

Flora of Kemaliye (Erzincan) District

Kemaliye İlçesinin (Erzincan) Florası

Research Article

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ABSTRACT

This research was carried out in Kemaliye district which about 158 km south-west of Erzincan province. 1800 plant specimens were collected from the area between 2005-2007. Identification of the specimens revealed the presence of 640 taxa belonging to 318 genera in 80 families. *Cryptogamae* includes 4, *Spermatophyta* includes 636 taxa (*Gymnospermae* 3, and *Angiospermae* 633 taxa). 36 taxa are new records for B7 square. A total of 118 taxa determined in the research area (18,43%) are endemic for Turkey. The scattering ratios of the taxa for the phytogeographical regions are as follows: Irano-Turanian elements are 252 taxa (39,37%), Mediterranean elements are 34 taxa (5,31%), Euro.-Sib. elements are 32 taxa (5%), widespread or other taxa which their regions unclarified are 322 (50,31%).

Key Words

Flora, Kemaliye, Erzincan, Turkey.

ÖZ

Araştırma, Erzincan'ın 158 km güneybatısındaki Kemaliye ilçesi sınırları içerisinde gerçekleştirilmiştir. Çalışma alanından 2005-2007 yılları arasında 1800 bitki örneği toplanmıştır. 80 familya ve 318 cinse ait, 640 tür ve türaltı takson tespit edilmiştir. Eğreltiler 4, açık tohumlular 3, kapalı tohumlular ise 633 takson içermektedir. 36 adet takson B7 karesi için yeni kayıttır. Toplam 118 takson Türkiye için endemiktir. Endemizm oranı %18,43'dür. Taksonların fitocoğrafik bölgelere göre dağılımı ise şöyledir: 252'si İran-Turan elementi (%39,37), 34' ü Akdeniz elementi (%5,31); 32'si Avr.-Sib. elementi (%5), 322' si çok bölgeli veya bölgesi belirlenemeyen (% 50,31) taksonlardır.

Anahtar Kelimeler

Flora, Kemaliye, Erzincan, Türkiye.

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INTRODUCTION

The district Kemaliye in Erzincan is located on the northwest border of Eastern Anatolia Region. The study area is situated between 39°15' 00" N latitude and 38°30'00" E longitude. The altitude of the district is 950 m above sea level [1]. The surface area is 1007 km² [2]. Eastern Anatolia Region is divided into four regions. These are Erzurum-Kars, Yukarı Fırat, Yukarı Murat-Van and Hakkari divisions. Kemaliye is located in Yukarı Fırat division. Kemaliye is surrounded in the east by Çemişgezek and Ovacık district (Tunceli province), in the south by Arapgir district (Malatya province) and Ağın district (Elazığ province), in the west by Divriği district (Sivas province) and in the north by İliç district (Erzincan province). The district center on the southwest of Erzincan province is located in Karasu Valley in the west of the Munzur Mountains. Karasu, the largest branch of the Fırat, passes through the east of the district center. The settlement texture of the town shows a linear development in the steep and rocky slope of Karasu (Figure 1).

The Kemaliye district is located in the southern part of our country, in the northeast part of the Taurus Orogenic Valley (east of the Taurus) and in the area called Munzur Mountains. The Munzur Mountains are a mountain range, consisting of a

large number of mountains and hills extending in the northeast-southwest direction and whose heights are mostly over 2000 m. Geological units in and around Kemaliye are slope rubble, limestone ophiolite and schist. [3].

In the Kemaliye district are generally found which is alluvial, colluvial, brown, brown forest soils and bare rocks and also rubble [4].

According to Kemaliye meteorological station, Kemaliye is mediterranean climate less rainfall and take part in bioclimatic zone where winter is cold, while Erzincan is semi dry and very cold [5]. In the Kemaliye annual rainfall is about 808,6 mm and the seasonal precipitation regime is autumn, winter, spring and summer, while Erzincan annual rainfall is about 379.4 mm and the seasonal precipitation regime is spring, autumn, winter and summer [6]. The ombrothermic diagrams show dry and rainy months (Figure 2).

The aim of this research is to determine the flora of the Kemaliye and also to contribute to the Flora of Turkey.

MATERIALS and METHODS

The materials of the study consisting of 1800 vascular plant specimens were collected between



Figure 1. Map of the Kemaliye.

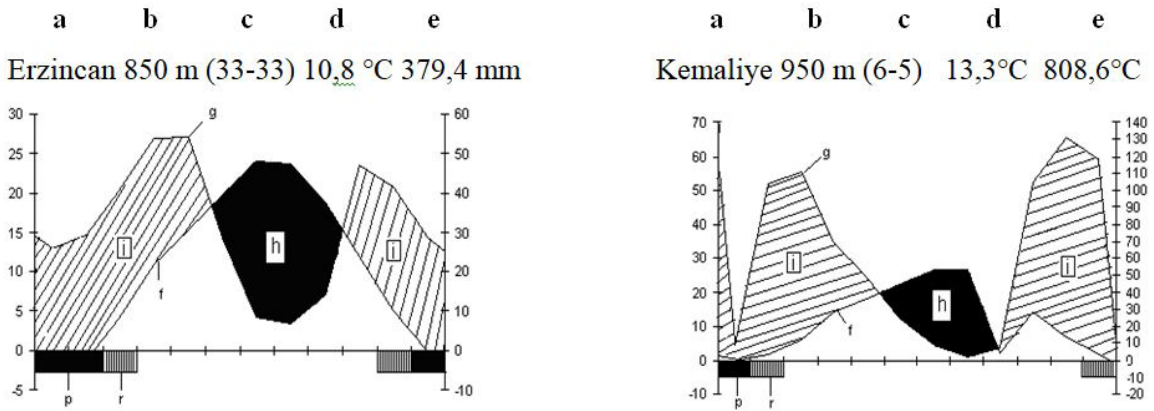


Figure 2. Omrothermic diagrams of Erzincan and Kemaliye (a- station; b- altitude; c-observation period; d- mean temperature; e- annual rainfall).

2005 and 2007. During identification of the plant specimens, specimens were compared with specimens in ANK, GAZI, HUB and ISTF herbaria. The specimens are deposited in herbarium HUB and The Kemaliye Nature Museum. The most of the specimens were identified using Flora of Turkey and The East Aegean Islands [7-9] and other Floras [10-14]. All taxa in the floristic list were given according to the order in the A Checklist of the Flora of Turkey (Vascular Plants) [15]. At results, every species was represented with the following details: family and taxon name, authors of the species, Turkish name, geographical locations, habitats, altitudes, collection dates, collector numbers and endemism, IUCN threat categories [16,17] and phytogeographical regions were given. Grid square and city name are not mentioned for each location because the study area is completely within the B7 Erzincan (Kemaliye). Author abbreviations of plant names were given according to Brummitt and Powell [18]. The floristic list were compared with floristic investigations of neighbouring areas [19-22].

A new record for the B7 square were determined through distribution maps in "Flora of Turkey 1-10" and other literatures [23-44]. The symbol (*) in front of a plant name indicates a new record for the B7 square.

For the map of the study area, the map of the painter Sıtkı Fırat was used. Relevant literatures were used for information on the geology and soil groups of the study area [3,4].

Meteorological data belonging to Erzincan and Kemaliye province was obtained from Turkish State Meteorological Service [1,6]. Climate diagrams belonging to the research field were drawn according to Gausson method. For climatic evaluation of research area the formulation of Emberger that developed for Mediterranean climate layers classification, and drought degrees was used. For the interpretation of the data about climate the book "İklim ve Biyoiklim" was used [5].

The abbreviations used in the text and the floristic list are as follows (in alphabetic order): ADK: Aslı Doğru Koca, ANK: Herbarium of Ankara University, cm: Centimeter, CR: Critically Endangered, DD: Data Deficient, EN: Endangered, End.: Endemic, E. Medit.: East Mediterranean, Euro-Sib.: Euro-Siberian, EX: Extinct, GAZI: Herbarium of Gazi University, HA: Haşim Altınöz, HUB: Herbarium of Hacettepe University, ISTF: Herbarium of Istanbul University, Faculty of Science, Ir.-Tur.: Irano-Turanian, IUCN: The International Union for Conservation of Nature, LC: Least Concern, Medit.: Mediterranean, m: Meter, mm: Millimeter, MK: Makbule Karahan, MUÖ: Mehmet Ufuk Özbek, MV: Mecit Vural, NT: Near Threatened, subsp.: Subspecies, SYO: Sırrı Yüzbaşıoğlu, Kandemir: Ali Kandemir, var: Variete, VU: Vulnerable.

Collecting localities in the study area as follows: 1- Kemaliye, Yeşilyamaç-Yayladamı village; 2- Kemaliye, Yeşilyamaç village; 3- Kemaliye, Yeşilyamaç-Kemaliye; 4- Kemaliye, between Yaka-Yeşilyamaç village; 5- Kemaliye, between Yeşilyamaç-

Yeşilyamaç stream; 6- Kemaliye, between Geşobeli-Yeşilyamaç; 7- Kemaliye, Yeşilyamaç-Başpınar, ahead Dolunay village; 8- Kemaliye, Dutluca, around Dutbeli; 9- Kemaliye, Yeşilyayla village, Mezra stream; 10- Kemaliye, above Yeşilyayla village; 11- Kemaliye, Tozlupınar; 12- Kemaliye, between Yuva village-around Kabanbaşı; 13- Kemaliye, Yuva village; 14- Kemaliye, between Toybelen-Yuva; 15- Kemaliye, Apçaağa village, Apça vineyards; 16- Kemaliye, between Kemaliye-Apçaağa; 17- Kemaliye, between Venk bridges-Salihli village; 18- Kemaliye, side of Venk stream; 19- Kemaliye, Bağıştaş-Kemaliye 4 km; 20- Kemaliye, between Salihli village-Bağıştaş 13. km; 21- Kemaliye, between Salihli village-Bağıştaş 17. km; 22- Kemaliye, Salihli village-Bağıştaş, 1,5 km from Ortatepe village; 23- Kemaliye, Salihli, çimento geçidi; 24- Kemaliye, Salihli village; 25- Kemaliye, above Salihli village; 26- Kemaliye, above Salihli village, around stony pit; 27- Kemaliye, Sandık village; 28- Kemaliye, around Sandık village; 29- Kemaliye, Sandık village, around Erçivit; 30- Kemaliye, Çit village; 31- Kemaliye, Sırakonaklar village; 32- Kemaliye, between Sırakonaklar-Subatan; 33- Kemaliye, Subatan; 34- Kemaliye, Mazbanbaşı; 35- Kemaliye, Sarıçiçek upland; 36- Kemaliye, Sarıçiçek upland, around maden; 37- Kemaliye, road of Sarıçiçek upland, around Mustafa Akyüz fountain; 38- Kemaliye, between Sarıçiçek-Mazbanbaşı; 39- Kemaliye, Başpınar bridge; 40- Kemaliye, Başpınar village; 41- Kemaliye, around Başpınar, above Harmankaya stream; 42- Kemaliye, Başpınar, above Konsar village; 43- Kemaliye, Keklikpınarı village; 44- Kemaliye, above Keklikpınarı village; 45- Kemaliye, Sıraca village; 46- Kemaliye, above Ergü village; 47- Kemaliye, Ergü vineyards, throughout Karasu river basin; 48- Kemaliye, 5 km from Kuşak village; 49- Kemaliye, Kuşak village; 50- Kemaliye, Taş road, Karanlık Canyon, entrance of Recep Yazıcıoğlu Tunnel; 51- Kemaliye, Taş road; 52- Kemaliye, Dilli stream; 53- Kemaliye, around Avas; 54- Kemaliye, Kayıkbaşı, around fisherman hut; 55- Kemaliye, Karakoçlu; 56- Kemaliye, between Karakoçlu- Meşebaşı; 57- Kemaliye, between İkisü-Davulköprü; 58- Kemaliye, above Ulaş village; 59- Kemaliye, Subaşı village; 60- Kemaliye, Subaşı village, around Adnan Öztürk bridge; 61- Kemaliye, Kırkgöz; 62- Kemaliye, between Kabanbaşı-Kırkgöz; 63- Kemaliye, Kocaçimen village, Davulköprü; 64- Kemaliye, above Kabataş village, Karadağ; 65- Kemaliye, Munzur Mountain, Doymuş hill; 66-

Kemaliye, around Zincirkaya; 67- Kemaliye, around Alamağarası; 68- Kemaliye, Ağıllar; 69- Kemaliye, Rabat stream, throughout Karasu river basin; 70- Kemaliye, Balkır village, Doymuş hill; 71- Kemaliye, Çanakçı village; 72- Kemaliye, İshakpaşa mahallesi; 73- Kemaliye, Kemaliye-Arapgir, 1 km from Yeşilyurt village signboard; 74- Kemaliye, above Yeşilyurt village; 75- Kemaliye, Arnavut inn; 76- Kemaliye, Kocahaydar, Sülük lake; 77- Kemaliye, side of governorship residence; 78- Kemaliye, Kırkgöz, radio link station; 79- Kemaliye, Armağan village; 80- Kemaliye, Binkoç village; 81- Kemaliye, 1 km from Sırakonaklar village

RESULTS and DISCUSSION

As a result of the examination of 1800 plants specimens which were collected from the research area between 2005-2007 years, 640 taxa that belong to 318 genera and 80 families were determined from the area. Four taxa of them belong to Pteridophyta and 636 taxa belong to Spermatophyta. The number of endemic taxa in the study area is 118 and the endemism ratio is 18,43%.

The phytogeographical regions of the determined species in the study area, are listed as follows: Irano-Turanian elements 252 (39.37%), Mediterranean elements 34 (5.31%), Euro-Siberian elements 32 (5%), and either multi-regional or unknown 322 (50.31%) taxa. The comparison of the species's phytogeographical distributions among our and adjacent areas are presented Table 1. Irano-Turanian elements seem to be dominantly in all area studied.

1. This research
2. Yıldırım - Flora of Munzur Mountains (Erzincan-Tunceli) [19]
4. Akpulat - Flora of Between Sivas-Sıcak Çermik (Sivas) [20]
5. Türkoğlu - Flora of Karga Mountain (Elazığ) Florası [21]
6. Yıldız- Floristical Characteristics of Berit Mountain (Kahramanmaraş) [22]

The threat categories of *Psephellus psephelloides* (Freyn. & Sint.) Wagenitz (Syn: *Centaurea psephelloides*), *Physocardium*

Table 1. A comparison of the phytogeographical elements.

| Phytogeographical regions | Research areas | | | | |
|---------------------------|----------------|-------|-------|-------|-------|
| | 1 (%) | 2 (%) | 3 (%) | 4 (%) | 5 (%) |
| Irano-Turanian | 39.37 | 45.7 | 31.3 | 32.5 | 28.2 |
| Mediterranean | 5.31 | 4.4 | 5.2 | 5.1 | 15.0 |
| Euro-Siberian | 5 | 8 | 5.6 | 3.7 | 5.6 |
| Multi-regional or unknown | 50.31 | 41.9 | 57.9 | 58.7 | 51.2 |

angustifolium (Hauskn. ex Bornm.) Kandemir (Syn: *Bornmuellera angustifolia*) and *Teucrium leucophyllum* Montbret & Aucher ex Benth. are DD, *Verbascum calycosum* Hauskn ex Murb., *Barbarea auriculata* Hauskn. ex Bornm var. *auriculata*, *Onosma discedens* Hauskn. ex Bornm. and *Onosma affinis* Hauskn. ex Riedl are EX in Red Data Book of Turkish Plants [16]. Previously, these taxa were collected from the study area and threat categories of the species were proposed [45-48]. Recently, *Aethionema ozbekii* Yild. had been published [49], but threat category of this species have not been determined until this study. We determined that the area of occupancy estimated to be less than 500 km², severely fragmented or known to exist at no more than five locations and decline of number of mature individuals. Therefore, according to IUCN Red List criteria [49], category of the threatened *Aethionema ozbekii* is proposed as EN B2ab(v). The results are summarized in Table 2.

Table 2. The numbers and rates of the threatened species and IUCN categories.

| Category | Species number | Ratio to total endemic number (%) |
|----------|----------------|-----------------------------------|
| CR | 9 | 7.82 |
| EN | 11 | 9.56 |
| VU | 14 | 11.17 |
| NT | 15 | 13.04 |
| LC | 66 | 57.39 |

Table 3. A comparison of the number of endemic taxa and endemism rate among our and adjacent studies.

| Endemism | Research areas | | | | |
|----------------------------|----------------|-------|------|-----|-------|
| | 1 | 2 | 3 | 4 | 5 |
| The number of endemic taxa | 118 | 275 | 61 | 46 | 200 |
| Endemism rate (%) | 18.43 | 18.11 | 17.8 | 9 | 17.16 |
| Total number of taxa | 640 | 1518 | 341 | 510 | 1165 |

The total number of endemic taxa is 118 (18.43%). The endemism rate is 275 (18.11%) for Flora of Munzur Mountains (Yıldırım, 1995), 61 (17.8%) for Flora of Between Sivas-Sıcak Çermik (Akpulat & Çelik, 2002), 200 (17.16%) for Floristical Characteristics of Berit Mountain (Yıldız, 2001) and 46 (9%) Flora of Karga Mountain (Türkoğlu & Civelek, 2005) (Table 3).

The families including the highest numbers of the taxa in research field are as follows: *Asteraceae* 86 (%13.43), *Brassicaceae* 62 (%9.68), *Fabaceae* 60 (%9.37), *Lamiaceae* 55 (%8.59), *Caryophyllaceae* 33 (%5.15), *Apiaceae* 30 (%4.68), *Boraginaceae* 29 (%4.53), *Rosaceae* 24 (%3.75), *Poaceae* 16 (%2.5) and *Caprifoliaceae* 15 (%2.34) (Table 4). Other 230 taxa left belong to other families.

The genus *Astragalus* includes the highest number of species in research area with 13 taxa. *Alyssum* and *Silene* (11), *Centaurea* (10), *Papaver*

Table 4. Families and their rates (%) including the highest number of the taxa.

| Family | Number of the taxa | Rate (%) | Family | Number of the taxa | Rate (%) |
|------------------------|--------------------|----------|-----------------------|--------------------|----------|
| <i>Asteraceae</i> | 86 | 13.43 | <i>Apiaceae</i> | 30 | 4.68 |
| <i>Brassicaceae</i> | 62 | 9.68 | <i>Boraginaceae</i> | 29 | 4.53 |
| <i>Fabaceae</i> | 60 | 9.37 | <i>Rosaceae</i> | 24 | 3.75 |
| <i>Lamiaceae</i> | 55 | 8.59 | <i>Poaceae</i> | 16 | 2.5 |
| <i>Caryophyllaceae</i> | 33 | 5.15 | <i>Caprifoliaceae</i> | 15 | 2.34 |

and *Onosma* (9), *Aethionema*, *Scorzonera* and *Medicago* (8), *Salvia* and *Thymus* (7), *Anthemis*, *Taraxacum* and *Allium* (6) taxa follow (Table 5).

According to the Flora of Turkey, the richest families in terms of taxa numbers are *Asteraceae*, *Fabaceae*, *Lamiaceae*, *Brassicaceae*, *Caryophyllaceae*, *Scrophulariaceae*, *Apiaceae*, *Liliaceae* and *Boraginaceae*. In our study, *Asteraceae*, *Brassicaceae* and *Fabaceae* families are ordered as the richest families in terms of taxa number. The comparison of the richest families at taxa numbers level among this research and adjacent studies is given in Table 6.

Floristic list is given below;

1. PTERIDOPHYTA / EĞRELTİ BÖLÜMÜ

ASPLENIACEAE / SAÇAKOTUGİLLER

Asplenium ceterach L. "dalakotu", 4, rocky places, 1040 m., 16.05.2006, HA 5303.

CYSTOPTERIDACEAE

GEVREKEĞRELTİGİLLER

Cystopteris fragilis (L.) Bernh. "gevrek eğrelti", 33, calcareous rocky places, 1850 m., 17.05.2006, HA 5334.

EQUISETACEAE / ATKUYRUĞUGİLLER

Equisetum giganteum L. "kırkkilitotu", 43, damp area, 1400 m., 15.05.2006, HA 5233.

PTERIDACEAE / BALDIRIKARAĞİLLER

Table 5. Genera including the highest number of taxa and their rates.

| Genus | Number of the taxa | Rate (%) | Genus | Number of the taxa | Rate (%) |
|-------------------|--------------------|----------|-------------------|--------------------|----------|
| <i>Astragalus</i> | 13 | 2.03 | <i>Scorzonera</i> | 8 | 1.25 |
| <i>Alyssum</i> | 11 | 1.71 | <i>Medicago</i> | 8 | 1.25 |
| <i>Silene</i> | 11 | 1.71 | <i>Salvia</i> | 7 | 1.09 |
| <i>Centaurea</i> | 10 | 1.56 | <i>Thymus</i> | 7 | 1.09 |
| <i>Papaver</i> | 9 | 1.4 | <i>Anthemis</i> | 6 | 0.93 |
| <i>Onosma</i> | 9 | 1.4 | <i>Taraxacum</i> | 6 | 0.93 |
| <i>Aethionema</i> | 8 | 1.25 | <i>Allium</i> | 6 | 0.93 |

Table 6. Comparison of the richest families in terms of taxa numbers in research area other studies in neighbourhood.

| Research area | 1 | 2 | 3 | 4 | 5 |
|------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Family | Number of the taxa | Number of the taxa | Number of the taxa | Number of the taxa | Number of the taxa |
| <i>Asteraceae</i> | 86 | 171 | 53 | 59 | 144 |
| <i>Brassicaceae</i> | 62 | 121 | 40 | 45 | 77 |
| <i>Fabaceae</i> | 60 | 70 | 41 | 65 | 130 |
| <i>Lamiaceae</i> | 55 | 101 | 30 | 28 | 73 |
| <i>Caryophyllaceae</i> | 33 | 129 | 20 | 25 | 75 |

Cheilanthes persica (Bory) Mett. ex Kuhn, "paslı eğrelti", 77, rocky places, 870 m., 14.05.2006, MUÖ 1970.

2. PINOPHYTINA / AÇIK TOHURLULAR

EPHEDRACEAE / DENİZÜZÜMÜGİLLER

Ephedra major Host, "hum", 61, steppe, 1260 m., 12.07.2006, MV 9176, E. Medit.

CUPRESSACEAE / SERVİGİLLER

Juniperus oxycedrus L. subsp. ***oxycedrus***, "katran ardıcı", 40, *Juniperus* and *Quercus* mixed area, 875 m., 16.05.2006, HA 5258.

J. excelsa M. Bieb. subsp. ***excelsa***, "boz ardıç", 7, rocky places, 1485 m., 24.09.06, SYO 2837.

3. MAGNOLIOPHYTINA / KAPALI TOHURLULAR

ACANTHACEAE / AYİPENÇESİGİLLER

Acanthus dioscoridis L. var. ***dioscoridis***, "lokman ayipençesi", 1, stony slopes, 1600 m., 13.07.2006, MV 9246.

AMARANTHACEAE / HOROZİBİĞİGİLLER

Chenopodium botrys L. "kızılacak", 34, roadsides, 1830 m., 23.09.06, SYO 2825.

C. foliosum Asch. "cülek", 6, rocky slopes, 1200 m., 20.10.2006, HA 5321.

Noaea mucronata (Forssk.) Asch. & Schweinf. subsp. ***mucronata***, "hölmezotu", 63, rocky places, 1360 m., 14.09.2007, SYO 2979.

AMARYLLIDACEAE / NERGİSGİLLER

Allium armenum Boiss. & Kotschy, "pembe sırım", 33, rocky places, 1870 m., 07.07.2006, SYO 2734, **End., LC**, Ir.-Tur.

A. asperiflorum Misch. "benekli soğan", 33, high mountain steppe, 1885 m., 11.06.2006, MUÖ 2060, **End., LC**, Ir.-Tur.

A. chrysantherum Boiss. & Reut. "sarıkafa", 17, *Quercus* fields, 912 m., 14.05.2006, HA 5028, Ir.-Tur.

A. kharputense Freyn & Sint. "harput soğanı", 13, meadows, 900 m., 15.04.2006, MV 9573, Ir.-Tur.

A. scorodoprasum L. subsp. ***rotundum*** (L.) Stearn, "deli pırasa", 43, cultivated area, 1277 m., 10.06.2006, MUÖ 2046.

A. sivasicum Özhatay & Kollman, "sivas soğanı", 23, serpentine, 1467 m., 05.07.2005, Kandemir 7013, **End., LC**, Ir.-Tur.

Sternbergia clusiana (Ker-Gawl.) Ker-Gawl. ex

Spreng. "vargetgülü", 37, rocky places, 1770 m., 23.09.2006, SYO 2823, Ir.-Tur.

ANACARDIACEAE / MENENĞİÇGİLLER

Pistacia terebinthus L. subsp. ***terebinthus***, "menengiç", 3, roadsides, rocky slopes, 1090 m., 12.06.2006, MUÖ 2103, E. Medit.

Rhus coriaria L. "sumak", 15, *Quercus* fields, 23.09.2006, SYO 2820.

APIACEAE / MAYDANOZGİLLER

Antriscus nemorosa (M. Bieb.) Spreng. "peçek", 31, meadows, 1200 m, 14.04.2006, MV 9384.

Artedia squamata L. "karabek", 4, serpentine stony slopes, 915 m, 13.07.2006, MV 9192.

Astrodaucus orientalis (L.) Drude, "havyıldız", 21, 1130 m., 04.07.2007, MUÖ 2544, Ir.-Tur.

Bunium elegans (Fenzl) Freyn var. ***elegans***, "hoş aksar", 78, stony slopes, 1800 m, 23.05.2014, Kandemir 10499.

Bunium elegans (Fenzl) Freyn var. ***involucratum*** Ö.Saya, "hoş aksar", 78, stony slopes, 1800 m, 23.05.2014, Kandemir 10500, **End., CR**, Ir.-Tur.

Bupleurum eginense (Wolff) Snogerup, "eğin şeytanayağı", 20, rocky slopes, 1270 m., 04.07.2007, MUÖ 2526, **End., NT**.

Cnidium silaifolium (Jacq.) Simonk. subsp. ***orientale*** (Boiss.) Tutin, "galyobişotu", 46, rocky places, 1230 m., 05.07.2007, MUÖ 2577.

Eryngium billardieri F. Delaroché, "hıyarok", 30, rocky places, 940 m., 13.09.2007, SYO 2968, Ir.-Tur.

Falcaria vulgaris Bernh. "orakotu", 77, open stony areas, 1724 m., 15.09.2007, SYO 2993.

Ferula brevipedicellata Peşmen ex Sağıroğlu & H. Duman, "asaotu", 25, serpentine stony slopes, 1460 m, 13.07.2005, MV 9245, **End., VU**.

Grammosciadium daucoides DC. "kami", 39, rocky places, 870 m, 15.05.2006, HA 5143, Ir.-Tur.

Heptaterra anisoptera (DC.) Tutin, "kanatlı çakşır", 43, cultivated area, 1277 m, 10.06.2006, MUÖ 2043.

Johrenia dichotoma DC. "irazdene", 45, stony slopes, 1150 m, 12.07.2005, MV 9152, Ir.-Tur.

Malabaila secacul (Mill.) Boiss. "davarotu", 48, edge of stream, rocky slopes, 1025 m, 10.06.2006, MUÖ 2028.

Opopanax hispidus (Friv.) Griseb, "kaymacık", 46, rocky places, 1230 m., 05.07.2007, MUÖ 2573.

Physocaulis nodosus (L.) Tausch, "hacıkuş", 50, rocky places, 1200 m, 16.05.2006, HA 5310.

****Pimpinella cappadocica*** Boiss. & Balansa var.

cappadocica, "peri anasonu", 25, rocky slopes, 1170 m., 02.07.2007, MUÖ 2498, **End., LC**, Ir.-Tur.

P. kotschyana Boiss. "peri anasonu", 2, rocky slopes, 1686 m, 08.07.2006, SYO 2781, Ir.-Tur.

P. peucedanifolia Fisch. "elmas süpürgesi", 23, serpentine, 1467 m, 05.07.2005, Kandemir 7006, Ir.-Tur.

P. tragium Vill. subsp. **lithophila** (Schischk.) Tutin, "teke anasonu", 52, rocky places, 890 m., 04.07.2007, MUÖ 2564.

P. tragium Vill. subsp. **pseudotragium** (DC.) V.A. Matthews, "yoz anason", 32, stony slopes, 1450 m, 12.07.2005, MV 9132, Ir.-Tur.

Prangos meliocarpoides Boiss. var. **meliocarpoides**, "sultan teresi", 20, rocky slopes, 1270 m., 04.07.2007, MUÖ 2536, **End., LC**, Ir.-Tur.

P. pabularia Lindl. "beyik", 48, edge of stream, rocky slopes, 1025 m, 10.06.2006, MUÖ 2040, Ir.-Tur.

Rhabdosciadium urusakii Akalın, "iliç handoğu", 23, serpentine, roadsides, 950 m, 23.07.2015, Kandemir 10844, **End., CR**, Ir.-Tur.

Scandix stellata Banks & Sol. "dağ kişnişi", 13, cultivated area, 900 m, 15.04.2006, MV 9561.

***Smyrniun connatum** Boiss. & Kotschy, "yabani kereviz", 4, rocky places, 1040 m, 16.05.2006, HA 5293, E. Medit.

Torilis leptocarpa (Hochst.) C.C. Towns. "narın dercikotu", 32, stony slopes, 1190 m, 12.07.2005, MV 9119, Ir.-Tur.

Trigonosciadium intermedium Freyn & Sint. ex Sint., "öz şemsiye otu", 81, edge of fields, 13.06.2013, 970 m, Kandemir 10393, **End., CR**, Ir.-Tur.

Turgenia latifolia (L.) Hoffm. "karaheci", 43, cultivated area, 1277 m, 10.06.2006, MUÖ 2044.

***Turgeniopsis foeniculacea** (Fenzl) Boiss. "demirpitrak", 41, *Juniperus* and *Quercus* mixed area, 1030 m, 16.05.2006, HA 5254.

APOCYNACEAE / ZAKKUMGİLLER

Cionura erecta (L.) Griseb. "babrik", 54, roadsides, 861 m, 04.06.2007, HA 5625, E. Medit.

Periploca graeca L. var. **graeca**, "garipler urganı", 15, *Quercus* fields, 23.09.2006, SYO 2819, HA 5624, E. Medit.

Vinca herbacea Waldst. & Kit. "bikir çiçeği", 53, serpentine slopes, 1500 m., 14.05.2006, HA 5069.

V. sonerii Koyuncu, "osman çiçeği", 4, serpentine stony slopes, 915 m, 13.07.2005, MV 9186, **End., LC**, Ir.-Tur.

Vincetoxicum canescens (Willd.) Decne. subsp.

canescens, "zilasur", 32, stony slopes, 1490 m., 12.07.2006, MV 9138, Ir.-Tur.

V. fuscatum (Hornem.) Rchb. f. subsp. **fuscatum**, "gavur biberi", 55, *Quercus* fields, 1287 m., 14.05.2006, HA 5089.

ARACEAE / YILANYASTIĞİLLER

Arum elongatum Steven, "yılancüçüğü", 34, rocky places, 1670 m., 17.05.2005, HA 5321, Ir.-Tur.

***Spirodela polyrhiza** (L.) Schleid. "telli sumercimeği", 76, slough, 1724 m., 15.09.2007, SYO 2990.

ARISTOLOCHIACEAE / LOHUSAOTUGİLLER

Aristolochia bottae Jaub. & Spach, "köpektaşağı", 11, rocky slopes, 1150 m, 15.05.2006, HA 5217, Ir.-Tur.

ASPARAGACEAE / KUŞKONMAZGİLLER

Bellevalia gracilis Feinburn, "aktepeli", 17, *Quercus* fields, 912 m., 14.05.2006, HA 5041, **End., LC**, Ir.-Tur.

Hyacinthella acutiloba K. Perss. & Wendelbo, "sivrisümbül" 6, rocky places, 1680 m., 13.04.2006, MV 9345, **End., LC**, Ir.-Tur.

***Hyacinthus orientalis** L. subsp. **chionophilus** Wendelbo, "kopça", 6, roadsides, 1400 m., 13.04.2006, MV 9367, **End., NT**, Ir.-Tur.

Muscari azureum Fenzl, "keşişbaşı", 34, rocky slopes, 1650 m., 14.04.2006, MV 9370, **End., LC**.

M. armeniacum Leichtlin ex Baker, "gavurbaşı", 31, meadows, 1200 m., 14.04.2006, MV 9382.

M. coeleste Fomin, "kediboncuğu", 34, rocky slopes, 1650 m, 14.04.2006, MV 9371, **End., LC**, Ir.-Tur.

Ornithogalum arcuatum Steven, "kurtkirişi", 11, rocky places, 1150 m., 15.05.2006, HA 5215, Ir.-Tur.

O. oligophyllum E.D. Clarke, "kurtsoğani", 34, rocky slopes, 1650 m., 14.04.2006, MV 9379.

***O. orthophyllum** Ten. subsp. **kochii** (Parl.) Maire & Weiller, "bayır yıldızı", 34, rocky places, 1670 m., 17.05.2006, HA 5313.

O. sphaerocarpum A. Kern. "salkım sakarca", 17, *Quercus* fields, 912 m., 14.05.2006, HA 5044.

Scilla sibirica Haw. subsp. **armena** (Grossh.) Mordak, "camışkıran", 34, rocky slopes, 1650 m., 14.04.2006, MV 9369, Ir.-Tur.

ASTERACEAE / PAPATYAGİLLER

Achillea aleppica DC. subsp. **aleppica**, "tatarcı otu", 39, rocky places, 870 m., 15.05.2006, HA 5160, Ir.-Tur.

A. magnifica Heimerl ex Hub. -Mor. "karcivani", 56, rocky places, 1715 m., 09.07.2006, SYO 2793, **End., NT**, Ir.-Tur.

- A. schischkinii** Sosn. "deli civanperçimi", 34, rocky places, 1630 m., 02.06.2007, HA 5453, **End., LC**, Ir-Tur.
- A. teretifolia** Willd. "beyaz civanperçimi", 36, 1620 m., 05.07.2005, Kandemir 7033, **End., LC**, Ir-Tur.
- Anthemis cretica** L. subsp. **anatolica** (Boiss.) Grierson, "horoz papatyası", 26, rocky places, 1380 m, 04.07.2007, MUÖ 2557.
- A. cretica** L. subsp. **pontica** (Willd.) Grierson, "laz papatyası", 25, serpentine slopes, 1400 m, 13.07.2005, MV 9205.
- A. kotschyana** Boiss. var. **discoidea** (Bornm.) Grierson, "koç papatyası", 25, rocky slopes, 1460 m., 13.07.2005, MV 9227.
- A. kotschyana** Boiss. var. **kotschyana**, "koç papatyası", 20, rocky slopes, 1270 m., 04.07.2007, MUÖ 2532.
- A. kotschyana** Boiss. var. **radians** Bornm. "koç papatyası", 38, roadsides, rocky slopes, 1650 m., 11.06.2006, MUÖ 2076.
- ***A. pungens** Yavin, "geyik papatyası", 13, cultivated area, 900 m., 15.04.2006, MV 9507, **End., NT**.
- Arctium minus** (Hill) Bernh. "löşlek", 30, roadsides, forest clearings, 1030 m., 06.07.2006, SYO 2686, Euro-Sib.
- Carduus nutans** L. subsp. **nutans**, "eşekdikeni", 36, rocky places, 1875 m, 07.07.2006, SYO 2739.
- Carlina oligocephala** Boiss. & Kotschy subsp. **oligocephala**, "domuz dikeni", 30, rocky slopes, 940 m., 13.09.2007, SYO 2970.
- Centaurea aggregata** Fisch. & C.A. Mey. ex DC. subsp. **aggregata**, "kümedüğe", 33, stony slopes, 1190 m., 12.07.2005, MV 9120.
- C. aucheri** (DC.) Wagenitz, "güçük sarıbaş", 8, *Quercus* fields, 1225 m., 05.07.2007, MUÖ 2583, **End., EN**, Ir-Tur.
- C. carduiformis** DC. subsp. **carduiformis**, "kavgalaz", 28, rocky slopes, 1170 m., 02.07.2007, MUÖ 2476.
- C. consanguinea** DC. "tezdüğe", 4, stony slopes, 915 m., 13.07.2005, MV 9190, **End., EN**, Ir-Tur.
- C. derderiifolia** Wagenitz, "bağ sarıbaşı", 59, rocky places, 1538 m, 25.09.2006, SYO 2850, **End., NT** Ir-Tur.
- C. drabifolia** Sibth. & Sm. subsp. **drabifolia**, "öbek sarıbaş", 1, stony slopes, 1600 m., 13.07.2005, MV 9260.
- C. polypodifolia** Boiss. var. **pseudobehen** (Boiss.) Wagenitz, "akbehen", 28, rocky slopes, 1170 m., 02.07.2007, MUÖ 2481, Ir-Tur.
- C. solstitialis** L. subsp. **solstitialis**, "çakırdikeni", 32, stony slopes, 1190 m., 12.07.2005, MV 9124.
- C. urvillei** DC. subsp. **urvillei**, "alakötürüm", 42, steppe, 1468 m, 04.06.2007, HA 5640, E. Medit.
- C. virgata** Lam. "acı süpürge", 61, stony slopes, 1280 m., 12.07.2005, MV 9166, Ir-Tur.
- Chardinia orientalis** (L.) Kuntze, "çağlaotu", 17, *Quercus* fields, 912 m., 14.05.2006, HA 5021, Ir-Tur.
- Cichorium intybus** L. "hindiba", 66, rocky slopes, 1000 m., 05.07.2007, MUÖ 2594a.
- Cirsium arvense** (L.) Scop. "köygöçüren", 63, roadsides, 1360 m., 14.09.2007, SYO 2974.
- C. leucocephalum** (Willd.) Spreng. subsp. **penicillatum** (K. Koch) Greuter, "uç hamurkesen", 64, rocky places, 1800 m, 25.09.2006, SYO 2847.
- Cousinia canescens** DC. "kızan dikeni", 56, rocky places, 1800 m, 09.07.2006, SYO 2803, Ir-Tur.
- Cota austriaca** (Jacq.) Sch. Bip., "babuçça", 49, *Quercus* fields, 1200 m., 15.05.2006, HA 5196.
- C. coelopoda** (Boiss.) Boiss. var. **bourgaei** (Boiss.) Özbek & Vural, "çiçekçi papatyası", 20, rocky slopes, 1270 m., 04.07.2007, MUÖ 2525.
- C. tinctoria** (L.) J. Gay ex Guss. var. **tinctoria**, "boyacı papatyası", 8, *Quercus* fields, 1225 m., 05.07.2007, MUÖ 2553.
- Crepis foetida** L. subsp. **rhoeadifolia** (M. Bieb.) elak, "sakarkanak", 4, roadsides, 1400 m., 13.04.2006, MV 9355.
- C. sancta** (L.) Bornm. "yaban kıskısı", 16, meadows, 1084 m, 15.05.2006, HA 5134.
- Crupina crupinastrum** (Moris) Vis. "gelindöndüren", 38, roadsides, rocky slopes, 1400-1640 m, 11.06.2006, MUÖ 2069.
- Cyanus pichleri** (Boiss.) Holub subsp. **pichleri**, "düşmeli ot", 33, high mountain steppe, 1885 m, 11.06.2006, MUÖ 2054.
- Echinops spinosissimus** Turra subsp. **bithynicus** (Boiss.) Greuter, "kirpibaşı", 64, rocky places, 1912 m, 25.09.06, SYO 2848, Ir-Tur.
- Filago arvensis** L. "keçeoğlu", 28, rocky slopes, 1170 m., 02.07.2007, MUÖ 2450.
- F. anatolica** (Boiss. & Heldr.) Chrtek & Holub, "ana keçeoğlu", 33, rocky places, 1845 m., 05.07.2007, MUÖ 2565, Ir-Tur.
- Helichrysum arenarium** (L.) Moench subsp. **aucheri** (Boiss.) P.H. Davis & Kupicha, "yayla çiçeği", 61, stony slopes, 1280 m., 12.07.2005, MV 9168, **End., LC**, Ir-Tur.
- H. armenium** DC. subsp. **araxinum** (Kirp.) Takht. "aras altınotu", 61, stony slopes, 1280 m.,

12.07.2005, MV 9163.

H. armenium DC. subsp. **armenium**, "altınotu", 45, stony slopes, 1150 m., 12.07.2005, MV 9154, Ir.-Tur.

H. plicatum DC. subsp. **plicatum**, "mantuvar", 39, high mountain steppe, 1885 m, 11.06.2006, MUÖ 2050.

Hieracium pannosum Boiss. "acıkanak", 22, rocky places, 1375 m., 04.07.2007, MUÖ 2551, E. Medit.

***Inula anatolica** Boiss. "kaya andızı", 65, high mountain steppe, 2150 m., 07.07.2007, MUÖ 2597.

I. fragilis Boiss. & Hausskn. "gevrek andızotu", 20, rocky slopes, 1270 m., 04.07.2007, MUÖ 2529, **End., VU**, Ir.-Tur.

I. salicina L. "su andızotu", 60, edge of stream, 1500 m., 07.07.2007, MUÖ 2615, Euro-Sib.

Klasea cerinthifolia (Sm.) Greuter & Wagenitz, "topbaş", 18, rocky slopes, 1170 m., 02.07.2007, MUÖ 2463.

K. oligocephala (DC.) Greuter & Wagenitz, "saplı topbaş", 67, meadows and rocky places, 950 m., 03.06.2007, HA 5582, Ir.-Tur.

Lactuca mulgedioides (Vis. & Pan ic) Boiss. & Kotschy ex Boiss. "muş marulu", 21, **Quercus** fields, 912 m., 14.05.2006, MUÖ 1969.

L. viminea (L.) J. Presl & C. Presl, "çukurçitliği", 9, rocky slopes, 1580 m., 07.07.2007, MUÖ 2608.

Lapsana communis L. subsp. **intermedia** (M. Bieb.) Hayek var. **intermedia**, "şebrek", 13, cultivated area, 900 m., MV 9530.

Leontodon crispus Vill. subsp. **setulosus** (Hal.) Kupicha, "aslandışi", 34, rocky places, 1630 m, HA 5454.

Picnomon acarna (L.) Cass. "kılçıkdkiken", 30, rocky slopes, 940 m., 13.09.2007, SYO 2971, E. Medit.

Picris hieracioides L. subsp. **hieracioides**, "deli şiro", 44, roadsides, 1250 m, 06.07.2006, SYO 2695, Euro-Sib.

P. pauciflora Willd., "kum şirosu", 34, rocky places, 1670 m, 17.05.2006, HA 5316, E. Medit.

Pilosella hoppeana (Schult.) F.W. Schultz & Sch. Bip. subsp. **testimonialis** (Naegli ex Peter) P.D. Sell & C. West, "saplı tırnakotu", 33, high mountain steppe, 1875 m, 07.07.2006, SYO 2718.

Psephellus mucronifera (DC) Wagenitz, "tülübaş", 46, kayalık alanlar 1385 m, 11.06.2005, Kandemir 6954, **End., LC**, Ir.-Tur.

P. psephelloides (Freyn. & Sint.) Wagenitz, "eğün tülübaşı", 51, kalker kaya çatlakları, 1180 m,

13.06.2004, Kandemir 6088, **End., CR**, Ir.-Tur.

P. pyrrhoblephanus (Boiss.) Wagenitz, "deli tülübaş", 60, edge of stream, rocky places, 1518 m, 05.06.2007, HA 5663 **End., LC**, Ir.-Tur.

Pulicaria dysenterica (L.) Bernh. subsp. **dysenterica**, "yaraotu", 32, stony slopes, 1490 m, MV 9137.

Reichardia dichotoma (Vahl) Freyn, "karasakız", 4, serpentine stony slopes, 915 m, 13.07.2005, MV 9196, Ir.-Tur.

Scorzonera inaequiscapa Boiss. "guzer", 40, steppe, 1565 m., 16.05.2006, HA 5276, **End., LC**.

S. incisa DC. "kanık", 17, **Quercus** fields, 912 m., 14.05.2006, HA 5036, Ir.-Tur.

S. latifolia (Fisch. & C.A. Mey.) DC. var. **latifolia**, "dağsakızı", 66, rocky slopes, 1000 m., 05.07.2007, MUÖ 2594, Ir.-Tur.

S. mollis M. Bieb. subsp. **mollis**, "iskorçına", 53, steppe, 1500 m., 14.05.2006, HA 5066.

S. papposa DC. "tekecan", 49, **Quercus** fields, 1200 m., 15.05.2006, HA 5185, Ir.-Tur.

S. pseudolanata Grossh. "keçimemesi", 40, steppe, 1565 m., 16.05.2006, HA 5278, Ir.-Tur.

S. semicana DC. "kıvrım", 53, serpentine, 1500 m., 14.05.2006, HA 5066a, **End., LC**, Ir.-Tur.

S. tomentosa L. "alabent", 1, stony slopes, 1700 m., 13.07.2005, MV 9264, **End., LC**, Ir.-Tur.

Senecio rasemosus (M. Bieb.) DC. "şiro", 33, high mountain steppe, 1885 m., 11.06.2006, MUÖ 2066, Ir.-Tur.

S. vernalis Waldst. & Kit. "kanarya otu", 33, high mountain steppe, 1885 m., 11.06.2006, MUÖ 2065.

Tanacetum argenteum (Lam.) Willd. subsp. **canum** (K. Koch) Grierson var. **canum**, "bodur pireotu", 66, limestone rock cracks, 1285 m, 13.06.2004, Kandemir 6091.

T. armenum (DC.) Sch. Bip., "kaya papatyası", 33, rocky places, 1900 m., 02.06.2007, HA 5499.

T. densum (Labill) Sch. Bip. subsp. **eginense** Heywood, "fırat pireotu", 46, rocky places, 1663 m, 11.06.2005, HA 5354, **End., NT**.

T. zahlbruckneri (Náb.) Grierson, "özge pireotu", 6, roadsides, rocky slopes, 1320-1690 m, 11.06.2006, MUÖ 2078, **End., LC**, Ir.-Tur.

Taraxacum buttleri Soest, "karahindiba", 34, rocky places, 1670 m., 17.05.2006, HA 5315.

T. microcephaloides Soest, "ebemçitliği", 64, meadows, 1795 m., 25.09.2006, SYO 2846. **End., LC**, Ir.-Tur.

T. montanum (C.A. Mey.) DC. "dağ hindibası", 2,

steppe, 1680 m, 24.09.2006, SYO 2836, Ir.-Tur.

T. scaturiginosum G.E. Haglund, "kivirkivir", 61, rocky slopes, 1300 m., 14.04.2006, MV 9388.

T. serotinum (Waldst. & Kit.) Fisch. 38, roadsides, rocky slopes, 950 m., 15.09.2007, SYO 2984.

T. syriacum Boiss. "çöl çitliğı", 1, stony slopes, 1600 m., 13.07.2005, MV 9254, Ir.-Tur.

Tragopogon porrifolius L. subsp. **longirostris** (Sch. Bip.) Greuter, "helevan", 40, rocky places, 870 m., 15.05.2006, HA 5148.

T. pterocarpus DC. "boz yemlik", 25, serpentine, 1600 m., 03.06.2007, HA 5529, Ir.-Tur.

Tripleurospermum oreades (Boiss.) Rech. f. var. **oreades**, "hoşhoş", 31, meadows, 1200 m., 14.04.2006, MV 9385.

T. sevanense (Manden.) Pobed. "hanım gödesi", 33, high mountain steppe, 1885 m., 11.06.2006, MUÖ 2051.

Xeranthemum annuum L. "kağıtçiçeği", 32, stony slopes, 1190 m., 12.07.2005, MV 9114.

BERBERIDACEAE / KARAMUKGİLLER

Berberis crataegina DC. "karamuk", 55, *Quercus* fields, 1287-1313 m., 14.05.2006, HA 5074.

Leontice leontopetalum L. "kırbaş", 6, roadsides, 1400 m., 13.04.2006, MV 9349.

BORAGINACEAE / HODANGİLLER

Alkanna hirsutissima (Bertol) A. DC. "tüylü havacıva", 28, rocky slopes, 1170 m., 02.07.2007, MUÖ 2478, Ir.-Tur.

A. megacarpa A. DC. "yamaç havacıvası", 6, roadsides, rocky slopes, 1320-1690 m, 11.06.2006, MUÖ 2095, **End., LC**, Ir.-Tur.

Anchusa azurea Mill. var. **azurea**, "sığirdili", 12, roadsides, 08.07.2006, SYO 2761.

A. leptophylla Roem. & Schult. subsp. **leptophylla**, "ballık", 29, rocky slopes, 1500 m., 02.07.2007, MUÖ 2503.

Asperugo procumbens L. "nevazilotu", 55, *Quercus* fields, 1287-1313 m, 14.05.2006, HA 5072, Euro-Sib.

Brunnera orientalis I.M. Johnst. "minik göğce", 13, meadows, 900 m, 15.04.2006, MV 9397, Euro-Sib.

Cerintho minor L. subsp. **auriculata** (Ten.) Domac, "lıvarotu", 44, roadsides, 1252 m, 07.07.2006, SYO 2699.

Echium italicum L. "kurtkuyruğu", 44, roadsides, 1252 m, 07.07.2006, SYO 2691, E. Medit.

Heliotropium europaeum L. "akrep otu", 3, roadsides, 960 m, 24.09.06, SYO 2833, Ir.-Tur.

Macrotomia densiflora (Ledeb.) McBride, "kocaeğnik", 6, rocky slopes, 1686 m, 08.07.2006, SYO 2783, Ir.-Tur.

Moltkia coerulea (Willd.) Lehm. "mavi kesen", 55, steppe, 1287-1313 m, 14.05.2006, HA 5121, Ir.-Tur.

Myosotis alpestris F. W. Schmidt subsp. **alpestris**, "boncukotu", 34, rocky places, 1670 m, 17.05.2006, HA 5314.

M. lithospermifolia Hornem. "taş boncukotu", 55, *Quercus* fields, 1287-1313 m, 14.05.2006, HA 5089.

M. sylvatica Hoffm. subsp. **rivularis** Vestergr. "keleş unutmabeni", 33, meadows, 1870 m, 15.05.2006, HA 5312.

Nonea stenosen Boiss. & Balansa, "sormukotu", 33, calcareous rocky places, 1850 m, 17.05.2006, HA 5331, **End., LC**, Ir.-Tur.

Onosma affinis Hausskn. ex Riedl, "kardeş emziğı", 61, slightly inclined slopes, 1685 m, 13.06.2013, Kandemir 10392, **End., EN**, Ir.-Tur.

O. alborosea Fisch. & C.A. Mey. subsp. **alborosea** var. **alborosea**, "kaya emceğı", 46, rocky places, 1230 m., 05.07.2007, MUÖ 2578, Ir.-Tur.

***O. aff. caerulescens** Boiss. "şincar", 33, rocky places, 1875 m, 07.07.2006, SYO 2720, Ir.-Tur.

O. discedens Hausskn. ex Bornm. "fırat emceğı", 23, serpentine, 1502 m, 12.06.2004, Kandemir 6085, **End., VU**, Ir.-Tur.

O. mollis DC. "divanköşk", 68, 1573 m, 05.07.2005, Kandemir 7029, Ir.-Tur.

***O. aff. obtusifolia** Hausskn. & Sint. ex Rindl. "mera şincarı", 25, serpentine stony slopes, 1400 m, 13.07.2005, MV 9207, **End., EN**, Ir.-Tur.

***O. rechingeri** Riedl. "geç mijmijok", 46, 1385 m, 11.06.2005, Kandemir 6957, **End., LC**, Ir.-Tur.

O. sericea Willd. "kağıt emcek", 28, rocky slopes, 1170 m., 02.07.2007, MUÖ 2462, Ir.-Tur.

O. taurica Willd. var. **taurica**, "emzikotu", 41, *Juniperus* and *Quercus* mixed area, 1530 m, 16.05.2006, HA 5265.

Paracaryum cappadocicum Boiss. & Balansa, "peri çarşağı", 10, under marbled stony slopes, 1582 m., 12.7.2005, ADK 2461, **End., LC**, Ir.-Tur.

P. cristatum (Schreb.) Boiss. subsp. **cristatum**, "ana çarşakotu", 10, stony slopes, *Helichrysum*, *Papaver* arasında, 12.7.2005, ADK 2462, **End., LC**, Ir.-Tur.

P. sintenisii Hausskn. ex Bornm. "eğın çarşağı", 25, serpentine, 1354 m, 12.7.2005, ADK 2459, Ir.-Tur.

Phyllocara aucheri (A.DC.) Guşul. "karadindik", 13, meadows, 900 m, 15.04.2006, MV 9486.

Rindera lanata (Lam.) Bunge var. **lanata**, "yünlü gelin", 2, rocky places, 1686 m, 08.07.2006, SYO 2790.

BRASSICACEAE / TURPGİLLER

Aethionema arabicum (L.) Andr. ex DC. "arap taşçantası", 39, rocky places, 870 m., 15.05.2006, HA 5144.

Ae. armenum Boiss. "taşçantası", 41, *Juniperus* and *Quercus* mixed area, 1030 m., 16.05.2006, HA 5255, Ir.-Tur.

Ae. capitatum Boiss. & Balansa, "başmürselotu", 25, serpentine stony slopes, 1460 m., 13.07.2005, MV 9228, **End., NT.**

Ae. grandiflorum Boiss. & Hohen var. **grandiflorum**, "koca kayagülü", 29, rocky slopes, 1500 m., 02.07.2007, MUÖ 2500, Ir.-Tur.

Ae. iberideum (Boiss.) Boiss. "ak kayagülü", 33 rocky places, 1900 m., 02.06.2007, HA 5502.

Ae. oppositifolium (Pers.) Hedge, "bodur kayagülü", 53, serpentine, 1500 m., 14.05.2006, HA 5064.

Ae. ozbekii Yıld. "özbek kayagülü", 33, steppe, 1885 m., 11.06.2006, MUÖ 2061, **End., EN**, Ir.-Tur.

Ae. spicatum Post, "gül taşçantası", 33, calcareous rocky places, 1870 m, 07.07.2006, SYO 2706.

Alliaria petiolata (M. Bieb.) Cavara & Grande, "sarımsak hardal", 61, rocky slopes, 1300 m., 14.04.2006, MV 9388.

Alyssum alyssoides (L.) L. "deliotu", 13, cultivated area, 900 m., 15.04.2006, MV 9543.

A. armenum Boiss. "ağrı kevkisi", 33, rocky slopes, 1875 m, 07.07.2006, SYO 2726b.

A. condensatum Boiss. & Hausskn. subsp. **flexibile** (Nyár.) T.R. Dudley, "gevrek kuduzotu", 33, high mountain steppe, 1885 m., 11.06.2006, MUÖ 2056.

A. filiforme Nyár. "telli kevkisi", 67, meadows and rocky places, 950 m., 03.06.2007, HA 5573, **End., LC**, Ir.-Tur.

A. macropodium Boiss. & Balansa var. **macropodium**, "saplı kevkisi", 57, rocky places, 1800 m., 08.06.2007, HA 5612, **End., LC**, Ir.-Tur.

A. pateri Nyár subsp. **pateri**, "kanatlı kevkisi", 69, rocky slopes, 860 m., 03.07.2007, MUÖ 2508, **End., LC**, Ir.-Tur.

A. sibiricum Willd. "kedidili", 23, serpentine, 1500 m., 20.04.2004, Kandemir 6862.

A. strigosum Banks & Sol. subsp. **strigosum**, "dökük kuduzotu", 17, *Quercus* fields, 912 m., 14.05.2006, HA 5052.

A. szovitsianum Fisch. & C.A. Mey. "çar kuduzotu", 55, *Quercus* fields, 1287-1313 m., 14.05.2006, HA 5101.

***A. trichostachyum** Rupr, "sülün kevkisi", 70, meadows, 2238 m., 04.06.2007, HA 5647.

A. xanthocarpum Boiss. "dalsız kevkisi", 53, serpentine, 1500 m., 14.05.2006, HA 5065.

Arabis alpina L. subsp. **alpina**, "kaz teresi", 11, rocky slopes, 1150 m., HA 5206.

A. nova Vill. "tıfıl kazteresi", 4, roadsides, 1400 m., 13.04.2006, MV 9356.

Barbarea auriculata Hausskn. ex Bornm. var. **auriculata**, "kulaklı nicarotu", 46, 1589 m., 11.06.2005, Kandemir 6961, **End., CR.**

B. plantaginea DC. "götlezgötü", 5, rocky places, 1343 m., 06.06.2007, HA 5669.

Brassica elongata Ehrh. "uzun şalgam", 69, rocky slopes, 860 m., 03.07.2007, MUÖ 2519, Ir.-Tur.

Camelina laxa C. A. Mey. "eğri ketentere", 66, rocky slopes, 1000 m., 05.07.2007, MUÖ 2590.

C.rumelica Velen, "ketentere", 71, meadows, 1520 m., 02.06.2007, HA 5508.

Capsella bursa-pastoris (L.) Medik. "çobançantası", 55, *Quercus* fields, 1287-1313 m., 14.05.2006, HA 5073.

Choriospora tenella (Pall.) DC. "kokar külünk", 33 rocky places, 1900 m., 02.06.2007, HA 5493.

Clypeola aspera (Grauer) Turrill, "kıllı akçeotu", 33, rocky places, 1630 m., 02.06.2007, HA 5446, Ir.-Tur.

C. jonthlaspi L. "akçeotu", 52, rocky places, 890 m., 04.07.2007, MUÖ 2562.

Coluteocarpus vesicaria (L.) Holmboe subsp. **vesicaria**, "patarık otu", 42, *Quercus* fields, 1530 m., 16.05.2006, HA 5263, Ir.-Tur.

Conringia clavata Boiss. "topuztelkari", 55, *Quercus* fields, 1287-1313 m., 14.05.2006, HA 5111.

C. planisiliqua Fisch. & C.A. Mey. "telkariotu", 25, serpentine, 1600 m., 03.06.2007, HA 5548, Ir.-Tur.

Draba bruniifolia Steven subsp. **bruniifolia**, "kaya dolaması", 71, slopes, 1520 m., 02.06.2007, HA 5525.

D. nuda (Bélanger) Al-Shahbaz & M. Koch, "cıbıl dolama", 6, rocky slopes, 1481 m., 16.05.2006, HA 5286, Ir.-Tur.

D. rigida Willd. var. **rigida**, "diri dolama", 11, rocky slopes, 1150 m., 15.05.2006, HA 5207.

***Erysimum leucanthemum** (Stephan ex Willd.) B. Fedtsch. "bayır zarifesi", 25, serpentine, 1600 m., 03.06.2007, HA 5536.

E. pycnophyllum J. Gay, "yamaç zarifesi", 53, serpentine, 1500 m., 14.05.2006, HA 5068, Ir.-Tur.

E. sintenianum Bornm. "köşeli zarifeotu", 70, meadows, 2238 m., 04.06.2007, HA 5646, **End., LC**, Ir.-Tur.

E. smyrnaeum Boiss. & Balansa, "zeybek zarifesi", 69, rocky slopes, 860 m., 03.07.2007, MUÖ 2511.

E. uncinatifolium Boiss. "dadaş zarifeotu", 70, meadows, 2238 m., 04.06.2007, HA 5646a, Euro-Sib.

Fibigia clypeata (L.) Medik. var. **eriocarpa** (DC.) Post, "sikkeotu", 14, roadsides, 1270 m., 14.05.2006, MV 9540.

F. macrocarpa (Boiss.) Boiss. "koca sikkeotu", 61, stony slopes, 1280 m., 12.07.2005, MV 9173.

Hesperis bicuspidata (Willd.) Poir, "gecemenekşesi", 34, rocky places, 1630 m., 02.06.2007, HA 5443, **End., LC**, Ir.-Tur.

H. thyrsoides Boiss. "salkım akşamyıldızı", 43, rocky places, 1400 m., 15.05.2006, HA 5231, Ir.-Tur.

***Isatis kotschyana** Boiss. & Hohen. "cilo çiviotu", 4, roadsides, 1400 m., 13.04.2006, MV 9347, Ir.-Tur.

I. undulata Aucher ex Boiss. "etekli çiviotu", 28, rocky slopes, 1400 m., 02.07.2007, MUÖ 2486, **End., EN**, Ir.-Tur.

Iberis simplex DC. "civanotu", 53, serpentine stony slopes, 1500 m., 14.05.2006, HA 5063.

Lepidium draba L. "diğnik", 14, roadsides, 1270 m., 14.05.2006, MV 9545.

Microthlaspi perfoliatum (L.) F.K. Mey. "giyle", 13, meadows, 900 m., 15.04.2006, MV 9392.

Myagrum perfoliatum L. "üçodaotu", 69, rocky slopes, 860 m., 03.07.2007, MUÖ 2512.

Nasturtium officinale R. Br. "suteresi", 33, meadows, 1900 m., 06.06.2007, HA 5678.

Neslia paniculata (L.) Desv. subsp. **thracica** (Velen.) Bornm. "göçmen hardalı", 17, *Quercus* fields, 912 m., 14.05.2006, HA 5054.

Physocardamum angustifolium (Hausskn. ex Bornm.) Kandemir, "seyyah otu", 34, rocky places and slopes, 1670 m., 17.05.2006, **End., CR**, Ir.-Tur.

***Physoptychis haussknechtii** Bornm., "gezertere", 25, serpentine stony slopes, 1460 m., 13.07.2005, MV 9223, **End., EN**, Ir.-Tur.

Raphanus raphanistrum L. subsp. **raphanistrum**,

"eşek turpu", 17, *Quercus* fields, 912 m., 14.05.2006, HA 5053.

Rapistrum rugosum (L.) All. "kedi turpu", 69, rocky slopes, 860 m., 03.07.2007, MUÖ 2509.

Ricotia aucheri (Boiss.) B. L. Burttt, "boz cavlak", 16, meadows, 1084 m., 15.05.2006, HA 5136, Ir.-Tur.

Sisymbrium orientale L. "tarla bülbulotu", 12, roadsides, 08.07.2006, SYO 2756.

Sobolewsia clavata (Boiss.) Fenzl, "akyelotu", 50, rocky places, 980 m., 16.05.2006, HA 5307, Ir.-Tur.

Tchihatchewia isaditea Boiss. "allıgelin", 53, serpentine, 1500 m., 14.05.2006, HA 5067, **End., VU**, Ir.-Tur.

CAMPANULACEAE / ÇANÇİÇEĞİGİLLER

Asyneuma amplexicaule (Willd.) Hand.-Mazz. subsp. **amplexicaule** var. **amplexicaule**, "hoşdeğnek", 33, rocky places, 1875 m., SYO 2717.

A. limonifolium (L.) Janch. subsp. **limonifolium**, "tavşanekmeği", 6, roadsides, rocky slopes, 1500 m., 11.06.2006, MUÖ 2087.

A. rigidum (Willd.) Grossh. subsp. **rigidum**, "nujdan", 37, steppe, 1671 m., SYO 2742, Ir.-Tur.

A. virgatum (Labill.) Bornm. subsp. **virgatum**, "çiçeklideğnek", 28, rocky slopes, 1170 m., 02.07.2007, MUÖ 2489.

Campanula conferta A. DC. Ir.-Tur. "saklı çançiçeği", 33, steppe, 1885 m., 11.06.2006, MUÖ 2048.

C. ptarmicifolia Lam. "ters çançiçeği", 74, yol kenarı, 1226 m., 13.06.2004, Kandemir 6099, **End., VU**, Ir.-Tur.

C. rapunculoides L. "elmacık", 12, roadsides, 08.07.2006., SYO 2762, Euro-Sib.

C. strigillosa Boiss. "peri çingırağı", 25, stony slopes, serpentine, 1460 m., 13.07.2006, MV 9224, **End., LC**, E. Medit.

C. strigosa Banks & Sol. "kıraç çanı", 4, rocky slopes, 1040 m., HA 5300.

C. yildirimlii Kit Tan & Sorger, "yiğit çingırağı", 61, stony slopes, 960 m., 14.09.2007, SYO 2980, **End., EN**.

CANNABACEAE / KENEVİRĞİLLER

Celtis planchoniana K.I.Chr. "dahum", 4, serpentine stony slopes, 915m., 13.07.2005, MV 9201.

C. tournefortii Lam. "dardağan", 27, cultivated area, 1143 m., 02.07.2007, MK 1968.

CAPRIFOLIACEAE / HANİMELİĞİLLER

Centranthus longiflorus Steven subsp. **longiflorus**, "mahmuzçiçeği", 39, rocky places, 870 m., 15.05.2006, HA 5153, Ir-Tur.

Cephalaria speciosa Boiss. & Kotschy, "yıldız pelemiri", 63, rocky slopes, 1360 m., 14.09.2007, SYO 2972, **End., LC**, Ir-Tur.

Lonicera etrusca Santi var. **etrusca**, "dokuzdon", 12, *Quercus* fields, 08.07.2006., SYO 2751, E. Medit.

L. nummularifolia Jaub. & Spach subsp. **nummularifolia**, "tavşançili", 28, rocky slopes, 1170 m., 02.07.2007, MUÖ 2492.

Morina persica L. var. **persica**, "merdivençiçeği", 66, rocky slopes, 1000 m., 05.07.2007, MUÖ 2590a, Ir-Tur.

Ptercephalus pinardii Boiss. "yurt cüçükotu", 25, serpentine stony slopes, 1400 m., 13.07.2005, MV 9220, **End., LC**, E. Medit.

Scabiosa columbularia L. subsp. **columbularia**, "uyuzotu", 67, rocky places, 950 m., 03.06.2007, HA 5585.

S. crinita Kotschy & Boiss. "sarıpuk", 61, stony slopes, 1280 m., 12.07.2005, MV 9165, Ir-Tur.

S. rotata M. Bieb., "top uyuzotu", 28, rocky slopes, 1400 m., 02.07.2007, MUÖ 2459, Ir-Tur.

Valeriana dioscoridis Sm. "çobanzurnası", 14, roadsides, 1270 m., 14.05.2006, MV 9566, E. Medit.

V. officinalis L. "kediotu", 17, *Quercus* fields, 912 m., 14.05.2006, HA 5034.

Valerianella coronata (L.) DC. "taçlı kuzugevreği", 55, *Quercus* fields, 1287-1313 m., 14.05.2006, HA 5086.

V. dactylophylla Boiss. & Hohen. "el kuzugevreği", 39, rocky places, 870 m., 15.05.2006, HA 5158, Ir-Tur.

V. pumila (L.) DC. "bağ kuzugevreği", 34, rocky places, 1630 m., 02.06.2007, HA 5479.

V. vesicaria (L.) Moench, "kuzugevreği", 17, *Quercus* fields, 912 m., 14.05.2006, HA 5043.

CARYOPHYLLACEAE / KARANFİLGİLLER

***Arenaria antitaurica** McNeill. "kaya kumotu", 55, rocky places, 1715 m., 09.07.2006., SYO 2800, **End., LC**.

A. kotschyana Fenzl subsp. **kotschyana**, "niğde kumotu", 33, rocky places, 1875 m, 07.07.2006, SYO 2726, **End., LC**.

A. serpyllifolia L. subsp. **leptoclados** (Rchb.) Nyman. "kuru kumotu", 49, *Quercus* fields, 1200 m., 15.05.2006, HA 5201.

Cerastium brachypetalum Pers. subsp. **roeseri** (Boiss. & Heldr.) Nyman, "gevşek boynuzotu", 17, *Quercus* fields, 912 m., 14.05.2006, HA 5018, E. Medit.

C. dichotomum L. subsp. **dichotomum**, "çatal boynuzotu", 17, *Quercus* fields, 912 m., 14.05.2006, HA 5023.

C. dichotomum L. subsp. **inflatum** (Link) Cullen, "patlak boynuzotu", 16, meadows, 1084 m., 15.05.2006, HA 5132.

C. perfoliatum L. "ekin boynuzotu", 55, *Quercus* fields, 1300 m., 14.05.2006, HA 5070.

Eremogone ledebouriana (Fenzl) Ikonn. "iğne kumotu", 39, rocky places, 870 m, 15.05.2006, HA 5157, **End., LC**, Ir-Tur.

***E. macrantha** (Schischk.) Ikonn. "yamaç kumotu", 44, rocky places, 1400 m., 15.05.2006, HA 5222, Ir-Tur.

***Dianthus carmelitarum** Reut. ex Boiss. 48, "samsu", rocky slopes, 1025 m., 10.06.2006, MUÖ 2026, **End., LC**, Euro-Sib.

D. crinitus Sm. var. **crinitus**, "uzunçanak", 23, serpentine, 1467 m., 05.07.2005, Kandemir 7009.

D. floribundus Boiss. "kırk karanfil", 8, *Quercus* fields, 1225 m., 05.07.2007, MUÖ 2589, Ir-Tur.

D. masmeneus Boiss. var. **glabrescens** Boiss. "etek karanfili", 44, rocky places, 1252 m., 06.07.2006, SYO 2696, **End., LC**, Ir-Tur.

D. orientalis Adams, "yar karanfili", 48, rocky slopes, 1025 m., 10.06.2006, MUÖ 2042.

Minuartia juniperina (L.) Maire & Petitm. "hanım şiltesi", 25, rocky slopes, 1170 m., 02.07.2007, MUÖ 2491.

M. hamata (Hauskn.) Mattf. "koruotu", 17, *Quercus* fields, 912 m., 14.05.2006, HA 5042.

Paronychia cataonica Chaudhri, "gürün etyarani", 8, under *Juniperus oxycedrus*, 964 m., 15.05.2006, HA 5180, **End., VU**.

P. kemaliya Chaudri, "eğin etyarani", 8, under *Juniperus oxycedrus*, 964 m., 15.05.2006, HA 5177, **End., EN**.

P. kurdica Boiss. subsp. **kurdica** var. **kurdica**, "boz kepekotu", 25, serpentine slopes, 1460 m., 13.07.2006, MV 9215.

Petrorhagia cretica (L.) P.W. Ball & Heywood, "ada zarçiçeği", 21, rocky slopes, 1130 m., 04.07.2007, MUÖ 2545.

Saponaria prostrata Willd. subsp. **anatolica** Hedge, "ana sabunotu", 26, rocky slopes, 1380 m., 04.07.2007, MUÖ 2554, **End., LC**, Ir-Tur.

Silene ampullata Boiss. "hoş kıyışak", 44, rocky places, 1400 m., 15.05.2006, HA 5230, Ir.-Tur.

S. capitellata Boiss. "kavuklu nakıl", 34, rocky places, 1670 m., 17.05.2006, HA 5316, **End., LC**, Ir.-Tur.

S. compacta Fisch. ex Hornem. "kanlıbasıraotu", 21, rocky slopes, 1130 m., 04.07.2007, MUÖ 2543.

S. conoidea L. "şivananotu", 17, *Quercus* fields, 912 m., 14.05.2006, HA 5057.

S. laxa Boiss. & Kotschy, "gevşek simotu", 4, rocky places, 1040 m., 16.05.2006, HA 5289, Ir.-Tur.

S. montbretiana Boiss. "fay nakılı", 11, rocky places, 1150 m., 15.05.2006, HA 5210, Ir.-Tur.

S. nerimaniae G.E. Genç, A. Kandemir & İ. Genç, "sultan nakılı", 24, serpentine slopes, 1502 m., 12.05.2005, İ. Genç 481, **End., VU**, Ir.-Tur.

S. odontopetala Fenzl, "kunduzotu", 11, rocky places, 1150 m., 15.05.2006, HA 5219.

S. spergulifolia (Desf.) M.Bieb. "ana nakıl", 3, roadsides, steppe, 1090 m., 12.06.2006, MUÖ 2100, Ir.-Tur.

***S. viscosa** Pers. "konya gıvışkanı", 66, hareketli, taşlı yamaçlar, 1285 m., 05.07.2005, Kandemir 7039.

S. vulgaris (Moench) Garcke var. **commutata** (Guss.) Coode & Cullen, "ecibübü", 17, *Quercus* fields, 912 m., 14.05.2006, HA 5019.

Telephium imperati L. subsp. **orientale** (Boiss.) Nyman, "zulzula", 33, stony slopes, 1490 m., 12.07.2005, MV 9133.

CELESTRACEAE / İĞAĞACIĞİLLER

Parnassia palustris L. "yürek yaprağı", 61, roadsides, 1000 m., 15.09.2007, SYO 2981.

CISTACEAE / LADENCIĞİLLER

Fumana procumbens (Dunal) Gren. & Godr. "yer güneşotu", 25, serpentine, 1600 m., 03.06.2007, HA 5547.

Helianthemum nummularium (L.) Mill. subsp. **nummularium**, "güngülü", 56, rocky slopes, 1287-1313 m., 14.05.2006, HA 5118.

H. ledifolium (L.) Mill. "kuru güngülü", 72, 1046 m., 27.04.2005, Kandemir, 6872.

CLEOMACEAE / SAÇAKGÜLÜCIĞİLLER

Cleome ornithopodioides L. "taş saçakgülü", 25, stony slopes, serpentine, 1460 m., 13.07.2006, MV 9212, E. Medit.

COLCHICACEAE / ACIÇIĞDEMCIĞİLLER

Colchicum szovitsii Fisch. & C.A. Mey. subsp. **szovitsii**, "katır çiğdemi", 34, rocky places, 1650 m., 14.04.2006, MV 9377, Ir.-Tur.

CONVOLVULACEAE

TARLASARMAŞIĞIĞİLLER

***Calystegia silvatica** (Kit.) Griseb. "büyük", 3, edge of stream, 860 m., 03.07.2007, MK 1973.

Convolvulus arvensis L. "tarla sarmaşığı", 33, steppe, 1885 m., 11.06.2006, MUÖ 2057.

C. galaticus Rost. ex Choisy, "boz sarmaşık", 38, roadsides, 1875 m., 07.07.2006, SYO 2732, Ir.-Tur.

C. holosericeus M. Bieb. subsp. **holosericeus**, "gündüz sefası", 28, rocky slopes, 1200 m., 02.07.2007, MUÖ 2484.

C. pseudoscammonia K. Koch, "sarı yayılganı", 25, serpentine stony slopes, 1400 m., 13.07.2005, MV 9206, **End., LC**, Ir.-Tur.

***C. scammonia** L. "bingözotu", 29, rocky slopes, 1500 m., 02.07.2007, MUÖ 2505, E. Medit.

Cuscuta palaestina Boiss. "arap cinsacı", 62, roadsides, 950 m., SYO 2769.

CORNACEAE / KIZILCIKCIĞİLLER

Cornus sanguinea L. subsp. **australis** (C.A. Meyer) Jáv. "kansığdiren", 13, cultivated area, 900 m., 15.04.2006, MV 9508, Euro-Sib.

CRASSULACEAE / DAMKORUĞUĞİLLER

Promethium sempervivoides (Fischer ex M. Bieb.) H. Ohba, "horozlelesi", 65, high mountain steppe, 2150 m., 07.07.2007, MUÖ 2597a.

***Rosularia libanotica** (Strand ex L.) Samuelsson, "arap kayakoruğu", 38, rocky places, 1400-1640 m., 11.06.2006, MUÖ 2070, E. Medit.

***R. radicliflora** (Steud. ex Boiss.) Borissova subsp. **glabra** (Bornm.) Chamberlain & Muirhead, "bodur kayakoruğu", 50, rocky places, 870 m., 16.05.2006, HA 5309, Ir.-Tur.

Sedum album L. "çoban kavurgası", 48, rocky slopes, 1025 m., 10.06.2006, MUÖ 2022.

***S. hispanicum** L. "damkoruğu", 49, *Quercus* fields, 1200 m., 15.05.2006, HA 5193, Ir.-Tur.

S. pallidum M. Bieb. "koyunörmece", 8, under *Juniperus oxycedrus*, 964 m., 15.05.2006, HA 5176, Euro-Sib.

CUCURBITACEAE / KABAKCIĞİLLER

Bryonia multiflora Boiss. & Heldr. "ülüngür", 44, rocky places, 1400 m., 15.05.2006, HA 5234, Ir.-Tur.

CYPERACEAE / HASIROTUĞİLLER

Eleocharis acicularis (L.) Roem. & Schult. var. **acicularis**, "cücesaz", 4, meadows, 900 m., 15.04.2006, MV 9335.

Scirpoides holoschoenus (L.) Sojak subsp. **holoschoenus**, "vurla", 14, damp area, 1270 m.,

14.05.2006, MV 9517.

ELAEAGNACEAE / İĞDEGİLLER

Elaeagnus angustifolia L. var. *angustifolia*, "iğde", 14, roadsides, 1270 m., 14.05.2006, MV 9495.

EUPHORBIACEAE / SÜTLEĞENGİLLER

Euphorbia cheiradenia Boiss. & Hohen. "şirker", 33, steppe, 1885 m., 11.06.2006, MUÖ.2062, Ir.-Tur.

E. condylocarpa M. Bieb. "gijiletri", 17, *Quercus* fields, 912 m., 14.05.2006, HA 5016.

E. denticulata Lam. "karasütlük", 34, rocky places, 1630 m., 02.06.2007, H.A 5447, Ir.-Tur.

FABACEAE / BAKLAGİLLER

Astragalus acicularis* Bunge, "iğne geveni", 25, serpentine, 1600 m., 03.06.2007, HA 5535, **End., LC, Ir.-Tur.

A. anthylloides Lam. "torbalı geven", 42, steppe, 1468 m., 04.06.2007, HA 5637, Ir.-Tur.

A. ascicalyx Bunge, "külâh geveni", 33, high mountain steppe, 1885 m., 11.06.2006, MUÖ 2055, Ir.-Tur.

A. cadmicus Boiss. "baba geveni", 34, rocky places, 1670 m., 17.05.2006, HA 5319, **End., LC**.

A. densifolius Lam. subsp. *densifolius*, "gümüüş geven", 33, high mountain steppe, 1885 m., 11.06.2006, MUÖ 2052, Ir.-Tur.

A. elongatus Willd. subsp. *elongatus*, "yazı yoncası", 57, rocky places, 1800 m., 03.06.2007, HA 5623.

A. fragrans Willd., "mis geven", 33, meadows, 1900 m., 06.06.2007, HA 5682.

A. lineatus Lam. var. *longidens* (Freyn) Matthews, "patpat", 70, meadows, 2238 m., 04.06.2007, HA 5648, Ir.-Tur.

A. pendulus DC. "sırık geveni", 11, rocky slopes, 1150 m., 15.05.2006, HA 5216, Ir.-Tur.

A. pseudocylindraceus Boiss., "karasu geveni", 34, stony slopes, 1605 m., 13.06.2013, Kandemir 10395, **End., CR**, Ir.-Tur.

A. psoraloides Lam. "bayburt geveni", 23, serpentine, 1500 m., 10.06.2005, Kandemir 6845, Ir.-Tur.

A. tigridis Boiss. "dicle geveni", 56, rocky places, 14.05.2006, HA 5105, Ir.-Tur.

A. xylobasis Freyn & Bornm. "kemaliye geveni", 4, rocky places, 1040 m., 16.05.2006, HA 5290, Ir.-Tur.

Cicer bijugum Rech. f. "pitrak nohut", 55, *Quercus* fields, 1287-1313 m., 14.05.2006, HA 5096, Ir.-Tur.

Colutea cilicica Boiss. & Balansa, "patlangaç", 14, roadsides, damp area, 970 m., 14.05.2006, MV 9570.

Coronilla scorpioides (L.) W.D.J. Koch. "akrep burçağı", 8, under *Juniperus oxycedrus*, 964 m., 15.05.2006, HA 5161.

**Dorycinum graecum* (L.) Ser. "ak kaplanotu", 58, 1550 m., 05.07.2005, Kandemir 7021, Euro-Sib.

D. pentaphyllum Scop. subsp. *anatolicum* (Boiss.) Gams, "kaplanotu", 14, roadsides, damp area, 970 m., 14.05.2006, MV 9479.

Ebenus haussknechtii Bornm. ex Hub.-Mor. "Harput morgeveni", 1, stony slopes, 1600 m., 13.08.2005, MV 9258, **End., NT**, Ir.-Tur.

E. laguroides Boiss. "morgeven", 19, rocky places, 850 m., 16.05.2006, HA 5311, **End., LC**, Ir.-Tur.

Genista aucheri Boiss. "bayır borcağı", 39, rocky places, 870 m., 15.05.2006, HA 5140, **End., LC**, Ir.-Tur.

G. albida Willd. "ak borcak", 28, rocky slopes, 1170 m., 02.07.2007, MUÖ 2474.

Hedysarum candidissimum Freyn, "hoş bataalağı", 33, meadows, 1900 m., 06.06.2007, HA 5683, **End., NT**, Ir.-Tur.

H. pogonocarpum Boiss. "taş bataalağı", 73, calcareous rocky places, 950 m., 10.06.2006, MUÖ.2020, **End., LC**.

H. varium Willd. subsp. *varium*, "batalak", 9, rocky slopes, 1580 m., 07.07.2007, MUÖ 2607.

Lathyrus brachypterus elak, "yemelik", 34, rocky places, 1670 m., 17.05.2006, HA 5312, **End., LC**.

L. sativus L. "mürdümük", 34, rocky places, 1630 m., 02.06.2007, HA 5464, E. Medit.

Lens culinaris Medik. subsp. *orientalis* (Boiss.) Ponert, "yasmık", 67, rocky places, 950 m., 03.06.2008, HA 5595.

Lotus corniculatus L. var. *alpinus* Ser. "gazalboynuzu", 31, meadows, 970 m., 15.09.2007, SYO 2983.

L. gebelia Vent. var. *anthylloides* Boiss. "gül gazalboynuzu", 73, calcareous rocky places, 950 m., 10.06.2006, MUÖ.2021, **End., NT**, Ir.-Tur.

Medicago coronata (L.) Bartol, "gevşek yonca", 17, *Quercus* fields, 912 m., 14.05.2006, HA 5039, E. Medit.

M. crassipes (Boiss.) E. Small, "hançer yoncası", 4, under *Juniperus oxycedrus*, 964 m., 15.05.2006, HA 5173 Ir.-Tur.

M. minima (L.) Bartol var. *minima*, "gurnik", 69,

stony slopes, 860 m., 03.07.2007, MUÖ 2513.

M. monantha (C.A. Mey.) Trautv. "dağ gurniği", 25, serpentine, 1600 m., 03.06.2007, HA 5558a, Ir.-Tur.

M. monspeliaca (L.) Trautv. "bayır gurniği", 67, rocky places, 950 m., 03.06.2007, HA 5592, E. Medit.

M. radiata L. "hilal yonca", 4, under *Juniperus oxycedrus*, 964 m., 15.05.2006, HA 5167, Ir.-Tur.

M. sativa L. subsp. **sativa**, "karayonca", 28, rocky slopes, 1170 m., 02.07.2007, MUÖ 2469.

M. rigidula (L.) All. var. **rigidula**, "kaba yonca", 25, serpentine, 1600 m., 03.06.2007, HA 5558.

Melilotus albus Desr. "ak taşyoncası", 52, in the valley, rocky places, 850 m., 06.07.2007, MUÖ 2595.

M. officinalis (L.) Desr. "kokulu yonca", 14, roadsides, damp area, 900 m., 14.05.2006, MV 9520.

Onobrychis cornuta (L.) Desv. "kuşkaçırın", 33, meadows, 1600 m., 02.06.2007, HA 5486, Ir.-Tur.

O. galegifolia Boiss. "darp korungası", 4, serpentine slopes, 915 m., 13.07.2005, MV 9198, Ir.-Tur.

O. oxydonta Boiss. var. **armena** (Boiss. & Huet.) Aktoklu, "kır korungası", 6, rocky slopes, 1320-1690 m., 11.06.2006, MUÖ 2086.

O. oxydonta Boiss. var. **oxydonta**, "kır korungası", 34, rocky places, 1630 m., 02.06.2007, HA 5436.

Ononis spinosa L. subsp. **leiosperma** (Boiss.) irj. "demirdelen", 33, high mountain steppe, 1875 m., 07.07.2006, SYO 2738.

Pisum sativum L. subsp. **elatius** (M. Bieb.) Aschers. & Graebn. var. **elatius**, "boylu bezelye", 17, *Quercus* fields, 912 m., 14.05.2006, HA 5037.

Robinia pseudoacacia L. "yalancı akasya", 14, roadsides, damp area, 900 m., 14.05.2006, MV 9553.

***Securigera cretica** (L.) Lassen, "ada körügeni", 42, steppe, 1468 m., 04.06.2007, HA 5639, E. Medit.

S. orientalis (Mill.) Lassen subsp. **orientalis**, "ala körügen", 14, roadsides, damp area, 970 m., 14.05.2006, MV 9490.

Trifolium campestre subsp. **campestre** Schreb. "üçgül", 13, meadows, 900 m., 15.04.2006, MV 9513.

T. pratense L. var. **pratense**, "çayır üçgülü", 31, meadows, 1200 m., 14.04.2006, MV 9391.

T. purpureum Lois. var. **purpureum**, "mor üçgül", 17, *Quercus* fields, 912 m., 14.05.2006, HA 5046.

Trigonella spicata Sibth. & Sm. "başak boyotu", 56, roadsides, 1794 m., 05.06.2007, HA 5653.

T. spruneriana Boiss. "koç boynuzotu", 13, meadows, 900 m., 15.04.2006, MV 9549.

T. strangulata Boiss. "düğmeli boyotu", 67, meadows and rocky places, 950 m., 03.06.2007, HA 5589.

T. velutina Boiss., "ipek boyotu", 8, under *Juniperus oxycedrus*, 964 m., 15.05.2006, HA 5165.

Vicia cracca L. subsp. **stenophylla** Vel. "meşe fiği", 39, rocky places, 870 m., 15.05.2006, HA 5141.

V. lathyroides L. "çamfiği", 13, meadows, 900 m., 15.04.2006, MV 9539.

V. sativa L. subsp. **sativa**, "fiğ", 8, under *Juniperus oxycedrus*, 964 m., 15.05.2006, HA 5040.

V. sericocarpa Fenzl var. **sericocarpa**, "çitfiği", 8, under *Juniperus oxycedrus*, 964 m., 15.05.2006, HA 5048.

FAGACEAE / KAYINGİLLER

Quercus brantii Lindl. "karameşe", 39, rocky places, 870 m., 15.05.2006, HA 5155, Ir.-Tur.

Q. cerris L. "saçlımeşe", 15, *Quercus* fields, 1100 m., 23.09.06, SYO 2810, E. Medit.

Q. infectoria Oliv. subsp. **veneris** (A. Kern.) Meikle, "zindiyen", 15, *Quercus* fields, 1200 m., 23.09.06, SYO 2811.

Q. libani Oliv. "lübnan meşesi", 39, rocky places, 870 m., 15.05.2006, HA 5159, Ir.-Tur.

Q. pubescens Willd. "tüylü meşe", 15, *Quercus* fields, 1100 m., 23.09.06, SYO 2816.

GENTIANACEAE / GENTİYANGİLLER

Centaurium erythraea Rafn. subsp. **turcicum** (Velen.) Melderis, "tukulotu", 52, inner valley, rocky places, 850 m., 06.07.2007, MUÖ 2596.

Gentiana olivieri Griseb. "afat", 71, meadows, 1520 m., 02.06.2007, HA 5509, Ir.-Tur.

GERANIACEAE / TURNAGAGASIGİLLER

Geranium purpureum Vill. "ebedön", 52, rocky places, 890 m., 06.07.2007, MUÖ 2563.

G. pyreanicum Burnm. f. "geliçarşafı", 14, roadsides, 1270 m., 14.05.2006, MV 9536.

G. tuberosum L. "çakmuz", 18, rocky places, 915 m., 13.04.2006, MV 9338, Ir.-Tur.

HYPERICACEAE / KANTARONGİLLER

Hypericum perforatum L. subsp. **perforatum**,

"kantaron", 30, steppe, 1031m., 30.5, 06.07.2006, SYO 2681.

H. peshmenii Yıld., "şah lantaronu", 79, side of mill, limestone rocky crevices, 1100 m., 20.08.2013, Kandemir 10473, **End., CR**, Ir.-Tur.

H. pseudolaeva N. Robson, "keşiş kantaronu", 8, *Quercus* fields, 1225 m., 05.07.2007, MUÖ 2581, Ir.-Tur.

H. scabrum L. "karahasançayı", 39, rocky places, 870 m., 15.05.2006, HA 5146, Ir.-Tur.

H. thymopsis Boiss. "darende kantaronu", 25, stony slopes, 1460 m., 13.07.2005, MV 9219, **End., NT**, Ir.-Tur.

IRIDACEAE / SÜSENGİLLER

Crocus biflorus Mill. subsp. **tauri** (Maw) B. Mathew, "berfan", 6, rocky places, 1680 m., 13.04.2006, MV 9343, Ir.-Tur.

C. kotschyanus K. Koch subsp. **cappadocicus** B. Mathew, "peri çiğdemi", 64, meadows, 1912 m., 25.09.2006, SYO 2845, **End., NT**, Ir.-Tur.

C. pallasii Goldb. subsp. **pallasii**, "güzçimi", 34, rocky places, 1630 m., 23.09.2006, SYO 2822.

Gladiolus atroviolaceus Boiss. "kıraç süseni", 34, rocky places, 1630 m., 02.06.2007, HA 5440, Ir.-Tur.

G. italicus Mill. "kılıçotu", 13, meadows, 900 m., 15.04.2006, MV 9516.

G. kotschyanus Boiss. "çayır kılıçotu", 25, serpentine slopes, 1400 m., 13.07.2005, MV 9204, Ir.-Tur.

Iris caucasica Hoffm. subsp. **turcica** B. Mathew, "türk navruzu", 33, calcareous rocky places, 1850 m., 17.05.2006, HA 5324, Ir.-Tur.

I. persica L. "buzala", 6, roadsides, 1400 m., 13.04.2006, MV 9348, Ir.-Tur.

I. reticulata M. Bieb. var. **reticulata**, "karakörpeze", 34, rocky places, 1650 m., 14.04.2006, MV 9380, Ir.-Tur.

I. sari Schott ex Baker, "ana kurtkulağı", 55, steppe, 1300 m., 14.05.2006, HA 5092, **End., LC**, Ir.-Tur.

IXIOLIRIACEAE / KÖPEKOTUGİLLER

***Ixiolirion tataricum** (Pall.) Schult. & Schult.f. var. **tataricum**, "köpekotu", 13, meadows, 900 m., 15.04.2006, MV 9571, Ir.-Tur.

JUGLANDACEAE / CEVİZGİLLER

Juglans regia L. "ceviz", 13, cultivated area, 900 m., 15.04.2006, MV 9497.

JUNCACEAE / KOFAGİLLER

Juncus articulatus L. subsp. **articulatus**,

"camişotu", 69, stony slopes, 860 m., 03.07.2007, MUÖ 2518, Euro-Sib.

LAMIACEAE / BALLIBABAGİLLER

Ajuga chamaepitys (L.) Schreb. subsp. **chia** (Schreber) Arcangeli var. **chia**, "acıgıcı", 55, *Quercus* fields, 1287-1313 m., 14.05.2006, HA 5097.

Clinopodium serypyllifolium (M. Bieb.) Kuntze subsp. **brachycalyx** (P.H. Davis) Brauchler, "şarşarçayı", 51, limestone rock cracks, 1570 m., 05.07.2005, Kandemir 7027, E. Medit.

Cyclotrichium niveum (Boiss.) Manden & Scheng. "külötu", 45, rocky places, 1150 m., 12.07.2005, MV 9161, **End., VU**, Ir.-Tur.

Eremostachys moluccelloides Bunge, "benli sultan", 61, stony slopes, 1280 m., 12.07.2005, MV 9174, Ir.-Tur.

Lamium album L. subsp. **crinitum** (Montbret & Aucher ex Benth.) Mennema, "kovanlık", 33, meadows, 1600 m., 02.06.2007, HA 5487, Euro-Sib.

L. amplexicaule L. var. **amplexicaule**, "baltutan", 38, rocky slopes, 1650 m., 14.04.2006, MV 9368.

L. garganicum L. subsp. **striatum** (Sm.) Hayek var. **striatum**, "tel balıcağ", 33, meadows and rocky places, 1600 m., 02.06.2007, HA 5487.

L. orientale (Fisch. & C.A. Mey.) E.H.L. Krause, "güzcelce", 17, *Quercus* fields, 912 m., 14.05.2006, HA 5022, Ir.-Tur.

L. purpureum L. var. **purpureum**, "ballıbaba", 13, meadows, 900 m., 15.04.2006, MV 9393., Euro-Sib.

Marrubium astracanicum Jacq. subsp. **astracanicum**, "mor yayotu", 33, high mountain steppe, 1885 m., 11.06.2006, MUÖ 2063.

M. parviflorum Fisch. & C.A. Mey. subsp. **oligodon** (Boiss.) Seybold, "küllü bozotu", 74, roadsides, 1794 m., 05.06.2007, HA 5659, **End., LC**.

Mentha spicata L. subsp. **spicata**, "eşek nanesi", 12, edge of streams, 08.07.2006, SYO 2759.

Micromeria cremnophila Boiss. & Heldr. subsp. **anatolica** P.H. Davis, "taş boğumcuğu", 46, rocky places, 1230 m., 05.07.2007, MUÖ 2579, **End., LC**, Ir.-Tur.

***M. elliptica** K. Koch, "kaya yarpuzu", 32, stony slopes, 1490 m., 12.07.2006, MV 9142, Euro-Sib.

M. myrtifolia Boiss. & Hohen, "boğumlu çay", 25, stony slopes, 1460 m., 13.07.2006, MV 9242.

Nepeta italica L. "eşekçayı", 32, stony slopes, 1190 m., 12.07.2006, MV 9122, E. Medit.

- N. nuda** L. subsp. **albiflora** (Boiss.) Gams, "karaküncü", 32, stony slopes, 1190 m., 12.07.2006, MV 9108.
- Origanum** aff. **acutidens** (Hand.-Mazz) letsw. "zemul", 25, stony slopes, 1460 m., 13.07.2006, MV 9237, **End., LC**, Ir.-Tur.
- O. vulgare** L. subsp. **gracile** (K. Koch) letsw. "kuş zemulu", 62, rocky places, 1100 m., 08.07.2006, SYO 2770, Ir.-Tur.
- Phlomis armeniaca** Willd. "boz şavlak", 48, edge of streams, rocky slopes, 1025 m., 10.06.2006, MUÖ 2034, **End., LC**, Ir.-Tur.
- P. capitata** Boiss. "çöl çayı", 61, stony slopes, 1280 m., 12.07.2006, MV 9167, **End., LC**, Ir.-Tur.
- P. kurdica** Rech. f. "gubel", 62, rocky places, 1150 m., 08.07.2006, SYO 2768, Ir.-Tur.
- P. oppositiflora** Boiss. & Hausskn. "has çalba", 32, stony slopes, 1490 m., 12.07.2006, MV 9147, **End., LC**, Ir.-Tur.
- P. pungens** Willd. var. **hirta** Velen, "silvanok", 2, rocky slopes, 1686 m., 08.07.2006, SYO 2786.
- Salvia caespitosa** Montbret & Aucher ex Benth. "kırk şalba", 46, rocky places, 1230 m., 05.07.2007, MUÖ 2574, **End., LC**, Ir.-Tur.
- S. candidissima** Vahl subsp. **candidissima**, "galabor", 6, roadsides, rocky slopes, 1320-1690 m., 11.06.2006, MUÖ 2097, Ir.-Tur.
- S. hypargeia** Fisch. & C.A. Mey. "siyahot", 42, steppe, 1468 m, 04.06.2007, HA 5638, **End., LC**, Ir.-Tur.
- S. multicaulis** Vahl, "kürt reyhanı", 14, roadsides, damp area, 900 m., 14.05.2006, MV 9502, Ir.-Tur.
- S. sclarea** L. "paskulak", 77, rocky slopes, 900 m., 12.06.2006, MUÖ 2107.
- S. staminea** Montbret & Aucher ex Benth. "erkek şalba", 44, rocky places, 1400 m., 15.05.2006, HA 5221, Ir.-Tur.
- S. verticillata** L. subsp. **amasiaca** (Freyn & Bornm.) Bornm. "hart şalbası", 30, steppe, 1031m., 06.07.2006, SYO 2687, Ir.-Tur.
- Scutellaria orientalis** L. subsp. **orientalis**, "sarı kaside"41, mixed *Juniperus and Quercus* area, 1030 m., 16.05.2006, HA 5253, Ir.-Tur.
- S. orientalis** L. subsp. **hausknechtii** (Boiss.) J.R. Edm. "saçaklı kaside", 42, mixed *Juniperus and Quercus* area, 1530 m., 16.05.2006, HA 5271, **End., LC**, Ir.-Tur.
- S. salviifolia** Benth. "has kaside", 42, mixed *Juniperus and Quercus* area, 1030 m., 16.05.2006, HA 5251, **End., LC**.
- Sideritis montana** L. subsp. **montana**, "karaçay", 20, rocky slopes, 1270 m., 04.07.2007, MUÖ 2527, E. Medit.
- Stachys annua** (L.) L. subsp. **annua** var. **annua**, "haciosmanotu", 71, meadows, 1520 m., 02.06.2007, HA 5518.
- S. annua** (L.) L. subsp. **annua** var. **lycaonica** R. Bhattacherjee, "haciosmanotu", 69, stony slopes, 860 m., 03.07.2007, MUÖ 2515, Ir.-Tur.
- S. burgsdorffioides** (Benth.) Boiss. subsp. **ladanoides** Hand.-Mazz. "eğin karabaşı", 25, serpentine stony slopes, 1460 m., 13.07.2005, MV 9211, **End., NT**, Ir.-Tur.
- S. cretica** L. subsp. **anatolica** Rech. f. "yağlıkara", 32, stony slopes, 1450 m., 12.07.2006, MV 9126, **End., LC**, Ir.-Tur.
- S. lavandulifolia** Vahl, "tüylüçay", 33, rocky places, 1845 m., 05.07.2007, MUÖ 2566.
- Teucrium chamaedrys** L. subsp. **syspirense** (K. Koch) Rech.f. "sıcakotu", 32, stony slopes, 1490 m., 12.07.2005, MV 9145, Ir.-Tur.
- T. leucophyllum** Montbret & Aucher ex Benth. "buldumcuk", 80, above canyon, calcareous rocky places, 1314 m, 02.07.2014, Kandemir n.s., **End., LC**, Ir.-Tur.
- T. multicaule** Montbret & Aucher ex Benth. "haptutan", 17, *Quercus* fields, 912 m., 14.05.2006, H.A 5024, Ir.-Tur.
- T. orientale** L. var. **puberulens** Ekim, "kirveotu", 20, rocky slopes, 1270 m., 04.07.2007, MUÖ 2542, Ir.-Tur.
- T. polium** L. subsp. **polium**, "acıyavşan", 32, stony slopes, 1190 m., 12.07.2005, MV 9106.
- Thymus cappadocicus** Boiss. "taş kekiği", 25, stony slopes, 1460 m., 13.07.2006, MV 9222, **End., LC**, Ir.-Tur.
- T. convolutus** Klokov, "eğin kekiği", 35, calcareous rocky places, 1866 m, 11.07.2013, Kandemir 10452, **End., EN**, Ir.-Tur.
- T. hausknechtii** Velen. "fırat kekiği", 69, stony slopes, 860 m, 03.07.2007, MUÖ 2523, **End., NT**, Ir.-Tur.
- T. leucotrichus** Hal. var. **leucotrichus**, "dağ kekiği", 33, high mountain steppe, 1885 m., 11.06.2006, MUÖ 2058.
- T. kotschyanus** Boiss. & Hohen var. **kotschyanus**, "kekik", 32, stony slopes, 1190 m., 12.07.2006, MV 9109, Ir.-Tur.
- T. migricus** Klokov & Des.-Shost. "peynir kekiği", 65, high mountain steppe, 2150 m., 07.07.2007,

MUÖ 2598, Ir.-Tur.

T. sipyleus Boiss. "sipil kekiği", 61, stony slopes, 1280 m., 12.07.2005, MV 9179.

Ziziphora capitata L. "anuk", 17, *Quercus* fields, 912 m., 14.05.2006, H.A 5035.

Z. clinopodioides Lam. "dağ reyhanı", 61, stony slopes, 1280 m., 12.07.2005, MV 9170, Ir.-Tur.

Z. persica Bunge, "kara reyhan", 25, serpentine, 1600 m., 03.06.2007, HA 5530, Ir.-Tur.

LILIACEAE / ZAMBAĞİLLER

Fritillaria imperialis L. "ağlayan gelin", 44, rocky places, 1400 m., 15.05.2006, HA 5250, Ir.-Tur.

F. pinardii Boiss. "mahcup lale", 6, rocky places, 1680 m., 13.04.2006, MV 9341, Ir.-Tur.

Gagea taurica Steven, "bozkır yıldızı", 34, rocky places, 1650 m., 14.04.2006, MV 9375, Ir.-Tur.

Tulipa armena Boiss. var. **armena**, "dağ lalesi", 5, rocky places, 915 m., 13.04.2006, MV 9332, Ir.-Tur.

LINACEAE / KETENGİLLER

Linum bienne Mill. "deli keten", 33, rocky places, 1900 m., 02.06.2007, HA 5496.

L. catharticum L. "arsız keten", 62, steppe, 1200 m., 08.07.2006, SYO 2766.

L. flavum L. subsp. **scabrinerve** (P.H. Davis) P.H. Davis, "kaba çimit", 42, steppe, 1468 m., 04.06.2007, HA 5632, **End., LC**, Ir.-Tur.

L. mucronatum Bertol. subsp. **mucronatum**, "sarı keten", 34, rocky slopes, 1400-1640 m., 11.06.2006, MUÖ 2071.

L. nodiflorum L. "yaban keten", 47, rocky slopes, 858 m., 27.06.2006, MUÖ 2105, E. Medit.

LYTHRACEAE / AKLAROTUGİLLER

Lythrum salicaria L. "hev hulma", 4, serpentine stony slopes, 915 m., 13.07.2005, MV 9185, Euro-Sib.

MALVACEAE / EBEGÜMECİGİLLER

Alcea apterocarpa (Fenzl) Boiss. "gülfatma", 48, rocky slopes, 1025 m., 10.06.2006, MUÖ 2031, Ir.-Tur.

A. digitata (Boiss.) Alef. "boy lu hatmi", 6, roadsides, rocky slopes, 1090 m., 12.06.2006, MUÖ 2102, Ir.-Tur.

A. excubita Iljin, "amervans", 69, rocky slopes, 860 m., 03.07.2007, MUÖ 2522, Ir.-Tur.

Malva neglecta Wallr. "çobançöreği", 33, high mountain steppe, 1885 m., 11.06.2006, MUÖ 2067.

***Tilia rubra** DC. subsp. **caucasica** (Rupr.) V. Engl. "felamur", 13, cultivated area, 15.04.2006, MV 9510, Euro-Sib.

MORACEAE / DUTGİLLER

Morus alba L. "ak dut", 4, serpentine stony slopes, 1060 m., 13.07.2005, MV 9235.

OLEACEAE / ZEYTINGİLLER

Jasminum fruticans L. "boruk", 4, serpentine stony slopes, 915 m., 13.07.2005, MV 9199, E. Medit.

Fraxinus angustifolia Vahl. subsp. **angustifolia**, "sivri dişbudak", 14, roadsides, 1270 m., 14.05.2006, MV 9567.

F. angustifolia Vahl. subsp. **syriaca** (Boiss.) Yalt., "suriye dişbudağı", 4, roadsides, 1138 m., 08.07.2006, SYO 2775, Ir.-Tur.

Syringa vulgaris L. "leylak", 54, roadsides, 861 m., 04.06.2007, HA 5623.

ONAGRACEAE / YAKIOTUGİLLER

Epilobium hirsutum L. "hasanhüseyin çiçeği", 63, damp area, 1360 m., 14.09.2007, SYO 2973.

ORCHIDACEAE / SALEPGİLLER

Cephalanthera damasonium (Mill.) Druce, "orman kuşçuğu", 55, *Quercus* fields, 1287-1313 m., 14.05.2006, HA 5080, Euro-Sib.

C. kotschyana Renz & Taubenheim, "koç salebi", 17, *Quercus* fields, 912 m., 14.05.2006, HA 5031, **End., LC**.

C. longifolia (L.) Fritsch, "kuğu salebi", 42, mixed *Juniperus* and *Quercus* area, 1530 m., 16.05.2006, HA 5266, Euro-Sib.

Dactylorhiza iberica (M. Bieb. ex Willd.) Soó, "kırım salebi", 61, edge of stream, 1500 m., 07.07.2007, MUÖ 2614, E. Medit.

D. osmanica (Klinge) P.F. Hunt & Summerh. var. **osmanica**, "osmanlı salebi", 14, damp area, 1270 m., 14.05.2006, MV 9455, **End., LC**, Ir.-Tur.

Ophrys oestriifera M. Bieb. subsp. **oestriifolia**, "sinek salebi", 42, mixed *Juniperus* and *Quercus* area, 1530 m., 16.05.2006, HA 5078.

O. phrygia H. Fleischm. & Bornm. "yunus salebi", 4, meadows, 1040 m., 16.05.2006, HA 5305, Ir.-Tur.

Orchis mascula (L.) L. subsp. **pinetorum** (Boiss. & Kotschy) G. Camus, "çam salebi", 42, mixed *Juniperus* and *Quercus* area, 1530 m., 14.05.2006, HA 5274, E. Medit.

O. punctulata Steven ex Lindley, "selef", 42, mixed *Juniperus* and *Quercus* area, 1530 m., 16.05.2006, HA 5267, E. Medit.

OROBANCHACEAE / CANAVAROTUGİLLER

Bunaea trifida (Vahl) C.A. Meyer, "üç kernekotu", 56, meadows, 1715 m., 09.07.2006, SYO 2796, Ir.-Tur.

Orobanche caryophyllacea Sm. "kokulu süpürgeotu", 42, *Juniperus* and *Quercus* mixed area, 1530 m., 16.05.2006, HA 5268.

***Parentucellia latifolia** (L.) Caruel subsp. **flaviflora** (Boiss.) Hand.-Mazz, "sarı üçdilotu", 49, *Quercus* fields, 1200 m., 15.05.2006, HA 5194.

PAEONIACEAE / AYIGÜLÜGİLLER

Paeonia arietina G. Anderson, "şakayık", 35, stony places, 1875 m, 07.07.2006, SYO 2735.

PAPAVERACEAE / HAŞHAŞGİLLER

Corydalis alpestris C.A. Mey. "gök kazgagası", 6, roadsides, 1400 m., 13.04.2006, MV 9365, Euro-Sib.

Fumaria asepalia Boiss. "ak şahtere", 17, *Quercus* fields, 912 m., 14.05.2006, HA 5025, Ir.-Tur.

F. officinalis L. subsp. **officinalis**, "şahtere", 55, *Quercus* fields, 1287-1313 m., 14.05.2006, HA 5071.

Hypocoum pseudograndiflorum Petrovic, "hidrellezotu", 17, *Quercus* fields, 912 m., 14.05.2006, HA 5030.

Glaucium leiocarpum Boiss. "gavurhaşhaşı", 49, *Quercus* fields, 1200 m., 15.05.2006, HA 5199.

G. acutidentatum Hausskn. & Bornm. "tavukgötü", 1, stony slopes, 1600 m., 13.07.2006, MV 9249, **End., LC**, Ir.-Tur.

Papaver acrochaetum Bornm. "pıtçık", 28, rocky slopes, 1400 m., 02.07.2007, MUÖ 2496, Ir.-Tur.

***P. argemone** L. subsp. **argemone**, "kum haşhaşı", 55, *Quercus* fields, 1287-1313 m., 14.05.2006, HA 5110.

P. cylindricum Cullen, "kabırcık", 62, rocky places, 960 m., 08.07.2006, SYO 2773, Ir.-Tur.

P. dubium L. subsp. **dubium**, "köpekyacağı", 17, *Quercus* fields, 912 m., 14.05.2006, HA 5056.

P. fugax Poir. var. **fugax**, "gelingülü", 25, serpentine, 1600 m., 03.06.2007, HA 5546.

P. glaucum Boiss. & Hausskn. ex Boiss. "şekşekik", 14, roadsides, 1270 m., 14.05.2006, MV 9505, Ir.-Tur.

P. persicum Lindl. subsp. **persicum** Boiss., "acem gelinçiçeği", 30, steppe, 940 m., 13.09.2007, SYO 2965.

P. rhoeas L. 55, rocky slopes, "gelincik", 1300 m., 14.05.2006, HA 5115.

P. triniifolium Boiss. "titrekızım", 20, stony slopes, 1270 m., 04.07.2007, MUÖ 2538, **End., LC**, Ir.-Tur.

PHYLLANTHACEAE / DUVARNOHUTUGİLLER

Andrachne telephioides L. "duvarnohutu", 49, *Quercus* fields, 1200 m., 15.05.2006, HA 5186.

PLANTAGINACEAE / SİNİROTUGİLLER

Anarrhinum orientale Benth. "süpürgeotu", 28, rocky slopes, 1400 m., 02.07.2007, MUÖ 2461, Ir.-Tur.

Globularia trichosantha Fisch. & C.A. Mey. subsp. **trichosantha**, "köse yayılımı", 6, rocky slopes, 1400 m., 13.04.2006, MV 9362.

Hippuris vulgaris L. "kurakkuyruğu", 76, slough, 1724 m., 15.09.2007, SYO 2989.

***Linaria armeniaca** Chav. "doğu nevrüzotu", 55, *Quercus* fields, 1287-1313 m., 14.05.2006, HA 5093, Ir.-Tur.

L. genistifolia (L.) Mill. subsp. **genistifolia**, "som nevrüzotu", 44, rocky places, 1400 m., 15.05.2006, HA 5227, Euro-Sib.

Veronica anagallis-aquatica L. "sudegemesi", 13, meadows, 900 m., 15.04.2006, MV 9558a.

V. bozakmanii M.A. Fisch. "bozakman mavişi", 13, meadows, 900 m., 15.04.2006, MV 9558, Ir.-Tur.

V. macrostachya Vahl subsp. **mardinensis** (Bornm.) M.A. Fisch. "mardin mavişi", 55, *Quercus* fields, 1287-1313 m., 14.05.2006, HA 5081, **End., VU**, Ir.-Tur.

V. multifida L. "devesabunu", 8, under *Juniperus oxycedrus*, 964 m., 15.05.2006, HA 5181, Ir.-Tur.

PLATANACEAE / ÇINARGİLLER

Platanus orientalis L. "çınar", 14, roadsides, 1270 m., 14.05.2006, MV 9493.

PLUMBAGINACEAE / KARDİKENİGİLLER

Acantholimon acerosum (Willd.) Boiss. subsp. **acerosum**, "pisik keveni", 69, stony slopes, 860 m., 03.07.2007, MUÖ 2520, Ir.-Tur.

Limoniopsis owerinii (Boiss.) Lincz. "eğin kuduzotu", 51, kalker kayalık, 1570 m., 05.07.2005, Kandemir 7028, Ir.-Tur.

POACEAE / BUĞDAYGİLLER

Alopecurus vaginatus (Willd.) Kunth, "benekli tilkikuyruğu", 33, calcareous rocky places, 1850m., 17.05.2006, HA 5326.

Bromus japonicus Thunb. subsp. **japonicus**, "iyeotu", 60, edge of stream, 1500 m, 07.07.2007, MUÖ 2613.

Dactylis glomerata L. subsp. **hispanica** (Roth) Nyman, "kıllı domuz ayrığı", 14, roadsides, 1270 m., 14.05.2006, MV 9524.

Heterantherium piliferum (Banks. & Sol.) Hochst. "çorakarpası", 38, roadsides, 1400-1640 m., 11.06.2006, MUÖ 2072, Ir.-Tur.

Hordeum bulbosum L. "boncuk arpa", 14, roadsides, 1270 m., 14.05.2006, MV 9564.

Koeleria pyramidata (Lam.) P. Beauv. "kırnal",

65, high mountain steppe, 2150 m, 07.07.2007, MUÖ 2602, Euro-Sib.

Melica ciliata L. subsp. **ciliata**, "kirpikli inci", 32, stony slopes, 1490 m., 12.07.2005, MV 9134.

M. persica Kunth subsp. **jacquemontii** (Decne. ex Jacqem.) P.H. Davis, "çayır inciotu", 33, steppe, 1875 m., 07.07.2006, SYO 2725, Ir.-Tur.

Oryzopsis holciforme (M. Bieb.) Hack. var. **holciformis**, "kadife piriçotu", 14, steppe, 1270 m., 14.05.2006, MV 9509.

Pennisetum orientale Rich. "fiskiyeotu", 25, serpentine slopes, 1460 m., 13.07.2005, MV 9208, Ir.-Tur.

Poa bulbosa L. "yumrulu salkım", 28, rocky slopes, 1400 m., 02.07.2007, MUÖ 2472.

P. pratensis L. "çayır salkımotu", 34, rocky places, 1630 m., 02.06.2007, HA 5440a.

P. sterilis M. Bieb. "köse salkımotu", 28, rocky slopes, 1400 m., 02.07.2007, MUÖ 2471.

P. trivialis L. "kaba salkımotu", 32, stony slopes, 1490 m., 12.07.2005, MV 9134a.

Stipa ehrenbergiana Trin. & Rupr. "sorguçotu", 8, under *Juniperus oxycedrus*, 964 m., 15.05.2006, HA 5184, Ir.-Tur.

Taeniatherum caput-medusae (L.) Nevski subsp. **crinitum** (Schreb.) Melderis, "kılçık arpası", 69, stony slopes, 860 m, 03.07.2007, MUÖ 2514, Ir.-Tur.

POLYGALACEAE / SÜTOTUGİLLER

Polygala pruinosa Boiss. subsp. **pruinosa**, "puslu sütotu", 67, meadows and rocky places, 950 m., 03.06.2007, HA.5577.

POLYGONACEAE / MADIMAKGİLLER

Rumex acetosella L. "kuzukulağı", 34, rocky slopes, 1400-1640 m., 11.06.2006, MUÖ 2073.

PRIMULACEAE / ÇUHAÇIÇEĞİGİLLER

Androsace maxima L. "tavukkursağı", 67, meadows and rocky places, 950 m., 03.06.2007, HA 5590.

RANUNCULACEAE / DÜĞÜNÇIÇEĞİGİLLER

Adonis flammea Jacq. "cinlalesi", 17, *Quercus* fields, 912 m., 14.05.2006, HA 5026.

Aquilegia olympica Boiss. "hasekiküpesi", 61, rocky places, 1310 m., 17.05.2006, HA 5335.

Consolida scleroclada (Boiss.) Schrödinger var. **rigida** (Freyn & Sint.) P.H. Davis, "sert mahmuz", 46, rocky places, 1230 m., 05.07.2007, MUÖ 2570.

Delphinium albiflorum DC. "ak hezaren", 37, steppe, 1671 m., 07.07.2006, SYO 2740.

Eranthis hyemalis (L.) Salisb. "sarıkokulu", 33,

meadows, 1910 m., 05.05.2005, Kandemir 6882.

Nigella oxypetala Boiss. "fırat çörekotu", 28, rocky slopes, 1400 m., 02.07.2007, MUÖ 2495, Ir.-Tur.

N. nigellastrum (L.) Willk. "cücüm", 28, rocky slopes, 1170 m., 02.07.2007, MUÖ 2465.

Ranunculus constantinopolitanus (DC.) d'Urv. "kağıthane çiçeği", 34, rocky slopes, 1650 m., 14.04.2006, MV 9381.

R. arygreus Boiss. "çitemik", 55, steppe, 1300 m., 14.05.2006, HA 5113.

R. arvensis L. "mustafaçiçeği", 17, *Quercus* fields, 912 m., 14.05.2006, HA 5020

R. pinardii (Steven) Boiss. "gazyağıotu", 34, rocky places, 1670 m., 17.05.2006, HA 5320, Ir.-Tur.

R. kochii Ledeb. "karçiçeği", 34, rocky slopes, 1650 m., 14.04.2006, MV 9378, Ir.-Tur.

Thalictrum isopyroides C.A. Mey. "karakatranotu", 50, rocky places, 1200 m., 16.05.2006, HA 5306, Ir.-Tur.

RESEDACEAE / GERDANLIKİLLER

Reseda armena Boiss. var. **scabridula** Abdullah & de Wit, "has gerdanlık", 23, serpentine, 1467 m., 05.07.2005, Kandemir 7008, **End., EN.** Ir.-Tur.

R. lutea L. var. **lutea**, "muhabbet çiçeği", 8, under *Juniperus oxycedrus*, 964 m., 15.05.2006, HA 5178.

RHAMNACEAE / CEHRİGİLLER

Paliurus spina-christii P. Mill. "karaçalı", 24, steppe, 990 m., 15.05.2006, HA 5671.

Rhamnus cathartica L. "akdiken", 33, rocky places, 1182 m., 23.09.06, SYO 2830, Euro-Sib.

ROSACEAE / GÜLGİLLER

Cerasus mahaleb (L.) Mill. var. **mahaleb**, "mahlep", 13, meadows, 900 m., 15.04.2006, MV 9395.

C. microcarpa (C.A. Meyer) Boiss. subsp. **tortuosa** (Boiss. & Hausskn.) Browicz, "sarıdağ kirazı", 45, stony slopes, 1150 m., 12.07.2005, MV 9159, Ir.-Tur.

Cotoneaster nummularius Fisch. & C.A. Mey. "dağ muşmulası", 7, steppe, 1485 m., 24.09.06, SYO 2838.

Crataegus orientalis Pallas ex M. Bieb. var. **orientalis**, "alıç", 6, rocky places, 24.09.2006, SYO 2834.

C. orientalis Pallas ex M. Bieb. var. **szowitsii** (Pojark.) K.I.Chr. "koyun alıcı", 32, rocky places, 1182 m., 23.09.2006, SYO 2826, Ir.-Tur.

C. meyeri Pojark, "roğuk", 63, rocky places, 1364 m., 25.09.2006, SYO 2842.

***Fragaria vesca** L. "dağ çileği", 13, meadows, 900

m., 15.04.2006, MV 9396, Euro-Sib.

Geum urbanum L. "meryemotu", 44, rocky places, 1400 m., 15.05.2006, HA 5232, Euro-Sib.

Malus sylvestris (L.) Mill. subsp. **orientalis** (Uglitzk.) Browicz var. **orientalis**, "ekşi elma", 13, meadows, 900 m., 15.04.2006, MV 9496.

***Potentilla** aff. **micrantha** Ramond ex DC. "cüce parmakotu", 65, high mountain steppe, 2150 m., 07.07.2007, MUÖ 2599.

P. recta L. "su parmakotu", 48, edge of stream, rocky slopes, 1025 m., 10.06.2006, MUÖ 2035.

P. reptans L. "reşatinotu", 43, cultivated area, 1277 m., 10.06.2006, MUÖ 2045.

P. speciosa Willd. "kaya parmakotu", 63, rocky slopes, 1360 m., 14.09.2007, SYO 2978.

P. supina L. "yer parmakotu", 69, stony slopes, 860 m., 03.07.2007, MUÖ 2507.

Prunus divericata Ledeb. var. **divericata**, "yunus eriği", 44, roadsides, 1252 m., 06.07.2006, SYO 2702.

Pyrus elaeagnifolia Pall. subsp. **elaeagnifolia**, "ahlat", 44, roadsides, 1252 m., 06.07.2006, SYO 2701.

P. elaeagnifolia Pall. subsp. **kotschyana** (Boiss.) Browicz, "dağ armudu", 64, roadsides, 1912 m., 25.09.2006, SYO 2849.

Rosa foetida J. Herrm. "acemsarı", 13, meadows, 900 m., 15.04.2006, MV 9555, Ir-Tur.

R. orientalis A. Dupont ex DC. "askergülü", 38, roadsides, 1875 m., 07.07.2006, SYO 2713, Ir-Tur.

Rubus sanctus Schreb. "böğürtlen", 30, roadsides, 1031m., 06.07.2006, SYO 2682.

Sangiosorba minor Scop. subsp. **minor**, "çayır düğmesi", 13, meadows, 900 m., 15.04.2006, MV 9533.

Spiraea crenata L. subsp. **crenata**, "keçisakalı", 20, rocky slopes, 1270 m., 04.07.2007, MUÖ 2541.

Sorbus torminalis (L.) Crantz var. **torminalis**, "pitlicen", 30, roadsides, 1031m., 06.07.2006, SYO 2688.

S. umbellata Fritsch, "geyikeması", 1, stony slopes, 1600 m., 13.07.2005, MV 9253.

RUBIACEAE / KÖKBOYAGİLLER

Asperula arvensis L. "tarla belumotu", 17, **Quercus** fields, 912 m., 14.05.2006, HA 5058, E. Medit.

A. involucrata Wahlenb. "akça belumotu", 16, meadows, 1084 m., 15.05.2006, HA 5130, Euro-Sib.

Callipeltis cucullaris (L.) Steven, "nermik", 34,

rocky places, 1630 m., 02.06.2007, HA 5472, Ir-Tur.

Crucianella gilanica Trin. subsp. **kotschy** (Ehrend.) Ehrend. "eğin haçotu", 28, rocky slopes, 1400 m., 02.07.2007, MUÖ 2490, Ir-Tur.

Cruciata taurica (Pall. ex Willd.) Ehrend. "kırim güzeli", 11, rocky slopes, 1150 m., 15.05.2006, HA 5211, Ir-Tur.

Galium ceratocarpon Boiss. "kırkgöz iplikçiği", 11, rocky slopes, 1150 m., 15.05.2006, HA 5209, **End., NT**, Ir-Tur.

G. hypoxylon Ehrend. & Schönb.- Tem. "keşiş iplikçiği", 33, steppe, 1885 m., 11.06.2006, MUÖ 2059, **End., VU**, Ir-Tur.

G. incanum Sm. subsp. **elatius** (Boiss.) Ehrend. "gür iplikçik", 29, rocky slopes, 1500 m., 02.07.2007, MUÖ 2504, Ir-Tur.

G. margaceum Ehrend. & Schönb.-Tem. "saman iplikçiği", 34, rocky places, 1630 m., 02.06.2007, HA 5468, **End., LC**.

G. spurium L. subsp. **spurium**, "arsız iplikçik", 39, rocky places, 870 m., 15.05.2006, HA 5149, Euro-Sib.

SALICACEAE / SÖĞÜTGİLLER

Populus nigra L. subsp. **nigra**, "karakavak", 14, roadsides, 1270 m., 14.05.2006, MV 9498.

P. tremula L. subsp. **tremula**, "titrek kavak", 15, roadsides, 23.09.2006, SYO 2817, Euro-Sib.

Salix x fragilis L. "gevrek söğüt", 13, cultivated area, 900 m., 15.04.2006, MV 9529, Euro-Sib.

S. pseudomedemii E. Wolf, "kara söğüt", 14, roadsides, 1270 m., 14.05.2006, MV 9548, Euro-Sib.

SANTALACEAE / GÜVELEKGİLLER

Chrysothecium cilicicum (Hauskn. ex Bornm.) Hendrych, "Toros güveleği" 33, rocky places, 1900 m., 02.06.2007, HA 5504, **End., NT**, E. Medit.

SAPINDACEAE / AKÇAAĞAÇGİLLER

***Acer monspessulanum** L. subsp. **microphyllum** (Boiss.) Bornm. "buruk akçaağaç", 11, rocky places, 1150 m., 15.05.2006, HA 5205.

A. tataricum L. subsp. **tataricum**, "tatar akçaağacı", 12, cultivated area, 900 m, MV 9528.

SCROPHULARIACEAE / SIRACAOTUGİLLER

Verbascum calycosum Hauskn ex Murb. "kalan siğirkuyruğu", 23, serpentine, 1502 m., 12.06.2004, Kandemir 6086, **End., CR**, Ir-Tur.

V. cherianthifolium Boiss. var. **asperulum** (Boiss.) Murb. "bozkulak", 25, serpentine, 1000 m., 15.05.2006, HA 5782.

V. leiocarpum Murb. "gürbüz sığırkuyruğu", 52, rocky places, 890 m., 06.07.2007, MUÖ 2561, **End., VU**, Ir.-Tur.

V. orientale (L.) All. Subsp. **orientale**, "ibrahimotu", 28, rocky slopes, 1400 m., 02.07.2007, MUÖ 2452, E. Medit.

V. tuna-ekimii Karavel. "ekim sığırkuyruğu", 6, rocky slopes, 1400 m., 11.06.2006, MUÖ 2096, **End., VU**, Ir.-Tur.

Scrophularia libanotica Boiss. subsp. **armena** R.R. Mill. "kayaçekemi", 49, *Quercus* fields, 1200 m., 15.05.2006, HA 5387, **End., NT**, Ir.-Tur.

Scrophularia subaeqiloba Lall, "munzur sıracası", 25, 950 m, serpentine. 19.05.2013, Kandemir 10320, **End, VU**, Ir.-Tur.

S. umbrosa Dumort, "su kestereotu", 62, roadsides, 08.07.2006, SYO 2765, Euro-Sib.

S. xanthoglossa Boiss. var. **decipiens** (Boiss. & Kotschy) Boiss. "serkele", 56, rocky places, 1715 m., 09.07.2006, SYO 2798, Ir.-Tur.

SOLANACEAE / PATLICANGİLLER

Hyoscyamus niger L. "banotu", 5, rocky places, 1343 m., 06.06.2007, HA 5668.

Solanum dulcamara L. "sofur", 12, roadsides, 970 m., 08.07.2006, SYO 2764, Euro-Sib.

TAMARICACEAE / ILGINGİLLER

Tamarix smyrnensis Bunge, "ılgın", 25, serpentine, 1600 m., 03.06.2007, HA 5551.

T. tetrandra Pall. ex M. Bieb. emend. Willd. "gezik", 69, rocky slopes, 860 m., 03.07.2007, MUÖ 2517.

THYMELAEACEAE / SIYIRCIKGİLLER

Daphne oleoides Schreb. subsp. **oleoides**, "gövçek", 34, rocky places, 1630 m., 02.06.2007, HA 5480.

TYPHACEAE / SAZGİLLER

Typha shuttleworthii W.D.J. Koch & Sond. "puf sazi", 76, wetlands, 1724 m., 15.09.2007, SYO 2988.

ULMACEAE / KARAAĞAÇGİLLER

Ulmus minor Mill. "ova karaağacı", 63, roadsides, 1364 m., 25.09.2006, SYO 2844.

URTICACEAE / ISIRGANGİLLER

Parietaria judaica L. "duvarfesleğeni", 48, rocky slopes, 1025 m., 10.06.2005, MUÖ.2025.

VIOLACEAE / MENEKŞEGİLLER

Viola occulta Lehm. "saklı menekşe", 49, *Quercus* fields, 1200 m., 15.05.2006, HA 5188.

V. odorata L. "kokulu menekşe", 13, meadows, 900 m., 15.04.2006, MV 9390.

XANTHORHOEACEAE / ÇİRİŞGİLLER

Asphodeline damascena (Boiss.) Baker subsp. **damascena**, "çekiçlik", 44, rocky places, 1400 m., 15.05.2006, HA 5242, Ir.-Tur.

A. tenuior (Fisch. ex M. Bieb.) Ledeb subsp. **tenuiflora** (K. Koch) Tuzlacı var. **puberulanta** E. Tuzlacı, "tesbihçik", 23, serpentine, 1467 m., 05.07.2005, Kandemir 7019, **End., VU**, Ir.-Tur.

Eremurus spectabilis M. Bieb. "çiriş", 44, rocky places, 1400 m., 15.05.2006, HA 5244, Ir.-Tur.

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