

CONTRIBUTIONS TO THE DERMAPTERA FAUNA OF TURKEY

Serdar Tezcan*, **Yusuf Karsavuran***,
Esat Pehlivan* and Sinan Anlaş**

* Department of Plant Protection, Faculty of Agriculture, University of Ege, 35100 Bornova, İzmir/TURKEY. E-mail: serdar.tezcan@gmail.com

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

[**Tezcan, S., Karsavuran, Y., Pehlivan, E. & Anlaş, S.** 2011. Contributions to the Dermaptera fauna of Turkey. *Munis Entomology & Zoology*, 6 (2): 929-931]

ABSTRACT: In this paper, some distributional data on nine species belonging to four families of Dermaptera fauna of Turkey housed in the collection of Lodos Entomological Museum, Turkey (LEMT), Ege University, İzmir, Turkey, have been given.

KEY WORDS: Dermaptera, Fauna, LEMT, Turkey.

Publications on Turkish Dermaptera fauna started with Werner (1901) and then continued with the studies of Burr (1947, 1952a,b), Weidner (1957), Maran (1977), Haas & Henderickx (2002). In addition to these, studies of Önder et al. (1999), Kocarek (2007), Tezcan & Kocarek (2009) and Anlaş et al. (2010) have great importance in this field.

In this paper, we would like to contribute new distributional records to Turkish Dermaptera fauna based on the material collected between the years of 1970-2010 from different localities of Turkey. Material housed in the collection of Lodos Entomological Museum, Turkey (LEMT), Ege University, İzmir, Turkey.

RESULTS

Anisolabididae

***Euborellia annulipes* (Lucas, 1847)**

Material: İzmir, Bornova, 15.I.1972, under stone (1). Totally 1 specimen.

Forficulidae

***Anechura bipunctata* (Fabricius, 1781)**

Material: Bayburt, Kop, 10.VII.1978, (2); **Gümüşhane**, Torul, 10.VII.1978, weeds, (1); **Kars**, Central province, 16.VII.1982, under stone, (3). Totally 6 specimens.

***Forficula aeticola* Brunner, 1882**

Material: İzmir, Bozdağ, 1200 m, 30.XII.1971, under stone, (1); **Yozgat**, Çekerek, 07.VIII.1979, *Iris* sp., (3). Totally 4 specimens.

***Forficula auricularia* Linnaeus, 1758**

Material: **Ankara**, Çubuk, 03.VIII.1979, ***Malus domestica***, (2), Kızılcahamam, 12.VII.1979, ***Pyrus communis***, (1); **Antalya**, Kaş, 01.VIII.1985, on the ground, (1), 02.VIII.1985, under stone, (2), Sahlıkent, 26.VII.1985, ***Verbascum*** sp., (1); **Artvin**, Hopa, 07.VII.1978, ***Rubus*** sp., (1), Karagöl, 03.V.1979, under stone, (1); **Aydın**, Germencik, 04.VIII.1974, under stone, (1); **Bartın**, Amasra, 17.VII.1979, ***Juglans regia***, (1), Ulus, 12.VII.1979, ***Quercus*** sp., (1); **Bolu**, Mudurnu, 14.VII.1979, ***Prunus domestica***, (1); **Çanakkale**, Bozcaada, 18.IX.1985, weeds, (2); **Çankırı**, Central province, 03.VIII.1979, ***Malus domestica***, (3); **Çorum**, Central province, 05.VIII.1979, ***Quercus*** sp., (1), ***Prunus armeniaca***, (1), ***Pyrus elaeagnifolia***, (1); **Edirne**, Lalapaşa, 02.VI.1971, under stone, (1); **Eskişehir**, Mihaliçcik, 09.VII.1979, weeds, (1); **Giresun**, Şebinkarahisar, 12.VII.1978, weeds, (1); **İzmir**, Bornova, 15.V.1977, weeds, (1), Konak, Gültepe, 14.IV.1977, weeds, (1); **Kahramanmaraş**, Göksun, 1450 m, 21.VII.1984, ***Cirsium*** sp., (2); **Karabük**, Eflani, 03.VIII.1979, ***Ulmus*** sp., (2), Eskipazar, 18.VII.1979, ***Prunus domestica***, (1);

Kayseri, Hacılar, 10.VIII.1979, weeds, (2), Himmetdede, 08.VIII.1979, *Prunus armeniaca*, (1); **Kırıkkale**, Keskin, 25.VI.1980, *Pyrus communis*, (2); **Konya**, Akşehir, 21.IV.1979, under stone, (1), Kulu, 02.V.1979, weeds, (1); **Manisa**, Central province, 10.V.1999, (1), Akhisar, 26.XI.1973, under stone, (1); **Mersin**, Arslanköy, 08.VII.1986, *Quercus* sp., (1), 08.VII.1986, (1), Gülnar, 04.VII.1986, *Styrax* sp., (1); **Muğla**, Fethiye, 09.VIII.1975, *Pinus* sp., (2); **Nevşehir**, Avanos, 16.VIII.1979, *Salix* sp., (2); **Ordu**, Mesudiye, 14.VII.1978, weeds, (1); **Sivas**, Koyulhisar, 12.VII.1978, *Quercus* sp., (2); **Tekirdağ**, Central province, 01.VI.1973, *Fraxinus* sp., (1); **Uşak**, Eşme, 23.V.1998, (2); **Yozgat**, Çekerek, 07.VIII.1979, *Iris* sp., (1), dung, (1), Sorgun, 08.VIII.1979, *Salix* sp., (1); **Zonguldak**, Ereğli, Çayköy, 21.VI.1989, *Corylus avellana*, (1). Totally 57 specimens.

***Forficula lurida* Fischer, 1853**

Material: **Adana**, Kozan, 03.V.1985, *Triticum aestivum*, (3), Tufanbeyli, 12.VII.1986, *Berberis* sp., (2); **Adıyaman**, Nemrut, 28.IV.1985, under stone, (1); **Ankara**, Kızılcahamam, 12.VII.1979, *Populus* sp., (1), *Malus domestica*, (1); **Antalya**, Central province, 17.V.1986, *Prunus dulcis*, (1), Dağ, 17.V.1986, *Quercus ilex*, (2), Demre, 01.VIII.1985, *Quercus* sp., (6), 21.V.1986, *Triticum aestivum*, (3), on the ground, (1), under stone, (1), Elmalı, 21.V.1986, under stone, (1), Kaş, 03.V.1972, (1), 01.VIII.1985, *Quercus* sp., (3), *Ceratonia siliqua*, (3), on the ground, (1), 21.V.1988, under stone, (1), Kumluca, 10.V.1986, under stone, (1), Sineklibel, 02.VIII.1985, *Quercus* sp., (1); **Artvin**, Central province, 08.VII.1978, *Tamarix* sp., (1), Sarp, 08.VII.1978, weeds, (2); **Bahkesir**, Havran, 28.IV.1991, under stone, (4), 12.VII.1991, under stone, (1); **Bartın**, Ulus, 17.VII.1979, *Quercus* sp., (1), under stone, (1); **Bolu**, Central province, 27.V.1980, *Quercus* sp., (1), Mengen, 14.VIII.1979, on the ground, (2), Mudurnu, 14.VII.1979, weeds, (1); **Bursa**, İznik, 26.IV.1985, *Prunus domestica*, (1); **Çanakkale**, Central province, 30.VI.1975, weeds, (2), 01.VI.1997, weeds, (1), Eceabat, Seddülbahir, 31.V.1975, *Malva* sp., (2), Gökçeada, 26-29.V.1975, weeds, (2), 26.V.1975, weeds, (1); **Gaziantep**, Central province, 06.VI.1985, *Rosa* sp., (2), *Pyrus communis*, (1), İslahiye, Fevziye, 03.VI.1985, *Pinus* sp., (2); **Giresun**, Şebinkarahisar, 12.VII.1978, under stone, (1), weeds, (2), *Crataegus* sp., (1); **Gümüşhane**, Torul, 10.VII.1978, on the ground, (1); **Hatay**, Soğukoluk, 30.V.1985, *Diospyros kaki*, (1); **İzmir**, Balçova, 18.V.1971, (1), 29.V.1977, under stone, (1), 11.V.1978, under stone, (1), Bergama, Göçbeyli, 28.I.2003, under stone, (1), Bornova, 25.III.1977, under stone, (2), 04.IV.1977, weeds, (1), 25.V.1977, weeds, (1), 28.V.1977, under stone, (1), Kemalpaşa, Savandağ, 05.V.1994, *Prunus avium*, (1), Konak, Gültepe, 14.IV.1977, weeds, (1); **Kahramanmaraş**, Central province, 11.VI.1985, *Acacia* sp., (1), Ahır Dağı, 10.VI.1985, *Elaeagnus angustifolia*, (1), Gökşun, 1450 m, 21.VII.1984, *Cirsium* sp., (5), 02.V.1986, (1), Pazarcık, 07.VI.1985, *Quercus* sp., (1); **Karabük**, Central province, 29.V.1989, *Prunus domestica*, (2), Eflani, 18.VII.1979, weeds, (1), 03.VIII.1979, *Ulmus* sp., (1), Eskipazar, 29.V.1980, *Verbascum* sp., (1); **Karaman**, Bucakışla, 26.IV.1979, weeds, (1), under stone, (1); **Kastamonu**, Central province, 19.VII.1979, *Pinus* sp., (1), Cide, 03.VI.1980, *Laurus* sp., (1), Küre, 19.VII.1979, *Malus domestica*, (1), weeds, (1); **Kırklareli**, Vize, 02.VI.1975, weeds, (1); **Kilis**, Central province, 26.IV.1986, on the ground, (1); **Manisa**, Akhisar, 31.V.1978, under stone, (1); **Mardin**, Yeşilli, 13.VI.1975, *Juglans regia*, (1), **Mersin**, Anamur, 18.IV.1985, *Cistus* sp., (2), Cehennemdere, 29.V.1985, under stone, (2), Gözne, 26.IV.1985, weeds, (1), Gülnar, 19.IV.1985, dung, (1), 04.VII.1986, *Styrax* sp., (1), Güzeloluk, 06.VII.1986, under stone, (1), Silifke, Kırabasi, 05.VII.1986, *Juniperus* sp., (1), Uzuncaburç, 880 m, 05.VII.1986, weeds, (1); **Muğla**, Fethiye, 09.VIII.1975, *Pinus* sp., (1); **Ordu**, Gökçöy, 12.VII.1978, under stone, (1), Mesudiye, 14.VII.1978, weeds, (1); **Osmaniye**, Düziçi, 07.V.1985, *Triticum aestivum*, (1), Gavurdağı, 08.VI.1985, *Quercus* sp., (2), *Rubus* sp., (1), *Salix* sp., (1); **Tekirdağ**, Central province, 01.IV.1976, *Fraxinus* sp., (2); **Tokat**, Artova, 02.VII.1978, under stone, (1), on the ground, (1); **Trabzon**, Maçka, 08.VII.1978, weeds, (1); **Zonguldak**, Devrek, 29.V.1980, *Fagus* sp., (2). Totally 128 specimens.

***Forficula smyrnensis* Audinet & Serville, 1839**

Material: **Antalya**, Dağ, 17.V.1986, *Quercus ilex*, (1); **Hatay**, Soğukoluk, 30.V.1985, *Diospyros kaki*, (1); **Mersin**, Anamur, 03.VII.1988, (1), Çamlıyayla, 10.VII.1986, *Populus* sp., (1), Fındıklı, 1300 m, 07.VII.1986, (1). Totally 5 specimens.

***Guanchia hincksi* (Burr, 1947)**

Material: **Antalya**, Central province, 19.V.1988, (1); **Balıkesir**, Central province, 26.IV.1975, *Quercus* sp., (1); **Isparta**, Eğirdir, 08.VIII.1975, *Fraxinus* sp., (1); **İzmir**, Kemalpaşa, Örnekköy, 21.VIII.1994, *Prunus avium*, (1); **Mersin**, Gözne, 26.IV.1985, *Pinus* sp., (1), Tarsus, 29.IV.1985, weeds, (1); **Yozgat**, Çekerek, 07.VIII.1979, *Iris* sp., (1). Totally 7 specimens.

Labiduridae***Labidura riparia* (Pallas, 1773)**

Material: **Ankara**, Central province, 07.1990, on the ground, (1); **İzmir**, Bornova, 06.VI.1976, under stone, (1), Kemalpaşa, Ören, 28.VIII.1998, pitfall trap, (1). Totally 3 specimens.

Spongiphoridae***Isolaboides kosswigi* (Burr, 1947)**

Material: **İzmir**, Ödemiş, Bozdağ, 30.XII.1971, under stone, (4), 30.XII.1972, (1), Kiraz, 25.I.1972, *Ulmus* sp., (1). Totally 6 specimens.

LITERATURE CITED

- Anlaş, S., Haas, F. & Tezcan, S.** 2010. Dermaptera (Insecta) fauna of Bozdağlar Mountain, Western Turkey. Linzer biologischen Beiträge, 42 (1): 389-399.
- Burr, M.** 1947. Two new species of Dermaptera from Turkey. Proceedings of the Royal Entomological Society of London (B), 16: 60-65.
- Burr, M. 1952a.** Field notes from Anatolia. IX. A circular tour. Entomologist's Record, 64: 309-315.
- Burr, M. 1952b.** On the distribution of Turkish Dermaptera. Revue de la Faculté des Sciences de l'Université d'Istanbul, Série B, 17 (2): 131-134.
- Haas, F. & Henderickx, H.** 2002. Dermaptera from Cyprus and Turkey. Beiträge zur Entomologie, 52 (1): 235-239.
- Kocarek, P.** 2007. *Guanchia brignolii* Vigna Taglianti, 1974 in Turkey (Dermaptera: Forficulidae). Acta Entomologica Slovenica, 15 (1): 91-94.
- Maran, J.** 1977. 34. Wissenschaftliches Ergebnis der zoologischen Expedition des Nationalmuseums in Prag nach der Türkei. Dermaptera. Acta Entomologica Musei Nationalis Pragae, 39: 253-261.
- Önder, F., Pehlivan, E., Karsavuran, Y., Tezcan, S. & Kısmalı, Ş.** 1999. Catalogue of the collection of Dermaptera preserved in the Prof. Dr. Niyazi Lodos Museum, İzmir, Turkey. Ege Üniversitesi Ziraat Fakültesi Dergisi, 36 (1-3): 157-162.
- Tezcan, S. & Kocarek, P.** 2009. Dermaptera fauna of the ecologically managed cherry orchards in western Turkey. Munis Entomology & Zoology, 4 (2): 572-576.
- Weidner, H.** 1957. Die Ohrwürmer der Türkei. Entomologische Mitteilungen aus dem Zoologischen Staatsinstitut und Zoologischen Museum Hamburg, 10: 290-305.
- Werner, F.** 1901. Die Dermapteren und Orthopteren Kleinasiens. Sitzungsberichte der kaiserlichen Akademie der Wissenschaften. Mathematisch-naturwissenschaftliche Classe, 110: 259-306.