1 ex., 16.IV.2004, 1 ex., in the building, leg. J. Borowski;

- Rogów, dendrological garden, UTM: DC24, 06.V.1994, 1 ex., on bones, leg. T. Mokrzycki; 07.X.1995, 2 exx., in the building, leg. J. Borowski.

One of the commonest skin beetles in the Rogów region. This synanthropic species lives on various animal products.

2. 7. *Attagenus (Attagenus) pantherinus* (Ahrens, 1814)

- Rogów, UTM: DC24, 12.III.1958, 1 ex., 15.V.1958, 1 ex., VI.1958, 1 ex., leg. J. Dominik; 28.IV.2002, 1 ex., indoor the building, leg. J. Borowski; 11.VII.2006, 1 ex., and 22.V.2007, 1 ex., the loft of building, leg. J. Borowski; 15.V.2009, 1 ex., on the wall of building, leg. J. Borowski;

- Rogów, dendrological garden, UTM: DC24, 12.V.1997, 1 ex., in flight, leg. J. Borowski.

A rare species in the Rogów region. Adults were collected individually. The species lives in the warm loft of buildings where are nests of Hymenoptera.

2. 8. *Attagenus (Attagenus) pellio* (Linnaeus, 1758)

- Rogów, dendrological garden, UTM: DC24, 27.IV.1995, 1 ex., and 28.XII.1995, 2 exx., indoor the building, leg. J. Borowski; 10.V.1995, 1 ex., on the wall of building, leg. J. Borowski;

- Rogów, UTM: DC24, 01.XII.1997, 1 ex., and 07.I.1998, 1 ex., indoor the building, leg. J. Borowski.

A common species in the Rogów region. Adults are frequently observed on spring time, on flowers e.g. *Spiraea* spp. or *Crataegus* spp.

2. 9. *Attagenus (Attagenus) schaefferi* (Herbst, 1792)

- Rogów, UTM: DC24, 30.VI.1995, 1 ex., on flowers of *Filipendula* sp., leg. J. Borowski; 11.VII.2006, 1 ex., 24-27.V.2007, 6 exx., the loft of building, leg. J. Borowski; 27.V.2012, 1 ex., and 10.VI.2012, indoor the building, leg. J. Borowski;

- Głuchów, UTM: DC33, 08.VI.2007, 1 ex., on flowers of *Aegopodium podagraria* L., leg. J. Borowski.

A quite rare species in the Rogów region. A semisynanthropic species. Adults were observed on white flowers of various plants.

2. 10. *Attagenus (Attagenus) smirnovi* Zhantiev, 1972

- Rogów, UTM: DC24, 15.III.2008, 1 ex., 20.III.2009, 1 ex., 24.VII.2009, 1 ex., 17.VIII.2009, 1 ex., 10.IV.2010, 3 exx., 20-21.IV.2010, 2 exx., 07.VII.2010, 1 ex., in the apartment, leg. J. Borowski.

For the first time in Rogów, this synanthropic species was collected in 2008. It inhabits the same ecological niches as *Attagenus unicolor* (Brahm). This very aggressive species, in just two years completely eliminated *A. unicolor* from the apartment. Since this time, only *A. smirnovi* is observed in the apartment. Adults of *A. smirnovi* are observed in two periods: early spring and mid-summer.

2. 11. *Attagenus (Attagenus) unicolor* (Brahm, 1790)

- Rogów, dendrological garden, UTM: DC24, 24.III.1995, 1 ex., indoor the building, leg. T. Mokrzycki;
- Rogów, UTM: DC24, 26.IV.1997, 1 ex., 29.IV.1997, 1 ex., 10.VII.1997, 1 ex., 20.VII.1997, 1 ex., 23.VII.1997, 2 exx., 30.VII.1997, 2 exx., 04.I.1998, 1 ex., 07.I.1998, 1 ex., and 25.VII.2007, 1 ex., in the apartment, leg. J. Borowski;
- Gutkowice, UTM: DC33, 26.VII.1997, 1 ex., on flower of *Chrysanthemum* sp., near old building, leg. J. Borowski.

Until 2007 it was a common species in the Rogów region. Now it is very rarely observed because most of ecological niches were occupied by similar, invasive species, *A. smirnovi*.

2. 12. *Megatoma (Megatoma) undata* (Linnaeus, 1758)

- Rogów, dendrological garden, UTM: DC24, 18.V.1995, 1 ex., and 17.IV.1999, 1 ex., on the wall of building, leg. J. Borowski; 13.II.1997, 1 ex., a hole of *Picea* sp., leg. J. Borowski; 20.XI.1997, 1 ex., and 13.IX.1999, 1 ex., within the nest of Vespidae, leg. J. Borowski; 5.VI.-5.VII.2001, window trap, leg. J. Borowski;
- Rogów, UTM: DC24, 06.IV.2004, 1 ex., 16.IV.2004, 1 ex., 20.IV.2004, 1 ex., 10.IV.2012, 1 ex., on the wall of building, leg. J. Borowski; 23.V.2007, 1 ex., in the barrel with water, leg. J. Borowski;
- Rogów, „Doliska” range, UTM DC:24, 02.V.2009, 1 ex., indoor the building, leg. J. Borowski.

For the first time from the Rogów region reported by Byk & al. (2013). A quite common species in the Rogów region. The species lives on the remains of invertebrates, especially within the nests of Hymenoptera.

2. 13. *Ctesias (Ctesias) serra* (Fabricius, 1792)

- Rogów, „Zimna Woda and Wilczy Dół” range, „Zimna Woda” reserve, UTM: DC24, 01.VII.1997, 1 ex., leg. J. Borowski.

For the first time from the Rogów region reported by Borowski & Kieszek (1999). A very rare species in the Rogów area. During 20 years of researches in this area and using of various traps, only 2 specimens of this species were caught. Larvae of this forest species live under bark of various trees on the remains of invertebrates.

2. 14. *Reesa vespulae* (Milliron, 1939)

- Rogów, UTM: DC24, 04.VIII.2009, 1 ex., 04.VIII.2011, 1 ex., 20.IX.2011, 1 ex., and 10.III.2014, 1 ex., in the room of insect collections, leg. J. Borowski.

This parthenogenetic species was introduced to Rogów in 2009 with dry insects from Sweden. Now, it is the most dangerous pest of zoological collection in the local forest museum.

2. 15. *Trogoderma angustum* (Solier, 1849)

- Rogów, UTM: DC24, 26.V.2007, 1 ex., in the room of collections, leg. J. Borowski.

The South American species introduced to various countries of the World. The species was collected only once in the Rogów region. It was in 2007.

2. 16. *Trogoderma glabrum* (Herbst, 1783)

- Rogów, dendrological garden, UTM: DC24, 02.VII.1996, 1 ex., indoor the building, leg. J. Borowski;

- Rogów, UTM: DC24, 25.IV.1999, 1 ex., 31.VII.2006, 1 ex., and 18.VII.2010, 1 ex., in the apartment, leg. J. Borowski; 18.VI.2003, 1 ex., 13.VII.2006, 2 exx., in the room of insect collections, leg. J. Borowski; 12.VII.2006, 1 ex., on the wall of building, leg. J. Borowski; 23.V.-28.V.2007, 7 exx., the loft of building, leg. J. Borowski.

A quite common species in the Rogów region. This synanthropic species was observed and collected in the spring and early summer time.

2. 17. *Trogoderma versicolor* (Creutzer, 1799)

- Rogów, UTM: DC24, 04.II.2005, 1 ex., and 12.XII.2009, 1 ex., in the room of insect collections, leg. J. Borowski; 21-22.V.2007, 2 exx, the loft of building, leg. J. Borowski; 23.V.2007, 1 ex., and 28.VI.2007, 1 ex., in the barrel with water, leg. J. Borowski.

A quite rare species in the Rogów region. This synanthropic species was observed and collected in the same habitats as *T. glabrum*.

2. 18. *Anthrenus (Anthrenus) pimpinellae* (Fabricius, 1775)

- Rogów, UTM: DC24, 20.V.1995, 5 exx., on flowers of *Spiraea* sp., leg. J. Borowski.

A common species in the Rogów region. It is a semisynanthropic species. The species is easy to find on various flowers, especially in the vicinity of farms. Larvae of this species very often live in the bird nests.

2. 19. *Anthrenus (Anthrenus) scrophulariae* (Linnaeus, 1758)

- Rogów, UTM: DC24, 20.V.1995, 5 exx., on flowers of *Spiraea* sp., leg. J. Borowski;

- Rogów, dendrological garden, UTM: DC24, 24.III.1995, 3 exx., indoor the building, leg. T. Mokrzycki; 10.VII.1997, 1 ex., indoor the building, leg. J. Borowski; 04.I.1998, 1 ex., 09.II.1998, 1 ex., 22.II.1998, 1 ex., 08-09.II.1998, 3 exx., on the wall of buildings, leg. J. Borowski.

A very common species in the Rogów region. It is a semisynanthropic species. The species is easy to find on various flowers, especially in the vicinity of farms. Larvae of this species live in various habitats on the animal remains.

2. 20. *Anthrenus (Florilinus) museorum* (Linnaeus, 1761)

- Rogów, dendrological garden, UTM: DC24, 20.V.1993, 4 exx., indoor the building, leg. T. Mokrzycki; 18.V.1995, 1 ex., on the wall of building, leg. J. Borowski; 01.VI.1995, 5 exx., on flowers of *Spiraea* sp., leg. J. Borowski.

The commonest skin beetle in the Rogów region. It is a semisynanthropic species. The species is easy to find on various flowers, especially in the vicinity of farms, together with *A. scrophulariae*, *A. pimpinellae* and *A. polonicus*. Larvae of this species live in various habitats on the animal remains.

2. 21. *Anthrenus (Helocerus) polonicus* Mroczkowski, 1951

- Rogów, dendrological garden, UTM: DC24, 25.IV.1995, 1 ex., 08.VII.1997, 1 ex., and 14.IV.1998, 1 ex., indoor the building, leg. J. Borowski; 18.V.1995, 1 ex., and 02.VI.1997, 1 ex., on the wall of building, leg. J. Borowski;
- Rogów, UTM: DC24, 20.IV.1997, 1 ex., in the apartment, leg. J. Borowski; 02.VI.1997, 2 exx., and 05.V.1998, 2 exx., the loft of building, leg. J. Borowski;
- Rogów, „Doliska” range, UTM DC:24, 01-02.IV.2012, 2 exx., ex. larva, from the nest of tit, leg. J. Borowski.

One of the commonest skin beetles in the Rogów region. This synanthropic species lives on the various animal remains.

2. 22. *Trinodes hirtus* (Fabricius, 1781)

- Rogów, „Zimna Woda and Wilczy Dół” range, „Zimna Woda” reserve, UTM: DC24, 30.VI.1997, 1 ex., on the side necrosis of oak trunk, leg. J. Borowski;
- Rogów, UTM: DC24, 08.VI.2007, 1 ex., on the lying old poplar, leg. J. Borowski.

A rare species in the Rogów region. Adults are active at night. The easiest way to find them on the webs stretched on the side necroses of tree trunks.

3. CONCLUSIONS

From the Rogów region 22 species of skin beetles were collected representing approx. 56% of all species in the Polish fauna. All species collected in the 50s and 70s of the twentieth century are being collected nowadays. In the Rogów area we can expect the occurrence of several more (4-5) new species of skin beetles e.g. *Dermestes lanarius* Illig., *Globicornis* spp. and *Anthrenus* spp., especially *A. verbasci* (L.).

Acknowledgements

We would like to thank Prof. S. Mazur and Dr. A. Ślipiński for the material being used in this work.

References

- [1] Borowski J., Kieszek C. 1999. Ciekawsze chrząszcze (Coleoptera) odłowione w rezerwacie dębowym Zimna Woda w Rogowie. *Wiad. entomol.* 18(2): 125-126.
- [2] Byk A., Borowski J., Mazur S., Mokrzycki T., Rutkiewicz A. 2013. Waloryzacja lasów Leśnego Kompleksu Promocyjnego „Lasy Spalsko-Rogowskie” na podstawie zgrupowań chrząszczy saproksylicznych. *Studia i Materiały CEPL w Rogowie*, 35(2): 82-128.
- [3] Löbl I., Smetana A. (ed.) 2007. Catalogue of Palearctic Coleoptera, Vol. 4. Stenstrup, Apollo Books, 935 pp.

(Received 10 March 2017; accepted 28 March 2017)