

**CONTRIBUTIONS TO THE CERAMBYCIDAE (COLEOPTERA)
FAUNA COLLECTED BY BAIT TRAPS IN FIG ORCHARDS
OF TİRE, İZMİR, TURKEY**

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ABSTRACT: This paper provides information about the Cerambycidae (Coleoptera) species collected by fermented bait traps in six fig orchards in Tire (İzmir), Western Turkey in 2016. As a result of this study, 11 species belonging to seven genera of Cerambycidae have been recorded.

KEY WORDS: Cerambycidae, fermented bait traps, fauna, İzmir, Turkey

In this study, Cerambycidae (Coleoptera) material collected by two different types of fermented bait traps in six fig orchards in Tire, İzmir, western Turkey were evaluated. Information on fig orchards were given in Table 1.

A total of four bait traps with wine and four bait traps with fig fruit were hanged in each orchard. Each traps with wine were charged with a mixture containing wine (100 ml), water (900 ml), sugar (25 g), and winegar (25 ml), while each traps with fig were charged with 5-6 dried bed fig fruit, a sweet spoon of dough yeast and water (1000 ml). The traps were checked for the presence of Cerambycids at weekly intervals starting from beginning of April until the end of October, 2016.

RESULTS

In this study, 11 species belong to seven genera of Cerambycidae have been recorded.

CERAMBYCIDAE

LEPTURINAE Latreille, 1802

LEPTURINI Latreille, 1802

Stictoleptura (Paracorymbia) fulva (DeGeer, 1775)

Material examined: İzmir: Tire, Dereli, bait trap with wine, 08.VI.2016, 1 specimen.

Hosts: Development inadequately known, probably in deciduous trees (*Quercus*, *Populus*, *Fagus*). The collected specimens from Turkey were recorded only from *Quercus* spp.

Provincial distribution in Turkey: Adana, Antalya, Artvin, Aydın, Balıkesir, Bartın, Bolu, Bursa, Çanakkale, Çankırı, Düzce, Eskişehir, Hatay, Isparta, İçel, İstanbul, İzmir, Kahramanmaraş, Karabük, Kastamonu, Kocaeli, Konya, Manisa, Osmaniye, Tunceli, Zonguldak provinces in Asian Turkey (Anatolia) and İstanbul, Kırklareli provinces in European Turkey (Thrace) (Demelt & Alkan, 1962; Demelt,

1963; Villiers, 1967; Gül-Zümreoğlu, 1975; Sama, 1982; Öymen, 1987; Adlbauer, 1988; Althoff & Danilevsky, 1997; Lodos, 1998; Tezcan & Rejzek, 2002; Özdikmen & Çağlar, 2004; Malmusi & Saltini, 2005; Özdikmen & Demirel, 2005; Özdikmen & Okutaner, 2006; Özdikmen & Demir, 2006; Özdikmen, 2007, 2011; Turgut & Özdikmen, 2010; Özdikmen et al., 2010, 2012a; Sama et al., 2011, 2012; Şenyüz & Özdikmen, 2013; Küçükaykay et al., 2013; Al-Hamadani & Özdikmen, 2014; Şabanoğlu & Şen, 2016; Albayati et al., 2016). The species was recorded from İzmir province.

Range: E: AL AU BE BH BU BY CR CT CZ FR GB GE GR HU IR IT LS LU MC NL PT RO SK SL SP ST SZ TR UK YU A: TR (Danilevsky, 2018).

Stictoleptura (Stictoleptura) cordigera (Fuessly, 1775)

Stictoleptura (Stictoleptura) cordigera cordigera (Fuessly, 1775)

Material examined: İzmir: Tire, Akyurt, bait trap with wine, 10.VII.2016, 1 specimen; Başköy, bait trap with wine, 12.VI.2016, 1 specimen; Central province 2, bait trap with wine, 25.V.2016, 1 specimen; 08.VI.2016, 1 specimen; Dereli, bait trap with wine, 08.VI.2016, 1 specimen.

Hosts: Polyphagous in deciduous trees.

Provincial distribution in Turkey: Adana, Adıyaman, Aksaray, Ankara, Antalya, Artvin, Balıkesir, Bilecik, Bingöl, Bitlis, Bolu, Bursa, Çanakkale, Denizli, Erzurum, Gaziantep, Gümüşhane, Hatay, İçel, İstanbul, İzmir, Kahramanmaraş, Kayseri, Kırıkkale, Kocaeli, Konya, Kütahya, Manisa, Muğla, Muş, Nevşehir, Niğde, Osmaniye, Tunceli, Yalova, Yozgat provinces in Asian Turkey (Anatolia) and Edirne, İstanbul, Kırklareli, Tekirdağ provinces in European Turkey (Thrace) (Pic, 1892; Villiers, 1959; Demelt & Alkan, 1962; Demelt, 1963; Villiers, 1967; Fuchs et Breuning, 1971; Tuatay et al., 1972; Gül-Zümreoğlu, 1972, 1975; Sama, 1982; Öymen, 1987; Adlbauer, 1988; Althoff & Danilevsky, 1997; Lodos, 1998; Rejzek & Hoskovec, 1999; Tazuin, 2000; Tozlu et al., 2002; Özdikmen & Çağlar, 2004; Malmusi & Saltini, 2005; Özdikmen et al., 2005; Özdikmen & Demirel, 2005; Özdikmen & Okutaner, 2006; Özdikmen & Şahin, 2006; Özdikmen, 2006, 2007; Özdikmen & Demir, 2006; Özdikmen et al., 2009, 2010, 2012b; Turgut & Özdikmen, 2010; Sama et al., 2012; Cihan et al., 2013; Şenyüz & Özdikmen, 2013; Küçükaykay et al., 2013; Tekin & Özdikmen, 2015; Albayati et al., 2016). The subspecies was recorded from İzmir province.

Range: E: BE BU DE FR GB GE GR (north-east) IT NL RO SP SZ RO ST TR UK N: LB A: AB AR CY GG IN IQ IS LE SY TR (Danilevsky, 2018).

**CERAMBYCINAE Latreille, 1802
HESPEROPHANINI Mulsant, 1839**

Trichoferus fasciculatus (Faldermann, 1837)

Trichoferus fasciculatus fasciculatus (Faldermann, 1837)

Material examined: İzmir: Tire, Akyurt, bait trap with wine, 10.VII.2016, 1 specimen; 17.VII.2016, 1 specimen; 24.VII.2016, 3 specimens; Başköy, bait trap with fig, 10.VII.2016, 1 specimen; Dereli, bait trap with wine, 10.VII.2016, 3 specimens; 17.VII.2016, 1 specimen; 04.VIII.2016, 1 specimen; bait trap with fig, 10.VII.2016, 1 specimen; Central province 1, bait trap with wine, 06.VII.2016, 3 specimens; 13.VII.2016, 3 specimens; 17.VII.2016, 1 specimen; Central province 2, bait trap with wine, 13.VII.2016, 1 specimen; Ortaköy, bait trap with wine, 10.VII.2016, 3 specimens; 24.VII.2016, 3 specimens; 31.VII.2016, 1 specimen; bait trap with fig, 31.VII.2016, 1 specimen.

Hosts: Polyphagous in deciduous trees. Reported as a pest from fig orchards in Bursa province of Turkey by Gençer et al. (2005).

Provincial distribution in Turkey: Ankara, Antalya, Bartın, Bursa, Isparta, İzmir, Manisa, Muğla, Trabzon provinces in Asian Turkey (Anatolia) (İren & Ahmed, 1973; Adlbauer, 1992; Alkan & Eroğlu, 2001; Tozlu et al., 2002; Tezcan & Rejzek, 2002; Malmusi & Saltini, 2005; Özdikmen, 2006; Tezcan & Can, 2009; Özdikmen et al., 2009; Şabanoğlu & Şen, 2016). This subspecies was recorded from İzmir province.

Range: E: AL BU CR FR GR IT MA PT RO SP UK YU N: AG EG LB MO TU A: AB AR CY GG IN IQ IS JO LE SY TR (Danilevsky, 2018).

***Trichoferus griseus* (Fabricius, 1793)**

Material examined: İzmir: Tire, Akyurt, bait trap with wine, 10.VII.2016, 6 specimens; 17.VII.2016, 14 specimens; 20.VII.2016, 2 specimens; 24.VII.2016, 12 specimens; 27.VII.2016, 2 specimens; 31.VII.2016, 1 specimen; 07.VIII.2016, 7 specimens; 07.IX.2016, 1 specimen; bait trap with fig, 07.VIII.2016, 2 specimens; Başköy, bait trap with wine, 10.VII.2016, 12 specimens; 17.VII.2016, 7 specimens; 24.VII.2016, 7 specimens; 07.VIII.2016, 1 specimen; bait trap with fig, 10.VII.2016, 2 specimens; 27.VII.2016, 1 specimen; Central province 1, bait trap with wine, 25.V.2016, 2 specimens; 06.VII.2016, 12 specimens; 13.VII.2016, 10 specimens; 17.VII.2016, 7 specimens; 27.VII.2016, 4 specimens; bait trap with fig, 13.VII.2016, 3 specimens; 27.VII.2016, 3 specimens; Central province 2, bait trap with wine, 13.VII.2016, 8 specimens; 20.VII.2016, 2 specimens; bait trap with fig, 01.VI.2016, 1 specimen; 06.VII.2016, 1 specimen; 20.VII.2016, 1 specimen; Dereli, bait trap with wine, 06.VII.2016, 1 specimen; 13.VII.2016, 1 specimen; 17.VII.2016, 2 specimens; 20.VII.2016, 1 specimen; 04.VIII.2016, 1 specimen; 17.VIII.2016, 1 specimen; bait trap with fig, 06.VII.2016, 2 specimens; Ortaköy, bait trap with wine, 12.VI.2016, 1 specimen; 29.VI.2016, 1 specimen; 03.VII.2016, 2 specimens; 10.VII.2016, 24 specimens; 17.VII.2016, 12 specimens; 24.VII.2016, 28 specimens; 31.VII.2016, 16 specimens; 10.VIII.2016, 3 specimens; bait trap with fig, 10.VII.2016, 2 specimens; 17.VII.2016, 3 specimens.

Hosts: Polyphagous in deciduous trees. Reported as a pest under the name of *Hesperophanes griseus* from fig orchards in Aydın province of Turkey by Akşit et al. (2003, 2005).

Provincial distribution in Turkey: Adana, Antalya, Aydın, Gaziantep, Hatay, İçel, İzmir, Konya, Manisa, Osmaniye provinces in Asian Turkey (Anatolia) (İyriboz, 1940; Demelt & Alkan, 1962; Demelt, 1963; Gül-Zümreoğlu, 1972, 1975; İren & Ahmed, 1973; Öymen, 1987; Tozlu et al., 2002; Ulu et al., 1995; Tezcan & Rejzek, 2002; Özdikmen & Şahin, 2005; Özdikmen et al., 2005; Özdikmen & Demir, 2006; Tezcan & Can, 2009; Sama et al., 2012). The species was recorded from İzmir province.

Range: E: AL BH BU CR FR GR IT MA PT RO SP ?ST TR YU UK N: AG EG LB MO TU A: CY ?GG IQ IS JO LE SY TR (Danilevsky, 2018).

CERAMBYCINI Latreille, 1802

***Cerambyx (Cerambyx) carinatus* Küster, 1846**

Material examined: İzmir: Tire, Akyurt, bait trap with wine, 05.VI.2016, 1 specimen.

Hosts: *Prunus*, *Amygdalus communis*, *Cerasus vulgaris*, *Cerasus avium*.

Provincial distribution in Turkey: Ankara, Aydın, Denizli, İçel, İzmir, Kütahya, Manisa provinces in Asian Turkey (Anatolia) (Schimitschek, 1944;

Demelt, 1963; Gül-Zümreoğlu, 1972, 1975; Tezcan & Rejzek, 2002; Özdikmen et al., 2005; Özdikmen, 2008; Özdikmen & Turgut, 2009; Şenyüz & Özdikmen, 2013; Özbek et al., 2015). This species was recorded from İzmir province.

Range: E: AL BH BU CR GR IT MA MC YU A: TR (Danilevsky, 2018).

***Cerambyx (Cerambyx) cerdo* Linnaeus, 1758**

***Cerambyx (Cerambyx) cerdo acuminatus* Motschulsky, 1853**

Material examined: İzmir: Tire, Akyurt, bait trap with wine, 24.VII.2016, 1 specimen.

Hosts: Polyphagous in deciduous trees.

Provincial distribution in Turkey: Although it was not possible to give infraspecific distributions of this subspecies and the nominative subspecies separately. This subspecies may be distributed Adıyaman, Antalya, Artvin, Çanakkale, Denizli, Hatay, İçel, İstanbul, İzmir, Kahramanmaraş, Konya, Manisa, Muğla, Osmaniye, Sinop, Şırnak, Tunceli provinces in Asian Turkey (Anatolia) in our opinion (Fairmaire, 1884; Pic, 1892; Bodemeyer, 1906; Schimitschek, 1944; Demelt & Alkan, 1962; Demelt, 1963; Villiers, 1967; Gül-Zümreoğlu, 1972, 1975; Sama, 1982; Adlbauer, 1988; Ulu et al., 1995; Rejzek & Hoskovec, 1999; Tauzin, 2000; Alkan & Eroğlu, 2001; Tezcan & Rejzek, 2002; Özdikmen & Çağlar, 2004; Özdikmen & Okutaner, 2006; Özdikmen & Şahin, 2006; Özdikmen & Demir, 2006; Özdikmen, 2006, 2007; Tezcan & Can, 2009; Özdikmen & Turgut, 2009; Turgut & Özdikmen, 2010; Özdikmen et al., 2010; Sama et al., 2011). This subspecies was recorded from İzmir province.

Range: E: ST UK A: AB AR GG IN IQ IS JO LE SY TR (Danilevsky, 2018).

***Cerambyx (Cerambyx) welensii* Küster, 1846**

***Cerambyx (Cerambyx) welensii welensii* Küster, 1846**

Material examined: İzmir: Tire, Akyurt, bait trap with wine, 05.VI.2016, 1 specimen; Dereli, bait trap with wine, 13.VII.2016, 1 specimen.

Hosts: Polyphagous.

Provincial distribution in Turkey: Adana, Adıyaman, Antalya, Burdur, Hatay, Isparta, İçel, İstanbul, İzmir, Kahramanmaraş, Karaman, Konya, Niğde, Osmaniye provinces in Asian Turkey (Anatolia) and İstanbul province in European Turkey (Thrace) (Pic, 1897; Bodemeyer, 1906; Demelt, 1963; Öymen, 1987; Rejzek & Hoskovec, 1999; Tozlu et al., 2002; Özdikmen & Çağlar, 2004; Malmusi & Saltini, 2005; Özdikmen & Demir, 2006; Özdikmen, 2006; Tezcan & Can, 2009; Özdikmen & Turgut, 2009; Turgut & Özdikmen, 2010; Özdikmen et al., 2010; Sama et al., 2011; Özbek et al., 2015). This subspecies was recorded from İzmir province.

Range: E: AL BH BU CR FR GR HU IT PT RO SK SL SP TR UK YU A: AB CY GG IN IQ TR (Danilevsky, 2018).

PURPURICENINI J. Thomson, 1861

***Purpuricenus interscapillatus* Plavilstshikov, 1937**

***Purpuricenus interscapillatus interscapillatus* Plavilstshikov, 1937**

Material examined: İzmir: Tire, Central province 1, bait trap with wine, 11.V.2016, 1 specimen.

Hosts: Polyphagous in deciduous trees.

Provincial distribution in Turkey: Adıyaman, Antalya, Hatay, Isparta, İçel, Kahramanmaraş, Osmaniye provinces in Asian Turkey (Anatolia) (Demelt & Alkan, 1962; Özdikmen et al., 2010; Aslan & Karaca, 2012; Rapuzzi & Sama, 2013;

Özbek et al., 2015). This subspecies is a new record for İzmir province and hereby Aegean region of Turkey.

Range: A: TR SY (Danilevsky, 2018).

CALLIDIINI Kirby, 1837

Phymatodes (Phymatodes) testaceus (Linnaeus, 1758)

Material examined: İzmir: Tire, Akyurt, bait trap with wine, 08.V.2016, 2 specimens; 12.VI.2016, 1 specimen; Başköy, bait trap with wine, 12.VI.2016, 1 specimen; Central province 1, bait trap with wine, 25.V.2016, 1 specimen.

Hosts: Polyphagous in deciduous trees.

Provincial distribution in Turkey: Adıyaman, Ankara, Antalya, Artvin, Bingöl, Bolu, Burdur, Bursa, Çanakkale, Çankırı, Düzce, Gümüşhane, Hatay, Isparta, İçel, İstanbul, Kahramanmaraş, Kırıkkale, Konya, Niğde, Osmaniye provinces in Asian Turkey (Anatolia) and İstanbul, Kırklareli provinces in European Turkey (Thrace) (Pic, 1892; Reitter, 1901; Bodemeyer, 1906; Acatay, 1943; Schimitschek, 1944; Demelt & Alkan, 1962; Demelt, 1963; Öymen, 1987; Adlbauer, 1988; Althoff & Danilevsky, 1997; Rejzek & Hoskovec, 1999; Alkan & Eroğlu, 2001; Tozlu et al., 2002; Malmusi & Saltini, 2005; Özdikmen, 2006; Sama et al., 2011; Özdikmen et al., 2012a,b; Sama et al., 2012; Al-Hamadani & Özdikmen, 2014; Georgiev et al., 2015; Özbek et al., 2015; Tekin & Özdikmen, 2015; Şabanoglu & Şen, 2016; Albayati et al., 2016). This species is a new record for İzmir province and hereby Aegean region of Turkey.

Range: E: AL AU BE BH BU BY CR CT CZ DE EN FI FR GB GE GR HU IR IT LA LS LT LU MC MD NL NR NT PL PT RO SK SL SP ST SV SZ TR UK YU **A:** AB AR CY FE GG IQ IS JA KZ LI NC TR SC SY WS **N:** AG MO MR TU **NAR** (Danilevsky, 2018).

CLYTINI Mulsant, 1839

Chlorophorus (Chlorophorus) damascenus (Chevrolat, 1854)

Material examined: İzmir: Tire, Akyurt, bait trap with wine, 10.VII.2016, 1 specimen; 13.VII.2016, 1 specimen; 17.VII.2016, 4 specimens; 24.VII.2016, 1 specimen; 27.VII.2016, 1 specimen; bait trap with fig, 24.VII.2016, 2 specimens; Başköy, bait trap with wine, 17.VII.2016, 2 specimens; 24.VII.2016, 2 specimens; 27.VII.2016, 1 specimen; 31.VII.2016, 3 specimens; 07.VIII.2016, 2 specimens; bait trap with fig, 31.VII.2016, 2 specimens; Central province 1, bait trap with wine, 13.VII.2016, 3 specimens; 17.VII.2016, 1 specimen; bait trap with fig, 27.VII.2016, 1 specimen; Central province 2, bait trap with wine, 06.VII.2016, 1 specimen; 13.VII.2016, 3 specimens; bait trap with fig, 13.VII.2016, 2 specimens; Ortaköy, bait trap with wine, 05.VI.2016, 1 specimen; 10.VII.2016, 6 specimens; 17.VII.2016, 1 specimen; 24.VII.2016, 4 specimens; Dereli, bait trap with wine, 06.VII.2016, 1 specimen.

Hosts: Polyphagous in deciduous trees and herbaceous plants.

Provincial distribution in Turkey: Adana, Ankara, Antalya, Bartın, Bolu, Bursa, Çankırı, Çorum, Düzce, Hakkari, Hatay, İçel, İzmir, Kahramanmaraş, Karabük, Kastamonu, Kırıkkale, Konya, Muş, Nevşehir, Niğde, Osmaniye and Tunceli provinces in Asian Turkey (Anatolia) (Özbek et al., 2015; Özdikmen & Cihan, 2016). This species was recorded from İzmir province.

Range: E: GR (Rodos) **N:** EG **A:** CY ?IN IS IQ JO LE SY TR (Danilevsky, 2018).

STENHOMALINI Miroshnikov, 1989***Stenomalus (Obriopsis) bicolor* (Kraatz, 1862)**

Material examined: İzmir: Tire, Ortaköy, bait trap with wine, 24.IV.2016, 1 specimen.

Hosts: Polyphagous in deciduous trees and shrubs.

Provincial distribution in Turkey: Antalya, Hatay, İçel, Nevşehir, Niğde and Osmaniye provinces in Asian Turkey (Anatolia) (Pic, 1892; Bodemeyer, 1900; Demelt & Alkan, 1962; Demelt, 1963; İren & Ahmed, 1973; Adlbauer, 1988; Özdikmen, 2006; Sama et al., 2011, 2012; Özbek et al., 2015). The species is a new record for İzmir province and hereby Aegean region of Turkey.

Range: E: AL AU BH BU CR CZ GR HU IT MC SK SL SV YU A: CY IS SY TR (Danilevsky, 2018).

Among those, eleven species were collected by bait traps with wine and three species (*Trichoferus fasciculatus fasciculatus*, *Trichoferus griseus* and *Chlorophorus damascenus*) by two types of traps. 91% of the specimens were collected by bait traps with wine, while 9% of the specimens were collected by bait traps with fig (Table 2).

Percentages of collected material according to localities were different (Table 3) and the 35,09% of specimens were collected in Ortaköy. In orchards in Akyurt and Central province 1 followed it with the rates of 21,43 and 17,08%, respectively. Number of species was 8 in Akyurt and 6, 5, 5 in Dereli, Başköy and Central province 1, respectively. Three species namely, *Trichoferus fasciculatus fasciculatus*, *T.griseus* and *Chlorophorus damascenus* were collected from all six orchards.

Collection period of species according to weeks and months in 2016 were given in Figure 1. Material belonging to *Trichoferus griseus* were trapped during 13 weeks from mid of May up to mid of August. The material of the species of *Trichoferus fasciculatus fasciculatus* and *Chlorophorus damascenus* were collected mostly in July and in the first week of August.

Among those *T. fasciculatus fasciculatus* and *T. griseus* were previously reported as pest in fig orchards in Turkey (Akşit et al., 2003, 2005; Gençer et al., 2005).

The species of *Phymatodes testaceus* and *Stenomalus bicolor* and the subspecies of *Purpuricenens interscapillatus interscapillatus* are new records for İzmir province and Aegean region of Turkey.

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Table 1. Localities, altitudes and coordinates of fig orchards in Tire province of İzmir, western Turkey.

Localities	Altitudes (m)	Coordinates
Central province 1	91	38.077424 N / 27.676327 E
Central province 2	93	38.085638 N / 27.690763 E
Dereli	294	38.087183 N / 27.840090 E
Başköy	365	37.993109 N / 27.650724 E
Akyurt	447	38.008129 N / 27.626728 E
Ortaköy	473	38.012014 N / 27.675825 E

Table 2. Number of collected specimens according to trap type.

Species	Number of specimens		
	Bait traps with vine	Bait traps with fig	Total
<i>Stictoleptura fulva</i>	1	0	1
<i>Stictoleptura c. cordigera</i>	5	0	5
<i>Trichoferus f. fasciculatus</i>	26	2	28
<i>Trichoferus griseus</i>	211	21	232
<i>Cerambyx w. welensii</i>	2	0	2
<i>Cerambyx carinatus</i>	1	0	1
<i>Cerambyx cerdo acuminatus</i>	1	0	1
<i>Purpuricenus i. interscapillatus</i>	1	0	1
<i>Phymatodes testaceus</i>	5	0	5
<i>Chlorophorus damascenus</i>	39	6	45
<i>Stenhomalus bicolor</i>	1	0	1
Total	293	29	322
Rate (%)	91	9	100
Number of species	11	3	11

Table 3. Number of collected specimens according to localities.

Orchards /Altitudes	Central province 1 (91 m.)	Central province 2 (93 m.)	Dereli (294 m.)	Başköy (365 m.)	Akyurt (447 m.)	Ortaköy (473 m.)	Total	Rate (%)
<i>Stictoleptura fulva</i>	0	0	1	0	0	0	1	0,31
<i>Stictoleptura c. cordigera</i>	0	2	1	1	1	0	5	1,55
<i>Trichoferus f. fasciculatus</i>	7	1	6	1	5	8	28	8,70
<i>Trichoferus griseus</i>	41	13	9	30	47	92	232	72,05
<i>Cerambyx w. welensii</i>	0	0	1	0	1	0	2	0,62
<i>Cerambyx carinatus</i>	0	0	0	0	1	0	1	0,31
<i>Cerambyx cerdo acuminatus</i>	0	0	0	0	1	0	1	0,31
<i>Purpuricenus i. interscapillatus</i>	1	0	0	0	0	0	1	0,31
<i>Phymatodes testaceus</i>	1	0	0	1	3	0	5	1,55
<i>Chlorophorus damascenus</i>	5	5	1	12	10	12	45	13,98
<i>Stenhomalus bicolor</i>	0	0	0	0	0	1	1	0,31
Total number of specimens	55	21	19	45	69	113	322	100,00
Number of species	5	4	6	5	8	4	11	
Rate of specimens (%)	17,08	6,52	5,90	13,98	21,43	35,09		