



## A Study on the Insect Fauna in Some Provinces of Central, Eastern and Southeastern Anatolian Regions of Turkey

### Türkiye'nin İç, Doğu ve Güneydoğu Anadolu Bölgelerindeki Bazı İllerde Böcek Faunası Üzerine Bir Çalışma

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#### ABSTRACT

In the study, it was aimed to determine the insect fauna of some provinces of Central, Eastern and Southeastern Anatolian Regions, with in the Nabucco Natural Gas pipeline (Şırnak-Sivas) biological diversity survey study. In this context, insect species were collected from 25 different localities and one light-trap locality belonging to seven provinces (Sivas, Adıyaman, Malatya, Şanlıurfa, Diyarbakır, Mardin and Şırnak). A total of 301 taxa are given in the list belonging to 11 order and 69 families. Results were evaluated in the means of species diversity in this area.

#### Keywords

Turkey, insect, fauna.

#### Öz

Bu çalışmada, Doğalgaz Boru Hattı (Şırnak-Sivas) biyolojik çeşitlilik izleme çalışmaları kapsamında, İç, Doğu ve Güneydoğu Anadolu bölgelerindeki bazı illerin böcek faunalarının belirlenmesi amaçlanmıştır. Bu kapsamda, böcek örnekleri yedi şehirde (Sivas, Adıyaman, Malatya, Şanlıurfa, Diyarbakır, Mardin ve Şırnak) 25 farklı lokalite ve bir ışık tuzağı lokalitesinden toplanmıştır. Listede 11 takım ve 69 familyaya ait toplam 301 takson verilmiştir. Sonuçlar, bu bölgedeki tür çeşitliliği açısından değerlendirilmiştir.

#### Anahtar Kelimeler

Türkiye, böcek, fauna.

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## INTRODUCTION

Insects are the richest group of living things on the World. It is possible to find insects in any ecosystem. Since they are located at the lowest level of the food chain, they constitute food for many organisms including small birds, small mammals, reptilians and amphibians. Any intervention to insect populations will influence various parts of the food chain. These kinds of unconscious interventions put insects in a dangerous position in various levels and even make them disappear eventually. This study is part of the Nabucco Natural Gas Pipeline (Şırnak-Sivas) biological diversity survey study which includes the determination of the insect fauna and species diversity of Sivas, Adıyaman, Malatya, Şanlıurfa, Diyarbakır, Mardin and Şırnak provinces on this pipeline.

## MATERIALS and METHODS

Within the study context, insect specimens were collected from 25 different localities and one light-trap locality. Field studies were conducted in a five-day period between 2-6 June 2011. Collection sites were carefully selected to ensure that they are close to both terrestrial and aquatic systems. The land structure and vegetation were also considered at the collection sites. Specimens were collected by aerial net, pit-fall traps and light-trap. At all localities, aerial net was used to collect most of the samples. Pit-fall traps were used in all localities and 1-3 plastic cup on each locality. They were placed as open side is at the same level with ground and filled with 70% ethyl alcohol-water-liquid detergent solution together with beer to attract insects. Samples were collected after about one-week period. Light-trap was used to collect nocturnal and light-attracted species in one locality. All samples were processed with standard methods and while some of the collected specimens were put in collection, some of them were directly examined.

For the identifications, Arrow [1], Karaat & Göven [2] Demir [3], Baraud [4] and Lodos [5, 6] were used. Some of the groups were identified by the specialists: Diptera by Abdullah Hasbenli; Lepidoptera by Selma Seven Çalışkan, Chrysomelidae (Coleoptera) by Hüseyin Özdikmen; Scarabaeidae (Coleoptera) by Yakup Şenyüz; Elateridae (Coleoptera) by Mahmut Kabalak; Carabidae (Coleoptera)

by Neslihan Kocatepe Aslan; Cerambycidae (Coleoptera) by Burcu Şabanoğlu; Staphylinidae (Coleoptera) by Yavuz Turan, Formicidae (Hymenoptera) by Esra Elif Aydın Dede and remaining Hymenoptera by Fatih Dikmen. In addition, personal collections of Neşe Çağatay and Selim S. Çağlar were used as comparison material.

## RESULTS and DISCUSSION

In the study, a total of 301 taxa were identified while 248 of them on species level, 52 on genera level. Some of the specimens were only identified on family level, thus not counted but given in the list (Table 1.)

Within the biological diversity survey study context, since the species diversity is an important factor that could be affected by interventions, none of the identified species on the list are on the threatened status except two species. *Ischnura elegans* (Vander Linden, 1820) and *Anax parthenope* (Selys, 1839) belonging to order Odonata, are listed as “Least Concern-LC” according to IUCN. In addition, *Parnassius apollo* (Linnaeus, 1758) which is on “Vulnerable-VU” status was previously recorded from Malatya and Sivas and *Archon apollinus* (Herbst, 1789), which is on “Lower risk/near threatened-NT” status was previously recorded from Diyarbakır, Mardin and Şırnak provinces [7]. Similarly, some species belonging to Lepidoptera and Coleoptera (Cerambycidae, Lucanidae) are on protected status and indicated that they present in Turkey, but, concerning the study period these mentioned species could not be determined in this study.

According to results from 25 localities, it is concluded that some species are very common on this pathway and provinces. *Pieris rapae* (Linnaeus, 1758), *Vanessa atalanta* (Linnaeus, 1758) and *Vanessa cardui* (Linnaeus, 1758) from Lepidoptera, *Dolycoris baccarum* (Linnaeus, 1758) from Hemiptera, *Cercopis intermedia* (Kirschbaum, 1868) from Homoptera and *Coccinella septempunctata* Linnaeus, 1758 from Coleoptera could be given as examples. Among the localities, Nerduş stream surroundings and Yeşilalan Village in Mardin, Büyük Ördek Village in Şanlıurfa and Topbük stream in Malatya are rich in species number according to field observations and laboratory examinations. All localities have a stream and herbaceous vegetation around in common. These features could be seen as factors enhancing the species number and diversity.

**Table 1.** List of the determined species in this study. Herein, given is the list of 299 taxa belonging to 69 families.

Family	Scientific Name	Locality	Collector	
Ordo: EPHEMEROPTERA				
Heptageniidae	<i>Electrogena</i> sp.	05.VI.2011, Reşadiye, Malatya	O. Sert	
Ordo: ODONATA				
Coenagrionidae	<i>Ischnura elegans</i> (Vander Linden, 1820)	03.VI.2011, Yeşilalan Village, Mardin	O. Sert	
		04.VI.2011, Büyük Ördek Village, Şanlıurfa		
		05.VI.2011, Tohma stream, Malatya		
Aeshnidae	<i>Anax parthenope</i> (Selys, 1839)	02.VI.2011, Silopi, Şırnak	O. Sert	
Calopterygidae	<i>Calopteryx virgo</i> (Linnaeus 1758)	04.VI.2011, Büyük Ördek Village, Şanlıurfa	O. Sert	
Libellulidae	<i>Libellula depressa</i> Linnaeus, 1758	03.VI.2011, Yeşilalan Village, Mardin	O. Sert	
		04.VI.2011, Büyük Ördek Village, Şanlıurfa		
		<i>Sympetrum flaveolum</i> (Linnaeus, 1758)		03.VI.2011, Yeşilalan Village, Mardin
04.VI.2011, Büyük Ördek Village, Şanlıurfa				
Ordo: ORTHOPTERA				
Acrididae	<i>Acrida bicolor</i> (Thunberg, 1815)	02.VI.2011, Nerduş stream, Mardin	O. Sert	
		03.VI.2011, Bilge Village Road, Diyarbakır		
	<i>Chortippus brunneus</i> (Thunberg, 1815)	06.VI.2011, Karakuz Village, Malatya-Sivas	O. Sert	
	<i>Oedaleus decorus</i> (Germar, 1825)	02.VI.2011, Nerduş stream, Mardin	O. Sert	
	<i>Oedipoda miniata</i> (Pallas, 1771)	02.VI.2011, Nerduş stream, Mardin	O. Sert	
	<i>Anacridium aegyptium</i> (Linnaeus, 1764)	02.VI.2011, Nerduş stream, Mardin	O. Sert	
04.VI.2011, Büyük Ördek Village, Şanlıurfa				
Gryllotalpidae	<i>Gryllotalpa gryllotalpa</i> (Linnaeus, 1758)	03.VI.2011, Dumluca Pond, Mardin	O. Sert	
Gryllidae		03.VI.2011, Dumluca Pond, Mardin	O. Sert	
Tetrigidae	<i>Tetrix</i> sp.	05.VI.2011, Tohma Stream, Malatya	O. Sert	
		06.VI.2011, Karakuz Village, Malatya-Sivas		
Tettigonidae	<i>Tettigonia viridissima</i> (Linnaeus, 1758)	02.VI.2011, Nerduş stream, Mardin	O. Sert	
Ordo: HEMIPTERA				
Coreidae	<i>Coreus marginatus</i> (Linnaeus, 1758)	05.VI.2011, Sürgü stream, Malatya	O. Sert	
		<i>Coriomeris</i> sp.		02.VI.2011, Botaş pump station surroundings, Şırnak-Mardin
		<i>Corizus hyoscyami</i> (Linnaeus, 1758)		05.VI.2011, Topbük stream, Malatya
		<i>Gonocerus juniperi</i> Herrich-Schaffer, 1839		05.VI.2011, Reşadiye, Malatya
		<i>Phyllomorpha laciniata</i> (Villers, 1789)		05.VI.2011, Reşadiye, Malatya
Cydnidae	<i>Cydnus aterrimus</i> (Forster, 1771)	05.VI.2011, Reşadiye, Malatya	O. Sert	
Lygaeidae	<i>Geocoris arenarius</i> (Jakovlev, 1867)	02.VI.2011, Dicle river edge, Mardin	O. Sert	
		<i>Geocoris erythrocephalus</i> (Lepelletier & Serville, 1825)		05.VI.2011, Topbük stream, Malatya
		<i>Lygaeus equestris</i> (Linnaeus, 1758)		04.VI.2011, Büyük Ördek Village, Şanlıurfa
		05.VI.2011, Reşadiye, Malatya		
		05.VI.2011, Topbük stream, Malatya		

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	<i>Lygaeus pandurus</i> (Scopoli, 1763)	02.VI.2011, Nerduş stream, Mardin	O. Sert
	<i>Macroplox</i> sp.	06.VI.2011, Yukarı Ada Village, Sivas	O. Sert
	<i>Nysius graminicola</i> (Kolenati, 1845)	03.VI.2011, Viranşehir, Şanlıurfa	O. Sert
	<i>Oxycarenus pallens</i> (Herrich-Schaeffer, 1850)	05.VI.2011, Topbük stream, Malatya	O. Sert
Miridae	<i>Acetropis carinata</i> (Herrich-Schaeffer, 1842)	03.VI.2011, Viranşehir, Şanlıurfa	O. Sert
	<i>Adelphocoris lineatus</i> (Goeze, 1778)	03.VI.2011, Viranşehir, Şanlıurfa	O. Sert
	<i>Aloeomimus</i> sp.	02.VI.2011, Nerduş stream, Mardin 03.VI.2011, Yeşilalan Village, Mardin 03.VI.2011, Viranşehir, Şanlıurfa	O. Sert
	<i>Calorosis nemoralis</i> (Fabricius, 1787)	03.VI.2011, Viranşehir, Şanlıurfa	O. Sert
Nabidae	<i>Nabis pseudoferus</i> Remane, 1949	03.VI.2011, Viranşehir, Şanlıurfa	O. Sert
Pentatomidae	<i>Aelia albovittata</i> Fieber, 1868	05.VI.2011, Tohma stream, Malatya	O. Sert
	<i>Ancyrosoma leucogrammes</i> (Gmelin, 1790)	02.VI.2011, Ziyaret Village surroundings, Mardin 03.VI.2011, Yeşilalan Village, Mardin 05.VI.2011, Topbük stream, Malatya	O. Sert
	<i>Corpocoris pudicus</i> (Poda, 1761)	02.VI.2011, Silopi, Şırnak 05.VI.2011, Sürgü Dam, Malatya	O. Sert
	<i>Dolycoris baccarum</i> (Linnaeus, 1758)	02.VI.2011, Silopi, Şırnak 04.VI.2011, Şeyh Zeliha Hill, Şanlıurfa 04.VI.2011, Büyük Ördek Village, Şanlıurfa 05.VI.2011, Reşadiye, Malatya 05.VI.2011, Topbük stream, Malatya 06.VI.2011, South of Kangal, Sivas 06.VI.2011, Yukarı Ada Village, Sivas	O. Sert
	<i>Eurydema oleracea</i> (Linnaeus, 1758)	06.VI.2011, Yağdonduran Village, Sivas	O. Sert
	<i>Eurydema ornatum</i> (Linnaeus, 1758)	06.VI.2011, Yağdonduran Village, Sivas	O. Sert
	<i>Eysarcoris aeneus</i> (Scopoli, 1763)	05.VI.2011, Topbük stream, Malatya	O. Sert
	<i>Mustha spinosula</i> (Lefebvre, 1831)	03.VI.2011, Bilge Village Road, Diyarbakır	O. Sert
	<i>Stenozygum coloratum</i> (Klug, 1845)	04.VI.2011, Fırat Pass, Şanlıurfa	O. Sert
	<i>Sciocoris</i> sp.	06.VI.2011, Yağdonduran Village, Sivas	O. Sert
Pyrrhocoridae	<i>Pyrrhocoris apterus</i> Linnaeus, 1758	05.VI.2011, Sürgü stream, Malatya	O. Sert
Reduviidae	<i>Pirates hybridus</i> (Scopoli, 1763)	06.VI.2011, North of Kangal, Sivas	O. Sert
	<i>Rhynocoris</i> sp.	03.VI.2011, Bilge Village Road, Diyarbakır	O. Sert
Scutelleridae	<i>Eurygaster</i> sp.	03.VI.2011, Viranşehir, Şanlıurfa	O. Sert
	<i>Odontotarsus impictus</i> (Herting, 1971)	03.VI.2011, Yeşilalan Village, Mardin 03.VI.2011, Bilge Village Road, Diyarbakır	O. Sert
	<i>Psacasta</i> sp.	03.VI.2011, Bilge Village Road, Diyarbakır	O. Sert
Tingidae	<i>Tingis</i> sp.	03.VI.2011, Bilge Village Road, Diyarbakır	O. Sert

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Ordo: HOMOPTERA			
Cercopidae	<i>Cercopis intermedia</i> (Kirschbaum, 1868)	04.VI.2011, Şeyh Zeliha Hill, Şanlıurfa	O. Sert
		04.VI.2011, Büyük Ördek Village, Şanlıurfa	
		05.VI.2011, Reşadiye, Malatya	
		05.VI.2011, Sürgü stream, Malatya	
		05.VI.2011, Topbük stream, Malatya	
		06.VI.2011, North of Kangal, Sivas	
		06.VI.2011, Yukarı Ada Village, Sivas	
Ordo: RAPHIDOPTERA			
Raphidiidae	<i>Phaeostigma</i> sp.	05.VI.2011, Topbük stream, Malatya	O. Sert
Ordo: NEUROPTERA			
Chrysopidae	<i>Anisochrysa</i> sp.	02.VI.2011, Silopi, Şırnak	O. Sert
Nemopteridae	<i>Lertha extensa</i> (Olivier, 1811)	02.VI.2011, Nerduş stream, Mardin	O. Sert
Ordo: COLEOPTERA			
Alleculidae	<i>Cteniopus</i> sp. 1	02.VI.2011, Silopi, Şırnak	O. Sert
		02.VI.2011, Dicle river edge, Mardin	
	<i>Cteniopus</i> sp. 2	02.VI.2011, Silopi, Şırnak	O. Sert
		04.VI.2011, Fırat Pass, Şanlıurfa	
	<i>Omophlus</i> sp.	06.VI.2011, Yağdonduran Village, Sivas	O. Sert
Anthicidae	<i>Anthicus</i> sp.	06.VI.2011, Yukarı Ada Village, Sivas	O. Sert
Aphodidae	<i>Aphodius fimetarius</i> (Linnaeus, 1758)	03.VI.2011, Yeşilalan Village, Mardin	O. Sert
	<i>Nialus varians</i> (Duftschmid, 1805)	06.VI.2011, North of Kangal, Sivas	O. Sert
Anthribidae	<i>Bruchela rufipes</i> (Olivier, 1790)	06.VI.2011, Karakuz Village, Malatya-Sivas	O. Sert
		06.VI.2011, Yağdonduran Village, Sivas	
	<i>Bruchela suturalis</i> (Fabricius, 1792)	06.VI.2011, Karakuz Village, Malatya-Sivas	O. Sert
		06.VI.2011, Yağdonduran Village, Sivas	O. Sert
Attelabidae	<i>Rhynchites equatus</i> Germar, 1819	03.VI.2011, Bilge Village Road, Diyarbakır	O. Sert
	<i>Rhynchites hungaricus</i> Germar, 1819	05.VI.2011, Reşadiye, Malatya	O. Sert
		05.VI.2011, Topbük stream, Malatya	O. Sert
Buprestidae	<i>Agrius</i> sp.	02.VI.2011, Yayvan hill surroundings, Mardin	O. Sert
		06.VI.2011, Karakuz Village, Malatya-Sivas	
	<i>Antaxia hungarica</i> (Scopoli, 1772)	03.VI.2011, Yeşilalan Village, Mardin	O. Sert
	<i>Antaxia nitidula</i> (Linnaeus, 1758)	03.VI.2011, Yeşilalan Village, Mardin	O. Sert
	<i>Capnodis tenebricosa</i> (Olivier, 1790)	02.VI.2011, Silopi, Şırnak	O. Sert
		03.VI.2011, Yeşilalan Village, Mardin	
	<i>Chalcophorella stigmatica</i> (Schoenherr, 1817)	02.VI.2011, Yayvan hill surroundings, Mardin	O. Sert
Cantharidae	<i>Cantharis livida</i> Linnaeus, 1758	05.VI.2011, Reşadiye, Malatya	O. Sert
		05.VI.2011, Sürgü stream, Malatya	
	<i>Cantharis</i> sp. 1	06.VI.2011, South of Kangal, Sivas	O. Sert

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Carabidae	<i>Acinopus picipes</i> (Olivier, 1795)	03.VI.2011, Viranşehir, Şanlıurfa	O. Sert	
	<i>Amara plebeja</i> (Gyllenhal, 1810)	06.VI.2011, Karakuz Village, Malatya-Sivas	O. Sert	
	<i>Amara similata</i> (Gyllenhal, 1810)	06.VI.2011, South of Kangal, Sivas	O. Sert	
	<i>Bembidion tetracolum</i> Say, 1825	02.VI.2011, Silopi, Şırnak	O. Sert	
	<i>Brosicus</i> sp.	02.VI.2011, Silopi, Şırnak	O. Sert	
		04.VI.2011, Yarmakaya Village surroundings (Pond), Adiyaman		
	<i>Calathus cinctus</i> Motschulsky, 1850	03.VI.2011, Yeşilalan Village, Mardin	O. Sert	
	<i>Calathus fuscipes</i> (Goeze, 1777)	02.VI.2011, Ziyaret Village surroundings, Mardin 03.VI.2011, Yeşilalan Village, Mardin	O. Sert	
	<i>Carabus nemoralis</i> Muller, 1764	02.VI.2011, Ziyaret Village surroundings, Mardin	O. Sert	
	<i>Ditomus calydonius</i> P. Rossi 1790	03.VI.2011, Viranşehir, Şanlıurfa	O. Sert	
	<i>Dixus eremita</i> (Dejean, 1825)	04.VI.2011, Yarmakaya Village surroundings (Pond), Adiyaman	O. Sert	
	<i>Dixus obscurus</i> (Dejean, 1825)	05.VI.2011, Tohma Stream, Malatya	O. Sert	
	<i>Harpalus cupreus</i> Dejean, 1829	05.VI.2011, Sürgü stream, Malatya	O. Sert	
	<i>Harpalus distinguendus</i> (Duftschmid, 1812)	06.VI.2011, South of Kangal, Sivas	O. Sert	
	<i>Poecilus cupreus</i> (Linnaeus, 1758)	06.VI.2011, North of Kangal, Sivas	O. Sert	
<i>Pterostichus puncticollis</i> (Dejean, 1828)	04.VI.2011, Yarmakaya Village surroundings (Pond), Adiyaman	O. Sert		
<i>Syntomus foveatus</i> (Geoffroy, 1785)	02.VI.2011, Silopi, Şırnak	O. Sert		
Cerambycidae	<i>Agapanthia cardui</i> (Linnaeus, 1767)	02.VI.2011, Botaş pump station surroundings, Şırnak-Mardin	O. Sert	
	<i>Agapanthia suturalis</i> (Fabricius, 1787)	04.VI.2011, Büyük Ördek Village, Şanlıurfa 06.VI.2011, Karakuz Village, Malatya-Sivas	O. Sert	
	<i>Callimus angulatus angulatus</i> (Schrank, 1789)	02.VI.2011, Silopi-Şırnak	O. Sert	
	<i>Helladia humeralis</i> (Waltl, 1828)	03.VI.2011, Yeşilalan Village, Mardin	O. Sert	
	<i>Helladia pretiosafatima</i> (Ganglbauer, 1884)	04.VI.2011, Şeyh Zeliha Hill, Şanlıurfa	O. Sert	
	<i>Phytoecia caerulea</i> (Scopoli, 1772)	06.VI.2011, South of Kangal, Sivas	O. Sert	
	<i>Phytoecia croceipes</i> Reiche & Saulcy, 1858	03.VI.2011, Yeşilalan Village, Mardin	O. Sert	
	<i>Phytoecia cylindrica</i> (Linnaeus, 1758)	06.VI.2011, Karagömlek Village, Sivas	O. Sert	
	<i>Phytoecia geniculata</i> Mulsant, 1863	03.VI.2011, Yeşilalan Village, Mardin 05.VI.2011, Topbük stream, Malatya	O. Sert	
	<i>Stictoleptura rufa</i> (Brullé, 1832)	03.VI.2011, Yeşilalan Village, Mardin	O. Sert	
	<i>Vadonia unipunctata</i> (Fabricius, 1787)	06.VI.2011, Yağdonduran Village, Sivas	O. Sert	
	Chrysomelidae	<i>Cassida sanguinolenta</i> Müller, 1776	05.VI.2011, Topbük stream, Malatya	O. Sert
		<i>Chrysolina herbacea</i> (Duftschmid, 1825)	05.VI.2011, Topbük stream, Malatya 06.VI.2011, Yağdonduran Village, Sivas	O. Sert
		<i>Chrysolina hyperici</i> (Forster, 1771)	02.VI.2011, Nerduş stream, Mardin	O. Sert
		<i>Clytra valeriana</i> (Ménétriés, 1832).	05.VI.2011, Topbük stream, Malatya	O. Sert
<i>Entomoscelis suturalis</i> Weise, 1882		04.VI.2011, Büyük Ördek Village, Şanlıurfa	O. Sert	
<i>Galeruca pomonae</i> (Scopoli, 1763)		06.VI.2011, Karagömlek Village, Sivas	O. Sert	
<i>Labidostomis decipiens</i> Faldermann, 1837		04.VI.2011, Yarmakaya Village surroundings (Pond), Adiyaman	O. Sert	

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	<i>Labidostomis longimana</i> (Linnaeus, 1761)	03.VI.2011, Yeşilalan Village, Mardin	O. Sert
		03.VI.2011, Demirci Village surroundings, Viranşehir, Şanlıurfa	
	<i>Labidostomis</i> sp.	05.VI.2011, Tohma Stream, Malatya	O. Sert
	<i>Longitarsis</i> sp.	05.VI.2011, Topbük stream, Malatya	O. Sert
	<i>Oulema melanopus</i> (Linnaeus, 1758)	06.VI.2011, Yağdonduran Village, Sivas	O. Sert
	<i>Pachnephorus villosus</i> (Duftschmid, 1825)	06.VI.2011, South of Kangal, Sivas	O. Sert
	<i>Pachybrachis latiticolis</i> (Suffrian, 1860)	03.VI.2011, Yeşilalan Village, Mardin	O. Sert
	<i>Pachybrachis scripticollis</i> Faldermann, 1837	03.VI.2011, Yeşilalan Village, Mardin	O. Sert
		03.VI.2011, Bilge Village Road, Diyarbakır;	
		05.VI.2011, Topbük stream, Malatya	
	<i>Phyllotreta vittula</i> (Redtenbacher, 1849)	06.VI.2011, Yukarı Ada Village, Sivas	O. Sert
	<i>Smaragdina biornata biornata</i> (Lefèvre, 1872)	02.VI.2011, Dicle river edge, Mardin	O. Sert
		06.VI.2011, Yağdonduran Village, Sivas	
Bruchinae	<i>Bruchidius holosericeus</i> Schoenherr, 1832	05.VI.2011, Sürgü Dam, Malatya	O. Sert
	<i>Spermophagus</i> sp.	05.VI.2011, Topbük stream, Malatya	O. Sert
Cleridae	<i>Trichodes apiarius</i> (Linnaeus, 1758)	06.VI.2011, Karakuz Village, Malatya-Sivas	O. Sert
	<i>Trichodes quadriguttatus</i> Adams, 1817	02.VI.2011, Nerduş stream, Mardin	O. Sert
		02.VI.2011, Botaş pump station surroundings, Şırnak-Mardin	
	<i>Trichodes insignis</i> Ronchetti, 1910	03.VI.2011, Demirci Village surroundings, Viranşehir, Şanlıurfa	O. Sert
	<i>Trichodes sipylus</i> (Linnaeus, 1758)	02.VI.2011, Yayvan hill surroundings, Mardin	O. Sert
		05.VI.2011, Topbük stream, Malatya	
Coccinellidae	<i>Adalia bipunctata</i> (Linnaeus, 1758)	02.VI.2011, Dicle river edge, Mardin	O. Sert
		04.VI.2011, Şeyh Zeliha Hill, Şanlıurfa	
	<i>Adonia variegata</i> (Goeze, 1777)	03.VI.2011, Yeşilalan Village, Mardin	O. Sert
	<i>Bulea lichatschovi</i> Hummel, 1827)	05.VI.2011, Sürgü Dam, Malatya	O. Sert
	<i>Coccinella septempunctata</i> Linnaeus, 1758	02.VI.2011, Dicle river edge, Mardin	O. Sert
		02.VI.2011, Ziyaret Village surroundings, Mardin	
		03.VI.2011, Bilge Village Road, Diyarbakır	
		03.VI.2011, Demirci Village surroundings, Viranşehir, Şanlıurfa	
		04.VI.2011, Şeyh Zeliha Hill, Şanlıurfa 04.VI.2011, Büyük Ördek Village, Şanlıurfa 05.VI.2011, Topbük stream, Malatya	
		06.VI.2011, South of Kangal, Sivas	

**Table 1.** List of the determined species in this study. Herein, given is the list of 299 taxa belonging to 69 families (Continue).

	<i>Exochomus quadripustulatus</i> Linnaeus, 1758)	02.VI.2011, Dicle river edge, Mardin 03.VI.2011, Bilge Village Road, Diyarbakır 04.VI.2011, Şeyh Zeliha Hill, Şanlıurfa 04.VI.2011, Büyük Ördek Village, Şanlıurfa 05.VI.2011, Topbük stream, Malatya 06.VI.2011, Yukarı Ada Village, Sivas	O. Sert
	<i>Psyllobora vigintiduopunctata</i> (Linnaeus, 1758)	05.VI.2011, Sürgü stream, Malatya 06.VI.2011, Yukarı Ada Village, Sivas	O. Sert
Curculionidae	<i>Baris atricolor</i> (Boheman, 1844)	02.VI.2011, Yayvan hill surroundings, Mardin	O. Sert
	<i>Baris timida</i> Germar, 1819	05.VI.2011, Topbük stream, Malatya	O. Sert
	<i>Bangasternus orientalis</i> (Capiomont, 1873)	02.VI.2011, Silopi, Şırnak 02.VI.2011, Nerduş stream, Mardin 02.VI.2011, Dicle river edge, Mardin 02.VI.2011, Botaş pump station surroundings, Şırnak-Mardin 03.VI.2011, Bilge Village Road, Diyarbakır 04.VI.2011, Büyük Ördek Village, Şanlıurfa 05.VI.2011, Topbük stream, Malatya	O. Sert
	<i>Ceutorhynchus difficilis</i> Schultze, 1898	03.VI.2011, Yeşilalan Village, Mardin 05.VI.2011, Sürgü Dam, Malatya 06.VI.2011, Yağdonduran Village, Sivas 06.VI.2011, Karagömlek Village, Sivas	O. Sert
	<i>Ceutorhynchus fallax</i> Boheman, 1845	05.VI.2011, Sürgü Dam, Malatya 06.VI.2011, South of Kangal, Sivas 06.VI.2011, Yağdonduran Village, Sivas 06.VI.2011, Karagömlek Village, Sivas	O. Sert
	<i>Ceutorhynchus sophiae</i> (Steven, 1829)	06.VI.2011, Karakuz Village, Malatya-Sivas 06.VI.2011, South of Kangal, Sivas	O. Sert
	<i>Ceutorhynchus sulcicollis</i> Stephens, 1829	03.VI.2011, Bilge Village Road, Diyarbakır 06.VI.2011, Yağdonduran Village, Sivas	O. Sert
	<i>Ceutorhynchus</i> sp.	06.VI.2011, South of Kangal, Sivas	O. Sert
	<i>Cionus hortulanus</i> (Fourcroy, 1785)	05.VI.2011, Sürgü Dam, Malatya 05.VI.2011, Tohma Stream, Malatya	O. Sert
	<i>Coniatus tamarisci</i> Germar, 1817	05.VI.2011, Tohma Stream, Malatya	O. Sert
	<i>Conioleonus nigrosuturatus</i> (Goeze, 1777)	04.VI.2011, Fırat Pass, Şanlıurfa 05.VI.2011, Sürgü stream, Malatya	O. Sert



**Table 1.** List of the determined species in this study. Herein, given is the list of 299 taxa belonging to 69 families (Continue).

<i>Coryssomerus capucinus</i> (Beck, 1817)	06.VI.2011, Yukarı Ada Village, Sivas	O. Sert
<i>Eusomus ovulum</i> Germar, 1824	05.VI.2011, Sürgü Dam, Malatya 06.VI.2011, Yukarı Ada Village, Sivas	O. Sert
<i>Gymntron asellus</i> (Gravenhorst, 1807)	05.VI.2011, Tohma Stream, Malatya 06.VI.2011, Yukarı Ada Village, Sivas	O. Sert
<i>Gymntron bipustulatum</i> (Rossi, 1792)	05.VI.2011, Topbük stream, Malatya	O. Sert
<i>Gymntron tetrum</i> (Fabricius, 1792)	04.VI.2011, Büyük Ördek Village, Şanlıurfa	O. Sert
<i>Hypera farinosa</i> (Boheman, 1842)	03.VI.2011, Bilge Village Road, Diyarbakır 05.VI.2011, Sürgü Dam, Malatya	O. Sert
<i>Hypera nigrirostris</i> (Fabricius, 1775)	06.VI.2011, South of Kangal, Sivas	O. Sert
<i>Hypera variabilis</i> Sturm, 1826	03.VI.2011, Bilge Village Road, Diyarbakır 03.VI.2011, Viranşehir, Şanlıurfa 05.VI.2011, Tohma Stream, Malatya	O. Sert
<i>Larinus brevirostris</i> Hochhuth, 1851	03.VI.2011, Viranşehir, Şanlıurfa	O. Sert
<i>Larinus centaureaes</i> (Olivier, 1807)	02.VI.2011, Botaş pump station surroundings, Şırnak-Mardin	O. Sert
<i>Larinus jaceae</i> (Fabricius, 1775)	06.VI.2011, South of Kangal, Sivas	O. Sert
<i>Larinus minutus</i> Gyllenhal, 1835	02.VI.2011, Silopi, Şırnak 03.VI.2011, Bilge Village Road, Diyarbakır	O. Sert
<i>Larinus latus</i> (Herbst 1874)	05.VI.2011, Topbük stream, Malatya 06.VI.2011, North of Kangal, Sivas	O. Sert
<i>Larinus onopordi</i> Fabricius, 1787	02.VI.2011, Botaş pump station surroundings, Şırnak-Mardin 03.VI.2011, Bilge Village Road, Diyarbakır 06.VI.2011, Karakuz Village, Malatya-Sivas	O. Sert
<i>Larinus ursus</i> (Fabricius, 1792)	04.VI.2011, Fırat Pass, Şanlıurfa	O. Sert
<i>Larinus</i> sp.	04.VI.2011, Büyük Ördek Village, Şanlıurfa	O. Sert
<i>Lixus cardui</i> Olivier, 1807	02.VI.2011, Botaş pump station surroundings, Şırnak-Mardin 02.VI.2011, Yayvan hill surroundings, Mardin 03.VI.2011, Bilge Village Road, Diyarbakır 04.VI.2011, Büyük Ördek Village, Şanlıurfa 06.VI.2011, South of Kangal, Sivas	O. Sert
<i>Lixus elegantulus</i> Boheman, 1843	04.VI.2011, Şeyh Zeliha Hill, Şanlıurfa 05.VI.2011, Topbük stream, Malatya	O. Sert
<i>Mecinus janthinus</i> Germar, 1821	05.VI.2011, Topbük stream, Malatya	O. Sert
<i>Mecinus pyraister</i> Germar, 1821	06.VI.2011, Karakuz Village, Malatya-Sivas 06.VI.2011, Yukarı Ada Village, Sivas	O. Sert
<i>Microplonthus rugulosus</i> (Herbst, 1795)	05.VI.2011, Sürgü stream, Malatya	O. Sert
<i>Nanophies</i> sp.	06.VI.2011, Yukarı Ada Village, Sivas	O. Sert
<i>Neoglocianus albovittatus</i> (Germar, 1824)	05.VI.2011, Topbük stream, Malatya	O. Sert
<i>Neoglocianus maculaalba</i> (Herbst, 1795)	06.VI.2011, Karagömlek Village, Sivas	O. Sert

**Table 1.** List of the determined species in this study. Herein, given is the list of 299 taxa belonging to 69 families (Continue).

	<i>Phyllobius</i> sp.	02.VI.2011, Yayvan hill surroundings, Mardin	O. Sert
	<i>Sibinia subelliptica</i> (Desbrochers des Loges, 1873)	06.VI.2011, South of Kangal, Sivas	O. Sert
	<i>Sibinia</i> sp.	06.VI.2011, Karakuz Village, Malatya-Sivas 06.VI.2011, South of Kangal, Sivas	O. Sert
	<i>Sitona macularius</i> (Marsham, 1802)	02.VI.2011, Yayvan hill surroundings, Mardin  03.VI.2011, Bilge Village Road, Diyarbakır 03.VI.2011, Viranşehir, Şanlıurfa  04.VI.2011, Büyük Ördek Village, Şanlıurfa	O. Sert
	<i>Sitona hispidulus</i> Germar, 1817	02.VI.2011, Yayvan hill surroundings, Mardin  03.VI.2011, Bilge Village Road, Diyarbakır 03.VI.2011, Viranşehir, Şanlıurfa  04.VI.2011, Büyük Ördek Village, Şanlıurfa 05.VI.2011, Sürgü Dam, Malatya  06.VI.2011, Karagömlek Village, Sivas	O. Sert
	<i>Sitona humeralis</i> Stephens, 1831	03.VI.2011, Bilge Village Road, Diyarbakır  03.VI.2011, Demirci Village surroundings, Viranşehir, Şanlıurfa  04.VI.2011, Şeyh Zeliha Hill, Şanlıurfa	O. Sert
	<i>Sitona longulus</i> Gyllenhal 1834	02.VI.2011, Dicle river edge, Mardin	O. Sert
	<i>Smicronyx jungermanniae</i> (Reich, 1797)	06.VI.2011, Karagömlek Village, Sivas	O. Sert
	<i>Strophomorphus porcellus</i> (Schoenherr, 1832)	05.VI.2011, Tohma Stream, Malatya	O. Sert
	<i>Tychius brevisculus</i> Desbrochers, 1873	05.VI.2011, Sürgü Dam, Malatya  06.VI.2011, Karakuz Village, Malatya-Sivas  06.VI.2011, Karagömlek Village, Sivas	O. Sert
	<i>Tychius crypticus</i> Caldara, 1986	02.VI.2011, Dicle river edge, Mardin	O. Sert
Dermesti- dae	<i>Anthrenus goliath</i> Mulsant & Rey, 1868	02.VI.2011, Silopi, Şırnak  03.VI.2011, Yeşilalan Village, Mardin	O. Sert
	<i>Anthrenus</i> sp.	03.VI.2011, Demirci Village surroundings, Viranşehir, Şanlıurfa	O. Sert
	<i>Dermestes sardous asiaticus</i> Háva, 2002	02.VI.2011, Botaş pump station surroundings, Şırnak-Mardin  04.VI.2011, Fırat Pass, Şanlıurfa	O. Sert
Elateridae	<i>Agriotes paludum</i> Kiesenwetter, 1859	05.VI.2011, Topbük stream, Malatya	O. Sert
	<i>Agriotes proximus</i> Schwarz, 1891	06.VI.2011, Yağdonduran Village, Sivas	O. Sert
	<i>Cardiophorus dolini</i> Mardjanian, 1985	02.VI.2011, Dicle river edge, Mardin  03.VI.2011, Dumluca Pond, Mardin	O. Sert
	<i>Cardiophorus hayekae</i> Platia & Gudenzi, 2002	05.VI.2011, Sürgü Dam, Malatya	O. Sert

**Table 1.** List of the determined species in this study. Herein, given is the list of 299 taxa belonging to 69 families (Continue).

	<i>Cardiophorus megathorax</i> (Faldermann, 1835)	02.VI.2011, Silopi, Şırnak 02.VI.2011, Nerduş stream, Mardin 04.VI.2011, Şeyh Zeliha Hill, Şanlıurfa 04.VI.2011, Büyük Ördek Village, Şanlıurfa 05.VI.2011, Reşadiye, Malatya	O. Sert
	<i>Cardiophorus nigratissimus</i> Buysson, 1891	02.VI.2011, Silopi, Şırnak 02.VI.2011, Nerduş stream, Mardin 02.VI.2011, Dicle river edge, Mardin 02.VI.2011, Ziyaret Village surroundings, Mardin 03.VI.2011, Bilge Village Road, Diyarbakır 04.VI.2011, Şeyh Zeliha Hill, Şanlıurfa 04.VI.2011, Yarmakaya Village surroundings (Pond), Adıyaman 05.VI.2011, Tohma Stream, Malatya	O. Sert
	<i>Cardiophorus</i> sp. 1	02.VI.2011, Dicle river edge, Mardin	O. Sert
	<i>Drasterius bimaculatus</i> (Rossi, 1790)	02.VI.2011, Silopi, Şırnak	O. Sert
	<i>Peripontius elegantulus</i> Platia, 2003	02.VI.2011, Yayvan hill surroundings, Mardin	O. Sert
	<i>Tolphorea pallida</i> Platia, 2004	03.VI.2011, Demirci Village surroundings, Viranşehir, Şanlıurfa	O. Sert
Malachiidae	<i>Malachius aeneus</i> (Linnaeus, 1758)	02.VI.2011, Silopi, Şırnak 02.VI.2011, Dicle river edge, Mardin 03.VI.2011, Bilge Village Road, Diyarbakır 03.VI.2011, Demirci Village surroundings, Viranşehir, Şanlıurfa 04.VI.2011, Büyük Ördek Village, Şanlıurfa 05.VI.2011, Reşadiye, Malatya 05.VI.2011, Topbük stream, Malatya	O. Sert
	<i>Malachius bipustulatus</i> (Linnaeus, 1758)	02.VI.2011, Silopi, Şırnak 02.VI.2011, Dicle river edge, Mardin 04.VI.2011, Büyük Ördek Village, Şanlıurfa 05.VI.2011, Topbük stream, Malatya 06.VI.2011, Yağdonduran Village, Sivas	O. Sert
Meloidae	<i>Alosimus</i> sp.	02.VI.2011, Dicle river edge, Mardin	O. Sert
Scarabaeidae	<i>Blitopertha nigripennis</i> (Reitter, 1888)	05.VI.2011, Sürgü Dam, Malatya	O. Sert
	<i>Cetonia kemali</i> Delpont, 1995	06.VI.2011, Karakuz Village, Malatya-Sivas	O. Sert

**Table 1.** List of the determined species in this study. Herein, given is the list of 299 taxa belonging to 69 families (Continue).

	<i>Chaetopteropia segetum</i> (Herbst, 1782)	02.VI.2011, Dicle river edge, Mardin 02.VI.2011, Ziyaret Village surroundings, Mardin 05.VI.2011, Tohma Stream, Malatya	O. Sert
	<i>Eulasia arctos</i> (Pallas, 1781).	03.VI.2011, Bilge Village Road, Diyarbakır 05.VI.2011, Reşadiye, Malatya	O. Sert
	<i>Eulasia fastuosa</i> Reitter, 1890	02.VI.2011, Ziyaret Village surroundings, Mardin	O. Sert
	<i>Eulasia papaveris</i> (Sturm, 1843)	03.VI.2011, Yeşilalan Village, Mardin 03.VI.2011, Bilge Village Road, Diyarbakır 06.VI.2011, South of Kangal-Sivas	O. Sert
	<i>Eulasia vittata</i> Fabricius, 1775	05.VI.2011, Reşadiye, Malatya	O. Sert
	<i>Eulasia vittata vittata</i> (Fabricius, 1775)	02.VI.2011, Nerduş stream, Mardin	O. Sert
	<i>Netocia afflicta</i> (Gory & Percheron 1833)	02.VI.2011, Ziyaret Village surroundings, Mardin	O. Sert
	<i>Omaloplia spiraeae</i> Pallas, 1773	06.VI.2011, Karakuz Village, Malatya-Sivas	O. Sert
	<i>Oxythyrea albopicta</i> Motschulsky, 1845	05.VI.2011, Sürgü Dam, Malatya	O. Sert
	<i>Oxythyrea cinctella</i> (Schaum, 1841)	03.VI.2011, Bilge Village Road, Diyarbakır 04.VI.2011, Yarmakaya Village surroundings (Pond), Adıyaman 05.VI.2011, Topbük stream, Malatya 06.VI.2011, Yağdonduran Village, Sivas	O. Sert
	<i>Pharaonus varicolorus</i> (Burmeister, 1844)	04.VI.2011, Şeyh Zeliha Hill, Şanlıurfa	O. Sert
	<i>Protaetia (Potosia) funebris funebris</i> (Gory & Percheron, 1833)	03.VI.2011, Bilge Village Road, Diyarbakır	O. Sert
	<i>Protaetia (Potosia) funebris funesta</i> (Ménétries, 1836)	03.VI.2011, Bilge Village Road, Diyarbakır	O. Sert
	<i>Tropinota hirta</i> (Poda, 1761)	06.VI.2011, Karakuz Village, Malatya-Sivas	O. Sert
	<i>Tropinota senicula</i> Ménétries, 1832	03.VI.2011, Bilge Village Road, Diyarbakır	O. Sert
	<i>Valgus hemipterus</i> (Linnaeus, 1758)	05.VI.2011, Sürgü Dam, Malatya	O. Sert
Staphylinidae	<i>Aleochara bipustulata</i> (Linnaeus, 1761)	05.VI.2011, Topbük stream, Malatya 06.VI.2011, Karakuz Village, Malatya-Sivas 06.VI.2011, Yağdonduran Village, Sivas	
	<i>Anotylus rugosus</i> (Fabricius, 1775)	06.VI.2011, North of Kangal, Sivas	O. Sert
	<i>Ocyopus orientis</i> Smetana & Davies, 2000	02.VI.2011, Ovaköy-Silopi, Şırnak	O. Sert
	<i>Quedius tenellus</i> (Gravenhorst, 1806)	05.VI.2011, Sürgü stream, Malatya	O. Sert
	<i>Philonthus atratus</i> Gravenhorst, 1802	06.VI.2011, Karakuz Village, Malatya-Sivas	O. Sert
	<i>Philonthus laminatus</i> Creutzer, 1799	06.VI.2011, Karakuz Village, Malatya-Sivas 06.VI.2011, North of Kangal, Sivas	O. Sert
	<i>Platystethus capito</i> (Heer, 1839)	03.VI.2011, Yeşilalan Village, Mardin	O. Sert
	<i>Platystethus nitens</i> (C.R. Sahlberg, 1832)	03.VI.2011, Yeşilalan Village, Mardin	O. Sert
	<i>Tachyporus hypnorum</i> (Fabricius, 1775)	03.VI.2011, Yeşilalan Village, Mardin	O. Sert
Tenebrionidae	<i>Gonocephalum pusillum</i> (Fabricius, 1791)	05.VI.2011, Reşadiye, Malatya	O. Sert
	<i>Pimelia</i> sp.1	05.VI.2011, Reşadiye, Malatya	O. Sert
	<i>Pimelia</i> sp.2	06.VI.2011, North of Kangal, Sivas	O. Sert
	<i>Tentyria rotundata</i> (Brullé 1832)	05.VI.2011, Reşadiye, Malatya	O. Sert

**Table 1.** List of the determined species in this study. Herein, given is the list of 299 taxa belonging to 69 families (Continue).

Ordo: DIPTERA			
Asilidae	<i>Dysmachus bimucronatus</i> (Loew, 1854)	06.VI.2011, South of Kangal, Sivas	O. Sert
	<i>Dysmachus harpax</i> Villeneuve, 1904	06.VI.2011, Yukarı Ada Village, Sivas	O. Sert
		06.VI.2011, Karagömlek Village, Sivas	
	<i>Saropogon jugulum</i> (Loew, 1847)	04.VI.2011, Fırat Pass, Şanlıurfa	O. Sert
	<i>Stenopogon elongatus</i> (Meigen, 1804)	02.VI.2011, Yayvan hill surroundings, Mardin	O. Sert
	<i>Stenopogon junceus</i> Wiedemann, 1820	02.VI.2011, Ziyaret Village surroundings, Mardin	O. Sert
Bibionidae	<i>Biblio marci</i> Linnaeus, 1758	06.VI.2011, South of Kangal, Sivas	O. Sert
		06.VI.2011, Yağdonduran Village, Sivas	
		06.VI.2011, Yukarı Ada Village, Sivas	
Syrphidae	<i>Eristalis arbustorum</i> Linnaeus, 1758	05.VI.2011, Reşadiye, Malatya	O. Sert
	<i>Syrphus ribesii</i> (Linnaeus, 1758)	03.VI.2011, Yeşilalan Village, Mardin 05.VI.2011, Sürgü stream, Malatya	O. Sert
	<i>Xanthogramma pedissequum</i> (Harris, 1776)	06.VI.2011, North of Kangal, Sivas	O. Sert
Tabanidae	<i>Pangonius pyritosus</i> Loew, 1859	03.VI.2011, Bilge Village Road, Diyarbakır	O. Sert
	<i>Tabanus spodopterus</i> Meigen, 1820	03.VI.2011, Bilge Village Road, Diyarbakır	O. Sert
	<i>Tabanus</i> sp.	02.VI.2011, Silopi, Şırnak	O. Sert
	<i>Therioptectes tricolor</i> Zeller, 1842	05.VI.2011, Reşadiye, Malatya	O. Sert
Tephritidae	<i>Urophora cardui</i> Linnaeus, 1758	03.VI.2011, Yeşilalan Village, Mardin	O. Sert
Ordo: HYMENOPTERA			
Andrenidae	<i>Andrena</i> sp. 1	05.VI.2011, Topbük stream, Malatya	O. Sert
	<i>Andrena</i> sp. 2	05.VI.2011, Reşadiye, Malatya	O. Sert
	<i>Andrena</i> sp. 3	06.VI.2011, North of Kangal, Sivas	O. Sert
	<i>Andrena</i> sp. 4	06.VI.2011, North of Kangal, Sivas	O. Sert
	<i>Andrena</i> sp. 5	06.VI.2011, North of Kangal, Sivas	O. Sert
	<i>Andrena</i> sp. 6	06.VI.2011, South of Kangal, Sivas	O. Sert
	<i>Andrena</i> sp. 7	05.VI.2011, Sürgü stream, Malatya	O. Sert
	<i>Andrena</i> sp. 8	05.VI.2011, Sürgü stream, Malatya	O. Sert
	<i>Andrena</i> sp. 9	05.VI.2011, Sürgü stream, Malatya	O. Sert
	<i>Andrena</i> sp. 10	06.VI.2011, Karagömlek Village, Sivas	O. Sert
	<i>Andrena</i> sp. 11	06.VI.2011, Yağdonduran Village, Sivas	O. Sert
Apidae	<i>Bombus</i> sp.	05.VI.2011, Topbük stream, Malatya	O. Sert
	<i>Ceratina</i> sp.	05.VI.2011, Sürgü Dam, Malatya	O. Sert
	<i>Eucera</i> sp.	02.VI.2011, Dicle river edge, Mardin	O. Sert
	<i>Osmia</i> sp.	02.VI.2011, Silopi, Şırnak	O. Sert
	<i>Bombus fragrans</i> (Pallas, 1771)	05.VI.2011, Topbük stream, Malatya	O. Sert
	<i>Xylocopa violacea</i> (Linnaeus, 1758)	05.VI.2011, Reşadiye, Malatya	O. Sert
	<i>Xylocopa iris</i> (Christ, 1791)	05.VI.2011, Topbük stream, Malatya	O. Sert
	<i>Anthophora</i> sp. 1	02.VI.2011, Silopi, Şırnak	O. Sert
		02.VI.2011, Dicle river edge, Mardin	
	<i>Anthophora</i> sp. 2	06.VI.2011, North of Kangal, Sivas	O. Sert

**Table 1.** List of the determined species in this study. Herein, given is the list of 299 taxa belonging to 69 families (Continue).

Cephalidae	<i>Cephus pygmaeus</i> Linnaeus, 1758	06.VI.2011, Yağdonduran Village, Sivas 06.VI.2011, Karagömlek Village, Sivas	O. Sert
	<i>Calameuta filiformis</i> (Eversmann, 1847)	06.VI.2011, South of Kangal, Sivas	O. Sert
Chrysididae	<i>Hedychrum nobile</i> (Scopoli, 1763)	06.VI.2011, Karakuz Village, Malatya-Sivas	O. Sert
Formicidae	<i>Cataglyphis aenescens</i> (Nylander, 1849)	02.VI.2011, Silopi, Şırnak 03.VI.2011, Yeşilalan Village, Mardin 04.VI.2011, Fırat Pass, Şanlıurfa 05.VI.2011, Sürgü Dam, Malatya	O. Sert
	<i>Cataglyphis nodus</i> (Brullé, 1832)	02.VI.2011, Silopi, Şırnak 03.VI.2011, Yeşilalan Village, Mardin 04.VI.2011, Fırat Pass, Şanlıurfa 05.VI.2011, Reşadiye, Malatya 05.VI.2011, Sürgü Dam, Malatya 05.VI.2011, Topbük stream, Malatya 06.VI.2011, Karakuz Village, Malatya-Sivas	O. Sert
	<i>Lasius</i> sp.	02.VI.2011, Silopi, Şırnak 03.VI.2011, Yeşilalan Village, Mardin 04.VI.2011, Fırat Pass, Şanlıurfa	O. Sert
Halictidae	<i>Halictus brunnescens</i> (Eversmann 1852)	04.VI.2011, Yarmakaya Village surroundings (Pond), Adıyaman	O. Sert
	<i>Halictus resurgens</i> Nurse, 1903	04.VI.2011, Fırat Pass, Şanlıurfa	O. Sert
	<i>Seladonia smaragdula</i> (Vachal, 1895)	06.VI.2011, Yağdonduran Village, Sivas	O. Sert
	<i>Seladonia kesleri</i> (Bramson, 1879)	06.VI.2011, Karagömlek Village, Sivas	O. Sert
Sphecidae	<i>Ammophila</i> sp.	03.VI.2011, Bilge Village Road, Diyarbakır	O. Sert
Vespidae	<i>Polistes dominula</i> (Christ, 1791)	03.VI.2011, Bilge Village Road, Diyarbakır	O. Sert
	<i>Vespa crabro</i> (Linnaeus, 1758)	04.VI.2011, Büyük Ördek Village, Şanlıurfa 06.VI.2011, North of Kangal, Sivas	O. Sert
Ordo: LEPIDOPTERA			
Geometridae	<i>Rhodostrophia vibcaria</i> (Clerck, 1759)	06.VI.2011, North of Kangal, Sivas	O. Sert
Hesperidae	<i>Muschampia poggei</i> (Lederer, 1858)	02.VI.2011, Botaş pump station surroundings, Şırnak-Mardin	O. Sert
	<i>Thymelicus lineola</i> (Ochsenheimer, 1808)	04.VI.2011, Büyük Ördek Village, Şanlıurfa	O. Sert
	<i>Thymelicus sylvestris</i> (Poda, 1761)	03.VI.2011, Yeşilalan Village, Mardin	O. Sert
Lycaenidae	<i>Glaucopteryx alexis</i> (Poda, 1761)	06.VI.2011, Karakuz Village, Malatya-Sivas	O. Sert
	<i>Lycaena thersamon</i> Esper, 1784	05.VI.2011, Reşadiye, Malatya 05.VI.2011, Sürgü Dam, Malatya	O. Sert
	<i>Plebejus pylaon</i> (Fischer-Waldheim, 1824)	05.VI.2011, Sürgü Dam, Malatya	O. Sert
	<i>Polyommatus coelestinus</i> (Eversmann, 1843)	06.VI.2011, Karakuz Village, Malatya-Sivas	O. Sert

**Table 1.** List of the determined species in this study. Herein, given is the list of 299 taxa belonging to 69 families (Continue).

	<i>Polyommatus icarus</i> Rottemburg, 1775	02.VI.2011, Botaş pump station surroundings, Şırnak-Mardin 04.VI.2011, Büyük Ördek Village, Şanlıurfa 04.VI.2011, Fırat Pass, Şanlıurfa 05.VI.2011, Sürgü stream, Malatya 05.VI.2011, Topbük stream, Malatya	O. Sert
	<i>Satyrrium abdominalis</i> (Gerhard, 1850)	03.VI.2011, Bilge Village Road, Diyarbakır	O. Sert
	<i>Satyrrium ilicis</i> (Esper, 1779)	02.VI.2011, Yayvan hill surroundings, Mardin	O. Sert
Noctuidae	<i>Acontia lucida</i> (Hufnagel, 1767)	02.VI.2011, Dicle river edge, Mardin	O. Sert
Nymphalidae	<i>Argynnis pandora</i> (Denis & Schiffermüller, 1775)	03.VI.2011, Yeşilalan Village, Mardin	O. Sert
	<i>Coenonympha pamphilus</i> (Linnaeus, 1758)	05.VI.2011, Sürgü stream, Malatya 06.VI.2011, South of Kangal, Sivas 06.VI.2011, North of Kangal, Sivas	O. Sert
	<i>Coenonympha saadi</i> Kollar, 1849	02.VI.2011, Botaş pump station surroundings, Şırnak-Mardin 06.VI.2011, Karakuz Village, Malatya-Sivas	O. Sert
	<i>Cynthia cardui</i> (Linnaeus, 1758)	02.VI.2011, Dicle river edge, Mardin 04.VI.2011, Yarmakaya Village surroundings (Pond), Adıyaman 05.VI.2011, Tohma Stream, Malatya	O. Sert
	<i>Melitaea didyma</i> (Esper, 1779)	05.VI.2011, Sürgü stream, Malatya	O. Sert
	<i>Melitaea phoebe</i> Oberthür, 1876	05.VI.2011, Topbük stream, Malatya	O. Sert
	<i>Melitaea perseia</i> Kollar, (1850)	04.VI.2011, Büyük Ördek Village, Şanlıurfa	O. Sert
	<i>Vanessa atalanta</i> (Linnaeus, 1758)	05.VI.2011, Topbük stream, Malatya	O. Sert
	<i>Vanessa cardui</i> (Linnaeus, 1758)	02.VI.2011, Silopi, Şırnak 03.VI.2011, Yeşilalan Village, Mardin 04.VI.2011, Şeyh Zeliha Hill, Şanlıurfa 04.VI.2011, Büyük Ördek Village, Şanlıurfa 05.VI.2011, Reşadiye, Malatya 06.VI.2011, South of Kangal, Sivas	O. Sert
Papilionidae	<i>Allancastris cerisyi</i> Godart, 1822	05.VI.2011, Reşadiye, Malatya	O. Sert
Pieridae	<i>Aporia crataegi</i> Linnaeus, 1758	05.VI.2011, Sürgü stream, Malatya	O. Sert
	<i>Colias crocea</i> , Fourcroy, 1785	05.VI.2011, Sürgü stream, Malatya 05.VI.2011, Topbük stream, Malatya	O. Sert
	<i>Pieris rapae</i> (Linnaeus, 1758)	02.VI.2011, Botaş pump station surroundings, Şırnak-Mardin 03.VI.2011, Yeşilalan Village, Mardin 05.VI.2011, Sürgü stream, Malatya 05.VI.2011, Topbük stream, Malatya 06.VI.2011, Karakuz Village, Malatya-Sivas 06.VI.2011, Yukarı Ada Village-Sivas 06.VI.2011, Karagömlek Village, Sivas	O. Sert

**Table 1.** List of the determined species in this study. Herein, given is the list of 299 taxa belonging to 69 families (Continue).

	<i>Pontia edusa</i> (Fabricius, 1777)	04.VI.2011, Fırat Pass, Şanlıurfa 04.VI.2011, Yarmakaya Village surroundings (Pond), Adıyaman 05.VI.2011, Sürgü stream, Malatya	O. Sert
Plusiidae	<i>Plusia gamma</i> (Linnaeus, 1758)	02.VI.2011, Dicle river edge, Mardin 04.VI.2011, Fırat Pass, Şanlıurfa	O. Sert
Pyralidae	<i>Synaphe moldavica</i> (Esper, 1794)	02.VI.2011, Silopi, Şırnak 06.VI.2011, Karakuz Village, Malatya-Sivas	O. Sert
Satyridae	<i>Hyponephele lycaon</i> (Rottemburg, 1775)	04.VI.2011, Yarmakaya Village surroundings (Pond), Adıyaman	O. Sert
	<i>Maniola telmessia</i> (Zeller, 1847)	04.VI.2011, Yarmakaya Village surroundings (Pond), Adıyaman 05.VI.2011, Tohma Stream, Malatya	O. Sert
	<i>Melanargia grumi</i> Standfuss, 1892	02.VI.2011, Botaş pump station surroundings, Şırnak-Mardin 03.VI.2011, Yeşilalan Village, Mardin 06.VI.2011, Karakuz Village, Malatya-Sivas	O. Sert
	<i>Pseudochazara anthelea</i> (Hubner, 1824)	04.VI.2011, Yarmakaya Village surroundings (Pond), Adıyaman 05.VI.2011, Tohma Stream, Malatya	O. Sert
	<i>Pseudochazara telephassa</i> (Geyer, 1827)	02.VI.2011, Botaş pump station surroundings, Şırnak-Mardin	O. Sert
Sphingidae	<i>Macroglossum stellatarum</i> (Linnaeus, 1758)	05.VI.2011, Sürgü stream, Malatya	O. Sert
Tortricidae	<i>Tortrix viridana</i> (Linnaeus, 1758)	04.VI.2011, Büyük Ördek Village, Şanlıurfa	O. Sert



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