

Contributions to the knowledge of the Tenebrionidae (Coleoptera) from Turkey Part II. Opatrinae, Tenebrioninae, Adeliinae

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Summary

In this study, it has been determined that totally 37 species belonging to Opatrinae, 38 species belonging to Tenebrioninae and 2 species belonging to Adeliinae subfamilies of Tenebrionidae occurring in the collection of LEMT (Lodos Entomological Museum Turkey). Amongst those *Dendarus (Pandarinus) armeniacus* Baudi, 1876, *D. (Pandarinus) caelatus* Brullé, 1832, *Pedinus* (s. str.) *quadratus* Brullé, 1832, *P.* (s. str.) *reitteri* Seidlitz, 1893, *Lobodera (Penthomagus) iners* Ménétrés, 1832, *Blaps rotundata* Solier, 1848 and *Nalassus dryadophilus* (Mulsant, 1854) are the first reliable records from Turkey. In addition to these 16 species are endemic.

Key words: Coleoptera, Tenebrionidae, fauna, new records, Turkey

Anahtar sözcükler: Coleoptera, Tenebrionidae, fauna, yeni kayıt, Türkiye

Introduction

Tenebrionidae fauna of Turkey is quite rich and the studies of Sahlberg (1912-1913), Kaszab (1938; 1939; 1959; 1961), Gadeau de Kerville (1939), Bytinski-Salz (1956), Lodos (1998), Ferrer & Soldati (1999), Keskin (1999) and Tezcan et al. (2000) have great importance. Recently, 42 species belonging to

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Lagriinae, Pimeliinae, Bolitophginae and Diaperinae subfamilies of Tenebrionidae occurring in LEMT (Lodos Entomological Museum Turkey) have been reported by Tezcan et al. (2004) and the total number of species belonging to the above mentioned subfamilies have been rose to 104 in Turkey.

In this second part, material belonging to Opatrinae, Tenebrioninae and Adeliinae occurring in LEMT have been evaluated. The aim of this study was to draw a clear view of Turkish Tenebrionids at the end of these studies.

Material and Methods

Material have been collected under stones by hand and knock down, sweeping of vegetation and pitfall trap methods from the different parts of Turkey mainly by field studies of the projects (TUBITAK-TOAG/168, 336, 502; E. U.Rek./93 ZRF 001) during the years of 1967-1999. In addition to these, material collected and given as a gift to the museum by researchers of Plant Protection Research Institutes, amateurs, students have also been included in this study.

Subfamilies and tribus were given in phylogenetic order and species were listed alphabetically within each tribus. The information concerning specific name, describer and description date, locality, altitude (in brackets) and date of collection, place/ plant on which the species were collected, determinant and number of species (in brackets) was given.

Material have been determined by The Late Prof. Dr. N. Lodos (L.), Dr. E. Kweiton (K.), Dr. J. Picka (P.) and Dr. J. Ferrer (F.). The rest of the material have been determined by B. Keskin and abbreviation of which has not also been given. In this paper, classification and nomenclature of darkling beetles suggested by Lawrence & Newton (1995), Iwan (2001), Soldati & Soldati (2003) have been followed. Some recent revisions of taxa have also been taken into account.

Results

In this study, 77 species and subspecies of 26 genera belonging to three subfamilies of Tenebrionidae have been reported in Turkey.

Opatrinae: Dendarini

Dendarus Dejean, 1821

Dendarus (Pandarinus) armeniacus Baudi, 1876

Material: Mersin (Uzuncaburç), 24.iv.1985, on the ground, (F.) (1); **Şırnak** (Beytüşşebab), 15.vi.1976, weeds, (F.) (1). Totally 2 specimens. This species constitutes a new record for Turkey.

Dendarus (Pandarinus) caelatus Brullé, 1832

Material: Manisa (Kula), 15.iv.1975, under stone, (2), (F.) (1); **Niğde** (Ulukışla), 24.iv.1976, under stone, (6). Totally 9 specimens. This species constitutes a new record for Turkey.

Dendarus (Pandarinus) crenulatus Ménétries, 1832

Material: Adana (Gezbeli), 05.vi.1984, under stone, (3); **Ankara** (Central province), 05.v.1979, weeds, (P.) (1); **Çorum** (İskilip), 03.vi.1978, on the ground,

(1), (L.) (1); **Diyarbakır** (Karacadağ), 31.vii.1973, **Platanus** sp., (1); 17.iv.1982, on the snow, (1), (F.) (1); 27.viii.1982, **Astragalus** sp., (L.) (2); **Gümüşhane** (Torul), 10.vii.1978, on the ground, (L.) (2); **Kahramanmaraş** (Elbistan-Nurhak), 03.v.1986, (1); (Elbistan), 03.v.1986, on the ground, (1); **Konya** (Beyşehir), 23.iv.1979, under stone, (L.) (1); **Niğde** (Ulukışla), 28.iv.1979, under stone, (L.) (1); **Sinop** (Central province), 06.vi.1980, **Poterium** sp., (L.) (1); (Boyabat), 21.vii.1979, under stone, (L.) (2); **Tokat** (Zile), 03.vii.1978, weeds, (L.) (1). Totally 21 specimens.

Dendarus (Pandarinus) dalmatinus Germar, 1824

Material: **Antalya** (Akseki), 23.iv.1984, on the ground, (2). Totally 2 specimens.

Dendarus (Pandarinus) foveolatus Seidlitz, 1893

Material: **Antalya** (Korkuteli), 09.iv.1984, **Medicago sativa**, (F.) (1); **Çorum** (İskilip), 03.vii.1978, on the ground, (P.) (1); **Diyarbakır** (Karacadağ), 17.iv.1982, on the snow, (1); 18.iv.1982, on the snow, (1); **Mersin** (Güzeloluk), 25.iv.1985, under stone, (1); (Namrun), 28.iv.1985, under stone, (1); **Kahramanmaraş** (Nurhak Mountain), 13.vi.1985, dung, (1); **Kütahya** (Central province), 02.v.1973, **Pinus** sp., (F.) (1). Totally 8 specimens.

Dendarus (Pandarinus) messenius Brullé, 1832

Material: **Antalya** (Elmalı), 08.iv.1984, **Verbascum** sp., (2); **Çanakkale** (Gökçeada), 24.v.1975, weeds, (P.) (2); **İzmir** (Ödemiş), 24.iv.1973, **Populus** sp., (2); (Tire), 04.iv.1984, weeds, (F.) (1); **Manisa** (Kula), 15.iv.1975, under stone, (F.) (1); **Muğla** (Seki), 09.vi.1973, (1); **Uşak** (Central province), 29.iv.1973, **Centaurea** sp., (1). Totally 10 specimens.

Dendarus (Pandarinus) moesiacus Mulsant et Rey, 1854

Material: **İzmir** (Urla), 26.ii.1984, on the ground, (F.) (1); **Manisa** (Kula), 15.iv.1975, under stone, (2); **Mersin** (Güzeloluk), 25.iv.1985, under stone, (F.) (1). Totally 4 specimens.

Dendarus (Pandarinus) punctatus Serville, 1825

Material: **Hatay** (Yayladağ), 31.v.1985, on the ground, (F.) (1); **Kayseri** (Himmetdede), 08.viii.1979, **Astragalus** sp., (P.) (1); (L.) (2); **Astragalus** sp., (F.) (1). Totally 5 specimens.

Dendarus (Pandarinus) scrobiculatus Seidlitz, 1893

Material: **Nevşehir** (Avanos), 16.viii.1979, on the ground, (P.) (2). Totally 2 specimens. Endemic species.

Dendarus (Pandarinus) stygius stygius Walth, 1838

Material: **İzmir** (Bornova), 30.vi.2001, **Anthemis** sp., (1); (Çeşme), 09.xii.1971, on the ground, (L.) (1); (Gümüldür), 01.i.1972, on the ground, (L.) (3). Totally 5 specimens.

Dendarus (Pandarinus) tenellus Mulsant & Rey, 1854

Material: **Adıyaman** (Nemrut Mountain), 07.vi.1976, under stone, (F.) (3); **Aksaray** (Mamasın Dam), 01.v.1979, under stone, (L.) (1); **Diyarbakır**

(Karacadağ), 27.viii.1982, **Astragalus** sp., (L.) (1); 17.iv.1987, on the snow, (F.) (1); **Kahramanmaraş** (Nurhak Mountain) (1480 m), 13.vi.1985, under stone, (F.) (1); **Konya** (Beyşehir), 23.iv.1979, under stone, (L.) (1); **Mersin** (Güzeloluk), 25.iv.1985, **Astragalus** sp., (F.) (1); **Niğde** (Bor), 30.iv.1979, under stone, (P.) (1); **Şırnak** (Beytüşşebab), 15.vi.1976, weeds, (F.) (2). Totally 12 specimens.

Micrositus Mulsant & Rey, 1854

Micrositus (s. str.) **opacus** Reitter, 1904

Material: Mersin (Güzeloluk), 25.iv.1985, on the ground, (1). Totally 1 specimen. Endemic species.

Pedinini

Cabirutus Strand, 1929

Cabirutus cribricollis (Baudi, 1875)

Material: Mersin (Güzeloluk), 25.iv.1985, under stone, (1). Totally 1 specimen.

Cabirutus gracilis (Reitter, 1904)

Material: Hatay (Harbiye), 31.v.1985, weeds, (1); **İzmir** (Çeşme), 09.xii.1971, under stone, (P.) (15); (Mordoğan), 16.vii.1971, **Prunus amygdali**, (1). Totally 17 specimens.

Colpotus Mulsant & Rey, 1853

Colpotus dentatus Grimm & Schawaller, 2000

Material: Aydın (Kuşadası), 14.vi.1977, **Olea europea**, (1). Totally 1 specimen. Endemic species.

Colpotus punctipleuris Reitter, 1904

Material: Konya (Hadim), 27.iv.1979, under stone, (P.) (1). Totally 1 specimen. Endemic species.

Colpotus sulcatus asiaticus Koch, 1944

Material: Muğla (Marmaris), 06.vi.1973, on the ground, (F.) (1). Totally 1 specimen.

Colpotus vogti Koch, 1944

Material: İzmir (Bornova), 25.v.1977, weeds, (F.) (1); (Bozdağ), 01.vii.2001, pitfall trap, (F.) (1); (Ödemiş), 24.iv.1973, **Populus** sp. (1); **Isparta** (Kovada), 11.vi.1977, on the ground, (1). Totally 4 specimens.

Pedinus Latreille, 1796

Pedinus (s. str.) **bodemeyeri** Reitter, 1904

Material: Isparta (Eğirdir), 27.iv.1985, **Prunus amygdali**, (P.) (1); **Mersin** (Güzeloluk), 25.iv.1985, on the ground, (1). Totally 2 specimens. Endemic species.

Pedinus (s. str.) **kiesenwetteri** Seidlitz, 1893

Material: Ankara (Tuzgölü), 02.v.1979, under stone, (3); **Çorum** (Central province), 02.vii.1974, on the ground, (1). Totally 4 specimens. Endemic species.

Pedinus (s. str.) **marani** Kaszab, 1960

Material: **Kayseri** (Erciyes), 10.viii.1979, under stone, (L.) (5); (Erciyes), (2300 m), 28.vi.1980, under stone, (L.) (3); (2600 m), 10.viii.1979, under stone, (L.) (10); (2700 m), 28.vi.1980, under stone, (P.) (1); (L.) (2); **Nevşehir** (Ürgüp), 05.viii.1979, under stone, (L.) (1). Totally 22 specimens. Endemic species.

Pedinus (s. str.) **quadratus** Brullé, 1832

Material: **İzmir** (Çeşme), 12.xi.1973, under stone, (P.) (1). Totally 1 specimen. This species constitutes a new record for Turkey.

Pedinus (s. str.) **reitteri** Seidlitz, 1893

Material: **Kütahya** (Tunçbilek), 04.v.1973, **Vicia cracca**, (1). Totally 1 specimen. This species constitutes a new record for Turkey.

Pedinus (s. str.) **strabonis** Seidlitz, 1893

Material: **Adana** (Gezbeli), 15.vi.1985, weeds, (1); **Ağrı** (Cumaçay), 12.v.1974, under stone, (2); **Ankara** (Ayaş), 10.vii.1979, weeds, (2); (Elmadağ), 04.v.1979, under stone, (P.) (1); (Kızılcahamam), 12.vii.1979, weeds, (1); (Tuzgölü), 02.v.1979, under stone, (1); **Bursa** (İzmit), 20.vii.1972, **Vitis vinifera**, (1); **Çorum** 05.viii.1979, under stone, (L.) (2); dung, (L.) (1); **Diyarbakır** (Karacadağ), 27.viii.1982, **Astragalus** sp., (2); **Gümüşhane** (Torul), 10.vii.1978, on the ground, (3); **Isparta** (Kovada), 11.vi.1973, on the ground, (3); **İstanbul** (Erenköy), 07.vii.1979, weeds, (1); **Kastamonu** (Küre), 04.vi.1980, under stone, (3); **Kayseri** (Erciyes) (2600 m), 10.viii.1979, under stone, (1); (Erciyes), (2700 m), 28.vi.1980, under stone, (1); (Himmetdede), 08.viii.1979, **Astragalus** sp., (L.) (1); (İncesu), 13.viii.1979, on the ground, (1); 27.vi.1980, on the ground, (2); **Kırıkkale** (Keskin), 04.v.1979, under stone, (L.) (1); **Konya** (Karapınar), 28.iv.1979, under stone, (1); (Yunak), 22.iv.1979, under stone, (2); **Mersin** (Güzeloluk), 30.v.1984, under stone, (1); **Muğla** (Seki), 09.vi.1973, (1); **Nevşehir** (Kozaklı), 17.viii.1979, under stone, (1); **Niğde** (Çamardı), 30.vi.1980, under stone, (L.) (1). Totally 38 specimens. Endemic species.

Opatrini

Gonocephalum Solier, 1834

Gonocephalum (s. str.) **costatum** (Brullé, 1832)

Material: **Adana** (Central province), 13.viii.1971, (L.) (1); 10.vi.1972, **Onobrychis sativa**, (1); **Ağrı** (Hamur), 10.viii.1974, weeds, (1); **Aksaray** (Ihlara Valley), 01.v.1979, **Prunus domestica**, (1); **Ankara** (Şereflikoçhisar), 02.v.1979, under stone, (L.) (1); **Balıkesir** (İvrindi), 26.xi.1973, under stone, (1); (L.) (1); (Savaştepe), 27.xi.1973, under stone, (2); **Pinus** sp., (L.) (1); **Çanakkale** (Gökçeada), 26.v.1975, on the ground, (1); **Diyarbakır** (Bismil-Merkez), 04.iv.1972, (2); (Ergani-Bereketli), 17.iv.1972, (3); **Hakkari** (Çukurca), 11.vi.1975, **Prunus** sp., (1); (Şemdinli), 11.vi.1975, **Pyrus communis**, (P.) (1); **Isparta** (Central province), 12.vi.1973, weeds, (1); (Eğirdir), 10.vi.1973, weeds, (1); **İstanbul** (Erenköy), 07.vi.1975, weeds, (1); (L.) (1); **İzmir** (Bornova), 16.vi.1961, (1); 12.iv.1975, weeds, (L.) (1); 14.iv.1975, weeds, (L.) (1); 15.v.1977,

weeds, (L.) (2); (Çeşme), 12.xi.1973, under stone, (2); (Gaziemir), 06.v.1977, **Olea europea**, (L.) (1); (Kemalpaşa), 09.iv.1962, (1); (Kınık), 02.ix.1971, (3); **Kahramanmaraş** (Elbistan), 28.iv.1973, weeds, (1); **Kayseri** (Erciyes), (2300 m), 28.vi.1980, under stone, (L.) (2); **Konya** (Akşehir), 22.iv.1979, under stone, (P.) (1); (Bozkır), 24.iv.1979, under stone, (L.) (1); **Nevşehir** (Kozaklı), 17.viii.1979, under stone, (L.) (2); **Muğla** (Seki), 09.vi.1973, (1). Totally 42 specimens.

Gonocephalum (s. str.) **granulatum pusillum** (Fabricius, 1791)

Material: **Afyon** (Central province), 17.v.2001, **Helianthus annuus**, (2); **Ağrı** (Çukurçayır), 02.vi.1974, under stone, (6); (Tendürek Mountain), 07.viii.1977, under stone, (1); **Aksaray** (Ortaköy), 01.v.1979, under stone, (P.) (5); **Çankırı** (Çerkeş), 23.vii.1979, weeds, (1); **Çorum** (İskilip), 03.vii.1978, on the ground, (4); (L.) (1); **Denizli** (Çardak-Çambaşı), 06.viii.1975, dung, (2); **Eskişehir** (Sivrihisar), 05.v.1979, under stone, (2); **Prunus domestica**, (1); **Diyarbakır** (Hazro-Dersil), 27.iv.1972, (1); (Karacadağ), 27.viii.1982, **Astragalus** sp., (1); **Gümüşhane** (Kop), 10.vii.1978, under stone, (1); (L.) (1); 14.vii.1982, under stone, (2); **Hakkari** (Şemdinli), 12.vi.1975, **Pyrus communis**, (1); **İzmir** (Bayındır), April, 1991, (3); (Bozdağ), 13.iv.1978, on the ground, (L.) (3); (Emiralem), 02.v.1993, weeds, (1); (Karagöl), 03.v.1979, under stone, (L.) (3); (Mordoğan), July, 1973, on the ground, (1); (Ödemiş), 25.iv.1973, **Quercus** sp., (1); (Seferihisar), 12.v.1991, on the ground, (2); (Urla), 10.ii.1983, **Verbascum** sp., (1); **Kars** (Central province), 16.vii.1982, under stone, (1); **Kastamonu** (Central province), 19.vii.1979, on the ground, (1); **Kayseri** (Erciyes), 10.viii.1979, under stone, (7); (2700 m), 28.vi.1980, under stone, (1); (2300 m), 28.vi.1980, under stone, (5); (2600 m), 10.viii.1979, under stone, (19); **Kırıkkale** (Keskin), 04.v.1979, under stone, (1); **Kırşehir** (Çiçek Mountain), 19.viii.1979, weeds, (2); **Konya** (Bozkır), 24.v.1978, under stone, (1); 24.iv.1979, under stone, (3); **Kütahya** (Central province), 23.v.1971, (1); **Manisa** (Central province), 22.v.2001 **Zea mays**, (1); (Kula), 02.v.1979, under stone, (L.) (1); **Niğde** (Çamardı), 30.vi.1980, under stone, (L.) (1); (Ulukışla), 28.iv.1979, under stone, (L.) (1); **Tunceli** (Pülümür), 17.vii.1982, under stone, (1); **Van** (Başkale), 10.vi.1975, under stone, (1); (F.) (1). Totally 103 specimens.

Gonocephalum (s. str.) **rusticum** (Olivier, 1811)

Material: **Adana** (Aksu), 16.iv.1973, on the ground, (1); (Karataş), 01.v.1985, weeds, (1); **Ağrı** (Hamur), 10.viii.1974, weeds, (1); **Antalya** (Kekova), 31.vi.1975, on the ground, (9); **Aydın** (Selçuk), 27.vii.1970, (22); 29.vi.1971, (4); **Prunus amygdali**, (1); **Citrillus vulgaris**, (1); **Balıkesir** (İvrindi), 26.xi.1973, under stone, (1); **Bitlis** (Central province), 12.vi.1976, weeds, (1); **Denizli** (Çardak-Çambaşı), 06.viii.1975, under stone, (1); **Hatay** (Central province), 07.vi.1973, weeds, (1); **İzmir** (Central province), 11.v.1937, **Nicotiana tabacum**, (L.) (3); (Ayrancılar), 29.vi.1971, **P. persica**, (1); (Bayındır), 24.iv.1973, on the ground, (1); (Bornova), 25.iv.1962, **Lycopersicum esculentum**, (2); 14.iii.1975, weeds, (1); (Dikili), 02.viii.1976, **N. tabacum**, (1); (Gümüldür), 28.iii.1972, on the ground, (1); 09.iv.1973, **Cupressus** sp., (1); (Mordoğan), July, 1973, on the ground, (2); (Tire), 10.xi.2001, under stone, (1); (Yamanlar), 30.vii.1973, pitfall trap, (1); **Kırşehir** (Çiçek Mountain), 19.viii.1979,

weeds, (1); **Konya** (Central province), 25.iv.1979, under stone, (1); (Akşehir), 22.iv.1979, under stone, (3); (Karapınar), 28.iv.1979, under stone, (1); **Kütahya** (Central province), (1220 m), 23.v.1971, (1); **Manisa** (Alaşehir), 14.iv.1973, **Vitis vinifera**, (1); **Mersin** (Cennet), 22.iv.1976, on the ground, (1); **Muğla** (Seki), 09.vi.1973, (6); **Niğde** (Çiftehan), 29.iv.1979, under stone, (3); (Ulukışla), 24.iv.1976, under stone, (1). Totally 78 specimens.

Gonocephalum (s. str.) **setulosum** (Faldernann, 1837)

Material: **Ağrı** (Tahir Pass), 05.viii.1977, under stone, (1); weeds, (1); **Burdur** (Gülhisar), 10.vi.1973, weeds, (1); (Yeşilova), 12.vi.1973, under stone, (1); **Çorum** (Central province), 05.viii.1979, under stone, (1); **Nevşehir** (Kozaklı), 17.viii.1979, dung, (1). Totally 6 specimens.

Lobodera Mulsant & Rey, 1859

Lobodera (Penthomagus) iners Ménétrés, 1832

Material: **Van** (Başkale), 13.vi.1976, **Astragalus** sp., (F.) (1). Totally 1 specimen. This species constitutes a new record for Turkey.

Mesomorphus Seidlitz, 1893

Mesomorphus longulus (Reiche et Saulcy, 1857)

Material: **Diyarbakır** (Bismil-Kamberli), 27.iv.1972, (1); (Hazro-Dersil), 27.iv.1972, (2); (Sirimi), 17.iv.1972, (1). Totally 4 specimens.

Opatroides Brullé, 1832

Opatroides curtulus Fairmaire, 1892

Material: **İzmir** (Bornova), 28.iv.1978, weeds, (F.) (1). Totally 1 specimen.

Opatroides punctulatus Brullé, 1832

Material: **Ankara** (Tuz gölü), 02.v.1979, weeds, (P.) (1); **Matricaria** sp., (L.) (1); **Antalya** (Serik), 28.iv.1967, (1); **Aydın** (Central province), 15.v.1989, **Nicotiana tabacum**, (1), (L.) (7); **Bitlis** (Central province), 12.vi.1976, weeds, (1); **Denizli** (Pamukkale), 15.iv.1973, on the ground, (2); 19.iv.1976, on the ground, (1); **Diyarbakır** (Ergani), 09.iv.1967, (1); **Gaziantep** (Central province), 06.vi.1985, **Verbascum** sp., (1); on the ground, (1); (Islahiye), 03.vi.1985, on the ground, (6); (Nizip), 05.vi.1985, weeds, (1); **Isparta**, 10.vii.1963, weeds, (1); **İzmir** (Central province), 11.v.1937, **N. tabacum**, (L.) (1); 14.v.1960, **Matricaria** sp., (4); 18.iv.1961, (1); (Balçova), 19.iv.1973, on the ground, (3); 23.iv.1978, weeds, (1); (Bayındır), April, 1990, **Cucumis sativus**, (L.) (5); (Bornova), 21.vii.1957, **C. melo**, (14); 29.vii.1957, **C. melo**, (1); 21.v.1959, (2); 03.v.1960, (2); 07.v.1960, weeds, (2); 31.v.1960, (1); 16.v.1961, (1); 22.v.1961, weeds, (1); 20.vi.1961, **Capsicum annuum**, (1); 26.vi.1961, on the ground, (2); 21.iii.1962, (1); 13.iv.1962, (1); 27.iv.1962, (2); 03.v.1962, (1); 11.v.1962, (1); 12.v.1962, (1); 03.v.1963, (1); May, 1964, on the ground, (3); 18.v.1964, weeds, (3); July, 1964, (2); 08.v.1974, weeds, (1); 28.xi.1975, under stone, (2); 12.v.1976, (L.) (1); 17.v.1976, weeds, (L.) (1); 28.v.1976, weeds, (L.) (2); 04.v.1977, weeds, (1); 16.v.1977, weeds, (L.) (1); 25.v.1977, weeds, (1); 28.v.1977, weeds, (1); 30.v.1977, weeds, (1); 25.i.1978, weeds, (L.) (1); 28.iv.1978, weeds, (1);

14.v.1978, weeds, (L.) (2); 31.iii.1984, under stone, (1); 03.v.1991, under stone, (1); 09.v.1991, on the ground, (2); 13.iv.1993, on the ground, (1); 16.iv.1993, weeds, (1); 18.v.1993, weeds, (1); 21.v.1993, weeds, (2); 05.v.2000 on the ground, (2); (Bozdağ), 13.iv.1978, on the ground, (L.) (1); (Cumaovası), 09.iv.1973, grasses, (1); (Çeşme), 11.iv.1973, **Asphodelus** sp., (3); (Emiralem), 15.v.1993, on the ground, (1); (Gaziemir), 06.v.1977, **Olea europea**, (L.) (2); (İnciraltı), 19.v.1993, weeds, (2); (Kemalpaşa), 09.iv.1962, (3); 07.ii.1972, under stone, (L.) (2); 03.iii.1981, under stone, (1); 20.v.1993, weeds, (1); (Mordoğan), July, 1973, on the ground (1); (Narlıdere), 31.iii.1993, weeds, (2); (Ödemiş), 29.xii.1971, under stone, (L.) (2); 13.xi.1973, under stone, (2); (L.) (4); (Seferihisar), 16.iv.1993, weeds, (1); (Tire), 26.i.1982, **Pyrus elaeagnifolia**, (L.) (1); 10.xi.2001, under stone, (2); (Urla), 01.i.1972, on the ground, (L.) (1); 10.ii.1983, **Verbascum** sp., (1); (Yamanlar), 30.i.1973, pitfall trap, (L.) (2); 07.xii.1980, under stone, (L.) (5); (Yunt Mountain), 20.xi.1973, under stone, (L.) (3); (Zeytinalanı), 17.v.1974, **P. communis**, (1); **Kahramanmaraş** 29.iv.1986, on the ground, (1); (Andırın), (1230 m), 09.vi.1985, on the ground, (1); (Nurhak Mountain), (1480 m), 13.vi.1985, (1); (Pazarcık), 07.vi.1985, under stone, (1); (Türkoğlu), 08.vi.1985, on the ground, (1); **Kilis** (Central province), 04.vi.1985, weeds, (F.) (1); **Manisa** (Central province), 17.viii.1999, pitfall trap, (1); (Muradiye), 20.xi.1973, on the ground, (1), (L.) (4); under stone, (1); **Populus** sp., (L.) (2); **Mardin** (Kızıltepe), 20.iii.1972, (1); **Şanlıurfa** (Central province-Kürdik), 19.iv.1972, (2); (Akçemescit), 21.iii.1972, (2); (Tilali), 02.iv.1972, (4). Totally 182 specimens.

Opatrum Fabricius, 1775

Opatrum (s. str.) **alternatum** Küster, 1849

Material: **Balıkesir** (İvrindi), 26.xi.1973, under stone, (2); **Çorum** (Central province), 05.viii.1979, under stone, (1); **İzmir** (Bornova), 14.v.1962, on the ground, (1); 31.v.1962, (1); **Manisa** (Muradiye), 20.xi.1973, on the ground, (1). Totally 6 specimens.

Opatrum (s. str.) **geminatum** Brullé, 1832

Material: **Afyon** (Kocatepe), 17.vi.1975, on the ground, (1); **Ağrı** (Çukurçayır), 02.vi.1974, under stone, (2); (Tendürek Mountain), 07.viii.1977, under stone, (1); **Antalya** (Saklıkent), 17.iv.1984, on the ground, (1); **Aydın** (Central province), 09.v.1984, weeds, (1); **Balıkesir** (Sındırgı), 26.xi.1973, under stone, (1); **Çankırı** (Şabanözü), 23.vii.1979, on the ground, (L.) (1); **Çorum** (Central province), 05.viii.1979, under stone, (4); **Eskişehir** (Sivrihisar), 05.v.1979, under stone, (3); **İzmir** (Bornova), 05.v.1962, (2); 06.v.1962, (1); 14.v.1962, (1); on the ground, (1); 08.xi.1964, on the ground, (3); 09.iv.1973, poaceous plants, (L.) (1); 12.iv.1975, weeds, (1); 12.vi.1978, on the ground, (1); 02.v.1994, weeds, (1); (Bozdağ), 30.vii.1975, on the ground, (L.) (4); 13.iv.1978, on the ground, (L.) (2); **Karaman** (Bucakkışla), 26.iv.1979, under stone, (L.) (2); **Kars** (Central province), 16.vii.1982, under stone, (L.) (1); **Konya** (Beyşehir), 23.iv.1979, under stone, (P.) (4); (Höyük), 23.iv.1979, **Verbascum** sp., (1); **Kütahya** (1220 m), 23.v.1971, **Pinus** sp., (2); **Mersin** (Güzeloluk), 30.v.1984, under stone, (2); 25.iv.1985, **Astragalus** sp., (1); **Manisa** (Muradiye), 20.xi.1973,

on the ground, (1); **Neveşehir** (Derinkuyu), 14.viii.1979, under stone, (L.) (1); **Tekirdağ** (Barbaros), 01.vi.1975, (1); (Saray), 03.vi.1975, weeds, (L.) (1); **Tokat** (Artova), 02.vii.1978, on the ground, (L.) (1). Totally 51 specimens.

Opatrum (s. str.) **obesum** Olivier, 1811

Material: **İzmir** (Bornova), 05.v.1962, (1); 06.v.1962, (1); 07.v.1962, (1); 14.v.1962, on the ground, (3); 31.v.1962, (3); 08.xi.1964, on the ground, (1); (Kemalpaşa), 09.iv.1962, (2); **Kastamonu** (İnebolu), 03.vi.1980, **Sinapis** sp., (1); **Muğla** (Bodrum), 04.vi.1973, on the ground, (2). Totally 15 specimens.

Opatrum (s. str.) **sabulosum** (Linnaeus, 1761)

Material: **Çankırı** (İlgaz), (1775 m), 22.vii.1979, weeds, (1); **Mersin** (Kırobası), 24.iv.1985, under stone, (1). Totally 2 specimens.

Opatrum (s. str.) **verrucosum** Germar, 1817

Material: **İzmir** (Bornova), 04.v.1937, (1); (Ödemiş), 24.iv.1973, **Populus** sp., (1); **Kars** (Central province), 16.vii.1982, under stone, (7). Totally 9 specimens.

Tenebrioninae: Blaptini

Blaps Fabricius, 1775

Blaps abbreviata Ménétriés, 1836

Material: **İzmir** (Bornova), 14.vi.1983, on the ground, (1); (Kemalpaşa), 09.iv.1962, (1); (Tire), 13.iii.1962, (1). Totally 3 specimens.

Blaps gigas (Linnaeus, 1767)

Material: **İzmir** (Balçova), 11.iv.1992, on the ground, (1); (Bornova), 29.v.1962, (3); (F.) (1); 24.vi.1971, (2); 16.iv.1984, weeds, (1); (Menemen), 11.vi.1976, on the ground, (P.) (1). Totally 9 specimens.

Blaps jeannei Ferrer & Soldati, 1999

Material: **İzmir** (Bornova), 02.ii.2001, under stone, (1); (Emiralem), 02.v.1993, on the ground, (1). Totally 2 specimens. Endemic species.

Blaps lethifera Marsham, 1802

Material: **Aydın** (İsabeyli), 10.iv.1993, on the ground, (1); **Denizli** (Tavas), 18.viii.1983, on the ground, (1); **İzmir** (Altındağ), 15.iv.1974, weeds, (1); (Kemalpaşa), 09.iv.1962, (1); **Konya** (Central province), 28.iii.2001, on the ground, (1); **Manisa** (Akhisar), 03.iv.1984, on the ground, (1). Totally 6 specimens.

Blaps ocreata Allard, 1881

Material: **İzmir** (Bornova), 30.iv.1972, on the ground, (L.) (1); (Menemen), 22.v.2002, on the ground, (1); (Selçuk), 18.v.1974, (L.) (1); **Konya** (Beyşehir), 23.iv.1979, under stone, (1); (L.) (1); (Yunak) 22.iv.1979, under stone, (P.) (1); **Neveşehir** (Ürgüp), 27.vi.1980, weeds, (L.) (1); **Niğde** (Ulukışla), 28.iv.1979, under stone, (1). Totally 8 specimens.

Blaps rotundata Solier, 1848

Material: **Niğde** (Bor), 30.iv.1979, under stone, (1). Totally 1 specimen. This species constitutes a new record for Turkey.

Blaps tibialis Reiche, 1857

Material: **Ağrı** (Central province), 18.v.1974, weeds, (1); (Hamur), 10.viii.1974, under stone, (2); 14.vi.1975, (3); **Ankara** (Central province), 21.vi.1971, (1); (Beypazarı), 09.vii.1979, weeds, (P.) (1); (Polatlı), 26.iv.1979, on the ground, (L.) (9); **Burdur** (Central province), 10.vi.1973, on the ground, (L.) (1); **Diyarbakır** (Karacadağ), 21.iv.1972, (1); **Edirne** (Central province), 20.v.2000, **Triticum** sp., (1); **Eskişehir** (Mihalıççık), 09.vii.1979, weeds, (1); (Sarıcakaya), 23.v.1978, (1); **İzmir** (Central province), 03.vi.1960, on the ground, (1); (Bornova), 12.iii.1962, (1); 18.v.1962, (1); 24.vi.1971, (1); 28.v.1978, poaceous plants, (3); 05.vi.1982, on the ground, (1); 14.vi.1983, on the ground, (2); 02.v.1984, on the ground, (1); 10.v.1984, weeds, (1); 20.iv.1984, on the ground, (1); 29.iv.1984, on the ground, (1); 07.v.1993, on the ground, (1); 15.iv.1993, on the ground, (1); 02.ii.2001, under stone, (1); (Gültepe), 10.v.1977, on the ground, (1); 14.v.1984, under stone, (1); (Kadifekale), 10.v.1984, on the ground, (5); (Kınık), 18.v.1973, (2); (Pınarbaşı), May, 1991, on the ground, (1); (Selçuk), 17.v.1991, on the ground, (1); (Tire), 13.iii.1962, (2); **Kahramanmaraş** (Ahır Mountain), (1550 m), 01.v.1986, on the ground, (L.) (1); **Kırıkkale** (Keskin), 04.v.1979, under stone, (1); **Konya** (Central province), 28.iii.2001, on the ground, (1); 28.viii.2001, on the ground, (1); (Bozkır), 24.iv.1979, under stone, (1); (Karapınar), 28.iv.1979, **Verbascum** sp., (1); under stone, (1); (Sarayönü), 11.v.1984, on the ground, (1); **Manisa** (Central province), 05.v.1984, on the ground, (1); (Salihli), 06.vii.1991, poaceous plants, (2); (Turgutlu), 11.ii.1984, weeds, (1); **Niğde** (Bor), 19.iv.1979, on the ground, (L.) (1); 30.iv.1979, under stone, (L.) (5); **Osmaniye** (Gavur Mountain), 08.vi.1985, dung, (1); **Van** (Başkale), 10.vi.1975, under stone, (2). Totally 73 specimens.

Gnaptor Brullé, 1832

Gnaptor prolixus Fairmaire, 1866

Material: **Aydın** (Madran), 14.v.1972, (1); **İzmir** (Bozdağ), 24.v.1972, leguminaceous plants, (1); **Konya** (Höyük), 23.iv.1979, under stone, (P.) (1); **Tekirdağ** (Saray), 02.vii.1972, **Vitis vinifera**, (1). Totally 4 specimens. Endemic species.

Scaurini

Cephalostenus Solier, 1836

Cephalostenus elegans (Brullé, 1832)

Material: **Antalya** (Central province), 12.iv.1984, under stone, (1); (Kaş), 07.iv.1984, under stone, (1); **İzmir** (Bornova), 11.iv.1984, weeds, (2); 16.iv.1984, on the ground, (1); 18.iv.1984, weeds, (1); 07.v.1984, weeds, (3); 18.v.1984, on the ground, (3); 13.iv.1993, on the ground, (1); (Buca), 12.iii.1984, weeds, (1); (Çeşme), 11.iv.1973, on the ground, (2); 07.iv.1984, under stone, (3); (Kemalpaşa) 09.ix.1983, weeds, (3); **Manisa** (Turgutlu), 02.iv.1984, **Vitis vinifera**, (2); **Muğla** (Marmaris), 06.vi.1973, on the ground, (1); **Tokat** (Topçam), 20.iv.1976, on the ground, (1). Totally 26 specimens.

Cephalostenus orbicollis Ménétriés, 1836

Material: **İzmir** (Çeşme), 09.xii.1971, under stone, (P.) (1). Totally 1 specimen.

Helopini

Entomogonus Solier, 1848

Entomogonus (Delonurops) egregius Seidlitz, 1893

Material: **Kahramanmaraş** (Ahır Mountain), 10.vi.1985, on the ground, (F.) (1); 01.v.1986, on the ground, (F.) (1). Totally 2 specimens. Endemic species.

Entomogonus (Delonurops) saphyrinus Allard, 1876

Material: **Aksaray** (Ortaköy), 01.v.1979, under stone, (L.) (1); **Ankara** (Polatlı), 26.iv.1979, on the ground, (L.) (1); (Tuz Gölü), 07.v.1979, under stone, (P.) (3); **Konya** (Karapınar), 28.v.1979, under stone, (L.) (2). Totally 7 specimens.

Entomogonus (s. str.) **angulicollis gebieni** Reitter, 1922

Material: **Ankara** (Polatlı), 26.iv.1979, on the ground, (2). Totally 2 specimens.

Entomogonus (Eutelogonus) davidis Fairmaire, 1884

Material: **Aydın** (Kuşadası), 01.v.1993, on the ground, (1); **Mersin** (Gülнар), (1000 m), 04.vii.1986, weeds, (F.) (1). Totally 2 specimens.

Probaticus Seidlitz, 1896

Probaticus (Pelorinus) adimonius (Allard, 1876)

Material: **Gümüşhane** (Kop), 10.vii.1978, under stone, (P.) (1). Totally 1 specimen. Endemic species.

Probaticus (Pelorinus) corrugatus Seidlitz, 1896

Material: **Bartın** (Ulus), 20.v.1980, **Cornus** sp., (P.) (1); **Mersin** (Silifke), 24.iv.1985, **Laurus** sp., (1); **Muğla** (Datça), 07.v.1972, **Crataegus** sp., (P.) (1). Totally 3 specimens.

Probaticus (Pelorinus) dorsalis (Allard, 1877)

Material: **Kütahya** (Central province), 23.v.1971, **Pinus** sp., (F.) (3). Totally 3 specimens.

Probaticus (Pelorinus) granipennis (Allard, 1876)

Material: **Bartın** (Central province), 31.v.1980, **Prunus** sp., (P.) (1); **Bursa** (Uludağ), 31.v.1971, **Fagus** sp., (F.) (2); (610 m), 31.v.1971, **Corylus avellana**, (L.) (1); **C. avellana**, (F.) (1); (1820 m), **Pinus** sp., (F.) (1); **Verbascum** sp., (F.) (1); **İzmir** (Bornova), 29.ii.1972, under stone, (L.) (1); 24.v.1972, **C. avellana**, (L.) (1); **Ordu** (Mesudiye), 14.vii.1978, under stone, (L.) (1); 14.vii.1978, under stone, (F.) (1). Totally 11 specimens.

Probaticus (Pelorinus) tarsatus (Küster, 1850)

Material: **İzmir** (Balçova), 23.iii.1993, under stone, (1); (Bayındır-Dereköy), 18.v.1984, on the ground, (F.) (1); (Bergama), 14.v.1971, **Pyrus**

elaeagnifolia, (F.) (1); (Çınarcık), 04.vi.1971, *Paliurus* sp., (F.) (1); (Urla), 04.v.1984, (F.) (1). Totally 5 specimens.

Probatiscus (Pelorinus) tenebricosus (Brullé, 1832)

Material: **Ağrı** (Cumaçay), 12.v.1974, under stone, (1); **Bursa** (Uludağ), (1820 m), 31.v.1971, *Verbascum* sp., (L.) (1); **Çanakkale** (Gökçeada), 26.v.1975, weeds, (2); **İzmir** (Bornova), 21.vi.1961, (1); 15.iv.1962, (1); 30.vi.1965, *Ligustrum* sp., (2); (Cumaovası), 31.v.1978, *Pyrus elaeagnifolia*, (F.) (1); (Çeşmealtı), 22.vi.1983, weeds, (F.) (1); (Doğanlar), 29.iv.1971, on the ground, (1); (Gümüldür), 09.iv.1973, on the ground, (1); (Kemalpaşa), 10.v.1974, weeds, (1); (Kozak), 11.xi.1973, *Pinus* sp., (L.) (1); (Urla), 20.vii.1963, (1); **Kocaeli** (Kandıra), 17.v.1973, *Quercus* sp., (1); **Kütahya** (Emet), 17.vi.1972, *Rhododendron* sp., (P.) (1); **Mersin** (Gülнар), (1000 m), 04.vii.1986, weeds, (F.) (1); (Namrun), 29.iv.1985, *Cedrus* sp., (1). Totally 19 specimens.

Probatiscus* sp. nr. *tenebricosus (Brullé, 1832)

Material: **Burdur** (Central province), 13.vi.1973, (2). Totally 2 specimens.

Raiboscelis Allard, 1876

Raiborcelis coelestinus (Waltl, 1838)

Material: **Aydın** (Kuşadası), 07.v.1993, on the ground, (F.) (1); **İzmir** (Kemalpaşa), 07.ii.1972, under stone, (P.) (2); (Narlıdere), 11.ii.1972, under stone, (L.) (2); **Konya** (Deştiğın), 05.vii.1980, *Verbascum* sp., (L.) (1). Totally 6 specimens. Endemic species.

Raiboscelis syriacus (Reiche, 1861)

Material: **Ankara** (Tuzgölü), 02.v.1979, under stone, (F.) (1); **Antalya** (Akseki), 23.iv.1984, *Verbascum* sp., (1); (Side), 29.iv.1972, *Crataegus* sp., (2); **Aydın** (Kuşadası), 15.iv.1992, weeds, (1); (Söke), 24.iv.1993, weeds, (1); (Söke-Davutlar), 04.xi.1971, on the ground, (1); **İzmir** (Bayındır), 24.iv.1973, on the ground, (1); (Bornova), 18.v.1993, weeds, (1); 19.v.1993, weeds, (2); 01.vi.2002, on the ground, (1); (Karşıyaka), 13.iv.1961, (2); 16.v.1962, (1); (Kemalpaşa), 07.ii.1972, under stone, (1); (Narlıdere), 11.ii.1972, under stone, (4); (Ödemiş), 07.vi.1972, *Urtica* sp., (P.) (1); **Konya** (Hadım), 27.iv.1979, on the ground, (L.) (1); **Manisa** (Kula), 15.iv.1975, under stone, (1); **Muğla** (Datça), 07.v.1972, *Quercus* sp., (1). Totally 24 specimens.

Cylindronotini

Catomus Allard, 1876

Catomus* (s. str.) *consentaneus (Küster, 1851)

Material: **Mersin** (Güzeloluk), 25.iv.1985, *Quercus* sp., (1). Totally 1 specimen.

Cylindronotus Faldermann, 1837

Cylindronotus* (s. str.) *funestoides Reitter, 1900

Material: **Bilecik** (Central province), 06.vi.1973, *Prunus cerasus*, (F.) (1). Totally 1 specimen. Endemic species.

Cylindronotus (Helopelius) aeneipennis Allard, 1876

Material: **Isparta** (Eğirdir), 27.iv.1972, *Prunus amygdali*, (F.) (3). Totally 3 specimens.

Cylindronotus (Odocnemis) dasypus Seidlitz, 1896

Material: **Bilecik** (Pazaryeri), 25.v.1971, **Quercus** sp., (F.) (1); **Bursa** (Central province), 30.v.1971, (F.) (1); **Kütahya** (Central province), 23.v.1971, **Pyrus elaeagnifolia**, (F.) (6); 23.v.1971, **P. elaeagnifolia**, (P.) (2). Totally 10 specimens. Endemic species.

Cylindronotus (Odocnemis) korbi Reitter, 1901

Material: **Kütahya** (Central province), 16.vi.1972, **Quercus** sp., (F.) (1); (Gediz), 20.v.1971, **Cydonia vulgaris**, (F.) (1). Totally 2 specimens. Endemic species.

Cylindronotus (Odocnemis) tuberculiger Reiche, 1857

Material: **Bolu** (Mengen), 26.v.1980, **Prunus** sp., (F.) (1); **Kütahya** (Central province), (1220 m), 23.v.1971, **Pyrus elaeagnifolia**, (F.) (1). Totally 2 specimens.

Euboeus Boieldieu, 1865

Euboeus mimonti Boieldieu, 1865

Material: **Afyon** (Sultandağı), 02.vi.1973, **Pyrus elaeagnifolia**, (L.) (1); **Burdur** (Central province), 10.vi.1973, weeds, (F.) (1); 13.vi.1973, **Prunus amygdali**, (P.) (1); **Isparta** (Central province), 12.vi.1973, weeds, (F.) (1); **İzmir** (Bornova), 14.vi.1960, (L.) (2); 30.vi.1965, **Ligustrum** sp., (1); 02.vi.1972, **Vitis vinifera**, (F.) (1); (Gümüşsu), 27.v.1976, on the ground, (F.) (1); (Kemalpaşa), 23.v.1970, **P. armeniaca**, (F.) (1); (Savandağ), 21.vi.1993, **P. avium**, (F.) (1); (Selçuk), 29.vi.1971, **P. elaeagnifolia**, (1); 29.vi.1971, **P. elaeagnifolia**, (F.) (2); **Kütahya** (Gediz), 17.vi.1972, **Crataegus** sp., (L.) (1); **Manisa** (Kula), 10.vi.1972, **P. communis**, (L.) (2); **Muğla** (Gökova), 06.vi.1973, **Pinus** sp., (F.) (1). Totally 18 specimens.

Nalassus Mulsant, 1854

Nalassus dryadophilus (Mulsant, 1854)

Material: **Bursa** (Central province), 30.v.1971, **Platanus** sp., (F.) (1); 09.v.1973, **Prunus domestica**, (F.) (1); **P. cerasus**, (F.) (1); 07.vi.1973, **P. avium**, (F.) (1); **Edirne** (Central province), 23.v.1975, **P. avium**, (F.) (1); **İzmir** (Ödemiş), 24.iv.1973, **Populus** sp., (F.) (2); **Manisa** (Muradiye), 20.xi.1973, under stone, (F.) (1); **Sinop** (Central province), 04.vi.1973, **Platanus** sp., (F.) (1). Totally 9 specimens. This species constitutes a new record for Turkey.

Nalassus plebejus (Küster, 1850)

Material: **Bursa** (Uludağ), 19.v.1973, **Quercus** sp., (P.) (1); **Manisa** (Muradiye), 20.xi.1973, on the ground, (L.) (1). Totally 2 specimens.

Ulomini

Uloma Dejean, 1821

Uloma cypraea Kraatz, 1873

Material: **Adana** (Feke), 04.v.1985, under bark, (4). Totally 4 specimens.

Triboliini

Latheticus Waterhouse, 1880

Latheticus oryzae Waterhouse, 1880

Material: Denizli (Tavas), 05.vi.1969, (P.) (1). Totally 1 specimen.

Tribolium MacLeay, 1825

Tribolium (Eusomostene) confusum Jacquelin de Val, 1868

Material: İzmir (Bornova), 14.iv.1962, weeds, (P.) (1); Osmaniye (Karatepe), 06.vi.1984, light trap, (F.) (1). Totally 2 specimens.

Tribolium (s. str.) *castaneum* (Herbst, 1797)

Material: Hatay (Harbiye), 07.vii.1984, light trap, (1); İzmir (Bornova), 26.vi.1968, bran, (P.) (2). Totally 3 specimens.

Alphitobiini

Alphitobius Stephens, 1829

Alphitobius diaperinus (Panzer, 1797)

Material: İzmir (Bornova), 12.iv.1976, weeds, (1); (Narlıdere), 02.viii.1977, light trap, (1). Totally 2 specimens.

Alphitobius laevigatus (Fabricius, 1781)

Material: İzmir (Güzelbahçe-Yelki), 21.v.1975, dung, (2). Totally 2 specimens.

Tenebrionini

Tenebrio Linnaeus, 1758

Tenebrio obscurus Fabricius, 1792

Material: Balıkesir (Ayvalık-Sarımsaklı), 18.vi.1991, rosaceous plants, (1); İzmir (Bornova), 07.v.1962, (1); 07.viii.1969, (1). Totally 3 specimens.

Adeliinae: Laenini

Laena Latreille in Cuvier, 1829

Laena hopffgarteni Weise, 1878

Material: Manisa (Dağmarmara), 12.ix.2003, pitfall trap, (F.) (1). Totally 1 specimen.

Laena pulchella (Fischer, 1824)

Material: İzmir (Narlıdere), 11.ii.1972, *Olea europea*, (P.) (1). Totally 1 specimen.

Discussion

It has been determined that totally 77 species belonging to 26 genera of the subfamilies of Opatrinae, Tenebrioninae and Adeliinae have been preserved in the collection of LEMT. Among these, seven species are the first reliable records from Turkey and 16 species are endemic. Among the housed material *Opatroides punctulatus* (182), *Gonocephalum granulatum pusillum* (103), *G. rusticum* (78) and *Blaps tibialis* (73) are more abundant than the others.

The number of the species of Turkish tenebrionids belonging to Opatrinae, Tenebrioninae and Adeliinae rose to 68, 112 and 21, respectively. Those belonging to the subfamily of Opatrinae are **Dendarus (Dichromma) tibialis** Seidlitz, 1893, **D. (Pandarinus) alleonis** Seidlitz, 1893, **D. (Pandarinus) armeniacus** Baudi, 1876, **D. (Pandarinus) caelatus** Brullé, 1832, **D. (Pandarinus) crenulatus** Ménétrés, 1832, **D. (Pandarinus) dalmatinus** Germar, 1824, **D. (Pandarinus) foveolatus** Seidlitz, 1893, **D. (Pandarinus) messenius** Brullé, 1832, **D. (Pandarinus) moesiacus** Mulsant et Rey, 1854, **D. (Pandarinus) punctatus** (Serville, 1825), **D. (Pandarinus) scrobiculatus** Seidlitz, 1893, **D. (Pandarinus) simplex** Seidlitz, 1893, **D. (Pandarinus) sinuatus** Mulsant, 1854, **D. (Pandarinus) stygius stygius** Watl, 1838, **D. (Pandarinus) tenellus** Mulsant et Rey, 1854, **D. (Pandarinus) torpidus** Mulsant, 1854, **Micrositus** (s. str.) **opacus** Reitter, 1904 (Dendarini); **Cabirutus cavimanus** (Sahlberg, 1907), **C. cilicicus** (Sahlberg, 1907), **C. cribricollis** (Baudi, 1875), **C. gracilis** Reitter, 1904, **Colpotus adebratti** Ferrer et Soldati, 1999, **C. byzanticus** Watl, 1838, **C. dentatus** Grimm et Schawaller, 2000, **C. punctipleuris** Reitter, 1904, **C. schusteri** Koch, 1936, **C. sulcatus asiaticus** Koch, 1944, **C. vogti** Koch, 1944, **Dissonomus politus** Koch, 1968, **D. substriatus** Reitter, 1898, **Pedinus** (s. str.) **femoralis** (Linnaeus, 1767), **P.** (s. str.) **anatolicus** Mulsant et Rey, 1853, **P.** (s. str.) **bodemeyeri** Reitter, 1904, **P.** (s. str.) **curvipes** Mulsant et Rey, 1853, **P.** (s. str.) **fallax** Mulsant et Rey, 1853, **P.** (s. str.) **helopoides** Ahrens, 1814, **P.** (s. str.) **kiesenwetteri** Seidlitz, 1893, **P.** (s. str.) **marani** Kaszab, 1960, **P.** (s. str.) **podager** Seidlitz, 1893, **P.** (s. str.) **quadratus** Brullé, 1832, **P.** (s. str.) **reitteri** Seidlitz, 1893, **P.** (s. str.) **schaumi** Mulsant et Rey, 1853, **P.** (s. str.) **strabonis** Seidlitz, 1893, **P.** (s. str.) **subdepressus** Brullé, 1832, **P. (Vadulus) punctatulus** Mulsant et Rey, 1853 (Pedinini); **Cheirodes (Anemia) sardous** Géne, 1839, **Melanimon kiritshenkoi** Reichardt, 1936 (Melanimini); **Ammobius rufus** Lucas, 1849, **Brachyesthes chrysomelina** Costa, 1875, **Clitobius** (s. str.) **ovatus** (Erichson, 1843), **Gonocephalum** (s. str.) **costatum** (Brullé, 1832), **G.** (s. str.) **granulatum pusillum** (Fabricius, 1791), **G.** (s. str.) **rusticum** (Olivier, 1811), **G.** (s. str.) **setulosum** (Faldermann, 1837), **Lobodera (Penthomagus) iners** Ménétrés, 1832, **Mesomorphus longulus** (Reiche et Saulcy, 1857), **Opatroides curtulus** Fairmaire, 1892, **O. punctulatus** Brullé, 1832, **Opatrum** (s. str.) **alternatum** Küster, 1849, **O.** (s. str.) **geminatum** Brullé, 1832, **O.** (s. str.) **obesum** Olivier, 1811, **O.** (s. str.) **sabulosum** (Linnaeus, 1761), **O.** (s. str.) **verrucosum** Germar, 1817, **Polycoelogastridium sexcostatum** (Motschulsky, 1858), **Scleron carinatum** Baudi, 1875, **S. fossulatum** Mulsant et Wachenr., 1852, **S. multistriatum** (Forsk., 1775) (Opatrini); **Leichenium mucronatum** Küster, 1849 (Leichenini); those belonging to the subfamily of Tenebrioninae are **Blaps abbreviata** Ménétrés, 1836, **B. adela** Soldati et Soldati, 1999, **B. ecaudata** Seidlitz, 1893, **B. femoralis** Fischer, 1844, **B. gigas** (Linnaeus, 1767), **B. graeca** Solier, 1848, **B. jeannei** Ferrer et Soldati, 1999, **B. königi** Seidlitz, 1893, **B. lata** Seidlitz, 1893, **B. lethifera** Marsham, 1802, **B. lindbergi** Kaszab, 1959, **B. mortisaga** (Linnaeus, 1758), **B. mucronata** Latreille, 1804, **B. ocreata** Allard, 1881, **B. pterotapha** Ménétrés, 1832, **B. rotundata** Solier, 1848, **B. taeniolata** Ménétrés, 1832, **B. tenuicollis** Solier, 1848, **B. tibialis** Reiche, 1857, **B. tibiella** Seidlitz, 1893, **Gnaptor prolixus** Fairmaire,

1866, *G. spinimanus* Pallas, 1781 (Blaptini); *Cephalostenus demaisonii* Reitter, 1903, *C. elegans* (Brullé, 1832), *C. orbicollis* Ménériés, 1836, *Scaurus puncticollis* Solier, 1838 (Scaurini); *Entomogonus (Delonurops) duchoni* Reitter, 1903, *E. (Delonurops) egregius* Seidlitz, 1893, *E. (Delonurops) obtusus* Seidlitz, 1893, *E. (Delonurops) peyroni* Reiche, 1861, *E. (Delonurops) saphyrinus* Allard, 1876, *E. (s. str.) angulicollis gebieni* Reitter, 1922, *E. (Eutelogonus) davidis* Fairmaire, 1884, *E. (Eutelogonus) nylanderi* Ferrer et Soldati, 1999, *Gunarus lapidicola* Küster, 1850, *G. nodicornis* Reitter, 1922, *Hedyphanes elongatus* Allard, 1876, *H. upioides* Faldermann, 1837, *Helops (s. str.) coeruleus* (Linnaeus, 1758), *H. (s. str.) glabriventris* Reitter, 1885, *H. (s. str.) rossii* Germar, 1817, *H. (Mesohelops) cyanipes* Allard, 1876, *Probatiscus (Pelorinus) adimonius* (Allard, 1876), *P. (Pelorinus) bodemeyeri* Reitter, 1900, *P. (Pelorinus) corrugatus* Seidlitz, 1896, *P. (Pelorinus) corrugosus* Seidlitz, 1896, *P. (Pelorinus) dorsalis* (Allard, 1877), *P. (Pelorinus) granicollis* Seidlitz, 1896, *P. (Pelorinus) granipennis* (Allard, 1876), *P. (Pelorinus) granosus* Seidlitz, 1896, *P. (Pelorinus) maurus* (Waltl, 1838), *P. (Pelorinus) petheri* Reitter, 1905, *P. (Pelorinus) peropacus* Reitter, 1901, *P. (Pelorinus) picianus* Reitter, 1907, *P. (Pelorinus) priapus* Seidlitz, 1896, *P. (Pelorinus) tarsatus* (Küster, 1850), *P. (Pelorinus) tenebricosus* (Brullé, 1832), *P. (Pelorinus) theanus* Reitter, 1901, *P. (s. str.) tentyrioides* (Küster, 1851), *Raiboscelis azureus* (Brullé, 1832), *R. coelestinus* (Waltl, 1838), *R. eleodinus* (Reiche, 1861), *R. latimargo* Seidlitz, 1896, *R. syriacus* (Reiche, 1861) (Helopini); *Catomus (s. str.) consentaneus* (Küster, 1851), *C. (s. str.) frivaldszkyi* (Seidlitz, 1893), *C. (Stenomacidius) anatolicus* Kaszab, 1961, *Cylindronotus (s. str.) funestoides* Reitter, 1900, *C. (s. str.) hoberlandti* Kaszab, 1960, *C. (s. str.) nitidus* Seidlitz, 1893, *C. (Helopelius) aeneipennis* Allard, 1876, *C. (Helopocerodes) dilaticornis* Reitter, 1922, *C. (Helopondrus) ponticus* Seidlitz, 1896, *C. (Odocnemis) anatolicus* Pic, 1899, *C. (Odocnemis) caudatus* Allard, 1876, *C. (Odocnemis) dasypus* Seidlitz, 1896, *C. (Odocnemis) exaratus* (Germar, 1817), *C. (Odocnemis) incultus* Allard, 1877, *C. (Odocnemis) korbii* Reitter, 1901, *C. (Odocnemis) opertus* Reitter, 1922, *C. (Odocnemis) protinus* Reitter, 1900, *C. (Odocnemis) seriegranatus* Seidlitz, 1896, *C. (Odocnemis) strangulatus* Reitter, 1922, *C. (Odocnemis) tuberculiger* Reiche, 1857, *C. (Omaleis) amasiae* Seidlitz, 1896, *C. (Omaleis) crenatostriatus* Allard, 1877, *C. (Omaleis) fundator* Reitter, 1908, *C. (Omaleis) kurdistanus* Reitter, 1901, *C. (Omaleis) scutellatus* Reitter, 1901, *C. (Stenomax) aeneus* (Scopoli, 1763), *Euboicus mimonti* Boieldieu, 1865, *Nalassus dryadophilus* (Mulsant, 1854), *N. plebejus* (Küster, 1850) (Cylindronotini); *Adelina turcica* (Reitter, 1877), *Sitophagus hololeptoides* (Laporte de Castelnau, 1840), *Uloma cypraea* Kraatz, 1873 (Ulomini); *Latheticus oryzae* Waterhouse, 1880, *Palorus (Circomus) subdepressus* Wollaston, 1864, *P. (s. str.) depressus* (Fabricius, 1790), *Tribolium (Eusomostene) confusum* Jacquelin du Val, 1868, *T. (s. str.) castaneum* (Herbst, 1797), *T. (s. str.) destructor* Uyttenboogaart, 1933, *T. (s. str.) madens* Charpentier, 1825 (Triboliini); *Alphitobius diaperinus* (Panzer, 1797), *A. laevigatus* (Fabricius, 1781), *Diaclina fagi* (Panzer, 1797) (Alphitobiini); *Neatus subaequalis* Reitter, 1920, *Teles eutymi* Mulsant et

Godart, 1876, *Tenebrio molitor* Linnaeus, 1758, *T. obscurus* Fabricius, 1792, *T. syriacus* Zoufal, 1892 (Tenebrionini); *Cryphaeus cornutus* Fischer, 1823 (Toxicini); those belonging to the subfamily of Adeliinae are *Laena angorensis* Reitter, 1899, *L. byzantina* Apfelbeck, 1901, *L. deplanata* Weise, 1878, *L. ferruginea* Küster, 1846, *L. ganglbaueri* Reitter, 1891, *L. graeca* Weise, 1878, *L. hopffgarteni* Weise, 1878, *L. kaufmanni* Reitter, 1881, *L. korbi* Heyden, 1890, *L. kraatzi* Weise, 1878, *L. liliputana* Kaszab, 1968, *L. lindbergi* Kaszab, 1959, *L. merkli* Weise, 1883, *L. obscuricornis* Reitter, 1899, *L. osmanlis* Reitter, 1906, *L. parvidens* Reitter, 1899, *L. pulchella* Fischer, 1824, *L. striolata* Reitter, 1899, *L. syriaca* Baudi, 1876, *L. theana* Reitter, 1899, *L. weisei* Reitter, 1878 (Laenini).

In two parts of this study, no species belonging to the subfamilies of Hypophloeinae and Coelometopinae from LEMT has been cited. But in Turkish fauna the species of *Corticeus (Hypophloeus) unicolor* Piller et Mitterpacher, 1783 and *C. (Paraphloeus) rufobasalis* (Pic, 1917) (Hypophloeini) are known belong to Hypophloeinae and *Iphthiminus bellardi* (Truqui, 1857), *I. italicus* (Truqui, 1857), *I. truquii* Marsham, 1802, *Menephilus cylindricus* (Herbst, 1784) (Coelometopini); *Metaclisa azurea* (Waltl, 1838) (Cnodalonini) are known belong to Coelometopinae.

At the end of this study, the total number of species of Tenebrionidae rose to 312. To sum up, subfamilies and the number of species belonging to those subfamilies existing in Turkish fauna are given as follows: Lagriinae (3), Pimeliinae (83), Bolitophaginae (2), Diaperinae (16), Hypophloeinae (2), Opatrinae (68), Tenebrioninae (112), Coelometopinae (5), Adeliinae (21).

It is expected that, this number will exceed in the following years by further studies. The number of species existing in LEMT is 119 and this ratio constitutes 38.14% of the Turkish Tenebrionidae fauna.

Özet

Türkiye Tenebrionidae (Coleoptera) faunasına katkılar Kısım II. Opatrinae, Tenebrioninae, Adeliinae

Bu çalışmada Opatrinae altfamilyasından 37, Tenebrioninae altfamilyasından 38 ve Adeliinae altfamilyasından 2 olmak üzere toplam 77 türün LEMT (Lodos Entomoloji Müzesi)'nde bulunduğu ortaya konmuştur.

Bunlardan *Blaps rotundata* Solier, 1848, *Dendarus (Pandarinus) armeniacus* Baudi, 1876, *D. (Pandarinus) caelatus* Brullé, 1832, *Lobodera (Penthomagus) iners* Ménériés, 1832, *Nalassus dryadophilus* (Mulsant, 1854), *Pedinus* (s. str.) *quadratus* Brullé, 1832 ve *P.* (s. str.) *reitteri* Seidlitz, 1893 türleri Türkiye için ilk kayıttır. Ayrıca 16 türün endemik olduğu anlaşılmıştır.

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