

A COW DUNG INVESTIGATION ON STAPHYLINIDAE (COLEOPTERA) WITH A NEW RECORD FROM TURKEY

İnanç Özgen* & Sinan Anlaş**

* Department of Plant Protection, Faculty of Agriculture, University of Dicle, 21000, Diyarbakır/TURKEY. E mail: inancoz@hotmail.com

**Department of Biology, Faculty of Science, University of Ege, 35100 Bornova, Izmir/TURKEY. E-mail: sinan.anlas@gmail.com

[Özgen, I. & Anlaş, S. 2010. A cow dung investigation on Staphylinidae (Coleoptera), with a new record from Turkey. Munis Entomology & Zoology, 5 (2): 642-645]

ABSTRACT: In this study, Staphylinidae species were collected from cow dung located in Eastern and Southeastern Turkey in 2009. A total of 20 species in 11 genera belonging to four subfamilies have been recorded. Amongst them, *Philonthus lepidus* (Gravenhorst, 1802) is the first record for Turkish fauna.

KEYWORDS: Coleoptera, Staphylinidae, cow dung, fauna, new record, Turkey.

The family Staphylinidae contains more than 50.000 species worldwide in 32 subfamilies (Newton, 2007). According to Anlaş (2009), 1600 species and subspecies in 250 genera belonging to 22 subfamilies which are connected with Staphylinidae family from Turkey have been reported. The species of Staphylinidae are distributed worldwide in almost all types of ecosystems, most often in decaying animal or plant matter, under stones or bark, on flowers, under seaweed, in fungi and leaf litter. Many species of Staphylinidae is known dung-inhabiting beetles. But the fimicolous Staphylinidae are poorly studied in Turkey.

The aim of this study is to evaluate the Staphylinidae fauna of cow dung at five locations in Eastern and Southeastern Turkey.

MATERIAL AND METHOD

Collections were made at five sites in Bingöl, Elazığ, Mardin and Siirt provinces. Samples were collected randomly by a handle shovel, placed into a plastic jars and transported to the laboratory, where the insects were separated from the dung. At each interval, a total of 10 samples were taken at each locality. In each locality, dung was put into 120 ml plastic jars. The weight of dung put into each jar was approximately 50 gr.

Material were identified by S. Anlaş and is deposited in the private collection of the first and second author.

Classification and nomenclature of the Staphylinidae suggested by Herman (2001) and Löbl & Smetana (2004) have been followed in this study.

RESULT

In this study, 21 species of 12 genera belonging to four subfamilies of Staphylinidae are reported for Turkish fauna. Amongst them, *Philonthus lepidus* (Gravenhorst, 1802) is the first record for Turkish fauna.

Subfamily Tachyporinae MacLeay, 1825***Tachinus scapularis* Stephens, 1832**

Material examined: Mardin: Central province, Sultanşehmuz village, 2 exs., 19.08.2009.
Distribution in Turkey: Isparta (Anlaş, 2009).

Subfamily Aleocharinae Fleming, 1821***Aleochara tristis* (Gravenhorst, 1806)**

Material examined: Mardin: Central province, Sultanşehmuz village, 1 ex., 19.08.2009; 1 ex., 04.10.2009. Siirt: near Botan Çayı, 3 exs., 28.05.2009.
Distribution in Turkey: Artvin, Bingöl, Bitlis, Bursa, Erzurum, Gaziantep, Hatay, Izmir, Kahramanmaraş, Konya, Malatya, Manisa, Mardin, Mersin, Osmaniye (Anlaş, 2009; Kesdek et al. 2009; Tezcan & Anlaş, 2009).

Subfamily Oxytelinae Fleming, 1821***Anotylus inustus* (Gravenhorst, 1806)**

Material examined: Mardin: Central province, Sultanşehmuz village, 4 exs., 28.05.2009; 8 exs., 06.09.2009; 3 exs., 19.08.2009; 7 exs., 21.08.2009.
Distribution in Turkey: Artvin, Bursa, Erzurum, Istanbul, Izmir, Kilis, Konya, Mersin, Muğla (Anlaş, 2009; Anlaş & Rose 2009a; Kesdek et al. 2009; Tezcan & Anlaş, 2009).

***Anotylus rugosus* (Fabricius, 1775)**

Material examined: Bingöl: Central province, Şehit village, 6 exs., 07.10.2009.
Distribution in Turkey: Adana, Ankara, Mersin (Anlaş, 2009).

***Anotylus sculpturatus* (Gravenhorst, 1806)**

Material examined: Elazığ: Central province, Yurtbaşı, 1 ex., 05.09.2009. Mardin: Central province, Sultanşehmuz village, 2 exs., 19.08.2009; 3 exs., 21.08.2009. Siirt: Central province, 4 exs., 28.05.2009.
Distribution in Turkey: Antalya, Istanbul, Mersin (Anlaş, 2009; Anlaş & Rose 2009a).

***Oxytelus sculptus* Gravenhorst, 1806**

Material examined: Mardin: Central province, Sultanşehmuz village, 1 ex., 28.05.2009.
Distribution in Turkey: Adana, Ankara, Mersin, Sakarya (Anlaş, 2009).

***Platystethus nitens* (C. R. Sahlberg, 1832)**

Material examined: Mardin: Central province, Sultanşehmuz village, 3 exs., 28.05.2009; 1 ex., 06.09.2009.
Distribution in Turkey: Ankara, Antalya, Kilis (Anlaş, 2009; Anlaş & Rose 2009a).

Subfamily Staphylininae Latreille, 1802***Creophilus maxillosus* (Linnaeus, 1758)**

Material examined: Mardin: Central province, Sultanşehmuz village, 1 ex., 06.09.2009.
Distribution in Turkey: Antalya (Anlaş, 2009; Anlaş & Rose 2009a).

***Leptacinus intermedius* Donisthorpe, 1936**

Material examined: Mardin: Central province, Sultanşehmuz village, 1 ex., 19.08.2009; 2 exs., 21.08.2009.
Distribution in Turkey: Adana, Istanbul, Konya, Osmaniye (Anlaş, 2009).

***Ontholestus murinus* (Linnaeus, 1758)**

Material examined: Bingöl: Central province, Şehit village, 1 ex., 07.10.2009.
Distribution in Turkey: Erzurum, Gaziantep, Izmir, Kütahya, Manisa (Anlaş, 2009; Anlaş & Rose 2009b; Kesdek et al. 2009).

***Philonthus carbonarius* (Gravenhorst, 1802)**

Material examined: Elazığ: Central province, Yurtbaşı, 2 exs., 05.09.2009. Bingöl: Central province, Şehit village, 1 ex., 08.10.2009.

Distribution in Turkey: Antalya, Ardahan, Erzurum, Kars, Manisa (Anlaş, 2009; Anlaş & Rose 2009b; Kesdek et al. 2009).

***Philonthus concinnus* (Gravenhorst, 1802)**

Material examined: Bingöl: Central province, Şehit village, 1 ex., 07.10.2009. Mardin: Central province, Sultanşehmuz village; 2 exs., 28.05.2009; 2 exs., 19.08.2009; 3 exs., 21.08.2009; 1 ex., 06.09.2009.

Distribution in Turkey: Adana, Ankara, Antalya, Ardahan, Bolu, Erzincan, Erzurum, Iğdır, Kayseri, Konya, Manisa, Mersin, Tunceli (Anlaş, 2009; Anlaş & Rose 2009b; Kesdek et al. 2009).

***Philonthus corruscus* (Gravenhorst, 1802)**

Material examined: Mardin: Central province, Sultanşehmuz village, 3 exs., 06.09.2009.

Distribution in Turkey: Adana, Ankara, Izmir, Mersin (Anlaş, 2009).

***Philonthus intermedius* (Lacordaire, 1835)**

Material examined: Mardin: Central province, Sultanşehmuz village, 3 exs., 19.08.2009; 1 ex., 21.08.2009; 4 exs., 06.09.2009; 1 ex., 07.10.2009.

Distribution in Turkey: Ankara, Antalya, Denizli, Izmir, Kahramanmaraş, Mersin (Anlaş, 2009; Anlaş & Rose 2009b).

***Philonthus lepidus* (Gravenhorst, 1802)**

Material examined: Bingöl: Central province, Şehit village, 2 exs., 07-08.10.2009.

Remarks: According to Smetana (2004), this species was not known from Turkey. The species is reported from Turkey for the first time.

***Philonthus nitidicollis* (Lacordaire, 1835)**

Material examined: Bingöl: Central province, Şehit village, 4 exs., 07-08.10.2009. Siirt: Central province, 1 ex., 28.05.2009.

Distribution in Turkey: Adana, Ankara, Antalya, Gaziantep, Izmir, Konya (Anlaş, 2009; Anlaş & Rose 2009b).

***Philonthus politus* (Linnaeus, 1758)**

Material examined: Mardin: Central province, Sultanşehmuz village, 3 exs., 19.08.2009; 1 ex., 21.08.2009.

Distribution in Turkey: Mersin (Anlaş, 2009).

***Quedius cinctus* (Paykull 1790)**

Material examined: Siirt: near Botan Çayı, 3 exs., 04.10.2009.

Distribution in Turkey: Antalya, Bolu, Istanbul, Izmir, Karaman, Mersin, Rize (Anlaş, 2009; Anlaş & Rose 2009b).

***Quedius curtipennis* Bernhauer, 1908**

Material examined: Mardin: Central province, Sultanşehmuz village, 1 ex., 28.05.2009.

Distribution in Turkey: Bolu, Giresun, Izmir, Manisa (Anlaş, 2009).

***Staphylinus erythropterus* Linnaeus, 1758**

Material examined: Siirt: near Botan Çayı, 1 ex., 04.10.2009.

Distribution in Turkey: The exact locality of this species has not been cited by previous studies (Anlaş, 2009).

ACKNOWLEDGEMENTS

Authors would like to thank Prof. Dr. Serdar Tezcan (Izmir, Ege University) for his contributions.

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