

A Study on Determination of Insect Fauna of Başkomutan Historical National Park (Afyonkarahisar, Turkey)

Başkomutan Tarihi Milli Parkı'nın (Afyonkarahisar, Türkiye) Böcek Faunasının Belirlenmesi Üzerine Bir Çalışma

Research Article

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ABSTRACT

Başkomutan Historical National Park, settled in Afyonkarahisar province, is composed of two sections; Kocatepe and Dumlupınar. Each section have both steppe and forest vegetations. In the studies for the determination of insect fauna in Başkomutan Historical National Park, 314 species that belong to 67 families and 9 orders have been determined. Based on the observations and data, 10 important sites have been determined as they need to be protected against human intervention.

Key Words

Başkomutan Tarihi Milli Parkı, Insect, Fauna, Turkey

ÖZET

Başkomutan Tarihi Milli Parkı, Afyonkarahisar ili sınırları içerisinde bulunmakta olup, Kocatepe ve Dumlupınar olmak üzere iki kısımdan oluşmaktadır. Her iki kısım da, hem step hem de orman vejetasyonuna sahiptir. Başkomutan Tarihi Milli Parkı'nın böcek faunasının belirlenmesi için yapılan çalışmalarda 9 takım ve 67 familyaya bağlı 314 tür tespit edilmiştir. Gözlemler ve elde edilen verilere dayanılarak, insan müdahalesine karşı korunması gereken önemli 10 alan tespit edilmiştir.

Anahtar Sözcükler

Başkomutan Historical National Park, Insect, Fauna, Turkey

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INTRODUCTION

Başkomutan Historical National Park (B.H.N.P.), settled in Afyonkarahisar province, is composed of two sections; Kocatepe and Dumlupınar. Each section have both steppe and forest vegetations. National park is approximately 1000 m. in elevation, while Dumlupınar pond is 1315 m. and Kocatepe is 1874 m. In the studies for the determination of insect fauna in Başkomutan Historical National Park, 314 species that belong to 67 families and 9 orders have been determined. There is no previous work encountered related to the insect fauna of the study field. However, Lodos et. al. [1], which also includes insects collected from Başkomutan Historical National Park in their study, included in the insect faunistic list.

MATERIAL AND METHOD

Insect samples were collected during April-October 2004, using insect net and light trap. The samples were processed with standard methods and put in to collection. The species which were collected by Lodos et. al. [1] from National park and its surroundings are given in the species list with 'Lit' abbreviation. For the identifications, Lodos [2,3,4], Pehlivan [5], Southwood & Leston [6] and Whalley & Lewington [7] was used. Each group of these samples were identified by the specialists. The names of the specialists and the groups they identified are as follows: Coccinellidae (Coleoptera) by Nedim Uygun and Derya Şenal, Diptera by Abdullah Hasbenli, Bruchidae (Coleoptera) by Y. Orhan Mergen, Cerambycidae and Chrysomelidae (Coleoptera) by Hüseyin Özdikmen and Semra Turgut, Lepidoptera by Selma Seven Çalışkan, Apoidea (Hymenoptera) by A. Murat Aytekin, Megachilidae (Hymenoptera) by Yasemin Güler, Halictidae (Hymenoptera) by Fatih Dikmen, Orthoptera by Hasan Sevgili, Odonata by Esra Ada, Elateridae (Coleoptera) by Mahmut Kabalak, Carabidae (Coleoptera) by Neslihan Kocatepe, Formicidae (Hymenoptera) by E. Elif Aydın and Homoptera by Emine Demir. Entomological collection of Ankara Directorate of Plant Protection Center Research Institute and the comparison material prepared from personal Hemiptera collection (identified by Prof. Dr. Feyzi Önder) of Selim S. Çağlar were also used

in identification of some groups. The identified species and the species which could be obtained from present literature are given as a faunistic list in Table 1. It is confirmed that the species which are labelled as "Kocatepe" are certainly found in the studied area. There is an uncertain situation for the species which are labelled "Afyonkarahisar-Center" and they are included in the list considering the possible presence of the species in the studied area.

RESULTS AND DISCUSSION

In the studies for the determination of insect fauna in Başkomutan Historical National Park, 314 species that belong to 67 families and 9 orders have been determined. The taxonomic conditions and ordo levels have been presented in Table 1.

According to the observations and examined material, the insect fauna reached the highest number of species and specimens in June and July and started to decrease in following months. This decrease became remarkable in September. In October very few number of specimens were found. According to data and the observations, the following sites are determined as important sites considering food chain and Red List-IUCN [8], Boztepe hillside, Derindere surroundings, Eğdemir village cemetery surroundings, Erkmén river, Gökgöz plateau surroundings, Hacetepe hillsides and pond, Hamurköy surroundings, pond between Kocatepe-Ketendere junction, Kurt Kayası locality and Zafertepe Çalköy great pond surroundings. These mentioned important sites need to be protected against human intervention.

Alongside of the important sites, species like *Zerynthia cerisyi* should be protected by conserving the distributed areas. Furthermore, red lists should be made for our country as soon as possible. Species which are not listed as endangered in other geographical regions, could be in this position in our country. Species like *Zerynthia cerisyi* and *Archon apollinus* are monophagous and feed on plants growing on following lands. As indicated in Hesselbarth et. al. [9], burning of these fields will destroy these plants and could cause the extinction of mentioned species. In a personal communication, Lepidoptera specialist Assoc. Prof. Dr. Selma Seven

Çalışkan (Gazi University, Faculty of Sciences, Department of Biology) stated that, according to her observations, species belonging to the genus *Zygaena* (Zygaenidae: Lepidoptera) are found in non-devastated sites. The sites where species of this genus distribute, need particular attention because they are considered to be maintained in their natural state. As a result, narrow spaces (50 cm) should be maintained in the crop fields where wild plant could grow. The survival of insects, as part of natural habitat, could be established around these spaces and eventually, this means making contributions to the protection of our biological richness and the maintenance of food chain in study area.

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Table 1. List of the Insect Species on Başkomutan Historical National Park. Herein, given is the list of 314 insect species belonging to 67 families and 9 orders which could be identified and obtained from literature.

	Collecting Area	UTM	Collector
Ordo: ODONATA			
Family: Aeshnidae			
<i>Anax imperator</i> Leach, 1815	12.VI.2004 Zafertepe Çalköy Pond, 13.VI.2004 Kocatepe Ketendere junction, B.H.N.P. Afyonkarahisar	36 S 0244509 UTM 4311777; 36 S 0280350 UTM 4284057	O. Sert
Family: Calopterygidae			
<i>Calopteryx splendens</i> (Harris, 1782)	13.VI.2004 Kocatepe Ketendere junction, B.H.N.P. Afyonkarahisar	36 S 0280350 UTM 4284057	O. Sert
Family: Lestidae			
<i>Lestes barbarus</i> (Fabricius, 1798)	05.VIII.2004 Haccetepe hillside, great pond, Çukurendere surroundings, B.H.N.P. Afyonkarahisar	36 S 0278852 UTM 4285687	O. Sert
Family: Libellulidae			
<i>Libellula depressa</i> L., 1758	13.VI.2004 Kocatepe Ketendere junction, B.H.N.P. Afyonkarahisar	36 S 0280350 UTM 4284057	O. Sert
<i>Orthetrum brunneum</i> (Fonscolombe, 1837)	13.VI.2004 Kocatepe Ketendere junction, B.H.N.P. Afyonkarahisar	36 S 0280350 UTM 4284057	O. Sert
<i>Sympetrum fonscolombii</i> (Selys, 1840)	28.VIII.2004 Zafertepe Çalköy Pond, B.H.N.P. Afyonkarahisar	36 S 0244509 UTM 4311777	O. Sert
<i>Sympetrum striolatum</i> (Charpentier, 1840)	13.VI.2004 Kocatepe Ketendere junction, B.H.N.P. Afyonkarahisar	36 S 0280350 UTM 4284057	O. Sert
Orda: ORTHOPTERA			
Family: Acrididae			
<i>Acrotylus</i> sp.	27.IX.2004 Selkisaray, B.H.N.P. Afyonkarahisar	36 S 0248284 UTM 4307824	O. Sert
<i>Oedipoda aurea</i> Uvarov, 1923	27.IX.2004 Zafertepe Çalköy Pond, B.H.N.P. Afyonkarahisar	36 S 0247163 UTM 4313207	O. Sert
<i>Oedipoda caerulescens</i> (L., 1758)	27.IX.2004 Zafertepe Çalköy Pond, B.H.N.P. Afyonkarahisar	36 S 0247163 UTM 4313207	O. Sert
<i>Oedipoda miniata</i> (Pallas, 1771)	04.IX.2004 Karakaya hillside, B.H.N.P. Afyonkarahisar	35 S 0753143 UTM 4310260	O. Sert
Family: Gryllidae			
<i>Oecanthus pellucens</i> (Scopoli, 1763)	05.VIII.2004 Kocatepe Ketendere junction, B.H.N.P. Afyonkarahisar	36 S 0280350 UTM 4284057	O. Sert
<i>Gryllus campestris</i> L., 1758	18.IV.2004 Karılızad Locality, B.H.N.P. Afyonkarahisar	36 S 0249727 UTM 4312559	O. Sert
Family: Pamphagidae			
<i>Glyphomethis</i> sp.	13.VI.2004 Boztepe hillside, B.H.N.P. Afyonkarahisar	36 S 0285426 UTM 4289147	O. Sert
Family: Tetrigidae			
<i>Depressotetrix depressa</i> (Brisout, 1848)	17.IV.2004 Selkisaray, B.H.N.P. Afyonkarahisar	36 S 0248072 UTM 4308018	O. Sert
Family: Tettigonidae			
<i>Conocephalus fuscus</i> (Fabricius, 1793)	05.VIII.2004 Kocatepe Ketendere junction, B.H.N.P. Afyonkarahisar	36 S 0280350 UTM 4284057	O. Sert
<i>Platycleis intermedia</i> (Serville, 1839)	17.VII.2004 Gökdağ hillside, B.H.N.P. Afyonkarahisar	35 S 0753096 UTM 4310341	O. Sert
<i>Poecilimon</i> sp.	06.VIII.2004 Büyük Aslıhanlar, B.H.N.P. Afyonkarahisar	36 S 0240776 UTM 4310408	O. Sert
<i>Tylopsis lilifolia</i> (Fabricius, 1793)	05.VIII.2004 Kocatepe Ketendere junction, B.H.N.P. Afyonkarahisar	36 S 0280350 UTM 4284057	O. Sert

Orda: HEMIPTERA

Family: Coreidae

<i>Coreus marginatus</i> (L., 1758)	22.V.2004 İtburnu plateau Fountain beginning, B.H.N.P. Afyonkarahisar	36 S 0281427 UTM 4284408	O. Sert
<i>Corizus hyoscyami</i> (L., 1758)	17.IV.2004 Derindere, B.H.N.P. Afyonkarahisar	36 S 0276595 UTM 4285171	O. Sert
<i>Phyllomorpha laciniata</i> (Villers, 1789)	17.IV.2004 Hamurköy exit, B.H.N.P. Afyonkarahisar	36 S 0249727 UTM 4312559	O. Sert
<i>Syromastus rhombeus</i> (L., 1767)	04.IX.2004 Sarisu River surroundings, B.H.N.P.	35 S 0753843 UTM 4310088	O. Sert

Family: Lygaeidae

<i>Artheneis balcanica</i> (Kormilev, 1938)	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Leptodemus minutus</i> (Jakovlev, 1874)	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Lygaeus equestris</i> (L., 1758)	17.IV.2004 Derindere, 23.V.2004 Eğdemir village cemetery surroundings,	36 S 0276595 UTM 4285171; 36 S 0242088 UTM 4317048;	O. Sert
	05.VIII.2004 Bacaktepe hillside, B.H.N.P. Afyonkarahisar,	36 S 0278224 UTM 4283925	
	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Macroplox fasciata</i> (Herrich-Schäffer, 1835)	Afyonkarahisar-Center (Kocatepe)	-	Lodos et. al. (1978), "Lit"
<i>Melanocoryphus albomaculatus</i> (Goeze, 1778)	04.VI.2004 Erkmen River, B.H.N.P. Afyonkarahisar	36 S 0281680 UTM 4291633	O. Sert
<i>Metopoplax origani</i> (Kolenati, 1845)	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Microplax albofasciata</i> (A. Costa, 1847)	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
	23.V.2004 Eğdemir village cemetery surroundings,	36 S 0242088 UTM 4317048;	O. Sert
<i>Geocoris (Piocoris) erythrocephalus</i> (Lepeletier & Serville, 1825)	05.VIII.2004 Derindere, B.H.N.P. Afyonkarahisar	36 S 0276595 UTM 4285171	
	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Rhyparochromus consors</i> (Horvath, 1878)	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Rhyparochromus vulgaris</i> (Schilling, 1829)	09.X.2004 Beyçeşmesi surroundings, B.H.N.P. Afyonkarahisar,	35 S 0756133 UTM 4307552	O. Sert
	17.IV.2004 Derindere,	36 S 0276595 UTM 4285171	O. Sert
<i>Spilostethus pandurus</i> (Scopoli, 1763)	23.V.2004 B.H.N.P. Afyonkarahisar		
	Afyonkarahisar-Center (Kocatepe)	-	Lodos et. al. (1978), "Lit"
	23.V.2004 Eğdemir village cemetery surroundings,	36 S 0242088 UTM 4317048;	
<i>Spilostethus saxatilis</i> (Scopoli, 1763)	05.VIII.2004 Gölcük Pond,	36 S 0278852 UTM 4285687;	O. Sert
	28.VIII.2004 Erkmen River, B.H.N.P. Afyonkarahisar	36 S 0281719 UTM 4291870	

Family: Miridae

<i>Deraeocoris serenus</i> Douglas & Scott, 1868	Afyonkarahisar-Center (Kocatepe)	-	Lodos et. al. (1978), "Lit"
<i>Deraeocoris trifasciatus</i> (L., 1767)	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Brachycoleus lineellus</i> Jakovlev, 1884	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Brachycoleus steini</i> Reuter, 1877	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Calocoris roseomaculatus angularis</i> (Fieber, 1864)	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Camponotidea fieberi</i> Reuter, 1879	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Capsodes cingulatus</i> (Fabricius, 1787)	Afyonkarahisar-Center (Kocatepe)	-	Lodos et. al. (1978), "Lit"
<i>Lygus rugulipennis</i> Poppius, 1911	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Polymerus vulneratus</i> (Panzer, 1806)	Afyonkarahisar-Center (Kocatepe)	-	Lodos et. al. (1978), "Lit"
<i>Dimorphocoris debilis</i> (Reuter, 1880)	Afyonkarahisar-Center (Kocatepe)	-	Lodos et. al. (1978), "Lit"
<i>Dimorphocoris distylus</i> Seidenstücker, 1964	Afyonkarahisar-Center (Kocatepe)	-	Lodos et. al. (1978), "Lit"
<i>Globiceps horvathi</i> Reuter, 1912	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Orthocephalus bivittatus</i> Fieber, 1864	Afyonkarahisar-Center (Kocatepe)	-	Lodos et. al. (1978), "Lit"
<i>Orthocephalus saltator</i> (Hahn, 1835)	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Orthotylus marginalis</i> Reuter, 1884	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Amblytylus concolor</i> Jakovlev, 1877	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Amblytylus nasutus</i> (Kirschbaum, 1856)	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Atractotomus mali</i> (Meyer-Dür, 1843)	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Conostethus roseus</i> (Fallén, 1807)	Afyonkarahisar-Center (Kocatepe)	-	Lodos et. al. (1978), "Lit"
<i>Plagiognathus bipunctatus</i> Reuter, 1883	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
Family: Naucoridae			
<i>Ilyocoris</i> sp.	09.IV.2004 Gölcük Pond, B.H.N.P. Afyonkarahisar	36 S 0278852 UTM 4285687	O. Sert
Family: Nepidae			
<i>Nepa</i> sp.	22.V.2004 Kedilik locality, B.H.N.P. Afyonkarahisar	36 S 0274380 UTM 4284832	O. Sert
Family: Notonectidae			
<i>Notonecta</i> sp.	09.V.2004 Kocatepe Ketendere junction, B.H.N.P. Afyonkarahisar	36 S 280299 UTM 4283746	O. Sert
Family: Pentatomidae			

<i>Aelia acuminata</i> (L., 1758)	27.IX.2004 Zafertepe Çalköy Pond, B.H.N.P. Afyonkarahisar-Center	36 S 0247163 UTM 4313207 -	O. Sert Lodos et. al. (1978), "Lit"
<i>Aelia virgata</i> (Herrich-Schaeffer, 1841)	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Codophila lunulata</i> (Goeze, 1778)	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Dolycoris baccarum</i> (L., 1758)	05.VIII.2004 Gölcük Pond, B.H.N.P. Afyonkarahisar Afyonkarahisar-Center	36 S 0278852 UTM 4285687 -	O. Sert Lodos et. al. (1978), "Lit"
<i>Dyrodere umbraculatus</i> (Fabricius, 1775)	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Eurydema blandum</i> Horvath, 1903	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Eurydema oleraceum</i> (L., 1758)	28.VIII.2004 Erkmen River, B.H.N.P. Afyonkarahisar Afyonkarahisar-Center	36 S 0281719 UTM 4291870 -	O. Sert Lodos et. al. (1978), "Lit"
<i>Eurydema ornatum</i> (L., 1758)	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Eurydema ventrale</i> Kolenati, 1846	04.VI.2004 Erkmen River, B.H.N.P. Afyonkarahisar	36 S 0281680 UTM 4291633	O. Sert
<i>Eurygaster maura</i> (L., 1758)	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Graphosoma lineatum</i> (L., 1758)	22.V.2004 Derindere, 04.VI.2004 Erkmen River, 28.VIII.2004 Erkmen River, B.H.N.P. Afyonkarahisar	36 S 0276595 UTM 4285171; 36 S 0281680 UTM 4291633; 36 S 0281719 UTM 4291870	O. Sert
<i>Peribalus strictus vernalis</i> (Wolff, 1804)	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Piezodorus lituratus</i> (Fabricius, 1794)	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Rhaphigaster nebulosa</i> (Poda, 1761)	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Rhombocoris regularis</i> (Herrich-Schäffer, 1851)	Afyonkarahisar-Center (Kocatepe)	-	Lodos et. al. (1978), "Lit"
<i>Ventocoris trigonus</i> (Krynicky, 1871)	Afyonkarahisar-Center (Kocatepe)	-	Lodos et. al. (1978), "Lit"
Family: Pyrrhocoridae			
<i>Pyrrhocoris apterus</i> (L., 1758)	23.V.2004 Selkisaray, 28.VIII.2004 Erkmen River, B.H.N.P. Afyonkarahisar	36 S 0248317 UTM 4308000; 36 S 0281719 UTM 4291870	O. Sert
Family: Reduvidae			
<i>Pirates</i> sp.	18.IV.2004 Karlıazad Locality, B.H.N.P. Afyonkarahisar	36 S 0249727 UTM 4312559	O. Sert
<i>Prostemma guttula</i> (Fabricius, 1787)	04.VI.2004 Erkmen River, B.H.N.P. Afyonkarahisar	36 S 0281719 UTM 4291870	O. Sert
Family: Stenocephalidae			
<i>Dicranocephalus agilis</i> (Scopoli, 1763)	04.VI.2004 Erkmen River, B.H.N.P. Afyonkarahisar	36 S 0281680 UTM 4291633	O. Sert

Orda: HOMOPTERA			
Family: Cercopidae			
<i>Cercopis intermedia</i> (Kirschbaum, 1868)	22.V.2004 Halıkaya Locality, 22.V.2004 Gökgöz Plateau surroundings, B.H.N.P. Afyonkarahisar	36 S 0283061 UTM 4285324; 36 S 0284231 UTM 4287497	O. Sert
<i>Lepyronia coleoptrata</i> (L., 1758)	06.VIII.2004 Karapınar, 06.VIII.2004 Büyük Aslıhanlar, B.H.N.P. Afyonkarahisar	35 S 0760081 UTM 4311513; 36 S 0240776 UTM 4310408	O. Sert
<i>Philaenus spumarius</i> (L., 1758)	17.VII.2004 Great Pond Debreli ridge, 04.IX.2004 Karakaya Hill Sarısu River surroundings, B.H.N.P.	36 S 0278984 UTM 4285562; 35 S 0753843 UTM 4310088	O. Sert
<i>Psammotettix</i> sp.	04.IX.2004 Karakaya Hill Sarısu River surroundings, B.H.N.P.	35 S 0753843 UTM 4310088	O. Sert
Family: Cicadellidae			
<i>Handianus procerus</i> (Herrich-Schäffer, 1835)	06.VIII.2004 Büyük Aslıhanlar, B.H.N.P. Afyonkarahisar	36 S 0240776 UTM 4310408	O. Sert
<i>Neophilaenus albipennis</i> (Fabricius, 1758)	04.IX.2004 Karakaya Hill Sarısu River surroundings, B.H.N.P.	35 S 0753843 UTM 4310088	O. Sert
<i>Tettigometra eremi</i> Lindberg, 1948	23.V.2004 Eğdemir village cemetery surroundings, B.H.N.P. Afyonkarahisar	36 S 0242088 UTM 4317048	O. Sert
Family: Dictyopharidae			
<i>Dictyophara europaea</i> (L., 1767)	04.VI.2004 Erkmén Vadisi, B.H.N.P. Afyonkarahisar	36 S 0281771 UTM 4291643	O. Sert
Family: Cixiidae			
<i>Kervillea</i> sp.	23.V.2004 Eğdemir village cemetery surroundings, B.H.N.P. Afyonkarahisar	36 S 0242088 UTM 4317048	O. Sert
Orda: NEUROPTERA			
Family: Chrysopidae			
<i>Chrysoperla carnea</i> (Stephens, 1836)	06.VIII.2004 Karapınar, 04.IX.2004 Akpınar, B.H.N.P. Afyonkarahisar	35 S 0760081 UTM 4311513; 35 S 0755456 UTM 4310185	O. Sert
Orda: COLEOPTERA			
AltOrda: Adephaga			
Family: Carabidae			
<i>Acinopus picipes</i> (Olivier, 1795)	23.V.2004 Eğdemir village cemetery surroundings, B.H.N.P. Afyonkarahisar	36 S 0242088 UTM 4317048	O. Sert
<i>Amara saginata</i> Ménétries, 1847	09.V.2004 Gökgöz Plateau, B.H.N.P. Afyonkarahisar	36 S 0265008 UTM 4284440	O. Sert
<i>Brachinus</i> sp.	17.IV.2004 Selkisaray, B.H.N.P. Afyonkarahisar	36 S 0250403 UTM 4311396	O. Sert
<i>Brachinus sclopeta</i> (Fabricius, 1792)	17.IV.2004 Derindere, B.H.N.P. Afyonkarahisar	36 S 0276595 UTM 4285171	O. Sert
<i>Brachinus incertus</i> Brulle, 1834	18.IV.2004 Toktok Hill surroundings, B.H.N.P. Afyonkarahisar	36 S 0265368 UTM 4285481	O. Sert
<i>Calathus ambiguus</i> (Paykull, 1790)	18.IV.2004 Karılızad Locality, B.H.N.P. Afyonkarahisar	36 S 0249727 UTM 4312559	O. Sert
<i>Calathus fuscipes</i> Goeze, 1777	17.IV.2004 Selkisaray, 18.IV.2004 Karılızad Locality, B.H.N.P. Afyonkarahisar	36 S 0250403 UTM 4311396; 36 S 0249727 UTM 4312559	O. Sert
<i>Calathus melanocephalus</i> (L., 1758)	17.IV.2004 Selkisaray, B.H.N.P. Afyonkarahisar	36 S 0250403 UTM 4311396	O. Sert
<i>Carabus convexus</i> Fabricius, 1775	18.IV.2004 Toktok Hill surroundings, B.H.N.P. Afyonkarahisar	36 S 0265368 UTM 4285481	O. Sert
<i>Carabus graecus</i> Dejean, 1826	17.IV.2004 Selkisaray, 18.IV.2004 Hamurköy exit, B.H.N.P. Afyonkarahisar	36 S 0250403 UTM 4311396; 36 S 0249760 UTM 4312735	O. Sert

<i>Lamprias cyanocephalus</i> (L., 1758)	17.VII.2004 Derindere, B.H.N.P. Afyonkarahisar	36 S 0276595 UTM 4285171	O. Sert
	17.IV.2004 Beşparmak hill,	36 S 0274690 UTM 4321713;	
	17.IV.2004 Büyük Kalecik ridge,	-	
<i>Cicindela campestris</i> L., 1758	17.IV.2004 Derindere,	36 S 0276498 UTM 4285208;	O. Sert
	17.IV.2004 Kocatepe hillside,	36 S 0280051 UTM 4281851;	
	18.IV.2004 Gölcük Pond, B.H.N.P. Afyonkarahisar	36 S 0243094 UTM 4310588;	
<i>Cicindela</i> sp.	17.IV.2004 Derindere, B.H.N.P. Afyonkarahisar	36 S 0276498 UTM 4285208	O. Sert
<i>Lebia cruxminor</i> (L., 1758)	17.VII.2004 Derindere, B.H.N.P. Afyonkarahisar	36 S 0276595 UTM 4285171	O. Sert
<i>Ophonus azureus</i> (Fabricius, 1775)	17.IV.2004 Selkisaray, B.H.N.P. Afyonkarahisar	36 S 0250403 UTM 4311396	O. Sert
<i>Pachycarus atrocoeruleus</i> (Waltl, 1838)	18.IV.2004 Karılızad Locality, B.H.N.P. Afyonkarahisar	36 S 0249727 UTM 4312559	O. Sert
<i>Pachycarus</i> sp.	18.IV.2004 Hamurköy exit, B.H.N.P. Afyonkarahisar	36 S 0249760 UTM 4312735	O. Sert
<i>Poecilus cursorius</i> (Dejean, 1828)	18.IV.2004 Karılızad Locality, B.H.N.P. Afyonkarahisar	36 S 0249727 UTM 4312559	O. Sert
<i>Poecilus</i> sp.	18.IV.2004 Kocatepe Ketendere junction, B.H.N.P. Afyonkarahisar	36 S 0280350 UTM 4284057	O. Sert
<i>Scybalicus oblongiusculus</i> (Dejean, 1824)	17.IV.2004 Selkisaray, B.H.N.P. Afyonkarahisar	36 S 0250403 UTM 4311396	O. Sert
<i>Zabrus</i> sp.	17.IV.2004 Gölcük Pond, B.H.N.P. Afyonkarahisar	36 S 0278788 UTM 4285447	O. Sert
Family: Dyticidae			
<i>Dytiscus</i> sp.	09.V.2004 Kocatepe-Ketendere junction, B.H.N.P. Afyonkarahisar	36 S 0280350 UTM 4284057	O. Sert
Family: Gyrinidae			
<i>Gyrinus</i> sp.	09.V.2004 Kocatepe-Ketendere junction, B.H.N.P. Afyonkarahisar	36 S 0280350 UTM 4284057	O. Sert
AltOrda: Polyphaga			
Family: Apionidae			
<i>Ceratapion carduorum</i> (W. Kirby, 1808)	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Apion haematodes</i> Kirby, 1808	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Cyanapion gyllenhalii</i> (W. Kirby, 1808)	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Rhopalapion longirostre</i> (Olivier, 1807)	22.V.2004 Boztepe Road side, B.H.N.P. Afyonkarahisar	36 S 0761605 UTM 4248006	O. Sert
	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Apion frumentarium</i> (L., 1758)	23.V.2004 Selkisaray exit, B.H.N.P. Afyonkarahisar	36 S 0248323 UTM 4307886	O. Sert
	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Holotrichapion pisi</i> (Fabricius, 1801)	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Stenopteropion tenue</i> (W. Kirby, 1808)	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
Family: Attelabidae			

<i>Tatianaerhynchites aequatus</i> (L., 1767)	22.V.2004 Halıkaya Locality, B.H.N.P. Afyonkarahisar	36 S 0283061 UTM 4285324	O. Sert
<i>Mecorhis ungarica</i> (Herbst, 1784)	23.V.2004 Zafertepe Çalköy Pond, 04.VI.2004 Erkmén River, B.H.N.P. Afyonkarahisar	36 S 0244509 UTM 4311777; 36 S 0281771 UTM 4291643	O. Sert
Family: Bostrichidae			
<i>Bostrichus capucinus</i> (L., 1758)	23.V.2004 Zafertepe Çalköy Pond, B.H.N.P. Afyonkarahisar	36 S 0244509 UTM 4311777	O. Sert
Family: Bruchidae			
<i>Bruchidius holosericeus</i> (Gyllenhal, 1833)	13.VI.2004 Boztepe hillside, B.H.N.P. Afyonkarahisar	36 S 0761605 UTM 4248006	O. Sert
<i>Bruchus atomarius</i> (L., 1761)	23.V.2004 Beyçeşmesi surroundings, B.H.N.P. Afyonkarahisar	35 S 0248323 UTM 4307886	O. Sert
<i>Bruchus emarginatus</i> Allard, 1868	12.VI.2004 Beyçeşmesi surroundings, B.H.N.P. Afyonkarahisar	35 S 0248323 UTM 4307886	O. Sert
<i>Bruchus loti</i> Paykull, 1800	23.V.2004 Selkisaray exit, B.H.N.P. Afyonkarahisar	36 S 0249700 UTM 4312492	O. Sert
<i>Bruchus hamatus</i> Miller, 1881	23.V.2004 Beyçeşmesi surroundings, B.H.N.P. Afyonkarahisar,	35 S 0248323 UTM 4307886	O. Sert
<i>Bruchus rufimanus</i> Boheman, 1833	23.V.2004 Hamurköy exit, Çataltepe hillside	36 S 0249700 UTM 4312492; 35 S 0755311 UTM 4310248	O. Sert
<i>Bruchus rufipes</i> Herbst, 1783	12.VI.2004 Beyçeşmesi surroundings, B.H.N.P. Afyonkarahisar	35 S 0248323 UTM 4307886	O. Sert
<i>Bruchus rufipes</i> Herbst, 1783	23.V.2004 Hamurköy exit, B.H.N.P. Afyonkarahisar	36 S 0249700 UTM 4312492	O. Sert
<i>Bruchus viciae</i> Olivier, 1795	22.V.2004 Derindere,	36 S 0276498 UTM 4285208;	O. Sert
<i>Bruchus viciae</i> Olivier, 1795	23.V.2004 Hamurköy exit,	36 S 0249700 UTM 4312492;	O. Sert
<i>Paleoacanthoscelides gilvus</i> (Gyllenhal, 1839)	12.VI.2004 Beyçeşmesi surroundings, B.H.N.P. Afyonkarahisar	35 S 0248323 UTM 4307886	O. Sert
<i>Spermophagus kuesteri</i> Schilsky, 1905	12.VI.2004 Beyçeşmesi surroundings, B.H.N.P. Afyonkarahisar	35 S 0756023 UTM 4307397	O. Sert
<i>Spermophagus sericeus</i> (Geoffroy, 1785)	23.V.2004 Selkisaray exit,	36 S 0249700 UTM 4312492;	O. Sert
<i>Spermophagus sericeus</i> (Geoffroy, 1785)	12.VI.2004 Beyçeşmesi surroundings, B.H.N.P. Afyonkarahisar	35 S 0756023 UTM 4307397	O. Sert
Family: Cantharidae			
<i>Cantharis</i> sp.1	23.V.2004 Hamurköy surroundings, B.H.N.P. Afyonkarahisar	36 S 0248530 UTM 4308406	O. Sert
<i>Cantharis</i> sp.2	17.VII.2004 Derindere, B.H.N.P. Afyonkarahisar	36 S 0276595 UTM 4285171	O. Sert
Family: Cerambycidae			
<i>Agapanthia lateralis</i> Ganglbauer, 1884	12.VI.2004 Selkisaray, B.H.N.P. Afyonkarahisar	36 S 0248317 UTM 4308000	O. Sert
<i>Agapanthia villosoviridescens</i> (DeGeer, 1775)	04.VI.2004 Erkmén River, B.H.N.P. Afyonkarahisar	36 S 0281771 UTM 4291643	O. Sert
<i>Agapanthia violacea</i> (Fabricius, 1775)	04.VI.2004 Erkmén River, B.H.N.P. Afyonkarahisar	36 S 0281771 UTM 4291643	O. Sert
<i>Dorcadion dimidiatum</i> Motschulsky, 1838	08.V.2004 Gökgöz plateau, B.H.N.P. Afyonkarahisar	36 S 0265436 UTM 4285690	O. Sert
<i>Dorcadion scabricolle</i> Dalman, 1817	17.IV.2004 Gölcük Pond (Hacettepe hillside), B.H.N.P. Afyonkarahisar	36 S 0278959 UTM 4285383	O. Sert
<i>Dorcadion</i> sp1.	17.IV.2004 Kocatepe Ketendere junction, B.H.N.P. Afyonkarahisar	36 S 0280350 UTM 4284057	O. Sert
<i>Dorcadion</i> sp2.	22.V.2004 Gökgöz Plateau, B.H.N.P. Afyonkarahisar	36 S 0284247 UTM 4287445	O. Sert

<i>Judolia erratica</i> (Dalman, 1817)	13.VI.2004 Boztepe hillside, B.H.N.P. Afyonkarahisar	36 S 0285426 UTM 4289147	O. Sert
<i>Phytoecia hirsutula</i> (Frölich, 1793)	04.VI.2004 Erkmén Vadisi, B.H.N.P. Afyonkarahisar	36 S 0281771 UTM 4291643	O. Sert
<i>Stenurella septempunctata</i> (Fabricius, 1792)	04.IX.2004 Karakaya tepe, Sarısu river, B.H.N.P. Afyonkarahisar	35 S 0753843 UTM 4310088	O. Sert
<i>Vadonia unipunctata</i> (Fabricius, 1787)	04.VI.2004 Erkmén Vadisi, B.H.N.P. Afyonkarahisar	36 S 0281771 UTM 4291643	O. Sert
Family: Chrysomelidae			
<i>Cassida seraphina</i> Ménétries, 1836	17.VII.2004 Derindere, B.H.N.P. Afyonkarahisar	36 S 0276595 UTM 4285171	O. Sert
<i>Chrysomela</i> sp.	23.V.2004 Selkisaray exit, B.H.N.P. Afyonkarahisar	36 S 0248323 UTM 4307886	O. Sert
<i>Galeruca pomonae</i> (Scopoli, 1763)	17.VII.2004 Derindere, B.H.N.P. Afyonkarahisar	36 S 0276595 UTM 4285171	O. Sert
<i>Entomoscelis adonidis</i> (Pallas, 1771)	22.V.2004 Kedilik locality, 23.V.2004 Hamurköy exit, B.H.N.P. Afyonkarahisar	36 S 0274380 UTM 4284832 36 S 0249733 UTM 4312668	O. Sert
<i>Hypocassida subferruginea</i> (Schrank, 1776)	23.V.2004 Zafertepe Çalköy Pond, B.H.N.P. Afyonkarahisar	36 S 0244622 UTM 4311669	O. Sert
<i>Labidostomis</i> sp1.	23.V.2004 Hamurköy surroundings, B.H.N.P. Afyonkarahisar	36 S 0248530 UTM 4308406	O. Sert
<i>Labidostomis</i> sp2.	12.VI.2004 Beyçeşmesi surroundings, B.H.N.P. Afyonkarahisar.	35 S 0756133 UTM 4307552	O. Sert
<i>Leptinotarsa decemlineata</i> (Say, 1824)	17.IV.2004 Gölcük Pond (Hacettepe hillside), B.H.N.P. Afyonkarahisar	36 S 0278959 UTM 4285383	O. Sert
<i>Pachybrachys</i> sp.	23.V.2004 Selkisaray exit, B.H.N.P. Afyonkarahisar	36 S 0248323 UTM 4307886	O. Sert
<i>Smaragdina</i> sp.	23.V.2004 Zafertepe Çalköy Pond, B.H.N.P. Afyonkarahisar	36 S 0244622 UTM 4311669	O. Sert
Family: Coccinellidae			
<i>Hippodamia (Semiadalia) undecimnotata</i> (Schneider, 1792)	17.IV.2004 Kocatepe, B.H.N.P. Afyonkarahisar	36 S 0279735 UTM 4281537	O. Sert
<i>Coccinella septempunctata</i> (L., 1758)	17.IV.2004 Beşparmak Hill/ Kocatepe, B.H.N.P. Afyonkarahisar	36 S 0274690 UTM 4321713	O. Sert
<i>Hippodamia (Adonia) variegata</i> (Goeze, 1777)	17.VII.2004 Great Pond Debrelı ridge Kocatepe, B.H.N.P. Afyonkarahisar	36 S 0278984 UTM 4285562	O. Sert
<i>Coccinula quatuordecimpustulata</i> (L., 1758)	12.VI.2004 Beyçeşmesi surroundings, 06.VIII.2004 Karapınar, B.H.N.P. Afyonkarahisar	35 S 0756133 UTM 4307552; 35 S 0760081 UTM 4311513	O. Sert
<i>Adalia bipunctata</i> (L., 1758)	22.V.2004 İtburnu Plateau Fountain beginning, B.H.N.P. Afyonkarahisar	36 S 0281427 UTM 4284408	O. Sert
<i>Platynaspis luteorubra</i> (Goeze, 1777)	22.V.2004 Çingıraklı Road Lake side, B.H.N.P. Afyonkarahisar	36 S 0281381 UTM 4284435	O. Sert
<i>Propylea quatuordecimpunctata</i> (L., 1758)	04.VI.2004 Erkmén Vadisi, B.H.N.P. Afyonkarahisar	36 S 0281771 UTM 4291643	O. Sert
<i>Psyllobora vigintiduopunctata</i> (L., 1758)	22.V.2004 Çingıraklı Road Lake side, B.H.N.P. Afyonkarahisar	36 S 0281381 UTM 4284435	O. Sert
<i>Subcoccinella vigintiquatuor punctata</i> (L., 1758)	17.VII.2004 Derindere, B.H.N.P. Afyonkarahisar	36 S 0276595 UTM 4285171	O. Sert
Family: Cleridae			
<i>Trichodes</i> sp.	17.VII.2004 Derindere, B.H.N.P. Afyonkarahisar	36 S 0276595 UTM 4285171	O. Sert

Family: Curculionidae

<i>Anthonomus pomorum</i> (L., 1758)	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Anthonomus</i> sp.	22.V.2004 Gökgöz Plateau, B.H.N.P. Afyonkarahisar	36 S 0284247 UTM 4287445	O. Sert
<i>Bangasternus orientalis</i> (Capiomont, 1873)	12.VI.2004 Zafertepe Çalköy Pond, B.H.N.P. Afyonkarahisar	36 S 0244626 UTM 4311901	O. Sert
<i>Brachyderes incanus</i> (L., 1758)	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Bagous</i> sp.	12.VI.2004 Dumlupınar Pond, B.H.N.P. Afyonkarahisar	35 S 0756133 UTM 4307552	O. Sert
<i>Caulostrophus javeti</i> (Desbrochers, 1871)	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Caulostrophus obsoletehispidus</i> (Lucas, 1854)	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Ceutorhynchus fallax</i> Boheman, 1845	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Ceutorhynchus subpilosus</i> C. Brisout de Barneville, 1869	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Ceutorhynchus sulcicollis</i> (Paykull, 1800)	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Nedyus quadrimaculatus</i> (L., 1758)	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Cleonis pigra</i> (Scopoli, 1763)	17.IV.2004 Derindere, B.H.N.P. Afyonkarahisar	36 S 0276498 UTM 4285208	O. Sert
	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Donus</i> sp.	17.IV.2004 Hamurköy surroundings, B.H.N.P. Afyonkarahisar	36 S 0249727 UTM 4312559	O. Sert
<i>Edmundia claviceps</i> Reitter, 1890	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Eusomus ovulum</i> Germar, 1824	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Glocianus herbsti</i> (Faust, 1895)	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Labiaticola atricolor</i> (Boheman, 1844)	06.VIII.2004 Hasandede hillside, B.H.N.P. Afyonkarahisar	35 S 0753343 UTM 4306399	O. Sert
	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
	17.IV.2004 Derindere,	36 S 0276669 UTM 4285143;	
<i>Rhinusa asellus</i> (Gravenhorst, 1807)	22.V.2004 Kedilik locality, 22.V.2004 Boztepe Road side, B.H.N.P. Afyonkarahisar	36 S 0274380 UTM 4284832; 36 S 0284243 UTM 4288594	O. Sert
	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Rhinusa bipustulata</i> (Rossi, 1792)	12.VI.2004 Zafertepe Çalköy Pond, B.H.N.P. Afyonkarahisar	36 S 0244626 UTM 4311901	O. Sert
<i>Rhinusa smreczynskii</i> (Fremuth, 1972)	Afyonkarahisar-Center (Kocatepe)	-	Lodos et. al. (1978), "Lit"

<i>Rhinusa tetra</i> (Fabricius, 1792)	22.V.2004 Boztepe Road side, 22.V.2004 Kedilik locality, 04.VI.2004 Erkmén River, B.H.N.P., Afyonkarahisar	36 S 0284243 UTM 4288594; 36 S 0274380 UTM 4284832; 36 S 0281813 UTM 4291826	O. Sert
	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Hypera nigrirostris</i> (Fabricius, 1775)	Afyonkarahisar-Center	-	"Lit" Lodos et. al. (1978), "Lit"
<i>Hypera postica</i> (Gyllenhal, 1813)	12.VI.2004 Zafertepe-Çalköy Pond, B.H.N.P. Afyonkarahisar	36 S 0244626 UTM 4311901	O. Sert
<i>Larinus latus</i> (Herbst, 1783)	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Larinus turbinatus</i> Gyllenhal, 1835	05.VIII.2004 Çamtepe hillside, 28.VIII.2004 Erkmén River, B.H.N.P.	36 S 0278852 UTM 4285687; 36 S 0281659 UTM 4291767	O. Sert
	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Liparus</i> sp.	17.IV.2004 Derindere, B.H.N.P. Afyonkarahisar	36 S 0276498 UTM 4285208	O. Sert
<i>Lixus ascanii</i> (L., 1767)	23.V.2004 Eđdemir village cemetery surroundings, B.H.N.P. Afyonkarahisar	36 S 0242088 UTM 4317048	O. Sert
<i>Lixus cardui</i> Olivier, 1807	23.V.2004 Selkisaray, 04.VI.2004 Erkmén River,	36 S 0248317 UTM 4308000; 36 S 0281813 UTM 4291826;	O. Sert
<i>Lixus vilis</i> (Rossi, 1790)	12.VI.2004 Selkisaray -sideway, B.H.N.P. Afyonkarahisar	36 S 0248072 UTM 4308018	O. Sert
<i>Magdalis frontalis</i> (Gyllenhal, 1827)	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Apsis albolineata</i> (Fabricius, 1792)	04.VI.2004 Erkmén River, B.H.N.P. Afyonkarahisar	36 S 0281813 UTM 4291826	O. Sert
<i>Myorrhinus subvittatus</i> Fairmaire, L., 1866	Afyonkarahisar-Center (Kocatepe)	-	Lodos et. al. (1978), "Lit"
<i>Otiorhynchus anatolicus</i> Boheman, C.H. in Schönherr, C.J., 1843	Afyonkarahisar-Center	-	"Lit" Lodos et. al. (1978), "Lit"
<i>Otiorhynchus kaltakkirani</i> Voss, 1936	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Otiorhynchus scopularis</i> Hochhuth, 1847	Afyonkarahisar-Center	-	"Lit" Lodos et. al. (1978), "Lit"
<i>Phyllobius canus</i> Gyllenhal, 1834	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Phyllobius pictus</i> (Steven, 1829)	Afyonkarahisar-Center	-	"Lit" Lodos et. al. (1978), "Lit"
<i>Polydrusus cocciferae</i> Kiesenwetter, 1864	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Polydrusus corruscus</i> Germar, 1824	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Polydrusus ponticus</i> Faust, 1888	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Polydrusus tonsus</i> Desbrochers, 1897	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Rhinoncus pericarpus</i> (L., 1758)	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Sitona macularius</i> (Marsham, 1802)	04.IV.2004 Hamurköy surroundings, B.H.N.P. Afyonkarahisar	36 S 0250610 UTM 4311805	O. Sert

	Afyonkarahisar-Center	-		Lodos et. al. (1978), "Lit"
<i>Sitona cylindricollis</i> Fåhraeus, 1840	Afyonkarahisar-Center	-		Lodos et. al. (1978), "Lit"
<i>Sitona humeralis</i> Stephens, 1831	Afyonkarahisar-Center	-		Lodos et. al. (1978), "Lit"
<i>Sitona lineatus</i> (L., 1758)	Afyonkarahisar-Center	-		Lodos et. al. (1978), "Lit"
<i>Sitona puncticollis</i> Stephens, 1831	Afyonkarahisar-Center	-		Lodos et. al. (1978), "Lit"
<i>Sitona sulcifrons</i> (Thunberg, 1798)	Afyonkarahisar-Center	-		Lodos et. al. (1978), "Lit"
<i>Sitona (Sitona) tibialis</i> (Herbst, 1795)	Afyonkarahisar-Center	-		Lodos et. al. (1978), "Lit"
<i>Tychius meliloti</i> Stephens, 1831	Afyonkarahisar-Center	-		Lodos et. al. (1978), "Lit"
Family: Elateridae				
<i>Ampedus quercicola</i> Buysson, 1887	16.IV.2004 Derindere, B.H.N.P. Afyonkarahisar	36 S 0276628 UTM 4285347		O. Sert
<i>Athous haemorrhoidalis</i> (Fabricius, 1801)	22.V.2004 İtburnu plateau, Kocatepe, B.H.N.P. Afyonkarahisar	36 S 0281319 UTM 4284658		O. Sert
	05.IV.2004 Gölbaşı, Kocatepe, B.H.N.P. Afyonkarahisar	36 S 0281381 UTM 4284435		
Family: Histeridae				
<i>Hister</i> sp.	18.IV.2004 Hamurköy, Gökgöz plateau, B.H.N.P. Afyonkarahisar	09.V.2004 36 S 0250553 UTM 4312360; 36 S 0265008 UTM 4284440		O. Sert
Family: Malacidae				
<i>Malachius bipustulatus</i> (L., 1758)	22.V.2004 İtburnu plateau Fountain beginning,	36 S 0281427 UTM 4284408;		O. Sert
	22.V.2004 Gökgöz plateau surroundings,	36 S 0284231 UTM 4287497;		
	22.V.2004 Çingiraklı Road	36 S 0281381 UTM 4284435;		
	13.VI.2004 Boztepe hillside, B.H.N.P. Afyonkarahisar	36 S 0761605 UTM 4248006		
Family: Meloidae				
<i>Meloe</i> sp.	17.IV.2004 Zafertepe Çalköy Pond, B.H.N.P. Afyonkarahisar	36 S 0247163 UTM 4313207		O. Sert
<i>Meloe proscarabaeus</i> L., 1758	04.IV.2004 Hamurköy surroundings,	36 S 0250610 UTM 4311805;		O. Sert
	22.V.2004 Kedilik locality, B.H.N.P. Afyonkarahisar	36 S 0274392 UTM 4284899		
<i>Meloe variegatus</i> Donovan, 1776	04.IV.2004 Zafertepe Merkez, B.H.N.P. Afyonkarahisar	36 S 0245506 UTM 4313126		O. Sert
<i>Mylabris</i> sp.	04.VI.2004 Erkmén River, B.H.N.P. Afyonkarahisar	36 S 0281771 UTM 4291643		O. Sert
Family: Melyridae				
<i>Enicopus pilosus</i> (Scopoli, 1763)	13.VI.2004 Boztepe hillside, B.H.N.P., Afyonkarahisar	36 S 0761605 UTM 4248006		O. Sert
Family: Scarabaeidae				
AltFamily :Aphodiinae				
<i>Aphodius</i> sp.	18.IV.2004 Zafertepe Çalköy Pond, B.H.N.P. Afyonkarahisar	36 S 0243094 UTM 4310588		O. Sert
AltFamily :Cetoniinae				

<i>Cetonia</i> sp.	17.VII.2004 Derindere, B.H.N.P. Afyonkarahisar	36 S 0276595 UTM 4285171	O. Sert
	12.VI.2004 Zafertepe Çalköy Pond,	36 S 0247163 UTM 4313207;	
	13.VI.2004 Boztepe hillside,	36 S 0761605 UTM 4248006;	O. Sert
<i>Oxythyrea cinctella</i> (Schaum, 1841)	17.VII.2004 Kurt Kayası hillside, B.H.N.P. Afyonkarahisar	36 S 0283331 UTM 4287426	
	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
	16.IV.2004 Kocatepe,	36 S 0279762 UTM 4281589	
	18.IV.2004 Zafertepe Çalköy Pond,	36 S 0247163 UTM 4313207;	
	04.VI.2004 Erkmén River,	36 S 0281813 UTM 4291826;	O. Sert
<i>Tropinota hirta</i> (Poda, 1761)	12.VI.2004 Beyçeşmesi surroundings, B.H.N.P. Afyonkarahisar	35 S 0756133 UTM 4307552	
	Afyonkarahisar-Center(Kocatepe)	-	Lodos et. al. (1978), "Lit"
<i>Valgus hemipterus</i> (L., 1758)	22.V.2004 Kedilik locality, B.H.N.P. Afyonkarahisar	36 S 0274380 UTM 4284832	O. Sert
AltFamily :Glaphyrinae			
<i>Glaphyrus vulpes</i> (Fabricius, 1781)	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
	09.V.2004 Gökgöz Plateau surroundings, 04.VI.2004 Erkmén River, B.H.N.P. Afyonkarahisar	36 S 0265008 UTM 4284440;	O. Sert
		36 S 0281813 UTM 4291826	
AltFamily :Melolonthinae			
<i>Omaloplia labrata</i> Burmeister, 1844	Afyonkarahisar-Center (Kocatepe)	-	Lodos et. al. (1978), "Lit"
<i>Amphimallon</i> sp.	17.VII.2004 Gökdâğ hillside, B.H.N.P. Afyonkarahisar	35 S 0753096 UTM 4310341	O. Sert
AltFamily :Scarabaeinae			
<i>Scarabaeus (Ateuchetus) laticollis</i> L., 1767	Afyonkarahisar-Center (Kocatepe)	-	Lodos et. al. (1978), "Lit"
Family: Silphidae			
<i>Thanatophilus rugosus</i> (L., 1758)	09.V.2004 Gökgöz plateau, B.H.N.P. Afyonkarahisar	36 S 0265008 UTM 4284440	O. Sert
Family: Staphylinidae			
<i>Creophilus maxillosus</i> (L., 1758)	09.V.2004 Gökgöz plateau, B.H.N.P. Afyonkarahisar	36 S 0265008 UTM 4284440	O. Sert
<i>Ontholestes murinus</i> (L., 1758)	09.V.2004 Gökgöz plateau, B.H.N.P. Afyonkarahisar	36 S 0265008 UTM 4284440	O. Sert
Family: Tenebrionidae			
<i>Omophlus</i> sp.	22.V.2004 İtburnu plateau Fountain beginning,	36 S 0281427 UTM 4284408;	
	22.V.2004 Çingiraklı road,	36 S 0281381 UTM 4284435;	O. Sert
	04.VI.2004 Erkmén Vadisi, B.H.N.P. Afyonkarahisar	36 S 0281771 UTM 4291643	
<i>Blaps</i> sp.	17.IV.2004 Zafertepe Çalköy Pond, B.H.N.P. Afyonkarahisar	36 S 0247163 UTM 4313207	O. Sert
	17.VII.2004 Derindere, 17.IV.2004 Beşparmak Hill, 17.IV.2004 Gölcük Pond, 17.VII.2004 Kocatepe,	36 S 0276595 UTM 4285171; 36 S 0274690 UTM 4321713; 36 S 0278484 UTM 4285726;	O. Sert
<i>Opatrum</i> sp.	18.IV.2004 Toktok Hill surroundings, B.H.N.P. Afyonkarahisar	36 S 0279762 UTM 4281589; 36 S 0265368 UTM 4285481	

<i>Pimelia</i> sp.	17.VII.2004 Derindere, 17.VII.2004 Kocatepe, 09.V.2004 Gökğöz plateau, B.H.N.P. Afyonkarahisar	36 S 0276595 UTM 4285171; 36 S 0279762 UTM 4281589; 36 S 0265008 UTM 4284440	O. Sert
<i>Tentyria rotundata</i> (Brullé 1832)	17.VII.2004 Derindere, B.H.N.P. Afyonkarahisar	36 S 0276595 UTM 4285171	O. Sert
Orda: DIPTERA			
Family: Asilidae			
<i>Dasypogon diadema</i> (Fabricius, 1781)	17.VII.2004 Gökdağ hillside, B.H.N.P. Afyonkarahisar	35 S 0753096 UTM 4310341	O. Sert
<i>Machimus arthriticus</i> (Zeller, 1840)	06.VIII.2004 Büyük Aslıhanlar, B.H.N.P. Afyonkarahisar	36 S 0240776 UTM 4310408	O. Sert
Family: Bombyliidae			
<i>Hemipenthes morio</i> (L., 1758)	17.VII.2004 Derindere, B.H.N.P. Afyonkarahisar	36 S 0276595 UTM 4285171	O. Sert
Family: Hippoboscidae			
<i>Hippobosca equina</i> L., 1758	04.IX.2004 Karakaya Hill Sarisu River surroundings, B.H.N.P.	35 S 0753843 UTM 4310088	O. Sert
Family: Syrphidae			
<i>Eristalis tenax</i> (L., 1758)	04.IX.2004 Karakaya Hill Sarisu River surroundings, B.H.N.P.	35 S 0753834 UTM 4310076	O. Sert
<i>Syrirta pipiens</i> (L., 1758)	06.VIII.2004 Karapınar, B.H.N.P. Afyonkarahisar	35 S 0760081 UTM 4311513	O. Sert
<i>Brachypalpoidea lentus</i> (Meigen, 1822)	06.VIII.2004 Hasandede hillside, B.H.N.P. Afyonkarahisar	35 S 0753343 UTM 4306399	O. Sert
Family: Tabanidae			
<i>Tabanus tinctus</i> Walker, 1850	06.VIII.2004 Hasandede hillside, B.H.N.P. Afyonkarahisar	35 S 0753343 UTM 4306399	O. Sert
Orda: HYMENOPTERA			
Family: Anthophoridae			
<i>Anthophora</i> sp. 1	13.VI.2004 Boztepe hillside, B.H.N.P. Afyonkarahisar	36 S 0285445 UTM 4289134	O. Sert
<i>Anthophora</i> sp. 2	22.V.2004 Çingiraklı road Lake side, B.H.N.P. Afyonkarahisar	36 S 0281381 UTM 4284435	O. Sert
<i>Melecta</i> sp.	23.V.2004 Çataltepe hillside, B.H.N.P. Afyonkarahisar	35 S 0755311 UTM 4310248	O. Sert
Family: Apidae			
<i>Bombus (Megabombus) argillaceus</i> (Scopoli, 1763)	23.V.2004 Çataltepe hillside, B.H.N.P. Afyonkarahisar	35 S 0755311 UTM 4310248	O. Sert
<i>Bombus (Subterraneobombus) fragrans</i> (Palas, 1771)	12.VI.2004 1 km. to Hamurköy, B.H.N.P. Afyonkarahisar	36 S 0250610 UTM 4311805	O. Sert
<i>Bombus (Thoracobombus) pascuorum</i> (Scopoli 1763)	23.V.2004 Çataltepe hillside, B.H.N.P. Afyonkarahisar	35 S 0755311 UTM 4310248	O. Sert
<i>Bombus</i> (s.str.) <i>terrestris</i> (L., 1758)	05.VI.2004 Kurt Kayası hillside, B.H.N.P. Afyonkarahisar	36 S 0281449 UTM 4284558	O. Sert
Family: Formicidae			
<i>Cataglyphis cursor</i> (Fonscolombe, 1846)	12.VI.2004 1 km. to Hamurköy, B.H.N.P. Afyonkarahisar	36 S 0250610 UTM 4311805	O. Sert
<i>Formica cinerea</i> Mayr, 1853	17.IV.2004 Derindere, B.H.N.P. Afyonkarahisar	36 S 0276498 UTM 4285208	O. Sert
<i>Lasius fuliginosus</i> (Latreille, 1798)	17.VII.2004 Gökdağ hillside, B.H.N.P. Afyonkarahisar	35 S 0753096 UTM 4310341	O. Sert
<i>Lasius niger</i> (L., 1758)	18.IV.2004 Gölcük Pond, B.H.N.P. Afyonkarahisar	36 S 0243094 UTM 4310588	O. Sert

<i>Messor structor</i> (Latreille, 1798) Family: Halictidae	12.VI.2004 Selkisaray, B.H.N.P. Afyonkarahisar	36 S 0248072 UTM 4308018	O. Sert
<i>Halictus</i> sp.1	13.VI.2004 Boztepe hillside, B.H.N.P. Afyonkarahisar	36 S 0285445 UTM 4289134	O. Sert
<i>Halictus</i> sp.2	22.V.2004 Çingiraklı road Lake side, B.H.N.P. Afyonkarahisar	36 S 0281381 UTM 4284435	O. Sert
<i>Halictus</i> sp.3	27.IX.2004 Zafertepe Çalköy Pond, B.H.N.P. Afyonkarahisar	36 S 0244509 UTM 4311777	O. Sert
<i>Seladonia tumulorum</i> (L., 1758)	04.IX.2004 Sarisu River surroundings, B.H.N.P.	35 S 0753843 UTM 4310088	O. Sert
<i>Sphecodes</i> sp.1	27.IX.2004 Zafertepe Çalköy Pond, B.H.N.P. Afyonkarahisar	36 S 0244509 UTM 4311777	O. Sert
<i>Lasioglossum lativentre</i> (Schenck, 1835)	27.IX.2004 Zafertepe Çalköy Pond, B.H.N.P. Afyonkarahisar	36 S 0244509 UTM 4311777	O. Sert
<i>Lasioglossum xanthopum</i> (Kirby, 1802)	23.V.2004 Eğdemir village cemetery surroundings,	36 S 0242088 UTM 4317048;	O. Sert
<i>Lasioglossum</i> sp.1 Family: Megachilidae	12.VI.2004 Selkisaray, B.H.N.P. Afyonkarahisar	36 S 0248072 UTM 4308018	O. Sert
<i>Megachile centuncularis</i> (L., 1758) Family: Sphecidae	04.IX.2004 Sarisu River surroundings, B.H.N.P. Afyonkarahisar	35 S 0753843 UTM 4310088	O. Sert
Sp. 1 Family: Xylocopidae	18.IV.2004 Gölcük Pond, B.H.N.P. Afyonkarahisar	36 S 0243094 UTM 4310588	O. Sert
<i>Xylocopa violacea</i> (L., 1758)	12.VI.2004 Selkisaray, B.H.N.P. Afyonkarahisar	36 S 0248072 UTM 4308018	O. Sert
<i>Xylocopa valga</i> Gerstaecker, 1872	09.V.2004 Yaniktepe hillside, B.H.N.P. Afyonkarahisar	36 S 0264651 UTM 4283793	O. Sert
Orda: LEPIDOPTERA			
Family: Arctiidae			
<i>Arctia festiva</i> (Hufnagel, 1766)	18.IV.2004 Hamurköy, B.H.N.P. Afyonkarahisar	36 S 0250553 UTM 4312360	O. Sert
<i>Chelis maculosa</i> (Gerning, 1780) Family: Lycaenidae	23.V.2004 Zafertepe Çalköy Pond, B.H.N.P. Afyonkarahisar	36 S 0244509 UTM 4311777	O. Sert
<i>Callophrys rubi</i> L., 1758	22.V.2004 Halıkaya locality, B.H.N.P. Afyonkarahisar	36 S 0283061 UTM 4285324	O. Sert
<i>Polyommatus admetus</i> (Esper, 1783)	17.VII.2004 Vakıftepe Hillside, B.H.N.P. Afyonkarahisar	36 S 0284560 UTM 4287559	O. Sert
<i>Lycaena tityrus</i> (Poda, 1761)	09.V.2004 Gökğöz Plateau, 22.V.2004 Derindere, 27.IX.2004 Zafertepe Çalköy Pond, B.H.N.P. Afyonkarahisar	36 S 0265823 UTM 4285521; 36 S 0276498 UTM 4285208; 36 S 0247163 UTM 4313207	O. Sert
<i>Lycaena phlaeas</i> L., 1761	17.VII.2004 Derindere, B.H.N.P. Afyonkarahisar	36 S 0276534 UTM 4285373	O. Sert
<i>Aricia agestis</i> (Dennis&Schiffmüller,1775)	17.VII.2004 Vakıftepe Hillside, B.H.N.P. Afyonkarahisar	36 S 0284560 UTM 4287559	O. Sert
<i>Plebejus argus</i> L., 1758	22.V.2004 Derindere, B.H.N.P. Afyonkarahisar	36 S 0276669 UTM 4285143	O. Sert
<i>Polyommatus amandus</i> (Schneider, 1792)	04.VI.2004 Erkmen River, 13.VI.2004 Boztepe hillside, B.H.N.P. Afyonkarahisar	36 S 0281771 UTM 4291643; 36 S 0761605 UTM 4248006	O. Sert
<i>Polyommatus icarus</i> (Rottemburg, 1775)	22.V.2004 Zafertepe Çalköy Pond, 04.VI.2004 Erkmen River, 13.VI.2004 Kurt Kayası hillside, B.H.N.P. Afyonkarahisar	36 S 0247163 UTM 4313207; 36 S 0281771 UTM 4291643; 36 S 0281449 UTM 4284558	O. Sert

<i>Tomares nogelii</i> (Herrich-Schäffer, 1851)	22.V.2004 Derindere, 23.V.2004 Beyçeşmesi surroundings, B.H.N.P. Afyonkarahisar	36 S 0276669 UTM 4285143; 35 S 0756133 UTM 4307552	O. Sert
Family: HesperIIDae			
<i>Muschampia tessellum</i> (Hübner, 1803)	12.VI.2004 Selkisaray Hamurköy arası, B.H.N.P. Afyonkarahisar	36 S 0250632 UTM 4311629	O. Sert
Family: Nymphalidae			
<i>Aglais urticae</i> (L., 1758)	13.VI.2004 Kurt Kayası hillside, B.H.N.P. Afyonkarahisar	36 S 0281449 UTM 4284558	O. Sert
<i>Anthocharis cardamines</i> (L., 1758)	05.VI.2004 Kurt Kayası hillside, B.H.N.P. Afyonkarahisar	36 S 0281449 UTM 4284558	O. Sert
<i>Arethusana arethusa</i> (Denis&Schiffermüller, 1775)	06.VIII.2004 Meyser Fountain beginning, B.H.N.P. Afyonkarahisar	35 S 0753583 UTM 4305351	O. Sert
<i>Argynnis pandora</i> (Denis&Schiffermüller, 1775)	13.VI.2004 Kocatepe Ketendere junction, 04.IX.2004 Sarısu River surroundings, B.H.N.P. Afyonkarahisar	36 S 0280350 UTM 4284057; 35 S 0753843 UTM 4310088	O. Sert
<i>Vanessa cardui</i> (L., 1758)	17.VII.2004 Çatal çeşmesi surroundings (Karagürtepe), B.H.N.P. Afyonkarahisar	35 S 0754540 UTM 4308905	O. Sert
<i>Hipparchia syriaca</i> (Staudinger, 1871)	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Gonepteryx rhamni</i> (L., 1758)	13.VI.2004 Kocatepe road Pond, B.H.N.P. Afyonkarahisar	36 S 0278826 UTM 4285658	O. Sert
<i>Hipparchia senthes</i> (Fruhstorfer, 1908)	13.VI.2004 Boztepe hillside, B.H.N.P. Afyonkarahisar	36 S 0761605 UTM 4248006	O. Sert
<i>Lasiommata maera</i> (L., 1758)	17.VII.2004 Boztepe hillside, 17.VII.2004 Vakıftepe hillside, B.H.N.P. Afyonkarahisar	36 S 0761605 UTM 4248006; 36 S 0285439 UTM 4289080	O. Sert
<i>Melanargia larissa</i> (Geyer, 1828)	13.VI.2004 Boztepe hillside, 17.VII.2004 Vakıftepe hillside, B.H.N.P. Afyonkarahisar	36 S 0761605 UTM 4248006; 36 S 0285439 UTM 4289080	O. Sert
<i>Melitaea didyma</i> (Esper, 1779)	13.VI.2004 Boztepe hillside, B.H.N.P. Afyonkarahisar	36 S 0285445 UTM 4289134	O. Sert
<i>Polygonia c-album</i> (L., 1758)	23.V.2004 Zafertepe Çalköy Pond, B.H.N.P. Afyonkarahisar	36 S 0244509 UTM 4311777	O. Sert
Family: Satyridae			
<i>Chazara briseis</i> (L., 1764)	17.VII.2004 Kurt Kayası hillside, 17.VII.2004 Derindere, B.H.N.P. Afyonkarahisar	36 S 0284560 UTM 4287559; 36 S 0276534 UTM 4285373	O. Sert
<i>Chazara persephone transiens</i> (Zerny, 1932)	17.VII.2004 Derindere, B.H.N.P. Afyonkarahisar	36 S 0276534 UTM 4285373	O. Sert
<i>Pseudochazara anthelea</i> (Hübner, 1824)	Afyonkarahisar-Center	-	Lodos et. al. (1978), "Lit"
<i>Coenonympha pamphilus</i> (L., 1758)	17.VII.2004 Vakıftepe Hillside, B.H.N.P. Afyonkarahisar	36 S 0284560 UTM 4287559	O. Sert
Family: Sphingidae			
<i>Macroglossum stellatarum</i> (L., 1758)	12.VI.2004 Selkisaray, B.H.N.P. Afyonkarahisar	36 S 0248072 UTM 4308018	O. Sert
Family: Papilionidae			
<i>Archon apollinus</i> (Herbst, 1798)	18.IV.2004 Hamurköy surroundings, B.H.N.P. Afyonkarahisar	36 S 0250666 UTM 4311806	O. Sert
<i>Iphiclides podalirius</i> (L., 1758)	05.VI.2004 Kurt Kayası hillside, B.H.N.P. Afyonkarahisar	36 S 0281449 UTM 4284558	O. Sert

	22.V.2004 Kocatepe Ketendere junction,	36 S 0280350 UTM 4284057;	
<i>Zerynthia cerisyi</i> (Godart, 1824)	22.V.2004 Kurt Kayası hillside,	36 S 0281449 UTM 4284558;	O. Sert
	23.V.2004 Eğdemir village cemetery surroundings, B.H.N.P. Afyonkarahisar	36 S 0242088 UTM 4317048	
Family: Pieridae			
<i>Colias alfacariensis</i> Ribbe, 1905	17.VII.2004 Derindere, B.H.N.P. Afyonkarahisar	36 S 0276534 UTM 4285373	O. Sert
	12.VI.2004 Hamurköy'e 1 km. kala,	36 S 0250610 UTM 4311805;	
<i>Colias crocea</i> (Fourcroy, 1785)	12.VI.2004 Zafertepe Çalköy Pond,	36 S 0247163 UTM 4313207;	O. Sert
	13.VI.2004 Boztepe hillside, B.H.N.P. Afyonkarahisar	36 S 0285445 UTM 4289134	
<i>Pieris brassicae</i> (L., 1758)	12.VI.2004 Zafertepe Çalköy Pond, B.H.N.P. Afyonkarahisar	36 S 0247163 UTM 4313207	O. Sert
	23.V.2004 Eğdemir village cemetery surroundings, B.H.N.P. Afyonkarahisar,	36 S 0242088 UTM 4317048;	
<i>Pieris rapae</i> (L., 1758)	27.IX.2004 Zafertepe Çalköy Pond, B.H.N.P. Afyonkarahisar	36 S 0247163 UTM 4313207	O. Sert
<i>Pontia edusa</i> (Fabricius, 1777)	06.VIII.2004 Hasandede hillside, B.H.N.P. Afyonkarahisar	35 S 0753343 UTM 4306399	O. Sert
<i>Leptidea sinapis</i> (L., 1758)	12.VI.2004 Beyçeşmesi surroundings, B.H.N.P. Afyonkarahisar.	35 S 0756133 UTM 4307552	O. Sert
Family: Zygaenidae			
<i>Adscita</i> sp.	12.VI.2004 Zafertepe Çalköy Pond, B.H.N.P. Afyonkarahisar	36 S 0247163 UTM 4313207	O. Sert
<i>Zygaena dorycnii</i> Ochsenheimer, 1808	17.VII.2004 Vakıftepe Hillside, B.H.N.P. Afyonkarahisar	36 S 0284560 UTM 4287559	O. Sert