

## Floristic Characteristics of Beydağı (Malatya)

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**Abstract:** The floristic characteristics of Beydağı are given and the vascular plant species growing there are documented. Beydağı is situated in the south of Malatya province and is in the Irano-Turanian phytogeographical region. The research was carried out between 1986 and 2000. Two thousand one hundred plant specimens were collected from the area. At the end of the study, 873 vascular plant species (897 taxa, 185 subsp., 112 var.) and 357 genera belonging to 73 families were identified: 140 taxa (16.9%) are endemic to Turkey. The phytogeographic elements are represented in the study area as follows: Irano-Turanian 364 (40.44%), Mediterranean 98 (11.1%), and Euro-Siberian 32 (3.7%). Finally, 101 new records were established for the B7 square.

**Key Words:** Vascular plants, Flora, Beydağı, Malatya

### Beydağı'nın (Malatya) Floristik Özellikleri

**Özet:** Bu araştırmada, Beydağı ve çevresinin floristik özellikleri ve burada yetiştiği saptanan damarlı bitki taksonlarının listesi verilmiştir. Beydağı, Malatya'nın güneyinde yer alır ve İran-Turan Bitkicoğrafyası bölgesinde bulunur. Araştırma 1986-2000 yılları arasında yapılmıştır. Yöreden 2100 bitki örneği toplanmıştır. Araştırma sonucu 73 familya ait, 357 cins ve 873 vasküler bitki türü (897 takson, 185 alttür, 112 varyete) saptanmıştır. Taksonlardan 140'ı (% 16.9) Türkiye için endemiktir. Araştırma alanındaki fitocoğrafik elementlerin dağılımı ise şöyledir: İran-Turan 364 (% 40.44), Akdeniz 98 (% 11.1), Avrupa-Sibirya 32 (% 3.7). B7 karesi için 101 yeni kayıt saptanmıştır.

**Anahtar Sözcükler:** Vasküler bitkiler, Flora, Beydağı, Malatya

### Introduction

Malatya is located in the south-east of Turkey. It is at the south-east of the Anatolian Diagonal, which is one of the main endemism centres in Turkey. The province is floristically one of the richest in Turkey. Beydağı is located in the south of Malatya province (Figure 1). It is about 25 km long and 20 km wide. The natural borders of the area are Kozluk stream to the west and Abdulharap brook to the south. The Malatya plain extends along the north side of the mountain. There is no natural border in the east, where it is connected to mounts Kubbe and Türk. The mountain is more or less isolated from its environs. The city centre is at the north foot of the mountain, which meets the Malatya plain. Beydağı is in the Irano-Turanian phytogeographical region. According to the grid square system used in the Flora of Turkey, the mountain is located in square B7. The altitude

is 900 m at the north and east feet and 2550 m at the summit of the mountain. Urbanisation is developing towards the north face of the mountain. Beydağı was selected as a research area because it is an isolated area, in addition to the properties given above.

Some floristic studies have been carried out in Malatya province previously (Yıldız & Aktoklu, 1996a, 1996b). At the same time, detailed studies were performed on the geofits and endemics in Malatya province. In addition, threatened categories of endemics were established based on studies between 1986 and 1996 (Yıldız, 1994; Yıldız & Yiğit, 1996).

No detailed studies have been performed on the flora of Beydağı. However, some plant specimens were collected from the mountain by C. Haussknecht in 1865 and by A. Huber-Morath in the 1950s.

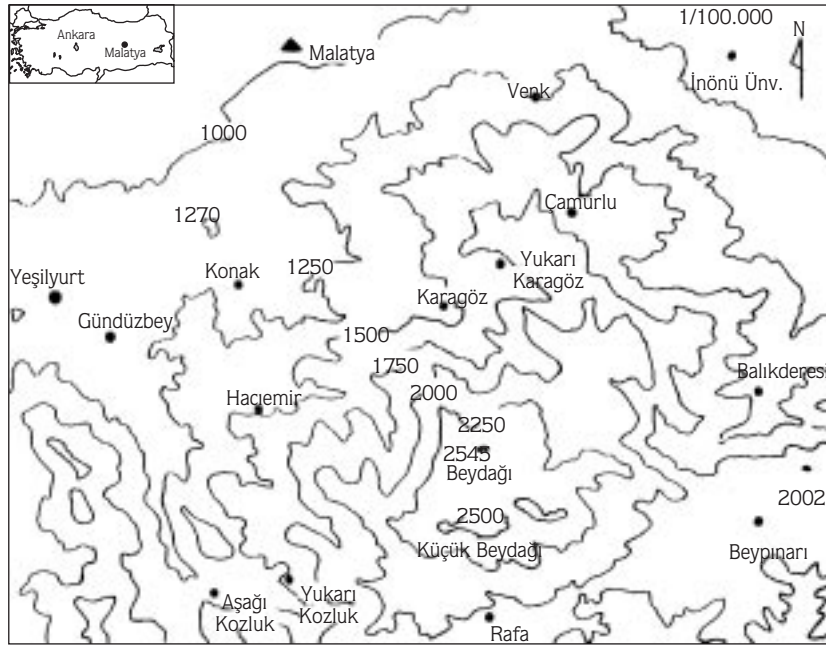


Figure 1. Topographical map of study area.

## Materials and Methods

The materials of this study are 2100 vascular plant specimens collected from Beydağı and its vicinity between 1986 and 2000. Efforts were made to collect both flowering and fruiting specimens. When the specimens were identified the colour slides and photographs taken during the field studies were utilised. The specimens were prepared according to established herbarium techniques. The Flora of Turkey (Davis, 1965-1985; Davis et al., 1988; Güner et al., 2000), other related floras (Komarov, 1934-1960; Tutin et al., 1964-1980; Townsend, 1966-1985; Rechinger, 1967-1988; Bor, 1968) and revisions (İlarslan, 1996; Aytaç, 1997; Yıldırım, 1988; Doğan, 1999) were used for identification of the specimens. Specimens belonging to genera which were difficult to determine were sent to specialists to minimise errors. *Aethionema* L. specimens were determined by Adıgüzel, and some *Poaceae* members by Doğan. All specimens are kept at the Herbarium of İnönü University (Malatya).

The floristic lists were written in the same order as in the Flora of Turkey. Authors of plant names are written according to Authors of Plant Names (Brummitt et al., 1992). Malatya and B7 are not written in the localities since Beydağı is located in Malatya province and in square

B7. The new records for square B7 have been checked against the related literature (Donner, 1990; Altan & Behçet, 1994; Yıldırım, 1994, 1997, 1999, 2000, 2001a, 2001b; Aytaç, 1994; Kaya, 1995; Yıldız & Aytaç, 1995; Behçet, 1996; Yıldız & Aıctoklu 1996a, 1996b; Taşkın et al., 1997). New records for square B7 are shown with an \*. Some words mentioned in the text are abbreviated as follows: Euro-Sib., Euro-Siberian; E. Medit., East Mediterranean; Medit., Mediterranean; Ir.-Tur., Irano-Turanian; BY., Bayram Yıldız; EA., Ekrem Aktoklu; İ. U., İnönü University; s.n., without a number; E., East; N., North; S., South; W., West.

## Results and Discussion

At the end of the studies of the 2100 vascular plant specimens collected from Beydağı, 873 species (897 taxa, 185 subsp., 112 var.) and 357 genera belonging to 73 families were established. Four taxa belong to *Pteridophyta*. One belongs to *Gymnospermae*, while the other 892 are *Angiospermae*. *Dicotyledones* and *Monocotyledons* comprise 751 and 141 taxa, respectively.

Twenty families comprise 740 (716 species) of the 897 taxa established in the research area. In other words

82.2% of the flora of Beydağı consists of species that belong to 20 families. The 20 families that include the majority of the species and the numbers of species which belong to these families are listed in Table 1.

Beydağı is homogeneous and composed mainly of calcareous and steppic areas. There are no woody species on the mountain except for at the edges of fields, vineyards and orchards. In addition the climate affecting Beydağı and its vicinity is uniform. For these reasons, the species belonging to the 20 families listed in Table 1 are dominant in the steppic vegetation. The remaining 53 families, comprising 151 species, are represented by one or a few species in the area and constitute 17.8% of the flora of Beydağı.

About 24% of the species (210 species) belong to 19 genera. These genera and the species belonging to them

are listed in Table 2. However, 340 genera are represented by only one or a few species in the area.

As stated previously, calcareous and steppic areas are common in Beydağı. Therefore, as can be seen from Table 1, the species in these habitats are dominant in the study area. *Astragalus* L. is a mainly steppic genus and has approximately 2500 species world wide. It is one of the largest genera of flowering plants. The estimated number of species in Turkey, which are mainly Irano-Turanian elements, is around 400. Therefore, the area contains by far the greatest number of members of the species. Likewise, *Silene* L., *Salvia* L., *Alyssum* L., *Vicia* L., *Trigonella* L. and *Veronica* L. are mainly steppic genera and these comprise relatively more species.

One relatively large group on Beydağı consists of Irano-Turanian species. The Irano-Turanian element on

Table 1. Species totals of the largest families found in the area.

Families	Taxa number	Species number	Families	Taxa number	Species number
<i>Asteraceae</i>	102	98	<i>Rosaceae</i>	28	28
<i>Fabaceae</i>	88	84	<i>Rubiaceae</i>	21	24
<i>Lamiaceae</i>	66	71	<i>Ranunculaceae</i>	16	16
<i>Poaceae</i>	71	74	<i>Papaveraceae</i>	13	13
<i>Brassicaceae</i>	62	62	<i>Geraniaceae</i>	12	12
<i>Caryophyllaceae</i>	52	55	<i>Euphorbiaceae</i>	11	13
<i>Liliaceae</i>	44	45	<i>Valerianaceae</i>	12	12
<i>Apiaceae</i>	33	33	<i>Hypericaceae</i>	11	11
<i>Boraginaceae</i>	31	31	<i>Campanulaceae</i>	10	10
<i>Scrophulariaceae</i>	30	31	<i>Iridiaceae</i>	9	9
			Total	740	716

Table 2. Species totals of the major genera in the study area.

Genera/Families	Species Number	Genera/Families	Species Number
<i>Astragalus</i> (Fabaceae)	26	<i>Allium</i> (Liliaceae)	10
<i>Silene</i> (Caryophyllaceae)	16	<i>Valerianella</i> (Valerianaceae)	10
<i>Salvia</i> (Lamiaceae)	15	<i>Aethionema</i> (Brassicaceae)	9
<i>Alyssum</i> (Brassicaceae)	11	<i>Euphorbia</i> (Euphorbiaceae)	9
<i>Vicia</i> (Fabaceae)	11	<i>Achillea</i> (Asteraceae)	8
<i>Trigonella</i> (Fabaceae)	11	<i>Scorzonera</i> (Asteraceae)	8
<i>Veronica</i> (Scrophulariaceae)	11	<i>Phlomis</i> (Lamiaceae)	8
<i>Hypericum</i> (Hypericaceae)	11	<i>Acantholimon</i> (Plumbagina.)	8
<i>Centaurea</i> (Asteraceae)	10	<i>Bromus</i> (Poaceae)	8
<i>Galium</i> (Rubiaceae)	10		
		Total	210

the mountain comprises about 364 (40.44%) taxa. Mediterranean species constitute about 98 (11.1%) taxa, and there are few Euro-Siberian species on the mountain, only about 32 (3.7%) taxa. Approximately 45.2% of the species on the mountain occur in 2 or more phytogeographical regions (pluriregional species). A further 16.9% (140 taxa) are endemic to Turkey.

Four species, *Hypericum malatyanum* Peşmen, *Lotus malatayicus* Poinert, *Chaenorhinum cryptarum* (Boiss. & Hausskn.) Davis and *Urtica hausknechtii* Boiss., are endemic to Beydağı and known only from the type localities. The first 3 species were collected for the second time from the type localities in the study area. According to the IUCN categories these species are in the CR (Critically Endangered) category (IUCN, 2001). *C. cryptarum* was found in a little cave on the north face of Beydağı. *L. malatayicus*, which is a beautiful species with showy flowers, was found in only one locality between vineyards at the east of Beydağı. *Hypericum malatyanum* is very rare and grows among rocks. *U. hausknechtii* was

not found even at the locus classicus. As stated in Türkiye Bitkileri Kırmızı Kitabı (Ekim et al. 2000), this species is probably extinct or an extreme variant of *U. dioica* L.

Furthermore some taxa recorded previously were not collected from the mountain. These taxa are as follows: *Asplenium haussknechtii* God. & Reut., *Fumana grandiflora* Jaub. et Spach, *Arenaria ledebouriana* Fenzl var. *parviflora* Boiss., *A. drypidea* Boiss., *Astragalus kurdicus* Boiss. var. *muschianus* (Kotschy & Boiss.) Chamb., *A. chthonocephalus* Boiss. & Balansa, *Pimpinella paucidentata* Matthews, *Anthemis scariosa* Banks & Sol., *Tripleurospermum decipiens* (Fisch. & Mey.), *Campanula flaccidul* Vatke, *Nonea anchusoides* Boiss. & Buhse, *Linaria antilibanotica* Rech., *Allium pustulosum* Boiss. & Hausskn. and *Cephalaria stellipilis* Boiss.

As a result of this floristic research carried out on Beydağı and its vicinity, 3 species were collected for the second time after the type material. A total of 101 new records were established for the square B7. Threatened categories of some endemic species were established.

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## APPENDIX

The list of vascular plant species found on Beydağı. The sequence of families, genera and species in the following list follows the system adopted in the Flora of Turkey.

### PTERIDOPHYTA

#### ADIANTACEAE

##### *Adiantum capillus-veneris* L.

Beydağı, İnderesi, wet places among rocks, 1000 m, 06 vii 1996, BY.13748.

#### ASPLENIACEAE

##### *Asplenium haussknechtii* God. & Reut.

Montis Beydagh supra Malatiam, 900-1300 m, ix 1865, *Haussknecht*.

##### *Ceterach officinarum* DC.

Common in the area, obs. BY.

#### ATHYRIACEAE

##### *Cystopteris fragilis* (L.) Bernh.

Common in the area, obs. BY.

#### GYMNOSPERMAE

#### CUPRESSACEAE

##### *Juniperus oxycedrus* L. subsp. *oxycedrus*

Between Gündüzbey and Kozluk village, 1100-1250 m, 04 v 1996 BY. 13116.

#### ANGIOSPERMAE

#### DICOTYLEDONES

#### RANUNCULACEAE

##### *Nigella oxypetala* Boiss.

İ. U. Campus, steppe, 900 m, 09 v 1986, BY. 7282, Ir.-Tur.

##### *N. latisecta* P.H.Davis

İ. U. Campus, steppe, 900 m, 16 vi 1986, BY. 7681, Ir.-Tur.

##### *Delphinium dasystacyum* Boiss. & Balansa

Venk village, Tavşan hill, 1600 m, 07 vii 996, BY. 13719, End. Ir.-Tur.

##### *D. albiflorum* DC.

Venk village, Tavşan hill, calcareous rocks, 1500 m, 07 vii 1996, BY. 13693.

##### *Consolida orientalis* (Gay) Schröd.

Common in İ.U. Campus, obs. BY.

##### *C. axilliflora* (DC.) Schröd.

Between Gündüzbey and Kozluk village, 1200 m, 02 vii 1999, BY. 14392.

##### \**Anemone blanda* Schott & Kotschy

Beydağı, Bürücek hill, *Astragalus* steppe, 2000 m, 01 v 1995, BY. 11930.

##### *Adonis aestivalis* L. subsp. *aestivalis*

Venk village, Tavşan hill, *Quercus* scrub, 1200-1400 m, 18 v 1996, BY. 13226.

##### \**Ranunculus brutius* Ten.

Between Gündüzbey and Kozluk village, 1100 m, 04 v 1996, BY. 13134, Euro.-Sib.

##### *R. cuneatus* Boiss.

İ.U. Campus, 900 m, 11 v 1987, H.Eren.

##### *R. isthmicus* Boiss. subsp. *stepporum* P.H.Davis

Venk village, steppe, 1000-1200 m, 02 v 1996, BY. 13104.

##### *R. arvensis* L.

İ.U. Campus, steppe, 900 m, 04 v 1987, G.Taş 1052.

##### *R. ficaria* L. subsp. *ficariiformis* Rouy & Fouc.

Tecde near Malatya *Gassner* 727.

##### *R. kochii* Ledeb.

Beydağı, Bürücek hill, *Astragalus* steppe, 2000 m, 01 v 1995, BY. 11928, Ir.-Tur.

##### *Ceratocephalus falcatus* (L.) Pers.

İ.U. Campus, steppe, 900 m, 24 iv 1986, M. Dönmez 1062-b.

##### *Thalictrum isopyroides* C.A.Mey.

Çamurlu village, Toptaş brook, calcareous area, 1500 m, 22 iv 1995, BY. 12004.

#### BERBERIDACEAE

##### *Berberis vulgaris* L.

Gündüzbey, Kozluk valley, mixed scrub, 1100 m, 08 ix 1996, BY. 14106-b.

##### *B. crataegina* DC.

Between Gündüzbey and Kozluk village, west slopes, 1100-1250 m, 04 v 1996 BY. 3115 & Ş.Yanan, Ir.-Tur.

##### *Bongardia chrysogonum* (L.) Spach

Kilizik village, calcareous area, 1000-1100 m, 20 v 1995, BY. 12134, Ir.-Tur.

#### PAPAVERACEAE

##### *Glaucium corniculatum* (L.) Rud. subsp. *refractum* (Nab.) Cullen

İ.U. Campus, steppe, 900 m, 04 v 1987, G.Taş 1030, Ir.-Tur.

##### \**G. flavum* Crantz

İ.U. Campus, 900 m, 16 vi 1986, BY. 7660.

##### *G. leiocarpum* Boiss.

Venk village, Tavşan hill, calcareous rocks, 1300 m, 18 v 1996, BY. 13211.

##### *Roemeria hybrida* (L.) DC. subsp. *hybrida*

İ.U. Campus, 900 m, 09 v 1986, BY. 7242.

##### *Papaver tauricola* Boiss.

Between Gündüzbey and Kozluk village, 1100 m, 4 v 1996, BY. 13122.

##### *P. rhoaes* L.

İ.U. Campus, 900 m, 16 vi 1986, BY. 7683.

##### *P. lacerum* Popov

Between Gündüzbey and Kozluk village, steppe, 1100 m, 04 v 1996, BY. 13126.

##### *P. dubium* L.

İ.U. Campus, 900 m, 09 v 1986, BY. 7276.

##### *Hypecoum imberbe* Sibth. & Sm.

Venk village, Tavşan hill, *Quercus* scrub, 1200-1400 m, 18 v 1996, BY. 13228.

##### *H. pendulum* L.

İ.U. Campus, steppe, 900 m, 09 v 1986, BY. 7267.

##### *Fumaria officinalis* L.

İ.U. Campus, steppe, 900 m, 09 v 1986, BY. 7275.

*F. cilicica* Hausskn.  
Konak, Hacıemir Dağı, steppe, 1600-1800 m, 1 vii 1996, BY. 13527, Ir.-Tur.

*F. vaillantii* Lois.  
İ.U. Campus, steppe, 900 m, 04 iv 1987, İ. Erdem 1029.

**BRASSICACEAE**

*Brassica elongata* Ehrh.  
Venk village, vineyards, 1000-1200 m, 08 vi 1995, BY. 12515.

\**Sinapis alba* L. subsp. *alba*  
İ.U. Campus, 900 m, 27 vi 1986, EA.0163.

*Camelina rumelica* Vel.  
Beydağı, 2000 m, Yıldırımli 9268.

*Crambe orientalis* L. var. *alutacea* (Hand.-Mazz.) Hedge & Hub.-Mor.  
İ.U. Campus, steppe, 900 m, 11 v 1987, G.Taş 1083, Ir.-Tur.

*Conringia perfoliata* (C.A.Mey.) Busch  
Çamurlu village, Toptaş brook, calcareous area, 1300 m, 22 iv 1995, BY. 11991.

*Lepidium perfoliatum* L.  
İ.U. Campus, steppe, 900 m, 09 v 1986, BY. 7272.

*Isatis aucheri* Boiss.  
Between Gündüzbey and Kozluk village, west slopes, 1100-1250 m, 04 v 1996 BY. 3109 & Ş.Yanan, End. Ir.-Tur.

*I. glauca* Aucher ex Boiss. subsp. *glauca*  
Venk village, Tavşan hill, 1000-1200 m, 01 vi 1995, BY. 12995, Ir.-Tur.

*Coluteocarpus vesicaria* (L.) Holmboe subsp. *vesicaria*  
Between Gündüzbey and Kozluk village, *Quercus* scrub, 1500 m, 01 iv 1995, BY. 1922, Ş.Yanan, Ir.-Tur.

*Aethionema carneum* (Banks & Sol.) Fedtsch.  
Between Konak and Hacıemir Dağı, steppe, 1200 m. 9 v 1996 BY. 13142, Ir.-Tur.

\**Ae. heterocarpum* J.Gay  
İ.U. Campus, steppe, 900 m, 04 vii 1986, EA. 0192a.

*Ae. arabicum* (L.) Andr. ex DC.  
İ.U. Campus, steppe, 900 m, 04 v 1987, BY., G.Taş 1038.

*Ae. cordatum* (Desf.) Boiss.  
Konak, Hacıemir Dağı, steppe, 1600-1800 m, 1 vii 1996, BY. 13513, Ir.-Tur.

*Ae. iberideum* (Boiss.) Boiss.  
Beydağı, west slopes, calcareous area, 2200-2400 m, 01 vii 1996, BY. 13577.

*Ae. capitatum* Boiss. & Balansa  
Venk village, Tavşan hill, calcareous area, 1500-1600 m, 08 vi 1996, BY. 13399, End.

*Ae. armenum* Boiss.  
Between Konak and Hacıemir Dağı, 1300 m, 09 v 1996 BY. 13157, Ir.-Tur.

*Ae. grandiflorum* Boiss. & Hohen.  
Beydağı, around Eskiçamurlu village, rocks, 1500-1600 m, 08 vi 1995 BY. 12685, (Det. N. Adıgüzel), Ir.-Tur.

*Ae. coridifolium* DC.  
Beydağı, east of Eskiçamurlu village, rocks, 1500-1600 m, 08 vi 1995 BY. 12687.

*Thlaspi perfoliatum* L.  
Between Konak and Hacıemir Dağı, steppe, 1300 m, 09 v 1996, BY. 13165.

\**T. violascens* Schott & Kotschy  
İ.U. Campus, steppe, 900 m, 04 v 1987, G.Taş 1040, End.

*Hutchinsia petraea* (L.) R.Br.  
Between Gündüzbey and Kozluk village, streamside, 1100 m, 04 v 1996, BY. 13137.

*Capsella bursa-pastoris* (L.) Medik.  
Common in the area, obs. BY.

*Boreave orientalis* Jaub. & Spach  
İ.U. Campus, 900 m, 25 vi 1986, EA.0086.

*Myagrum perfoliatum* L.  
Above Venk village, calcareous north slopes, 1400 m, 08 vi 1995, BY. 12570.

*Neslia apiculata* Fisch., C.A.Mey. & Avé-Lall.  
Between Konak and Hacıemir Dağı, steppe, 1300 m, 09 v 1996, BY. 13160.

\**Texiera glastifolia* (DC.) Jaub. & Spach  
İ.U. Campus, steppe, 900 m, 13 v 1989, BY. 8446, Ir.-Tur.

*Ricotia aucheri* (Boiss.) B.L.Burt  
Beydağı, west slopes, calcareous area, 2350, m, 01 vii 1996, BY. 13582, Ir.-Tur.

*Fibigia clypeata* (L.) Medik.  
Between Konak and Hacıemir Dağı, steppe, 1300 m. 09 v 1996 BY. 13155.

*F. eriocarpa* (DC.) Boiss.  
Beydağı, west slopes, calcareous area, 2200-2400 m, 01 vii 1996, BY. 13583-a.

*Alyssum linifolium* Steph. ex. Willd. var. *linifolium*  
Between Konak and Karagözlü village, vineyards, 1100 m, 20 iii 1995, BY. 11905.

*A. aureum* (Fenzl) Boiss.  
Çamurlu village, Toptaş brook, calcareous area, 1300-1500 m, 22 iv 1995, BY. 11997. Ir.-Tur.

*A. desertorum* Stapf. var. *desertorum*  
İ.U. Campus, 900 m, H. Eroğlu 0020.

*A. szowitsianum* Fisch. & Mey.  
Kilizik village, Dil hill, calcareous steppe, 1500 m, 14 vi 1995, BY. 12790.

*A. minus* (L.) Rothm. var. *minus*  
İ.U. Campus, steppe, 900 m, 09 v 1986, BY. 7266.

*A. stapfii* Vierh.  
Around Venk village, vineyards, 1000-1200 m, 08 vi 1995, BY. 12520, Ir.-Tur.

*A. strigosum* Banks & Sol. subsp. *strigosum*  
Venk village, Tavşan hill, *Quercus* scrub, 1300 m, 18 v 1996, BY. 13229.

\**A. trichocarpum* Dudley & Hub.-Mor.  
Beydağı, south of Eskiçamurlu village, 2000 m. 08 vi 1995, BY.12633, End.

*A. armenum* Boiss.  
Beydağı, west slopes, calcareous area, 2200-2400 m, 01 vii 1996, BY. 13568.

*A. condansatum* Boiss. & Hausskn. subsp. *flexibile* (Nyar.) Dudley  
İ.U. Campus, 900 m, 16 vi 1986, BY. 7659.

*A. filiforme* Nyar.  
Kilizik village, Dil hill, 1300-1500 m, 14 vi 1995, BY. 12796, End. Ir.-Tur.

*Clypeola jonthlaspi* L.

Çamurlu Village, Toptaş brook, calcareous area, 1300 m, 22 iv 1995, BY. 12003.

*C. asper* (Grauer) Turritt

Around Venk village, steppe, 1000-1200 m, 02 v 1996, BY. 13103, Ir.-Tur.

*Erophila minima* C.A.Mey

İ.U. Campus, 900 m, 03 iii 1987, EA.0261.

*Arabis caucasica* Willd. subsp. *caucasica*

Between Konak and Hacıemir Dağı, steppe, 1300 m. 09 v 1996 BY. 13164.

*A. montbretiana* Boiss.

Between Gündüzbey and Kozluk village, west slopes, 1100 m, 04 v 1996, BY. 13108 & Ş.Yanan, Ir.-Tur.

*A. nova* Vill.

Beydağı, 2000 m, Yıldırımli 9393.

*A. aucheri* Boiss.

İ.U. Campus, 900 m, 26 vi 1986, EA. 0120.

*Drabopsis verna* C.Koch

Between Konak and Karagözlü village, vineyards, 1000-1200 m, 20 iii 1995, BY. 11904, Ir.-Tur.

*Aubrieta canescens* (Boiss.) Bornm. subsp. *macrostyla* Cullen & Hub.-Mor.

Venk village, Tavşan hill, calcareous area, 1600 m, 02 v 1996, BY. 13084.

*Matthiola longipetala* (Vent.) DC. subsp. *bicornis* (Sibth. & Sm.) P.W.Ball

İ.U. Campus, steppe, 900 m, 28 vi 1986, 27 iv 1987, G.Taş 1005.

\**Chorisporea syriaca* Boiss.

Çamurlu village, calcareous area, 1300 m, 22 iv 1995 BY. 11994, Ir.-Tur.

*Malcolmia africana* (L.) R.Br.

İ.U. Campus, steppe, 900 m, 27 v 1987, G.Taş 1002.

*Anchonium elichrysofolium* (DC.) Boiss. subsp. *elichrysofolium*

Konak, Hacıemir Ddağı, rocky slopes, 1600-1800 m, 1 vii 1996, BY. 13548. Ş.Yanan.

*Erysimum cuspidatum* (Bieb.) Al.

South of Kilizik village, protected area, 1000-1100 m, 14 vi 1995, BY. 12751.

*E. thyrsoideum* Boiss. subsp. *thyrsoideum*

İ.U. Campus, steppe, 900 m, 04 v 1987, G.Taş 1026, End.

\**E. hamosum* Blanche ex Post

İ.U. Campus, steppe, 900 m, 09 v 1986, BY. 7238, Ir.-Tur.

*E. crassipes* Fisch. & Mey.

Beydağı, Yağlıpınar wold, 2000-2100 m, 10 ix 1996, BY. 13969.

*E. repandum* L.

Around Venk village, steppe, 1200 m, 02 v 1996, BY. 13095.

*Sisymbrium altissimum* L.

İ.U. Campus, 900 m, 09 v 1986, BY. 7283,

*S. loeselii* L.

Beydağı, İnderesi, calcareous area, in caves, 1000 m, 06 vii 1996, BY.13751.

*Descurainia sophia* (L.) Webb ex Prantl

İ.U. Campus, steppe, 900 m, 13 v 01989, BY. 8447.

*Arabidopsis pumila* (Steph.) Busch

Beydağı, İnderesi, calcareous area, in caves, 1000 m, 06 vii 1996, BY. 13743-b.

CAPPARACEAE

*Cleome ornithopodioides* L.

İ.U. Campus, steppe, 900 m, 11 v 1987, G.Taş 1054

RESEDACEAE

*Reseda lutea* L. var. *lutea*

Venk village, Tavşan hill, steppe, 1500-1600 m, 18 v 1996, BY. 13217.

CISTACEAE

\**Helianthemum antitauricum* Davis & Coode

Kilizik village, Dil hill, steppe, 1300 m, 14 vi 1995, BY. 12792, End. E. Medit.

*H. ledifolium* (L.) Mill. var. *microcarpum* Willk.

Çamurlu village, Toptaş brook, calcareous area, 1300-1500 m, 20 v 1995, BY. 12065.

*H. salicifolium* (L.) Mill.

İ.U. Campus, 900 m, 09 v 1986, BY. 7269.

*Fumana grandiflora* Jaub. et Spach

Cappadocia, circa Malatia, *Aucher* 1988 End. Ir.-Tur.

*F. procumbens* (Dun.) Gren. & Godr.

Venk village, steppe, 1200 m, 08 vi 1995, BY. 12532 & Ş.Yanan

VIOLACEAE

*Viola odorata* L.

Between Gündüzbey and Kozluk village, 1200 m, 21 iv 1995, BY. 11932.

*V. occulta* Lehm.

Beydağı, around Eskiçamurlu village, 1600 m, 01 v 1996, BY. 13078.

*V. parvula* Tineo

Between Gündüzbey and Kozluk village, 1500 m, 01 iv 1995, BY. 11920.

*V. kitaibeliana* Roem. & Schult.

Çamurlu village, Toptaş brook, calcareous area, 1300 m 22 iv 1995, BY. 12014.

POLYGALACEAE

*Polygala supina* Schreb.

Between Konak and Hacıemir Dağı, steppe, 1300 m. 09 v 1996 BY. 13149.

*P. pruinosa* Boiss. subsp. *pruinosa*

Beydağı, calcareous west slopes, 1700-1800 m, 03 vi 1995, BY. 12332.

CARYOPHYLLACEAE

*Arenaria serpyllifolia* L.

Venk village, Tavşan hill, calcareous rocks, 1500 m, 08 vi 1995, BY. 12599.

*A. leptoclados* (Reichb.) Guss.

Kilizik village, calcareous steppe, 1000 m, 14 vi 1995, BY. 12725-b.



*A. gypsophiloides* L. Mant. var. *glabra* Fenzl

Between Konak and Beydağı, steppe, 1400 m, 03 vi 1995, BY. 12317, Ir.-Tur.

*A. ledebouriana* Fenzl var. *parviflora* Boiss.

3 km E of Malatya, 920-950 m, *Hub.-Mor.* 8883, End. Ir.-Tur.

*A. drypidea* Boiss.

Common on Beydağı, obs. BY. End. Ir.-Tur.

*Minuartia juniperina* (L.) Maire & Petitm.

Above Venk village, calcareous north slopes, 1500 m, 08 vi 1995, BY. 12561.

\**M. rimarum* (Boiss. & Balansa) Mattf. var. *multiflora* McNeill

Beydağı, summit, 2500 m, 01 vii 1994, BY. 11670, End. Ir.-Tur.

*M. meyeri* (Boiss.) Bornm.

Konak, between Horata and Beydağı, 1000 m, 03 vi 1995, BY. 12508, Ir.-Tur.

*M. montana* L. subsp. *wiesneri* (Stapf) McNeill

Çamurlu village, Toptaş brook, 1200 m, 08 vi 1995, BY. 12698, Ir.-Tur.

*M. hamata* (Hauskn.) Mattf.

Kilizik village, Dil hill, sandy soil, 1500m, 14 vi 1995, BY. 12818.

\**M. leucocephala* (Boiss.) Mattf.

Beydağı, south of Eskiçamurlu village, calcareous east slopes, 1800-2000 m. 08 vi 1995, BY. 12627, End.

*M. hybrida* (Vill.) Schischk.

Between Gündüzbey and Kozluk village, streamside, 1100 m, 04 v 1996, BY. 13136

*Stellaria media* (L.) Vill. subsp. *media*

Beydağı, around Eskiçamurlu village, 1600-1800 m, 01 v 1996, BY. 13077.

*Cerastium perfoliatum* L.

Beydağı, around Eskiçamurlu village, 1600-1800 m, 01 v 1996, BY. 13072.

*C. dichotomum* L. subsp. *dichotomum*

Venk village, Tavşan hill, calcareous area, 1600 m, 08 vi 1996, BY. 13395.

*C. pumilum* Curtis

Beydağı, east of Eskiçamurlu village, streamside, 1600 m, 08 vi 1995, BY. 12666.

*C. fragillimum* Boiss.

Beydağı, east of Eskiçamurlu village, streamside, 1600 m, 08 vi 1995, BY. 12661.

*Holosteum umbellatum* L. var. *umbellatum*

Çamurlu village, Toptaş brook, calcareous area, 1300 m, 22 iv 1995, BY. 12001.

\**Bufonia calyculata* Boiss. & Balansa

Above Kilizik, Dil hill, 1700-2000 m, 02 vii 1995, BY. 13057, End.

*B. virgata* Boiss.

Kilizik village, calcareous rocks, 1100-1200 m, 18 vii 1994, BY. 11692.

*Telephium imperati* L. subsp. *orientale* (Boiss.) Nyman

Venk village, Tavşan hill, 1000-1100 m, 01 vi 1995, BY. 12979.

*Dianthus strictus* Banks & Sol. var. *gracilior* (Boiss.) Reeve

Venk village, Tavşan hill, steppe, 1400-1600 m, 07 vii 1996, BY. 13739.

*D. zederbaueri* Vierh.

Above Kilizik, Dil hill, 1700-2000 m, 02 vii 1995, BY. 13032, End. Ir.-Tur.

*D. floribundus* Boiss.

Around Venk village, vineyards, 1000-1200 m, 08 vi 1995, BY. 12527. Ir.-Tur.

*D. crinitus* Sm. var. *crossopetalus* Boiss.

Between Konak and Beydağı, steppe, 1400-1500 m, 03 vi 1995, BY. 12315.

*D. orientalis* Adams

Beydağı, between Konak and Karagözlü village, 1200 m, 03 vi 1995, BY. 12476.

*D. masmenaeus* Boiss. var. *masmenaeus*

Konak, Hacıemir Dağı, steppe, 1600-1800 m, 01 vii 1996, BY. 13514. End. Ir.-Tur.

\**D. zonatus* Fenzl var. *zonatus*

Venk village, Tavşan hill, calcareous area, 1600 m, 08 vi 1995, BY. 12609.

*Petrorhagia cretica* (L.) Ball & Heywood

İ.U. Campus, steppe, 900 m, 16 vi 1986, BY. 7666-a.

*Velezia rigida* L.

Above Çamurlu village, calcareous north slopes, 1000 m, 14 vi 1995, BY. 12826.

*Saponaria viscosa* C.A.Mey.

Kilizik village, calcareous steppe, 1000 m, 14 vi 1995, BY. 12725, Ir.-Tur.

*S. prostrata* Willd. subsp. *anatolica* Hedge

Beydağı, between Karagözlü village and Yağlıpınar wold, calcareous area, 1900-2100m, 01 vii 1994, BY. 11660. End.

*S. tridentata* Boiss.

Kilizik village, Dil hill, calcareous steppe, 1400 m, 14 vi 1995, BY. 12792, Ir.-Tur.

*Phryna ortegioides* (Fisch. & Mey.) Pax & Hoffm.

Kilizik village, Dil hill, 1700-2000 m, 02 vii 1995, BY. 13035. End. Ir.-Tur.

\**Gypsophila viscosa* Murray

Venk village, vineyards, 950 m, 25 vi 1996, BY. 13457, Ir.-Tur.

*G. pallida* Stapf

İ.U. Campus, steppe, 900 m, 16 vi 1986, BY. 7666-b. Ir.-Tur.

*Vaccaria pyramidata* Medik. var. *grandiflora* (Fisch. ex DC.) Cullen

Between Konak and Karagözlü village, vineyards, 2000 m, 03 vi 1995, BY. 12470.

*Silene marschallii* C.A.Mey.

Beydağı, between Konak and Karagözlü village, calcareous area, 1100-1200 m, 3 vi 1995, BY. 12443, Ir.-Tur.

\**S. olympica* Boiss.

Kilizik village, calcareous area, 1000-1100 m, 20 v 1995, BY. 12159. End.

*S. stenobotrys* Boiss. & Hauskn.

Beydağı, Konak, around Karagözlü village, 1300 m, 03 vi 1995, BY. 12395, Ir.-Tur.

*S. cappadocica* Boiss. & Heldr.

İ.U. Campus, steppe, 900 m, 16 vi 1986, BY. 7640, Ir.-Tur.

- S. spergulifolia* (Desf.) Bieb.  
Beydağı, between Konak and Karagözlü village, calcareous area, 1100-1200 m, 03 vi 1995, BY. 12447, Ir.-Tur.
- S. supina* Bieb. subsp. *pruinosa* (Boiss.) Chowdh.  
Konak, between Horata and Beydağı, vineyards, 1000 m, 03 vi 1995, BY. 12497.
- S. montbretiana* Boiss.  
Beydağı, Konak, Karagözlü village, calcareous north slopes, 1600 m, 03 vi 1995, BY. 12350-a, Ir.-Tur.
- S. arguta* Fenzl  
Beydağı, Konak, Karagözlü village, calcareous north slopes, 1600 m, 03 vi 1995, BY. 12350-b, Ir.-Tur.
- S. odontopetala* Fenzl  
Kilizik village, Dil hill, 1700-2000 m, 2 vii 1995, BY. 13043.
- S. vulgaris* (Moench) Garcke var. *vulgaris*  
Between Gündüzbey and Kozluk village, calcareous slopes, 1100-1200 m, 21 v 1995 BY. 12247.
- S. brevicaulis* Boiss.  
Venk, Tavşan hill, calcareous rocks, 1500 m, 07 vii 1996, BY. 13741-b, End. Ir.-Tur.
- S. caryophylloides* (Poir.) Otth subsp. *subulata* (Boiss.) Coode & Cullen  
Kilizik village, Dil hill, calcareous steppe, 1500 m, 14 vi 1995, BY. 12776.
- S. caryophylloides* (Poir.) Otth subsp. *stentoria* (Fenzl) Coode & Cullen  
Beydağı, north-west slopes, 1600-1800 m, 01 vii 1994, BY. 11675, End. Ir.-Tur.
- \**S. caryophylloides* (Poir.) Otth subsp. *masmenaea* (Boiss.) Coode & Cullen  
Kilizik village, Dil hill, 1700-2000 m, 02 vii 1995, BY. 13065, End.
- S. chaetodonta* Boiss.  
Above Kilizik village, Dil hill, 1700-2000 m, 02 vii 1995, BY. 13017, Ir.-Tur.
- S. kotschy* Boiss. var. *kotschy*  
Around Venk village, vineyards, 1000-1200 m, 08 vi 1995, BY. 12518.
- S. dichotoma* Ehrh. subsp. *dichotoma*  
South of Kilizik village, vineyards, 1000-1100 m, 14 vi 1995, BY. 12760.

- S. conoidea* L.  
Kilizik village, calcareous area, 1000-1100 m, 20 v 1995, BY. 12135.
- Agrostemma githago* L.  
South of Kilizik village, vineyards and 1000-1100 m, 14 vi 1995, BY. 12748.
- Cucubalus baccifer* L.  
Gündüzbey, Kozluk brook, western water edges, 1100 m, 08 ix 1996, BY. 14076.

#### ILLECEBRACEAE

- Herniaria glabra* L.  
Venk village, Tavşan hill, calcareous rocks, 1600 m, 08 vi 1995, BY. 12588.
- H. incana* Lam.  
Konak, around Karagözlü village, vineyards, 1300 m, 03 vi 1995, BY. 12383.
- Paronychia kurdica* Boiss. subsp. *kurdica* var. *kurdica*  
Venk village, Tavşan hill, calcareous area, 1500 m, 20 v 1995, BY. 12174.

- P. kurdica* Boiss. subsp. *haussknechtii* Chaudhri

- Around Venk village, vineyards and steppe, 1000 m, 25 vi 1995, BY. 12928.

- \**P. imbricata* Boiss. & Hausskn.  
Venk village, Tavşan hill, calcareous area, 1500 m, 08 vi 1996, BY. 13374, End.

- \**P. cataonica* Chaudhri  
Konak, Horata, vineyards, 1000 m, 03 vi 1995, BY. 12484, End.

- Habrosia spinuliflora* (Ser.) Fenzl  
Çamurlu village, Toptaş brook, steppe, 1500 m, 20 v 1995, BY.12033, Ir.-Tur.

#### POLYGONACEAE

- Atraphaxis billardieri* Jaub. & Spach var. *billardieri*  
Venk village, Tavşan hill, calcareous area, 1600 m, 20 v 1995, BY. 12183.

- Polygonum luzuloides* Jaub. & Spach  
Around Venk village, vineyards, 1000-1200 m, 08 vi 1995, BY. 12543 Ir.-Tur.

- P. aviculare* L.  
İ.U. Campus, steppe, 900 m, 28 vi 1991, BY. 8448-b.

- P. polycnemoides* Jaub. & Spach  
Beydağı, west slopes, steppe, 1600-1700 m, 03 vi 1995, BY. 12327, Ir.-Tur.

- P. convolvulus* L.  
Between Malatya and Yeşilyurt, orchard, 950 m, 23 vi 1995, BY. 12909.

- P. patulum* Bieb. subsp. *patulum*  
Beydağı, 1500 m, Yıldırımli, 9287.

- Rumex scutatus* L.  
Venk village, Tavşan hill, steppe, 1600-1800 m, 08 vi 1995, BY. 12587.

- P. patulum* Bieb. subsp. *patulum*  
Beydağı, 2000 m. Yıldırımli, 9287.

- R. tuberosus* L. subsp. *horizontalis* (Koch) Rech.

- Between Konak and Karagözlü village, vineyards and calcareous area, 1100-1200 m, 03 vi 1995, BY. 12419.

- R. patientia* L.  
Above Venk village, calcareous north slopes, 1400 m, 08 vi 1995, BY. 12568.

#### CHENOPODIACEAE

- Beta lomatogona* Fisch. & Mey.  
Çamurlu village, Toptaş brook, 1000-1200 m, 08 vi 1995, BY. 12700, Ir.-Tur.

- Chenopodium album* L. subsp. *album* var. *album*

- Common, obs. BY.  
\**Spinacia tetrandra* Stev.  
İ.U. Campus, steppe, 900 m, 28 vi 1991, BY. 8448-a.

- \**Atriplex nitens* Schkuhr  
Gündüzbey, Kozluk valley, streamside, 1100-1200 m, 08 ix 1996, BY. 14115.

- A. lasiantha* Boiss.  
Gündüzbey, Kozluk brook, damp places, 1100 m, 08 ix 1996, BY. 14105.

#### AMARANTHACEAE

- Amaranthus albus* L.  
Gündüzbey, Kozluk brook, damp slopes, 1100 m, 8 ix 1996, BY. 14069.

## TAMARICACEAE

*Tamarix smyrnensis* Bunge

Beydağı, east of Eskiçamurlu village, streamside, 1700 m. 08 vi 1995, BY. 12663.

## HYPERICACEAE

*\*Hypericum amplysepalum* Hochst.

İ.U. Campus, 900 m, 26 vi 1986, EA. 0116.

*H. hyssopifolium* Chaix subsp. *elongatum* (Ledeb.) Woron. var. *elongatum*

Beydağı, between Konak and Karagözlü village, calcareous area, 1100-1200 m, 3 vi 1995, BY. 12460, Ir.-Tur.

*H. lydium* Boiss.

Venk village, Tavşan hill, calcareous area, 1500 m, 08 vi 1995, BY. 12612, Ir.-Tur.

*H. thymbrifolium* Boiss. & Noe

Around Venk village, vineyards, c. 1000 m, 25 vi 1995, BY. 12932-b End. Ir.-Tur.

*H. uniglandulosum* Hausskh. ex Bornm.

Around Venk village, steppe, c. 1000 m, 25 vi 1995, BY. 12932-a, End. Ir.-Tur.

*\*H. capitatum* Choisy var. *capitatum*

İ.U. Campus, steppe, 900 m, 26 vi 1986, EA. 0151, Ir.-Tur.

*H. scabrum* L.

Yağlıpınar wold, 2000-2100 m, 10 ix 1996, BY. 13978, Ir.-Tur.

*\*H. confertum* Choisy subsp. *stenobotrys* (Boiss.) Holmboe

Beydağı, around Eskiçamurlu village, steppe, 1800 m, 20 v 1995, BY. 12105.

*\*H. thymifolium* Banks & Sol.

Beydağı, Balıkderesi, steppe, 1200-1400 m, 10 v 1990 EA. & BY. 8739, E.Medit.

*H. perforatum* L.

Venk village, Tavşan hill, 1000-1100 m, 01 vi 1995, BY. 13012.

*\*H. malatyanum* Peşmen

Konak, Hacıemir Dağı, steppe, 1600-1800 m, 01 vii 1996, BY. 13516-b, End.

## MALVACEAE

*Malva sylvestris* L.

Gündüzbey, Kozluk brook, water edges, 1100 m, 08 ix 1996, BY. 14067.

*M. neglecta* Wallr.

Venk village, Tavşan hill, steppe, 1600-1800 m, 08 vi 1995, BY. 12582.

*Alcea pallida* Waldst. & Kit.

Gündüzbey, Kozluk brook, water edges, 1100 m, 08 ix 1996, BY. 14068.

## LINACEAE

*Linum nodiflorum* L.

İ.U. Campus, steppe, 900 m, 16 v 1986 BY. 7684, Medit.

*L. tenuifolium* L.

Konak, Hacıemir Dağı, steppe, 1600-1800 m, 01 vii 1996, BY. 13508.

## GERANIACEAE

*Geranium lucidum* L.

İ.U. Campus, steppe, 900 m, 27 iv 1987, BY. G. Taş 1015.

*G. rotundifolium* L.

Çamurlu village, Toptaş brook, calcareous area, 1300-1500 m, 22 iv 1995, BY.11984.

*G. pusillum* Burm.f.

İ.U. Campus, 900 m, 22 iv 1989, BY. 8416.

*G. tuberosum* L. subsp. *tuberosum*

Venk village, Tavşan hill, calcareous area, 1500-1600 m, 20 v 1995, BY. 12219.

*G. stepporum* Davis

Venk village, Tavşan hill, calcareous area, 1500 m, 20 v 1995, BY. 12220, Ir.-Tur.

*G. macrostylum* Boiss.

Between Gündüzbey and Kozluk village, 1200 m, 21 iv 1995, BY. 11972, E. Medit.

*G. pyrenaicum* Burm.f.

Between Gündüzbey and Kozluk village, 1100-1200 m, 21 iv 1995, BY. 11973.

*Erodium ciconium* (L.) L'Hér.

Beydağı, around Eskiçamurlu village, steppe, 1800 m, 20 v 1995, BY. 12085.

*\*E. malacoides* (L.) L' Hér.

İ.U. Campus, steppe, 900 m, 27 iv 1987, G.Taş 1008, Medit.

*E. cicutarium* (L.) L'Hér. subsp. *cicutarium*

Between Konak and Karagözlü village, vineyards, 1200 m, 20 iii 1995 BY. 11910.

*E. acaule* (L.) Bech. & Thell.

İ.U. Campus, steppe, 900 m, 27 iv 1987, BY. G.Taş 1006, Medit.

*Pelargonium endlicherianum* Fenzl

Venk village, around Tavşan hill, 1100-1200 m, 01 vii 1995, BY. 13007.

## OXALIDACEAE

*\*Oxalis corniculata* L.

Beydağı, around Eskiçamurlu, Dil hill, 1600-1800 m, 01 v 1996, BY. 13070.

## ZYGOPHYLLACEAE

*Tribulus terrestris* L.

İ.U. Campus, 900 m, G.Taş 1019.

*Peganum harmala* L.

Venk village, vineyards, 950 m, 25 vi 1996, BY. 13456.

## RUTACEAE

*Haplophyllum cappadocicum* Spach

İ.U. Campus, steppe, 900 m, 16 vi 1986, BY. 7692, End. Ir.-Tur.

## RHAMNACEAE

*\*Rhamnus hirtellus* Boiss.

Beydağı, west slopes, calcareous area, 1100 m, 09 v 1996, BY. 13169, End. Ir.-Tur.

## ANACARDIACEAE

*Pistacia terebinthus* L. subsp. *palaestina* (Boiss.) Engl.

Venk village, Tavşan hill, 1400-1600 m, 07 vii 1996, BY. 13736, E. Medit.

## FABACEAE

*Genista albida* Willd

Between Konak and Hacıemir Dağı, calcareous area, 1200-1300 m. 09 v 1996 BY. 13146.

*Colutea cilicica* Boiss. & Balansa

Venk village, Tavşan hill, calcareous rocks, 1500 m, 07 vii 1996, BY. 13717.

*Astragalus guttatus* Banks & Sol.

İ.U. Campus, steppe, 900 m, 09 v 1986, BY. 7270. 11 v 1994, BY. 11378, Ir.-Tur.

*A. hamosus* L.

İ.U. Campus, steppe, 900 m, 04 vi 1986, BY. 7627.

*A. lanatus* Lab.

Beydağı, west slopes, calcareous area, 1800 m, 06 vi 1994, BY. 11499, Ir.-Tur.

*A. densifolius* Lam. subsp. *densifolius*

Beydağı, south of Eskiçamurlu village, calcareous east slopes, 1800 m. 08 vi 1995, BY. 12630, (Det: Z. Aytaç) End. Ir.-Tur.

*A. emarginatus* Lab.

Beydağı, İnderesi, calcareous rocks, 1200 m, 01 vi 1996, BY. 13340, Ir.Tur.

*A. cretaceus* Boiss. & Kotschy

Between Konak and Hacıemir Dağı, steppe, 1200 m. 09 v 1996 BY. 13147. Ir.-Tur.

*A. christianus* L.

Kilizik village, calcareous area, 1000-1100 m, 20 v 1995, BY. 12158.

*A. zahlbruckneri* Hand.-Mazz.

Konak, Hacıemir Dağı, steppe, 1700 m, 01 vii 1996, BY. 13516-a, End. Ir.Tur.

*A. amblelepis* Fisch.

Venk village, Tavşan hill, calcareous rocks, 1600 m, 07 vii 1996, BY. 13688, Ir.-Tur.

*A. kurdicus* Boiss. var. *muschianus* (Kotschy & Boiss.) Chamb.

W. side of Beydağı, 25 km S of İsmet Paşa, 1380 m, *Hub.-Mor.* 9082, End. Ir.-Tur.

*A. chthonocephalus* Boiss. & Balansa

S of Malatya, foot of Beydağı, 950 m, *Hub.-Mor.* 9078. End. Ir.-Tur.

*A. cephalotes* Banks & Sol.

Konak, Hacıemir Dağı, steppe, 1100-1200 m, 01 vii 1996, BY. 13470, End.

*A. globosus* Vahl

Beydağı, north-west slopes, 1600-1800 m, 01 vii 1994, BY. 11679; Venk village,

Tavşan hill, calcareous rocks, 1400-1600 m, 07 vii 1996, BY. 13700, End. Ir.-Tur.

*A. angustiflorus* C.Koch subsp. *angustiflorus*

Between Gündüzbey and Kozluk village, calcareous slopes, 1100-1200 m, 21 v 1995 BY. 12257, Ir.-Tur.

*A. pinetorum* Boiss.

Beydağı, west slopes, calcareous area, 2400 m, 01 vii 1996, BY. 13578, End. Ir.-Tur.

*A. gummifer* Lab.

Venk village, Tavşan hill, calcareous rocks, 1500 m, 07 vii 1996, BY. 13727, Ir.-Tur.

\**A. dipsaceus* Bunge

Above Venk village, calcareous north slopes, 1500 m, 08 vi 1995, BY. 12562, End. Ir.-Tur.

*A. decurrens* Boiss.

İ.U. Campus, steppe, 900 m, 16 vi 1986, BY. 7697, End. Ir.-Tur.

*A. macrocephalus* Willd. subsp. *finitimus* (Bunge) Chamb.

Beydağı, Konak, Karagözlü village, calcareous north slopes, 1600 m, 03 vi 1995, BY. 12344, Ir.-Tur.

*A. ascicalyx* Bunge

Beydağı, west slopes, 1600-1700 m, 03 vi 1995, BY. 12325, End. Ir.-Tur.

*A. melitenensis* Boiss.

İ.U. Campus, steppe, 900 m, 09 v 1986, BY. 7251, End. Ir.-Tur.

*A. tigridis* Boiss.

Çamurlu village, Toptaş brook, calcareous area, 1500 m, 20 v 1995, BY. 12049, Ir.-Tur.

*A. campylosema* Boiss. subsp. *campylosema*

Beydağı, west slopes, calcareous area, 1700 m, 06 vi 1994, BY. 11495, End. Ir.-Tur.

*A. nitens* Boiss. & Heldr.

Beydağı, Eskiçamurlu village, calcareous area, 1800 m, 20 v 1995, BY. 12102. Between Konak and Beydağı, steppe, 1300 m, 14 v 1994, BY. 11382, End. Ir.-Tur.

*A. aucheri* Boiss.

Between Konak and Beydağı, steppe, 1400-1500 m, 03 vi 1995, BY. 12316, End. Ir.-Tur.

*Glycyrrhiza glabra* L. var. *glandulifera* (Waldst. & Kit.) Boiss.

Venk village, Tavşan hill, 1000-1100 m, 01 vi 1995, BY. 12986.

*Cicer pinnatifidum* Jaub. & Spach

Beydağı, between Konak and Karagözlü village, calcareous area, 1100-1200 m, 03 vi 1995, BY. 12459.

*Vicia villosa* Roth subsp. *villosa*

Konak, around Karagözlü village, vineyards, 1300 m, 03 vi 1995, BY. 12370,

\**V. cassia* Boiss.

İ.U. Campus, steppe, 900 m, 27 vi 1986, EA. 0161, E. Medit.

*V. ervilia* (L.) Wild

İ.U. Campus, steppe, 900 m, 16 vi 1986, BY. 7632, Medit.

*V. peregrina* L.

Between Konak and Karagözlü village, vineyards, 1300 m, 03 vi 1995, BY. 12362.

*V. sericocarpa* Fenzl var. *sericocarpa*

İ.U. Campus, steppe, 900 m, 04 v 1987, BY., G.Taş 1020.

*V. anatolica* Turrill

Beydağı, north slopes, calcareous area, 1700 m, 24 vi 1994, BY. 11318, Ir.-Tur.

*V. hybrida* L.

Beydağı, Yağlıpınar wold, calcareous area, 2100 m, 01 vii 1994, BY. 11665b, Medit.

*V. grandiflora* Scop. var. *grandiflora*

Between Konak and Hacıemir Dağı, calcareous area, 1200-1300 m. 09 v 1996 BY. 13159, E. Medit.

*V. sativa* L. subsp. *sativa*

İ.U. Campus, 900 m, 09 v 1986, BY. 7286.

*V. sativa* L. subsp. *nigra* (L.) Ehrh. var. *nigra*

Between Konak and Hacıemir Dağı, calcareous area, 1200-1300 m. 09 v 1996 BY. 13139.

*V. sativa* L. subsp. *nigra* (L.) Ehrh. var. *sagetalin* (Thuill.) Ser. ex DC.

İ.U. Campus, steppe, 900 m, H.Eren s.n.

*V. narbonensis* L. var. *narbonensis*

İ.U. Campus, steppe, 900 m, 11 v 1987, G.Taş 1063.

*V. galilaea* Plitm. & Zoh.

South of Kilizik village, protected area, 1000-1100 m, 14 vi 1995, BY. 12761.

*Lens orientalis* (Boiss.) Hand.-Mazz.

Between Konak and Hacıemir Dağı, steppe, 1300 m. 09 v 1996 BY. 13141.

*Lathyrus brachypterus* Cel. var. *haussknechtii* (Sirj.) Davis

Beydağı, north slopes, 1500 m, 14 v 1994, BY. 11400, End. Ir.-Tur.

\**L. sphaericus* Retz.

Between Konak and Hacıemir Dağı, steppe, 1300 m, 09 v 1996 BY. 13140,

*L. cicera* L.

İ.U. Campus, steppe, 900 m, 11 v 1987, BY., İ. Erkuş 1041.

*Pisum sativum* L. subsp. *sativum* var. *pumilio* Meikle

İ.U. Campus, steppe, 900 m, 04 v 1987, BY., G.Taş 1019.

\**Ononis adenotricha* Boiss. var. *adenotricha*

Kilizik place, vineyards, 1100-1200 m, 28 vi 1994, BY. 11632, E. Medit.

*O. spinosa* L. subsp. *antiquorum* (L.) Briq.

Beydağı, around Eskiçamurlu village, streamside, 1600 m, 01 vii 1995, BY. 12954.

*Trifolium nigrescens* Viv. subsp. *petrisavii* (Clem.) Holmb.

İ.U. Campus, 900 m, 22 iv 1989, BY. 8415.

*T. campestre* Schreb.

İ.U. Campus, steppe, 900 m, 22 iv 1989, BY. 8413.

*T. physodes* Stev. ex Bieb. var. *physodes*

Venk village, Tavşan hill, calcareous area, 1500 m, 08 vi 1995, BY. 12614, Medit.

*T. resupinatum* L. var. *resupinatum*

İ.U. Campus, 900 m, 22 iv 1989, BY. 8414.

*T. pratense* L. var. *pratense*

Beydağı, around Eskiçamurlu village, streamside, 1400-1600 m, 01 vii 1995, BY. 12977, Ş.Yanan

*Trigonella lunata* Boiss.

Beydağı, Balıkdere, calcareous area, 1200 m, 10 v 1990, BY. 8799, Ir.-Tur.

*T. coelestriaca* Boiss.

İ.U. Campus, steppe, 900 m, 04 v 1987, BY., İ. Erkuş 1023, Ir.-Tur.

*T. spruneriana* Boiss. var. *spruneriana*

İ.U. Campus, steppe, 900 m, 09 v 1986, BY. 7265, Ir.-Tur.

*T. kotschyi* Fenzl

Around Venk village, vineyards, 1200 m, 08 vi 1995, BY. 12545, End. Ir.-Tur.

*T. filipes* Boiss.

İ.U. Campus, steppe, 900 m, 16 vi 1986, BY. 7646, Ir.-Tur.

*T. velutina* Boiss.

İ.U. Campus, steppe, 900 m, 09 v 1986, BY. 7249, Ir.-Tur.

*T. strangulata* Boiss.

Beydağı, between Konak and Karagözlü village, vineyards, 1300 m, 03 vi 1995, BY. 12389, Ir.-Tur.

*T. monantha* C.A.Mey. subsp. *monantha*

İ.U. Campus, steppe, 900 m, 09 v 1986, BY. 7264, Ir.-Tur.

*T. monantha* C.A.Mey. subsp. *noeana* (Boiss.) Hub.-Mor.

İ.U. Campus, steppe, 900 m, 11 v 1987, BY., İ. Erkuş 1040, Ir.-Tur.

*T. orthoceras* Kar. & Kir.

İ.U. Campus, steppe, 900 m, 16 vi 1986, BY. 7645, Ir.-Tur.

*T. spicata* Sibth. & Sm.

Venk village, Tavşan hill, calcareous area, 1500 m, 20 v 1995, BY. 12165, E. Medit.

*T. coeruleascens* (Bieb.) Hal.

Çamurlu village, Toptaş brook, steppe, 1500 m, 20 v 1995, BY. 12041, Ir.-Tur.

*Medicago radiata* L.

Kilizik village, Balıkdere, calcareous area, 1200 m, 10 v 1990, BY. 8798, Ir.-Tur.

*M. lupulina* L.

İ.U. Campus, steppe, 900 m, 16 vi 1986, BY. 7685-b.

*M. noeana* Boiss.

İ.U. Campus, steppe, 900 m, 16 vi 1986, BY. 7685-a, Ir.-Tur?

*M. minima* (L.) Bart. var. *minima*

Çamurlu village, Toptaş brook, calcareous area, 1500 m, 20 v 1995, BY. 12029.

*M. rigidula* (L.) All. var. *rigidula*

Beydağı, İnderesi, calcareous rocks, 1000-1200 m, 01 vi 1996, BY. 13348-b.

\**M. rigidula* (L.) All. var. *submitis* (Boiss.) Heyn

Beydağı, İnderesi, calcareous rocks and steppe, 1000-1200 m, 01 vi 1996, BY. 13348-a.

*Lotus corniculatus* L. var. *corniculatus*

Beydağı, east of Eskiçamurlu village, streamside, 1700 m, 08 vi 1995, BY. 12665.

*L. gebelia* Vent. var. *gebelia*

İ.U. Campus, steppe, 900 m, 04 vi 1986, BY. 7616,

*L. strictus* Fisch. & Mey.

Beydağı, east of Eskiçamurlu village, streamside, 1600-1700 m, 08 vi 1995, BY. 12654, Ş.Yanan

\**L. malataicus* Poinert

Around Kilizik village, vineyards, 1000 m, 02 vii 1996, BY. 13603-b, End.

*Coronilla scorpioides* (L.) Koch

Venk village, Tavşan hill, calcareous area, 1600 m, 20 v 1995, BY. 12195.

*C. varia* L. subsp. *varia*

Beydağı, between Konak and Karagözlü village, calcareous area, 1100-1200 m, 03 vi 1995, BY. 12473, Ş.Yanan.

*Hedysarum varium* Willd.

Between Konak and Karagözlü village, vineyards, 1300 m, 03 vi 1995, BY. 12364.

*H. pogonocarpum* Boiss.

Venk village, Tavşan hill, calcareous area, 1600 m, 20 v 1995, BY. 12198, End.

*Onobrychis fallax* Freyn & Sint. var. *fallax*

Venk village, vineyards and steppe, 1000 m, 25 vi 1995, BY. 12920, End. Ir.-Tur.

*O. montana* DC. subsp. *cadmea* (Boiss.) P.W.Ball

Beydağı, between Karagözlü village and Yağlıpınar wold, calcareous area, 1900-2100 m, 01 vii 1994, BY. 11658.

*O. oxyodonta* Boiss.

Around Kilizik village, vineyards, 1000 m, 02 vii 1996, BY. 13603-a.

*O. argyrea* Boiss. subsp. *argyrea*

İ.U. Campus, steppe, 900 m, 16 vi 1986, BY. 7631, End. Ir.-Tur.

*O. cappadocica* Boiss.

Venk village, vineyards and steppe, 1000 m, 25 vi 1995, BY. 12926, End. Ir.-Tur.

\**Ebenus longipes* Boiss. & Balansa

Konak, around Karagözlü village, vineyards, 1300 m, 03 vi 1995, BY. 12361, End. Ir.-Tur.

*E. laguroides* Boiss. var. *laguroides*

Venk village, Tavşan hill, calcareous area, 1500-1600 m, 07 vii 1996, BY. 13712; Konak, Hacıemir Dağı, steppe, 1600-1800 m, 01 vii 1996, BY. 13526, End. Ir.-Tur.

*Alhagi pseudalhagi* (Bieb.) Desv.

Beydağı, around Eskiçamurlu, Dil hill, 1800 m, 01 v 1996, BY. 13073-b, Ir.-Tur.

## ROSACEAE

*Prunus spinosa* L. subsp. *dasyphylla* (Schur) Domin

Beydağı, Konak, around Karagözlü village, vineyards, 1300 m, 03 vi 1995, BY. 12366, Ş.Yanan, Euro.-Sib.

*Cerasus prostrata* (Lab.) Ser. var. *prostrata*

Beydağı, around Eskiçamurlu, Dil hill, 1800 m, 01 v 1996, BY. 13073.

*C. microcarpa* (C.A.Mey.) Boiss. subsp. *microcarpa*

Between Gündüzbey and Kozluk village, streamside, 1100 m, 04 v 1996, BY. 13133.

*C. mahaleb* (L.) Mill. var. *mahaleb*

Beydağı, between Konak and Karagözlü village, vineyards, 1100-1200 m, 03 vi 1995, BY. 12467

*Amygdalus communis* L.

Venk village, Tavşan hill, calcareous rocks, 1400 m, 06 vii 1996, BY. 13666.

*A. trichamygdalus* (Hand.-Mazz.) Woronov var. *trichamygdalus*

Between Gündüzbey and Kozluk village, west slopes, 1100-1250 m, 04 v 1996, BY. 3108; Venk village, vineyards, 950 m, 25 vi 1996, BY. 13453, Ir.-Tur.

*A. orientalis* Mill.

Beydağı, around Eskiçamurlu village, Dil hill, 1800 m, 01 v 1996, BY. 13071; Between Gündüzbey and Kozluk village, west slopes, 1100-1250 m, 04 v 1996 BY. 13110, Ş.Yanan, Ir.-Tur.

*A. arabica* Oliv.

Venk village, Tavşan hill, 1000-1200 m, 01 vi 1995, BY. 12994, Ir.-Tur.

*A. lycioides* Spach var. *lycioides*

Between Gündüzbey and Kozluk village, west slopes, 1250 m, 04 v 1996 BY. 13110.

*Rubus caesius* L.

Beydağı, east of Eskiçamurlu village, streamside, 1600 m, 08 vi 1995, BY. 12666.

*R. sanctus* Schreb.

Gündüzbey, Kozluk brook, wet places, 1100 m, 08 ix 1996, BY. 14080.

*Potentilla speciosa* Willd. var. *speciosa*

Beydağı, Yağlıpınar wold, 2000-2100 m, 10 ix 1996, BY. 13971, Ş.Yanan.

*Geum urbanum* L.

Beydağı, İnderesi, calcareous area, 1000 m, 06 vii 1996, BY. 13745, Euro.-Sib.

*Rosa canina* L.

Venk village, Tavşan hill, calcareous area, 1600 m, 08 vi 1996, BY. 13371.

*R. foetida* Herrm.

Venk village, Tavşan hill, *Quercus* scrub, 1400 m, 18 v 1996, BY. 13232, Ir.-Tur.

*R. hemisphaerica* Herrm

Gündüzbey, Kozluk brook, mixed scrub, 08 ix 1996, BY. 14104, Ir.-Tur.

\**Cotoneaster melanocarpus* (Bunge) Fisch.

Kilizik village, Dil hill, calcareous steppe, 1500 m, 14 vi 1995, BY. 12781.

*Crataegus orientalis* Pall. ex Bieb. var. *orientalis*

İ.U. Campus, steppe, 900 m, EA. 2646.

*C. szovitsii* Pojark.

Konak, Between Horata and Beydağı, vineyards, 1000 m, 03 vi 1995, BY. 12510, Ir.-Tur.

*C. aronia* (L.) Bosc. ex DC. var. *aronia*

Venk village, Tavşan hill, 1000-1200 m, 01 vi 1995, BY. 13004.

*C. sinaica* Boiss.

Venk village, Tavşan hill, 1000-1200 m, 1 vi 1995, BY. 13014, Ir.-Tur

*C. curvisepala* Lindm.

Venk village, Tavşan hill, 1000-1200 m, 1 vi 1995, BY. 13009.

*C. monogyna* Jacq. subsp. *azarella* Gris

Konak, around Karagözlü village, vineyards, 1300 m, 03 vi 1995, BY. 12403.

\**C. microphylla* C.Koch

Between Gündüzbey and Kozluk village, 1100 m, 04 v 1996, BY. 13125, Hyr.-Euxine.

*Sorbus umbellata* (Desf.) Fritsch var. *umbellata*

Konak, Hacıemir Dağı, steppe, 1600-1800 m, 01 vii 1996, BY. 13515, Ş.Yanan.

*S. torminalis* (L.) Crantz var. *torminalis*

Beydağı, Yağlıpınar wold, 2000-2100 m, 10 ix 1996, BY. 13990, Euro. Sib.

*Pyrus syriaca* Boiss. var. *syriaca*

Between Gündüzbey and Kozluk village, west slopes, 1100-1250 m, 04 v 1996 BY. 13121 & Ş.Yanan.

*P. elaeagnifolia* Pall. subsp. *kotschyana* (Boiss.) Browicz

Kilizik village, calcareous area, 1000-1100 m, 20 v 1995, BY. 12154.

## LYTHRACEAE

*Lythrum salicaria* L.

Around Eskiçamurlu village, streamside, 1600 m, 01 vii 1995, BY. 12950, Euro.-Sib.

## CRASSULACEAE

*Umbilicus erectus* DC.

Venk village, Tavşan hill, calcareous rocks, 1600 m, 08 vi 1996, BY. 13369.

*Rosularia libanotica* (Lab.) Muirhead

Between Gündüzbey and Kozluk village, calcareous slopes, 1100-1200 m, 21 v 1995 BY. 12233, E. Medit.

*R. radiciflora* Boiss. subsp. *radiciflora*

Beydağı, Summit, 2520 m, 01 vii 1994, BY. 11673, Ir.-Tur.

*Sedum album* L.

Kilizik village, Dil hill, calcareous steppe, 1500 m, 14 vi 1995, BY. 12771.

*S. pallidum* Bieb. var. *pallidum*

Beydağı, İnderesi, calcareous rocks and steppe, 1200 m, 01 vi 1996, BY. 13351.

*S. nanum* Boiss.

Gündüzbey, Kozluk brook, wet places, 1100 m, 08 ix 1996, BY. 14106-c.

## SAXIFRAGACEAE

*Saxifraga tridactylites* L.

Venk village, steppe, 1000-1200 m, 02 v 1996, BY. 13096, Ş.Yanan

## APIACEAE

*Actinolema macrolema* Boiss.

Beydağı, between Konak and Karagözlü village, calcareous area, 1100-1200 m, 03 vi 1995, BY. 12430, Ir.Tur.

*Eryngium billardieri* Delar.

Above Kilizik village, Dil hill, 1700-2000 m, 02 vii 1995, BY. 13063, Ir.-Tur.

*Chaerophyllum crinitum* Boiss.

Venk village, Tavşan hill, calcareous area, 1500 m, 08 vi 1996, BY. 13398, Ir.-Tur.

*Anthriscus nemorosa* (Bieb.) Spreng.

Between Gündüzbey and Yukarı Kozluk village, *Quercus* scrub, 1500 m, 01 iv 1995, BY. 11922.

*Scandix stellata* Banks & Sol.

Beydağı, around Eskiçamurlu village, 1800 m, 20 v 1995, BY. 12100, Ş.Yanan

*S. aucheri* Boiss.

Kilizik village, Dil hill, calcareous steppe, 1500 m, 14 vi 1995, BY. 12789, Ir.-Tur.

*S. iberica* Bieb.

South of Kilizik village, vineyards, 1000-1100 m, 14 vi 1995, BY. 12759.

*S. pecten-veneris* L.

Venk village, Tavşan hill, calcareous area, 1600 m, 08 vi 1995, BY. 12606.

*Smyrniium cordifolium* Boiss.

Venk village, Tavşan hill, calcareous rocks, 1500-1600 m, 18 v 1996, BY. 13216, Ir.-Tur.

*Bunium paucifolium* DC. var. *paucifolium*

Beydağı, Balıkdereesi, steppe, 1200-1400 m, 10 v 1990 EA. & BY. 8777, Ir.-Tur.

*B. microcarpum* (Boiss.) Freyn subsp. *bourgaei* (Boiss.) Hedge & Lamond

Konak, Hacıemir Dağı, steppe, 1600-1800 m, 01 vii 1996, BY. 13519, Ir.-Tur.

*Pimpinella paucidentata* Matthews

In fissuris rupium montis Begdagh (Beydağı.) Cataoniae prope Malatia, Hausskn. Ir.-Tur.

*P. peucedanifolia* Fischer ex Ledeb.

Gündüzbey, Kozluk valley, east slopes, 1200 m, 08 ix 1996, BY. 14114, Ir.-Tur.

*Prangos pabularia* Lindl.

Beydağı, east of Eskiçamurlu village, steppe and rocks, 1500-1600 m, 08 vi 1995 BY. 12692; Beydağı, Yağlıpınar wold, 2100 m, 10 ix 1996, BY. 13949, Ir.-Tur.

*P. peucedanifolia* Fenzl

Beydağı, between Konak and Karagözlü village, calcareous area, 1100-1200 m, 03 vi 1995, BY. 12431, Ir.-Tur.

*Heptaptera anisoptera* (DC.) Tutin

Venk village, Tavşan hill, calcareous rocks, 1600 m, 07 vii 1996, BY. 13732.

*Bupleurum croceum* Fenzl

İ.U. Campus, steppe, 900 m, 04 v 1987, BY., G. Taş 1019, Ir.-Tur.

*B. papillosum* DC.

Around Venk village, vineyards, 1000 m, 08 vi 1995, BY. 12530, End. Ir.-Tur.

*B. gerardii* All.

İ.U. Campus, steppe, 900 m, 16 vi 1986, BY. 7672.

*Johrenia berytea* Boiss. & Hausskn.

Venk village, Tavşan hill, calcareous rocks, 1400-1600 m, 07 vii 1996, BY. 13675, End.

*Ferula orientalis* L.

Venk village, Tavşan hill, calcareous area, 1500 m, 08 vi 1996, BY. 13379, Ir.-Tur.

*Pastinaca sativa* L.

Gündüzbey, Kozluk brook, wet places, 1100 m, 08 ix 1996, BY. 14074.

*\*Peucedanum depauperatum* Boiss. & Balansa

Beydağı, Yağlıpınar wold, 2000-2100 m, 10 ix 1996, BY. 13981, E.Medit.

*P. palimbioides* Boiss.

Beydağı, Yağlıpınar wold, 2000-2100 m, 10 ix 1996, BY. 13965, End. Ir.-Tur.

*Zosima absinthifolia* (Vent.) Link

Venk village, Tavşan hill, calcareous area, 500-1600 m, 20 v 1995, BY. 12200.

*Ormosciadium aucheri* Boiss.

Around Venk village, vineyards, 1000-1200 m, 08 vi 1995, BY. 12540.

*Torilis leptophylla* (L.) Reichb.

Venk village, Tavşan hill, calcareous area, 1600 m, 20 v 1995, BY. 12176.

*Astrodaucus orientalis* (L.) Drude

İ.U. Campus, steppe, 900 m, 16 vi 1986, BY. 7639, Ir.-Tur.

*Caucalis platycarpus* L.

Venk village, vineyards, 1000-1200 m, 08 vi 1995, BY. 12528.

*Turgenia latifolia* (L.) Hoffm.

Kilizik village, calcareous area, 1000-1100 m, 20 v 1995, BY. 12143.

*Lisaea heterocarpa* (DC.) Boiss.

İ.U. Campus, steppe, 900 m, 16 vi 1986, BY. 7694, Ir.-Tur.

*Daucus carota* L.

Gündüzbey, Kozluk brook, wet places, 1100 m, 08 ix 1996, BY. 14075.

**Artemisia squamata** L.

Konak, around Karagözlü village, 1300 m, 03 vi 1995, BY. 12396.

**CORNACEAE**

**Cornus mas** L.

Gündüzbey, Kozluk brook, damp places, 1100 m, 08 ix 1996, BY. 14093, Euro.-Sib.

**C. sanguinea** L. subsp. **australis** (C.A.Mey.) Jav.

Beydağı, around Eskiçamurlu village, streamside, 1600-1700 m. 08 vi 1995, BY. 12655; Gündüzbey, Kozluk brook, 1100 m, 08 ix 1996, BY. 14095, Euro.-Sib.

**CAPRIFOLIACEAE**

**Lonicera caucasica** Pall. subsp. **orientalis** (Lam.) Chamb. & Long

Between Gündüzbey and Kozluk village, calcareous slopes, 1100-1200 m, 21 iv 1995, BY. 11948. End.

**L. nummulariifolia** Jaub. & Spach subsp. **nummulariifolia**

Gündüzbey, Kozluk brook, wet places, 1100 m, 08 ix 1996, BY. 14094.

**RUBIACEAE**

**Crucianella macrostachya** Boiss.

Venk village, Tavşan hill, calcareous area, 1600 m, 08 vi 1995, BY. 12607, E. Medit.

**Asperula laxiflora** Boiss.

Beydağı, between Konak and Karagözlü village, vineyards, 1100-1200 m, 03 vi 1995, BY. 12469, Euxine.

**A. glomerata** (Bieb.) Griseb. subsp. **glomerata**

Konak, around Karagözlü village, vineyards, 1300 m, 03 vi 1995, BY. 12387, Ir.-Tur.

**A. glomerata** (Bieb.) Griseb. subsp. **condensata** (Ehrend.) Ehrend. var. **condensata**

Venk village, Tavşan hill, calcareous area, 1400 m, 20 v 1995, BY. 12185, Ir.-Tur.

**A. stricta** Boiss. subsp. **stricta**

Beydağı, between Konak and Karagözlü village, calcareous area, 1100-1200 m, 03 vi 1995, BY. 12438, E.Medit.

**A. stricta** Boiss. subsp. **latibracteata** (Boiss.) Ehrend.

Kilizik village, Dil hill, sandy soil, 1500 m, 14 vi 1995, BY. 12812, End. Ir.-Tur.

**A. xylorrhiza** Nab.

Beydağı, between Konak and Karagözlü village, steppe, 1100-1200 m, 03 vi 1995, BY. 12453, Ir.-Tur.

**A. orientalis** Boiss. & Hohen.

Kilizik village, calcareous area, 1000-1100 m, 20 v 1995, BY. 12125, Ir.-Tur.

**A. arvensis** L.

Kilizik village, calcareous area, 1000-1100 m, 20 v 1995, BY. 12119, Medit.

**A. setosa** Jaub. & Spach

Kilizik village, Dil hill, calcareous steppe, 1300 m, 14 vi 1995, BY. 12793, Ir.-Tur.

**Galium verum** L. subsp. **verum**

Beydağı, between Konak and Karagözlü village, vineyards, 1100-1200 m, 03 vi 1995, BY. 12363, Euro.-Sib.

**G. consanguineum** Boiss.

Beydağı, between Konak and Karagözlü village, vineyards and calcareous area, 1300 m, 03 vi 1995, BY. 12410, Ir.-Tur.

**G. incanum** Sm. subsp. **elatius** (Boiss.) Ehrend.

Konak, Karagözlü village, north slopes, 1600 m, 03 vi 1995, BY. 12348, Ir.-Tur.

**G. setaceum** Lam.

İ.U. Campus, 900 m, 04 vi 1986, BY. 7620.

**\*G. spurium** L. subsp. **spurium**

Çamurlu village, Toptaş brook, 1500 m, 20 v 1995, BY.12075, Euro.-Sib.

**G. spurium** L. subsp. **ibicinum** (Boiss. & Hausskn. ex Boiss.) Ehrend.

Venk village, Tavşan hill, calcareous area, 1400 m, 08 vi 1995, BY. 12601, Ir.-Tur.

**G. tricornutum** Dandy

Çamurlu village, Toptaş brook, 1000-1200 m, 08 vi 1995, BY. 12715, Medit.

**G. haussknechtii** Ehrend.

Between Gündüzbey and Kozluk village, calcareous slopes, 1100-1200 m, 21 v 1995 BY. 12242, Ir.-Tur.

**G. tenuissimum** Biéb. subsp. **trichophorum** (Kar. & Kit.) Ehrend.

Venk village, Tavşan hill, calcareous area, 1400 m, 08 vi 1995, BY. 12595, Ir.-Tur.

**\*G. floribundum** Sm. subsp. **floribundum**

Beydağı, between Konak and Karagözlü village, vineyards and calcareous area, 1100-1200 m, 03 vi 1995, BY. 12433.

**G. verticillatum** Danth. ex Lam.

Venk village, Tavşan hill, calcareous area, 1300 m, 08 vi 1995, BY. 12594, Medit.

**Callipeltis cucullaria** (L.) Steven

Beydağı, between Konak and Karagözlü village, calcareous area, 1100-1200 m, 03 vi 1995, BY. 12414, Ir.-Tur.

**Cruciata taurica** (Pallas ex Willd.) Ehrend.

Venk village, Tavşan hill, calcareous area, 1400 m, 20 v 1995, BY. 12192, Ir.-Tur.

**C. articulata** (L.) Ehrend.

İ.U. Campus, steppe, 900 m, 09 v 1986, BY. 7254, Ir.-Tur.

**VALERIANACEAE**

**Valeriana sisymbriifolia** Vahl

Venk village, Tavşan hill, calcareous area, 1600 m, 20 v 1995, BY. 12187, Ir.-Tur.

**V. dioscoridis** Sm.

Between Gündüzbey and Kozluk village, calcareous slopes, 1100-1200 m, 21 iv 1995, BY. 11941, E. Medit.

**Valerianella tuberculata** Boiss.

Beydağı, south of Eskiçamurlu village, calcareous east slopes, 1800-2000 m, 08 vi 1995, BY. 12627, Ir.-Tur.

**V. uncinata** (Bieb.) Dufur.

Konak, Karagözlü village, north slopes, 1600 m, 03 vi 1995, BY. 12351, Ir.-Tur.

**V. dactylophylla** Boiss. & Hohen.

Kilizik village, calcareous area, 1000-1100 m, 20 v 1995, BY. 12123, Ir.-Tur.

**V. oxyrhyncha** Fisch. & Mey.

Kilizik village, Dil hill, calcareous steppe, 1500 m, 14 vi 1995, BY. 12791, Ir.-Tur.



**V. cymbicarpa** C.A.Mey.

Venk, village, Tavşan hill, calcareous rocks, 1500 m, 02 v 1996, BY. 13091.

**\*V. locusta** (L.) Laterr.

İ.U. Campus, steppe, 900 m, 11 v 1987, H. Eren s.n., Euro.-Sib.

**V. pumila** (L.) DC.

South of Kilizik village, vineyards and protected area, 1000-1100 m, 14 vi 1995, BY. 12747.

**V. coronata** (L.) DC.

Konak, around Karagözlü village, vineyards, 1300 m, 03 vi 1995, BY. 12380.

**V. vesicaria** (L.) Moench

Çamurlu village, Toptaş brook, calcareous area, 1500 m, 20 v 1995, BY. 12065.

**V. kotschy** Boiss.

Beydağı, 2000 m. Yıldırımli 9317.

**MORINACEAE****Morina persica** L.

Venk village, Tavşan hill, calcareous area, 1600 m, 08 vi 1995, BY. 12585, Ir.-Tur.

**DIPSACACEAE****Cephalaria syriaca** (L.) Schrad.

İ.U. Campus, 900 m, 04 vi 1986, BY. 7623.

**C. stellipilis** Boiss.

above Malatya. *Hauskn.*, Ir.-Tur.

**Scabiosa argentea** L.

Konak, Hacıemir Dağı, steppe, 1600-1800 m, 01 vii 1996, BY. 13524-b.

**S. rotata** Bieb.

İ.U. Campus, steppe, 900 m, 26 vi 1986, EA. 0122, Ir.-Tur.

**Pteroccephalus plumosus** (L.) Coult.

Beydağı, İnderesi, calcareous rocks, 1000-1200 m, 01 vi 1996, BY. 13347-a.

**P. pinardii** Boiss.

Beydağı, İnderesi, calcareous rocks, 1200 m, 01 vi 1996, BY. 13347-b, End. E.Medit.

**ASTERACEAE****Xanthium strumarium** L. subsp. **cavanillesii** (Schouw) D.Löve & Dans.

Malatya to Yeşilyurt, fallow field, 950 m, 23 vi 1995, BY. 12907.

**Inula oculus-christi** L.

Venk village, Tavşan hill, calcareous north slope, 1400 m, 07 vii 1996, BY. 13742, Euro.-Sib.

**I. fragilis** Boiss. & Hauskn.

Kilizik village, calcareous area 1200 m, 28 vi 1994, BY. 11638, End. Ir.-Tur.

**\*I. graveolens** (L.) Desf.

İ.U. Campus, 900 m, EA. 2645, Medit.

**Helichysum plicatum** DC. subsp. **plicatum**

İ.U. Campus, 900 m, 25 vi 1986, EA. 0101.

**H. arenarium** (L.) Moench subsp. **rubicundum** (C.Koch) Davis & Kupicha

Around Venk village, steppe, c. 1000 m, 25 vi 1995, BY. 12936. Ir.-Tur.

**Filago pyramidata** L.

İ.U. Campus, 900 m, 16 vi 1986, BY. 7652.

**Logfia arvensis** (L.) Holub

Konak, around Karagözlü village, calcareous area, 1100-1200 m, 03 vi 1995, BY. 12438-b, Ş.Yanan.

**\*Aster alpinus** L.

Kilizik place, Dil hill, calcareous steppe, 1300-1500 m, 14 vi 1995, BY. 12782.

**Erigeron caucasicus** Stev. subsp. **venustus** (Botsch.) Grierson

Beydağı, around Eskiçamurlu village, streamside, 1400-1600 m, 01 vii 1995, BY. 12949, Ir.-Tur.

**E. acer** L. subsp. **acer**

İ.U. Campus, steppe, 900 m, EA. 2188.

**Conyza canadensis** (L.) Cronquist

Beydağı, around Eskiçamurlu village, streamside, 1600 m, 01 vii 1995, BY. 12962b.

**Senecio eriospermus** DC. var. **eriospermus**

Beydağı, east of Eskiçamurlu village, steppe and rocks, 1600-1800 m. 08 vi 1995, BY. 12691, Ir.-Tur.

**S. pseudo-orientalis** Schischk.

Beydağı, west slopes, calcareous area, 1800 m, 06 vi 1994, BY. 11505, Ir.-Tur.

**S. vernalis** Waldst. & Kit.

İ.U. Campus, steppe, 900 m, 25 vi 1987, EA. 0087.

**Tussilago farfara** L.

Between Konak and Karagözlü village, vineyards, 1000-1200 m, 20 iii 1995 BY. 11913, Euro.-Sib.

**Eupatorium cannabinum** L.

Beydağı, around Eskiçamurlu village, streamside, 1400-1600 m, 01 vii 1995, BY. 12970, Euro.-Sib.

**\*Anthemis pauciloba** Boiss. var. **pauciloba**

İ.U. Campus, steppe, 950 m, 12 vi 1993, BY. 10448, End.

**A. fumariifolia** Boiss.

Venk village, vineyards, 1000-1200 m, 08 vi 1995, BY. 12538, End. Ir.-Tur.

**A. scariosa** Banks & Sol.

nr Malatya, 1030 m, *Balls* 2302. Ir.-Tur.

**A. coelopoda** Boiss. var. **bourgaei** Boiss.

İ.U. Campus, steppe, 900 m, 26 vi 1986, EA. 0114.

**\*Achillea lycaonica** Boiss. & Heldr.

Venk village, Tavşan hill, calcareous rocks, 1400-1600 m, 07 vii 1996, BY. 13721, End. Ir.-Tur.

**A. magnifica** Hub.-Mor.

Beydağı, south of Eskiçamurlu village, calcareous east slopes, 1800-2000 m, 08 vi 1995, BY. 12624, End. Ir.-Tur.

**A. aleppica** DC. subsp. **aleppica**

South of Kilizik village, vineyards 1000-1100 m, 14 vi 1995 BY. 12768, Ir.-Tur.

**A. pseudoaleppica** Hub.-Mor.

Beydağı, around Eskiçamurlu village, deep soiled places, 1600 m, 08 vi 1995, BY. 2680, End. Ir.-Tur.

**A. teretifolia** Willd.

Beydağı, around Eskiçamurlu village, deep soiled places, 1600 m, 08 vi 1995, BY. 12682, End. Ir.-Tur.

*A. nobilis* L. subsp. *neilreichii* (Kerner) Formanek

İ.U. Campus, steppe, 900 m, 28 vi 1986, EA. 0176, Euro.-Sib.

*A. Biebersteinii* Afan.

Between Konak and Beydağı, steppe, 1500 m, 03 vi 1995, BY. 12318-b, Ir.-Tur.

*Tanacetum armenum* (DC.) Sch. Bip.

Beydağı, summit, calcareous rocks, 2400-2500 m, 06 vii 1994, BY. 11537.

*T. nitens* (Boiss. & Noé) Grierson

Beydağı, west slopes, calcareous area, 1700-1800 m, 06 vi 1994, BY. 11490; Beydağı, around Eskiçamurlu village, calcareous east slopes, 2000 m. 08 vi 1995, BY. 12628, End.

*T. densum* (Lab.) Sch. Bip. subsp. *amani* Heywood

Between Konak and Beydağı, calcareous area, 1300 m, 14 v 1994, BY. 11395, End.

*T. argenteum* (Lam.) Willd. subsp. *argenteum*

Venk village, Tavşan hill, calcareous rocks, 1400-1600 m, 07 vii 1996, BY. 13692, End. Ir.-Tur.

*Tripleurospermum oreades* (Boiss.) Rech.f. var. *tchihatchewii* (Boiss.) E. Hossain

Between Konak and Beydağı, calcareous area, 1300 m, 14 v 1994, BY. 11396.

*T. decipiens* (Fisch. & Mey.)

İsmet Paşa to Gündüzbek, 1090 m, *Hub.-Mor.* 9016.

*Gundelia tournefortii* L. var. *armanta* Freyn & Sint.

İ.U. Campus, steppe, 900 m, 01 vi 1987, H.Eren s.n., Ir.-Tur.

*Cousinia cataonica* Boiss. & Hausskn.

Beydağı, İnderesi, calcareous area, 1000 m, 06 vii 1996, BY. 13743-a, End. Ir.-Tur.

*C. foliosa* Boiss. & Balansa

Venk village, Tavşan hill, calcareous rocks, 1400-1600 m, 07 vii 1996, BY. 13725, End. Ir.-Tur.

*Onopordum candidum* Nab.

İ.U. Campus, steppe, 900 m, 18 vii 1986, EA. 0223, Ir.-Tur.

\**O. anatolicum* (Boiss.) Eig

Around Venk village, vineyards and steppe, 1000 m, 25 vi 1995, BY. 12921, End. Ir.-Tur.

*Cirsium cephalotes* Boiss.

Beydağı, around Eskiçamurlu village, streamside, 1400-1600 m, 01 vii 1995, BY. 12956, Euxine.

*C. macrobotrys* (C.Koch) Boiss.

Beydağı, Yağlıpınar wold, 2000-2100 m, 10 ix 1996, BY. 13962.

*C. haussknechtii* Boiss.

Venk village, Tavşan hill, calcareous rocks, 1600 m, 07 vii 1996, BY. 13735, Ir.-Tur.

*C. elodes* Bieb.

Kilizik village, Dil hill, 1700-2000 m, 02 vii 1995, BY. 13058, Ir.-Tur.

*C. libanoticum* DC. subsp. *arachnoideum* Davis & Parriss

Venk village, Tavşan hill, south slopes, 1500 m, 18 v 1996, BY. 13219, Ir.-Tur.

*Ptilostemon afer* (Jacq.) Greuter subsp. *eburneus* Greuter

Kilizik village, Dil hill, 1700-2000 m, 02 vii 1995, BY. 13051, End.

*Carduus nutans* L. var. *nutans*

İ.U. Campus, 900 m, 27 vi 1986, EA. 0223.

*C. pycnocephalus* L. subsp. *albidus* (Bieb.) Kazmi

İ.U. Campus, steppe, 900 m, 25 vi 1986, EA. 0084.

*Jurinea cansanguinea* DC.

South of Kilizik village, vineyards and protected area, 1000-1100 m, 14 vi 1995, BY. 12749-a.

*J. cataonica* Boiss. & Hausskn.

South of Kilizik village, vineyards and protected area, 1000-1100 m, 14 vi 1995, BY. 12749-b, End. Ir.-Tur.

*Serratula cerinthifolia* (Sm.) Boiss.

Venk village, Tavşan hill, steppe, 1400-1600 m, 07 vii 1996, BY. 13731.

*Centaurea balsamita* Lam.

Kilizik village, calcareous area, 1100-1200 m, 28 vi 1994, BY. 11627, Ir.-Tur.

*C. aggregata* Fisch. & Mey. ex DC. subsp. *aggregata*

Around Venk village, vineyards and steppe, 1000 m, 25 vi 1995, BY. 12929.

*C. virgata* Lam.

Venk village, Tavşan hill, calcareous rocks, 1400-1600 m, 07 vii 1996, BY. 1373, Ir.-Tur.

\**C. drabifolia* Sm. subsp. *cappadocica* (DC.) Wagenitz

Beydağı, west slopes, calcareous area, 2300 m, 01 vii 1996, BY. 13583-a, End.

*C. stapfiana* (Hand.-Mazz.) Wagenitz

Venk village, Tavşan hill, 1000-1200 m, 01 vi 1995, BY. 13000, End. Ir.-Tur.

*C. polypodiifolia* Boiss. var. *polypodiifolia*

Konak, around Karagözlü village, vineyards, calcareous area, 1100-1200 m, 03 vi 1995, BY. 12437, Ir.-Tur.

*C. urvillei* DC. subsp. *urvillei*

Kilizik village, Dil hill, 1700-2000 m, 02 vii 1995, BY. 13052, E.Medit.

*C. urvillei* DC. subsp. *armata* Wagenitz

İ.U. Campus, steppe, 900 m, 27 vi 1986, EA. 0165, Medit.

*C. urvillei* DC. subsp. *hayekiana* Wagenitz

Around Venk village, vineyards and steppe, c. 1000 m, 25 vi 1995, BY. 12918, Ir.-Tur.

*C. urvillei* DC. subsp. *nimrodus* (Boiss. & Hausskn.) Wagenitz

South of Kilizik village, vineyards and protected area, 1000-1100 m, 14 vi 1995 BY. 12763, Ir.-Tur.

*C. carduiformis* DC. subsp. *carduiformis* var. *carduiformis*

Venk village, Tavşan hill, calcareous rocks, 1600 m, 07 vii 1996, BY. 13726.

*C. triumfettii* All.

İ.U. Campus, 900 m, 25 vi 1986, EA. 0103.

*C. depressa* Bieb.

İ.U. Campus, steppe, 900 m, 04 v 1987, BY., G.Taş 1054-a.

- Zogea lepturea* L.  
Around Venk village, vineyards, 1000-1200 m, 08 vi 1995, BY. 12546, Ir.-Tur.
- Crupina crupinastrum* (Moris) Vis.  
İ.U. Campus, steppe, 900 m, 04 vi 1986, BY. 7622.
- Cnicus benedictus* L. var. *benedictus*  
İ.U. Campus, steppe, 900 m, 09 v 1986, BY. 7244.
- Carthamus persicus* Willd.  
İ.U. Campus, steppe, 900 m, 04 vi 1986, EA. 0188, Ir.-Tur.
- C. dentatus* Vahl.  
İ.U. Campus, steppe, 900 m, 18 vii 1986, EA. 0229.
- Carlina oligocephala* Boiss. & Kotschy subsp. *oligocephala*  
Kilizik village, Dil hill, 1700-2000 m, 02 vii 1995, BY. 13059.
- Xeranthemum longipapposum* Fisch. & Mey.  
İ.U. Campus, steppe, 900 m, 25 vi 1986, EA. 0093, Ir.-Tur.
- Siebera pungens* (Lam.) J.Gay  
Venk village, Tavşan hill, 1000-1200 m, 01 vi 1995, BY. 13001, Ir.-Tur.
- Echinops ritro* L.  
Kilizik village., Dil hill, 1700-2000 m, 02 vii 1995, BY. 13055.
- E. pungens* Trautv. var. *pungens*  
Kilizik village, Dil hill, 1700-2000 m, 02 vii 1995, BY. 13054, Ir.-Tur.
- E. melitenensis* Hedge & Hub.-Mor.  
İ.U. Campus, steppe, 900 m, 25 vi 1986, EA. 0108, End. Ir.-Tur.
- \**Scorzonera suberosa* C. Koch. subsp. *suberosa*  
Around Venk village, steppe, 1000-1200 m, 02 v 1996, BY. 13101, Ir.-Tur.
- S. mollis* Bieb. subsp. *mollis*  
Between Gündüzbey and Kozluk village, streamside, 1100 m, 04 v 1996, BY. 13124.
- \**S. phaeopappa* (Boiss.) Boiss.  
Between Konak and Hacıemir Dağı, calcareous area, 1300 m, 09 v 1996, BY. 13143, Ir.-Tur.
- S. semicana* DC.  
Between Konak and Beydağı, 1300 m, 14 v 1994, BY. 11393, End. Ir.-Tur.
- S. pseudolanata* Grossh.  
Between Konak and Beydağı, steppe, 1500 m, 03 vi 1995, BY. 12314, Ir.-Tur.
- S. latifolia* (Fisch. & Mey.) DC.  
South of Kilizik village, vineyards and protected area, 1000-1100 m, 14 vi 1995, BY. 12756, Ir.-Tur.
- S. tomentosa* L.  
Beydağı, Yağlıpınar wold, 2000-2100 m, 10 ix 1996, BY. 13994, End. Ir.-Tur.
- S. acantholimon* Hand.-Mazz.  
Yağlıpınar wold, 2000-2100 m, 10 ix 1996, BY. 13973, End. Ir.-Tur
- Tragopogon longirostris* Bisch. ex Sch. Bip. var. *longirostris*  
Between Konak and Hacıemir Dağı, steppe, 1300 m, 09 v 1996, BY. 13171.
- T. coloratus* C.A.Mey.  
İ.U. Campus, steppe, 900 m, 04 vi 1986, BY. 7612, Ir.-Tur.
- Leontodon asperimus* (Willd.) J.Ball  
Beydağı, between Konak and Karagözlü village, vineyards and calcareous area, 1200 m, 03 vi 1995, BY. 12457, Ir.-Tur.
- Rhagadiolus angulosus* (Jaub. & Spach) Kupicha  
Around Venk village, steppe, 1000-1200 m, 02 v 1996, BY. 13105, Ir.-Tur.
- Hieracium pannosum* Boiss.  
Beydağı, around Eskiçamurlu village, streamside, 1600 m, 01 vii 1995, BY. 12959, E. Medit.
- Pilosella x maschukensis* (Litw. & Zahn) Sojak  
Beydağı, İnderesi, calcareous area, in caves, 1000 m, 06 vii 1996, BY.13744.
- Cephalorrhynchus tuberosus* (Stev.) Schchian  
Venk village, Tavşan hill, calcareous area, 1600 m, 08 vi 1995, BY. 12593.
- Steptorhamphus tuberosus* (Jacq.) Grossh.  
Beydağı, west slopes, calcareous area, 1700-1800 m, 06 vi 1994, BY. 11512.
- Lactuca serriola* L.  
Venk village, Tavşan hill, 1000-1200 m, 01 vi 1995, BY. 12998, Euro.-Sib.
- L. undulata* Ledeb.  
Venk village, Tavşan hill, 1000-1100 m, 01 vi 1995, BY. 13008, Ir.-Tur.
- Taraxacum montanum* (C.A.Mey.) DC.  
Beydağı, Yağlıpınar wold, 2000-2100 m, 10 ix 1996, BY. 13995, Ir.-Tur.
- T. scaturiginosum* G.Hagl.  
Between Konak and Hacıemir Dağı, calcareous area, 1200-1300 m, 09 v 1996, BY. 13144.
- T. butleri* Soest  
Between Gündüzbey and Kozluk village, west slopes, 1100-1250 m, 04 v 1996, BY. 13118, Ş.Yanan.
- \**T. turcicum* Soest  
Between Konak and Beydağı, calcareous area, 1300 m, 14 v 1994, BY. 11387, End.
- Chondrilla juncea* L. subsp. *juncea*  
Çamurlu village, Kilizik, vineyards, 1100 m, 28 vi 1999, BY. 14374.
- Lapsana communis* L. subsp. *alpina* (Boiss. & Balansa) Sell  
Beydağı, İnderesi, calcareous rocks, 1200 m, 01 vi 1996, BY. 13342, Medit.
- Crepis foetida* L. subsp. *foetida*  
İ.U. Campus, steppe, 900 m, 25 vi 1986, EA. 0106.
- C. foetida* L. subsp. *rhoeadifolia* (Bieb.) Celak.  
Above Venk village, north slopes, 1400-1500 m, 08 vi 1995, BY. 12573.
- C. sancta* (L.) Babç.  
Between Venk and Eskiçamurlu village, steppe, 1600 m, 08 vi 1995, BY. 12676.

#### CAMPANULACEAE

- Campanula rapunculoides* L. subsp. *rapunculoides*  
Gündüzbey, Kozluk brook, wet places, 1100 m, 08 ix 1996, BY. 14107, Euro.-Sib.
- C. involucrata* Aucher & A. DC.  
West slopes, calcareous area, 1700-1800 m, 03 vi 1995, BY. 12337, Ir.-Tur.

*C. scoparia* (Boiss. & Hausskn.)  
Damboldt

Beydağı, Yağlıpınar wold, 2000-2100 m,  
10 ix 1996, BY. 13989, End. Ir.-Tur.

*C. propinqua* Fisch. & Mey.

Kilizik village, Dil hill, calcareous steppe,  
1500 m, 14 vi 1995, BY. 12774. Ir.-Tur.

*C. reuterana* Boiss. & Balansa

Çamurlu village, Toptaş brook, 1000-  
1200 m, 08 vi 1995, BY. 12714, Ir.-Tur.

*C. stevenii* Bieb. subsp. *beauverdiana*  
(Fomin) Rech.f. & Schiman-Czeika

Beydağı, west slope, steppe, 1600-1700  
m, 03 vi 1995, BY. 12319, Ir.-Tur.

*C. flaccidul* Vatke

Beydağı, west slope, steppe, 1600-1700  
m, 03 vi 1995, BY. 12319, Ir.-Tur.

*Asyneuma limonifolium* (L.) Janch.  
subsp. *limonifolium*

Konak, Hacıemir Dağı, steppe, 1600-  
1800 m, 01 vii 1996, BY. 13525.

*Legousia speculum-veneris* (L.) Chaix

Venk village, Tavşan hill, *Quercus* scrub,  
1300 m, 18 v 1996, BY. 13225, Medit.

*L. pentagonia* (L.) Thell.

İ.Ü. Campus, c. 900 m, 04 vii 1986, EA.  
1053, E.Medit.

#### PRIMULACEAE

*Androsace maxima* L.

Çamurlu village, Toptaş brook,  
calcareous area, 1500 m, 22 iv 1995, BY.  
11976.

*Anagallis arvensis* L. var. *arvensis*

İ.Ü. Campus, c. 900 m, steppe, 04 vii  
1986, EA. 0199.

*A. foemina* Mill.

Venk village, Tavşan hill, calcareous area,  
1400-1600 m, 20 v 1995, BY. 12207,  
Medit.

#### OLEACEAE

*Jasminum fruticans* L.

Between Gündüzbey and Kozluk village,  
calcareous slopes, 1100-1200 m, 21 iv  
1995, BY. 11962, Medit.

*Fraxinus angustifolia* Vahl subsp.  
*syriaca* (Boiss.) Yalt.

Around Venk village, 1000-1200 m, 02 v  
1996, BY. 13094, Ir.-Tur.

#### APOCYNACEAE

*Vinca herbacea* Waldst. & Kit.

Venk village, Tavşan hill, calcareous  
rocks, 1400 m, 07 vii 1996, BY. 13715.

#### ASCLEPIADACEAE

*Vincetoxicum fuscatum* (Hornem.)  
Reichb. fil. subsp. *fuscatum*

Konak, Hacıemir Dağı, steppe, 1600-  
1800 m, 01 vii 1996, BY. 13510, Ş.Yanan.

*V. canescens* (Willd.) Decne subsp.  
*canescens*

Beydağı, Yıldırımli 9332.

#### GENTIANACEAE

*Centaurium erythraea* Rafn subsp.  
*turcicum* (Velen.) Melderis

İ.Ü. Campus, c. 900 m, steppe, 18 vii  
1986, EA. 0217.

*Gentiana olivieri* Griseb.

Between Venk and Eskiçamurlu villages,  
deep soiled places, 1600 m, 08 vi 1995, BY.  
12671, Ir.-Tur.

*G. cruciata* L.

Beydağı, around Eskiçamurlu village,  
streamside, 1400-1600 m. 01 vii 1995, BY.  
12952, Euro.-Sib.

#### CONVOLVULACEAE

\**Convolvulus dorycnium* L. subsp.  
*oxysepalus* (Boiss.) Rech.

Venk village, vineyards and steppe, c.  
1000 m, 25 vi 1995, BY. 12919, E. Medit.

*C. arvensis* L.

İ.Ü. Campus, 900 m, 27 vii 1986, EA.  
0158.

*C. stachydifolius* Choisy

İ.Ü. Campus, c. 900 m, 16 vi 1986, BY.  
7691, Ir.-Tur.

*C. betonicifolius* Mill. subsp.  
*betonicifolius*

Gündüzbey, Kozluk brook, wet places,  
1100 m, 08 ix 1996, BY. 14106-a.

*C. betonicifolius* Mill. subsp.  
*peduncularis* (Boiss.) Parris

Beydağı, east of Eskiçamurlu village,  
steppe, 1800 m. 08 vi 1995, BY. 12694, Ir.-  
Tur.

\**C. scammonia* L.

Gündüzbey, Kozluk brook, wet places,  
1100 m, 08 ix 1996, BY. 14110, E. Medit.

\**Calystegia sepium* (L) R.Br. subsp.  
*sepium*

İ.Ü. Campus, 900 m, 09 v 1986, BY.  
7273.

#### CUSCUTACEAE

*Cuscuta campestris* Yunck.

Malatya to Yeşilyurt, fallow field, 950 m,  
23 vi 1995, on *Xanthium strumarium*, *Alhagi*  
*pseudalhagi*, BY. 12905.

\**C. pedicellata* Ledeb.

Beydağı, Yağlıpınar wold, 2000-2100 m,  
10 ix 1996, on *Thymus fallax*, *Hypericum*  
*scabrum*, BY. 13985.

*C. babylonica* Aucher ex Choisy var.  
*babylonica*

Beydağı, Yağlıpınar wold, 2000-2100 m,  
10 ix 1996, on *Salvia suffruticosa*, *Teucrium*  
*orientale*, BY. 13988-b; Çamurlu village,  
Kilizik, vineyards, 1100 m, 28 vi 1999, on  
*Salvia suffruticosa*, *Teucrium orientale*, BY.  
14370, Ir.-Tur.

*C. planiflora* Ten.

Above Çamurlu village, calcareous north  
slopes, 1000-1100 m, 14 vi 1995, on  
*Thymus sipyleus*, *Thesium billardieri*,  
*Asperula stricta*, BY. 12824.

*C. brevistyla* A.Braun

Beydağı, Yağlıpınar wold, 2000-2100 m,  
10 ix 1996, on *Tanacetum densum*, BY.  
13988a.

#### BORAGINACEAE

\**Heliotropium bovei* Boiss.

Kilizik village, Dil hill, 1700-2000 m, 02  
vii 1995, BY. 13022, E. Medit.

*H. dolosum* De Not.  
İ.U. Campus, steppe, 900 m, 27 vi 1986, EA. 0156.

*H. ellipticum* Ledeb.  
Malatya to Yeşilyurt, fallow field, 950 m, 23 vi 1995, BY. 12907, Ir.-Tur.

\**Lappula patula* (Lehem.) Aschers. ex Gürke  
İ.Ü. Campus, steppe, 900 m, 11 v 1987, H. Çalışkan. s.n.

*Rochelia disperma* (L.f.) C.Koch var. *disperma*  
İ.Ü. Campus, c. 900 m, 04 vi 1986, BY. & G.Taş 1024, End. Ir.-Tur.

*Asperugo procumbens* L.  
Beydağı, around Eskiçamurlu village, calcareous area, 1800 m, 20 v 1995, BY. 12079, Euro.-Sib.

*Myosotis minutiflora* Boiss. & Reut.  
Beydağı, İnderesi, calcareous rocks, 1000-1200 m, 01 vi 1996, BY. 13344, Medit.

*M. refracta* Boiss. subsp. *refracta*  
İ.Ü. Campus, c. 900 m, 04 v 1987, BY. & G.Taş 1042, Medit.

*Paracaryum strictum* (C.Koch) Boiss.  
İ.Ü. Campus, c. 900 m, 18 vi 1986, EA. 0174-b, Ir.-Tur.

*Rindera caespitosa* (A. DC.) Bunge  
Beydağı, summit, calcareous rocks, 2400 m, 06 vii 1994, BY. 11539, End. Ir.-Tur.

*Buglossoides arvensis* (L.) Johnst.  
İ.Ü. Campus, 900 m, 16 vii 1986, BY. 7673.

*B. tenuiflora* (L.fil.) Johnst.  
Beydağı, Yıldırımli 9230.

*Neatostema apulum* (L.) Johnst.  
İ.Ü. Campus, 900 m, steppe, 09 v 1986, BY. 7243, Medit.

*Echium glomeratum* Poir.  
İ.U. Campus, steppe, 900 m, 16 vi 1986, BY. 7629, E. Medit.

\**E. angustifolium* Mill.  
İ.U. Campus, steppe, 950 m, 04 v 1987, BY., G.Taş 1058, E. Medit.

*Moltkia coerulea* (Willd.) Lehm.  
İ.Ü. Campus, 900 m, 04 v 1987, G.Taş 1031, Ir.-Tur.

*Onosma sericeum* Willd.  
Çamurlu village, Toptaş brook, calcareous area, 500 m, 20 v 1995, BY. 12043, Ir.-Tur.

\**O. intertexta* Hub.-Mor.  
Between Konak and Hacıemir Dağı, calcareous area, 1200-1300 m. 09 v 1996, BY. 13163, End. Ir.-Tur.

*O. molle* DC.  
İ.Ü. Campus, 900 m, EA.1679, Ir.-Tur.

\**O. mutabile* Boiss.  
Venk village, Tavşan hill, 1400 m, 07 vii 1996, BY. 13690, End.

*O. albo-roseum* Fisch. & Mey. subsp. *sanguinolentum* (Vatke) Bornm.  
Between Gündüzbey and Kozluk village, calcareous slopes, 1100-1200 m, 21 iv 1995, BY. 11938, Ir.-Tur.

*O. taurica* Pallas ex Willd. var. *taurica*  
Venk village, Tavşan hill, calcareous rocks, 1600 m, 18 v 1996, BY. 13214.

\**Symphytum brachycalyx* Boiss.  
İ.Ü. Campus, 900 m, 27 iv 1987, BY. & G.Taş 1007, E. Medit.

*Anchusa azurea* Mill. var. *azurea*  
Between Gündüzbey and Kozluk village, streamside, 1100 m, 04 v 1996, BY. 13123

*A. strigosa* Labill.  
İ.U. Campus, 900 m, 25 vi 1986, EA. 0083.

\**A. pusilla* Guşul.  
İ.Ü. Campus, 900 m, steppe, 04 v 1987, BY., G.Taş 1051.

*Nonea melanocarpa* Boiss.  
İ.Ü. Campus, steppe, 900 m, 24 vi 1988, H. Çalışkan 1062, Ir.-Tur.

*N. anchusoides* Boiss. & Buhse  
Malatya *Nabélek* 570. Ir.-Tur.

*N. stenosen* Boiss. & Balansa  
Konak, around Karagözlü village, 1300 m, 03 vi 1995, BY. 2392, End. Ir.-Tur.

*Alkanna trichophila* Hub.-Mor. var. *mardinensis* Hub.-Mor.

İ.Ü. Campus, steppe, 900 m, 09 v 1986, BY. 7262-a, End. Ir.-Tur.

*A. hirsutissima* (Bertol.) DC.

Between Konak and Hacıemir Dağı, calcareous area, 1200-1300 m, 09 v 1996 BY. 13154, Ir.-Tur

## SOLANACEAE

*Hyoscyamus niger* L.

Between Gündüzbey and Kozluk village, 1100 m, 04 v 1996, BY. 13132, Ş.Yanan.

*H. reticulatus* L.

Kilizik village, calcareous area, 1000-1100 m, 20 v 1995, BY. 12150, Ir.-Tur.

## SCROPHULARIACEAE

*Verbascum agrimoniifolium* (C.Koch) Hub.-Mor. subsp. *agrimoniifolium*

Beydağı, Yenice village, streamside, 900 m, 08 v 1997, BY. 14234, Ir.-Tur.

*V. caudatum* Freyn & Bornm.

3 km E. of Malatya, 920 m, *Hub.-Mor.* 8838. End. Ir.-Tur.

*V. glomeratum* Boiss.

Beydağı, İnderesi, calcareous rocks, steppe, 1200 m, 01 vi 1996, BY. 13353, Ir.-Tur.

*V. splendidum* Boiss.

İ.Ü. Campus, steppe, 900 m, 28 vi 1986, EA. 0171, End. E. Medit.

*V. cheiranthifolium* Boiss. var. *cheiranthifolium*

Venk village, Tavşan hill, calcareous rocks, 1500 m, 07 vii 1996, BY. 13694.

*V. melitenense* Hub.-Mor.

İ.Ü. Campus, 900 m, steppe, 09 v 1986, BY. 7262-b, End. Ir.-Tur.

*Scrophularia kotschyana* Benth.

Beydağı, İnderesi, calcareous area, in caves, 1000 m, 06 vii 1996, BY.13749.

\**S. cryptophila* Boiss. & Heldr.

Beydağı, east of Eskiçamurlu village, rocky slopes, 1600-1800 m. 08 vi 1995, BY. 12670, End. E. Medit.

*S. scopolii* [Hoppe ex] Pers. var. *scopolii*  
 Beydağı, Eskiçamurlu village, calcareous east slopes, 1900 m, 08 vi 1995, BY. 12637.

*S. catariifolia* Boiss. & Heldr.  
 Between Konak and Hacıemir Dağı, calcareous area, 1200-1300 m, 09 v 1996, BY. 13172, Ir.-Tur.

*S. rimarum* Bornm.  
 Beydağı, west slopes, calcareous area, 2200-2400 m, 01 vii 1996, BY. 13585.

*S. xanthoglossa* Boiss. var. *decipiens* (Boiss. & Kotschy) Boiss.  
 İ.U. Campus, 950 m, steppe, 09 v 1986, BY. 7250, Ir.-Tur.

*Anarrhinum orientale* Benth.  
 İ.Ü. Campus, 900 m, steppe, 16 vii 1986, BY. 7690, Ir.-Tur.

*Chaenorhinum cryptarum* (Boiss. & Hausskn.) Davis  
 Beydağı, İnderesi, in caves, 1000 m, 06 vii 1996, BY. 13220, End. Ir.-Tur.

*Linaria genistifolia* (L.) Mill. subsp. *genistifolia*  
 South of Kilizik village, protected area, 1100 m, 14 vi 1995, BY. 12753, Euro.-Sib.

*L. antilbanotica* Rech.  
 Malatya, hill S.E. of city, *Alava* 6832, Ir.-Tur.

*L. chalepensis* (L.) Mill. var. *chalepensis*  
 İ.Ü. Campus, 900 m, steppe, 04 vii 1986, EA. 0192-b, E. Medit.

*L. simplex* (Willd.) DC.  
 Çamurlu village, Toptaş brook, 1000-1200 m, 08 vi 1995, BY. 12696, Medit.

*Veronica bozakmani* M.A.Fisch.  
 Çamurlu Village, calcareous area, 1300-1500 m, 22 iv 1995, BY.11981, Ir.-Tur.

\**V. praecox* All.  
 Between Konak and Hacıemir Dağı, steppe, 1300 m, 09 v 1996, BY. 13167.

*V. triphyllus* L.  
 Between Konak and Karagözlü village, vineyards, 1100 m, 20 iii 1995, BY. 11907.

*V. polita* Fries  
 İ.U. Campus, 900 m, 03 iii 1987, EA. 0257.

*V. persica* Poir.  
 Between Gündüzbey and Kozluk village, streamside, 1200 m, 21 iv 1995, BY. 11931.

*V. triloba* (Opiz) Kerner  
 Çamurlu village, Toptaş brook, calcareous area, 1500 m, 22 iv 1995, BY. 11974.

*V. hederifolia* L.  
 Çamurlu village, Toptaş brook, calcareous area, 1500 m, 22 iv 1995, BY. 11989.

*V. anagallis-aquatica* L. subsp. *anagallis-aquatica*  
 Beydağı, Yağlıpınar wold, streamside 2000-2100 m, 10 ix 1996, BY. 13993.

*V. anagallis-aquatica* L. subsp. *michauxii* (Lam.) Elenesky  
 Beydağı, İnderesi, streamside, 1000 m, 06 vii 1996, BY. 13746, Ir.-Tur.

*V. cinerea* Boiss. & Balansa  
 Between Gündüzbey and Kozluk village, calcareous rocks, 1100-1200 m, 21 iv 1995, BY. 11936, End. E. Medit.

*V. macrostachya* Vahl subsp. *Mardinensis* (Bornm.) M.A.Fisch.  
 Around Venk village, steppe, 1200 m, 02 v 1996, BY. 13102, End. Ir.-Tur.

\**V. multifida* L.  
 İ.U. Campus, steppe, 900 m, 28 iv 1987, BY. Z. Asan, s.n. End.

*Pedicularis comosa* L. var. *sibthorpii* (Boiss.) Boiss.  
 Beydağı, west slopes, calcareous area, 1700-1800 m, 06 vi 1994, BY. 11494.

**OROBANCHACEAE**  
*Phelypaea coccinea* (Bieb.) Poir.  
 Venk village, Tavşan hill, calcareous rocks, 1500-1600 m, 18 v 1996, BY. 13212, Ir.-Tur.

*Orobanche aegyptiaca* Pers.  
 Venk village, Tavşan hill, calcareous area, 1600 m, 20 v 1995, BY. 12203.

*O. cernua* Loefl.  
 Beydağı, Yağlıpınar wold, 2000-2100 m, 10 ix 1996, BY. 13951.

*O. sintenisii* G.Beck  
 Beydağı, Yağlıpınar wold, calcareous area, 2100 m, 01 vii 1994, BY. 11659, Ir.-Tur.

*O. elatior* Sutton  
 Venk village, Tavşan hill, calcareous rocks, 1600 m, 08 vi 1995, BY. 12618.

*O. kurdica* Boiss. & Hausskn.  
 Venk village, Tavşan hill, calcareous rocks, 1600 m, 07 vii 1996, BY. 13691, Ir.-Tur.

*O. gracilis* Sm.  
 Beydağı, west slopes, calcareous area, 2200-2400 m, 01 vii 1996, BY. 13580-a.

#### GLOBULARIACEAE

*Globularia trichosantha* Fisch. & C.A.Mey.  
 Beydağı, around Eskiçamurlu village, steppe, 1800 m, 20 v 1995, BY. 12108.

#### VERBENACEAE

*Verbena officinalis* L.  
 Beydağı, around Eskiçamurlu village, streamside, 1600 m, 01 vii 1995, BY. 12946.

#### LAMIACEAE

*Ajuga chamaepitys* (L.) Schreb. subsp. *chia* (Schreb.) Arcang. var. *chia*  
 İ.U. Campus, steppe, 900 m, 28 iv 1987, BY. & Z.Asan s.n..

*A. chamaepitys* (L.) Schreb. subsp. *Laevigata* (Banks & Sol.) P.H.Davis  
 İ.U. Campus, steppe, 900 m, 26 vi 1986, EA. 0124, Ir.-Tur.

\**Teucrium pruinatum* Boiss.  
 Çamurlu village, Toptaş brook, 1000-1200 m, 08 vi 1995, BY. 12703, Ir.-Tur.

*T. multicaule* Montbret & Aucher ex Benth.  
 İ.U. Campus, steppe, 900 m, 09 v 1986, BY. 7255, Ir.-Tur.

*T. orientale* L. var. *puberulens* Ekim  
 South of Kilizik village, vineyards, 1000-1100 m, 14 vi 1995 BY. 12764, Ir.-Tur.

*T. chamaedrys* L. subsp. *sypshirensis* (C.Koch) Rech.f.

Beydağı, Yağlıpınar wold, 2000-2100 m, 10 ix 1996, BY. 13979, Ir.-Tur.

*T. chamaedrys* L. subsp. *sinuatum* (Celak.) Rech.f.

Venk village, Tavşan hill, 1000-1200 m, 01 vi 1995, BY. 13006, Ir.-Tur.

*T. polium* L.

Venk village, steppe, 1000-1200 m, 08 vi 1995, BY. 12519.

*Scutellaria albida* L. subsp. *condensata* (Rech.f.) Edm.

Between Konak and Hacıemir Dağı, calcareous area, 1200-1300 m, 09 v 1996 BY. 13145, Ir.-Tur.

*S. orientalis* L. subsp. *cretacea* (Boiss. & Hausskn.) Edm.

Around Venk village, steppe, 1000 m, 25 vi 1995, BY. 12914, Ir.-Tur.

*Eremostachys moluccelloides* Bunge

Konak, Karagözlü village, north slopes, 1600 m, 03 vi 1995, BY. 12356, Ir.-Tur.

\**Phlomis pungens* Willd. var. *pungens*

Çamurlu village, Toptaş brook, 1000-1200 m, 08 vi 1995, BY. 12704.

*P. oppositiflora* Boiss. & Hausskn.

İ.U. Campus, steppe, 900 m, 16 vi 1986, BY. 7675-b, End. Ir.-Tur.

*P. armeniaca* Willd.

Beydağı, west slopes, calcareous area, 1700-1800 m, 06 vi 1994, BY. 11507; Venk village, vineyards, 950 m, 25 vi 1996, BY. 13455, End. Ir.-Tur.

*P. capitata* Boiss.

Beydağı, Yağlıpınar wold, calcareous area, 1900-2100 m, 01 vii 1994, BY. 11657, End. Ir.-Tur.

*P. sieheana* Rech.f.

İ.U. Campus, steppe, 900 m, 16 vi 1986, BY. 7675-a, End. Ir.-Tur.

*P. sintenisii* Rech.f.

Çamurlu village, Toptaş brook, 1000-1200 m, 08 vi 1995, BY. 12697, End. Ir.-Tur.

*P. linearis* Boiss. & Balansa

Beydağı, Yağlıpınar wold, 2000-2100 m, 10 ix 1996, BY. 13975, End. Ir.-Tur.

*P. x melitenense* Hub.-Mor.

Çamurlu village, Kilizik, calcareous area and vineyards, 1100-1200 m, 28 vi 1994, BY. 11633.

*Lamium garganicum* L. subsp. *lasioclaudes* (Stapf) R.Mill

Between Konak and Hacıemir Dağı, calcareous area, 1300 m, 09 v 1996, BY. 13156, Ir.-Tur.

*L. macrodon* Boiss. & Huet

İ.U. Campus, steppe, 900 m, 04 v 1987, BY. Z. Asan s.n., Ir.-Tur.

\**L. alepicum* Boiss. & Hausskn.

Between Konak and Karagözlü village, vineyards, 1000-1200 m, 20 iii 1995 BY. 11906, Ir.-Tur.

*Wiedemannia orientalis* Fisch. & Mey.

Çamurlu village, Toptaş brook, 1500 m, 20 v 1995, BY. 12040, End. Ir.-Tur.

*Marrubium parviflorum* Fisch. & Mey. subsp. *oligodon* (Boiss.) Seybold

Konak, around Karagözlü village, 1300 m, 03 vi 1995, BY. 12371-b.

*M. cuneatum* Russell

Gündüzbey, Kozluk brook, wet places, 1100 m, 08 ix 1996, BY. 14072, Ir.-Tur.

*M. globosum* Montbret & Aucher ex Benth. subsp. *globosum*

Konak, Beydağı, around Karagözlü village, vineyards, 1300 m, 03 vi 1995, BY. 12371-a. End. Ir.-Tur.

\**M. trachyticum* Boiss.

Çamurlu village, Toptaş brook, 1500 m, 20 v 1995, BY. 12028, End. Ir.-Tur.

*M. astracanicum* Jacq. subsp. *astracanicum*

Between Konak and Beydağı, steppe, 1400-1500 m, 03 vi 1995, BY. 12313.

*Sideritis montana* L. subsp. *montana*

Venk village, Tavşan hill, calcareous area, 1400-1600 m, 20 v 1995, BY. 12193.

\**S. syriaca* L. subsp. *nusairiensis* (Post) Hub.-Mor.

Kilizik village, calcareous area, 1100-1200 m, 28 vi 1994, BY. 11623, E. Medit.

*S. libanotica* Labill. subsp. *kurdica* (Bornm.) Hub.-Mor.

Beydağı, Yağlıpınar wold, 2000-2100 m, 10 ix 1996, BY. 13963, End. Ir.-Tur.

*Stachys cretica* L. subsp. *anatolica* Rech.f.

Kilizik village, Dil hill, sandy soil, 1500 m, 14 vi 1995, BY. 12815, End. Ir.-Tur.

\**S. citrina* Boiss. & Heldr. Apud Bentham subsp. *citrina*

Beydağı, Balıkdere, steppe, 1200-1400 m, 10 v 1990, BY. 8777, End. E. Medit.

*S. lavandulifolia* Vahl var. *lavandulifolia*  
Konak, Karagözlü village, north slopes, 1600 m, 03 vi 1995, BY. 12343, Ir.-Tur.

*S. iberica* Bieb. subsp. *stenostachya* (Boiss.) Rech.f.

Beydağı, west slopes, wet places, 1600-1700 m, 03 vi 1995, BY. 12301, Ir.-Tur.

*S. annua* (L.) L. subsp. *annua* var. *lycaonica* Bhattacharjee

İ.U. Campus, steppe, 900 m, 27 vi 1986, EA.0175, Ir.-Tur.

*S. annua* (L.) L. subsp. *annua* var. *annua*

Beydağı, between Konak and Karagözlü village, vineyards and calcareous area, 1100-1200 m, 03 vi, 1995, BY. 12441.

*S. ramosissima* Montbret & Aucher ex Benth. var. *ramosissima*

İ.U. Campus, steppe, 900 m, 25 vi 1986, EA.0097, End. Ir.-Tur.

*Nepeta trachonitica* Post

Between Gündüzbey and Kozluk village, calcareous slopes, 1100-1200 m, 21 v 1995, BY. 12222, Ir.-Tur.

*Lallemantia iberica* (Bieb.) Fisch. & Mey.

Çamurlu village, Toptaş brook, calcareous area, 1500 m, 20 v 1995, BY. 12063, Ir.-Tur.

\**Prunella orientalis* Bornm.

Beydağı, Eskiçamurlu village, streamside, 1400-1600 m, 01 vii 1995, BY. 12962-a.

*Origanum acutidens* (Hand.-Mazz.) letsw.

Gündüzbey, Kozluk valley, calcareous east slopes, 1100-1200 m, 08 ix 1996, BY. 14112, End. Ir.-Tur.

*O. vulgare* L. subsp. *gracile* (C.Koch) letsw.

Beydağı, around Eskiçamurlu village, streamside, 1400-1600 m, 01 vii 1995, BY. 12949, Ir.-Tur.

\**O. laevigatum* Boiss.

Beydağı, around Eskiçamurlu village, streamside, 1500-1600 m, 01 vii 1995, BY. 12948, E. Medit.

*Satureja hortensis* L.

Venk village, Tavşan hill, calcareous area, 1600 m, 20 v 1995, BY. 12182.

*Clinopodium vulgare* L. subsp. *vulgare*

Beydağı, east of Eskiçamurlu village, wet places, 1800 m, 08 vi 1995, BY. 12651.

*Acinos rotundifolius* Pers.

İ.Ü. Campus, 950 m, 09 v 1986, BY. 7240.

*Cyclotrichium niveum* (Boiss.) Manden. & Scheng.

Gündüzbey, Kozluk valley, calcareous east slopes, 1100-1200 m, 08 ix 1996, BY. 14113, End. Ir.-Tur.

*Micromeria myrtifolia* Boiss. & Hohen.

Kilizik village, calcareous area, 1100-1200 m, 28 vi 1994, BY. 11637, E. Medit.

*M. cremnophila* Boiss. & Heldr. subsp. *anatolica* P.H.Davis

Beydağı, west slopes, calcareous area, 2200 m, 01 vii 1996, BY. 13573, End. Ir.-Tur.

*Thymus fallax* Fisch. & Mey.

Beydağı, Yağlıpınar wold, 2000-2100 m, 10 ix 1996, BY. 13985, Ir.-Tur.

*T. kotchyanus* Boiss. & Hohen. var. *kotchyanus*

Konak, Beydağı, around Karagözlü village, calcareous north slopes, 1600 m, 03 vi 1995, BY. 12356, Ir.-Tur.

*T. sipyleus* Boiss. subsp. *rosulans* (Borbas) Jalas

Venk village, Tavşan hill, calcareous north slope, 1400 m, 07 vii 1996, BY. 13709.

*Mentha longifolia* (L.) Huds. subsp. *typhoides* (Briq.) Harley var. *typhoides*

Beydağı, Yağlıpınar wold, streamside, 2100 m, 10 ix 1996, BY. 13992.

*M. spicata* L. subsp. *spicata*

İ.U. Campus, steppe, 900 m, 18 vii 1986, EA. 0231.

*Ziziphora clinopodioides* Lam.

Venk village, Tavşan hill, calcareous rocks, 1600 m, 07 vii 1996, BY. 13737.

*Z. tenuior* L.

Around Venk village, vineyards, 1000-1200 m, 08 vi 1995, BY. 12552, Ir.-Tur.

*Salvia recognita* Fisch. & Mey.

Beydağı, İnderesi, calcareous rocks, 1100 m, 01 vi 1996, BY. 13341, End. Ir.-Tur.

*S. pilifera* Montbret & Aucher ex Benth.

Between Gündüzbey and Kozluk village, calcareous slopes, 1100-1200 m, 21 v 1995, BY. 12231, End. Ir.-Tur.

*S. bracteata* Banks & Sol.

Beydağı, between Konak and Karagözlü village, vineyards, 1100-1200 m, 03 vi 1995, BY. 12463 Ir.-Tur.

*S. caespitosa* Montbret & Aucher ex Benth.

Beydağı, west slopes, calcareous area, 1700 m, 06 vi 1994, BY. 11492, End. Ir.-Tur.

*S. suffruticosa* Montbret & Aucher

Kilizik village, calcareous area, 1000-1100 m, 20 v 1995, BY. 12163, Ir.-Tur.

*S. euphratica* Montbret & Aucher var. *euphratica*

Çamurlu village, Toptaş brook, calcareous area, 1300-1500 m, 20 v 1995, BY. 12050, End. Ir.-Tur.

*S. euphratica* Montbret & Aucher var. *leiocalycina* (Rech.f.) Hedge

Venk village, Tavşan hill, steppe, 1000 m, 20 v 1995, BY. 12208, End. Ir.-Tur.

*S. multicaulis* Vahl

Konak, Beydağı, around Karagözlü village, 1300 m, 03 vi 1995, BY. 12382, Ir.-Tur.

*S. syriaca* L.

Beydağı, between Konak and Karagözlü village, calcareous area, 1100-1200 m, 03 vi 1995, BY. 12426, Ir.-Tur.

*S. hypargeia* Fisch. & Mey.

Konak, Horata, vineyards, 1000 m, 03 vi 1995, BY. 12494, End. Ir.-Tur.

*S. palaestina* Benth.

Çamurlu village, Toptaş brook, 1000-1200 m, 08 vi 1995, BY. 12702, Ir.-Tur.

*S. ceratophylla* L.

Kilizik village, calcareous area, 1000-1100 m, 20 v 1995, BY. 12152, Ir.-Tur.

*S. microstegia* Boiss. & Balansa

Beydağı, west slopes, calcareous area, 2200 m, 01 vii 1996, BY. 13576, Ir.-Tur.

*S. frigida* Boiss.

Beydağı, between Konak and Karagözlü village, vineyards, 1100 m, 03 vi 1995, BY. 12448, Ir.-Tur.

*S. candidissima* Vahl subsp. *candidissima*

Beypınarı, 1400-1500 m, 06 vii 1996, BY. 13752, Ir.-Tur.

\**S. argentea* L.

Beydağı, around Eskiçamurlu village, north slopes, 2000 m, 08 vi 1995, BY. 12638, Medit.

## PLUMBAGINACEAE

*Acantholimon venustum* Boiss. var. *assyriacum* (Boiss.) Boiss.

Konak, Hacıemir Dağı, steppe, 1600-1800 m, 01 vii 1996, BY. 13517-a, End. Ir.-Tur.

*A. caryophyllaceum* Boiss. subsp. *caryophyllaceum*

İ.U. Campus, steppe, 900 m, 27 vi 1986, EA. 0152.

*A. armenum* Boiss. & Huet. var. *balansae* Boiss. & Huet.

Beydağı, Beydağı, Yağlıpınar wold, 2100 m, 10 ix 1996, BY. 13972, Ir.-Tur.

\**A. huetii* Boiss.

Beydağı, Yağlıpınar wold, 2000-2100 m, 10 ix 1996, BY. 13968, End. Ir.-Tur.

*A. puberulum* Boiss. & Balansa var. *puberulum*

Kilizik village, Dil hill, calcareous steppe, 1300 m, 14 vi 1995, BY. 12780, Ir.-Tur.

*A. ulicinum* (Wild. ex Schult.) Boiss. subsp. *lycaonicum* (Boiss. & Heldr.) Bokhari & Edm.

Beydağı, Yağlıpınar wold, 2000-2100 m, 10 ix 1996, BY. 13964, Ir.-Tur.

*A. damassanum* Mobayen var. *damassanum*



Beydağı, İnderesi, calcareous area, 1000 m, 06 vii 1996, BY.13747, Ir.-Tur.

*A. saxifragiforme* Hausskn. & Sint. ex Bokhari

Beydağı, Yağlıpınar wold, 2000-2100 m, 10 ix 1996, BY. 13966, End. Ir.-Tur.

#### PLANTAGINACEAE

*Plantago major* L. subsp. *intermedia* (Gilib.) Lange

Venk village, Tavşan hill, calcareous rocks, 1200 m, 07 vii 1996, BY. 13687.

*P. lanceolata* L.

Beydağı, around Eskiçamurlu village, streamside, 1600 m, 01 vii 1995, BY. 12972.

*P. euphratica* Decne. ex Barnéoud

Beydağı, between Konak and Karagözlü village, vineyards, 1100-1200 m, 03 vi 1995, BY. 12411-b, End. Ir.-Tur.

#### SANTALACEAE

\**Thesium bergeri* Zucc.

Beydağı, around Eskiçamurlu village, steppe 1800 m. 08 vi 1995, BY. 12659, E. Medit.

*T. billardieri* Boiss.

Between Konak and Beydağı, steppe, 1400 m, 03 vi 1995, BY. 12312, Ir.-Tur.

*T. arvense* Horv.

Between Konak and Hacıemir Dağı, calcareous area, 1200-1300 m, 09 v 1996 BY. 13150-b, Euro.-Sib.

*T. tauricum* Boiss. & Hausskn.

Beydağı, İnderesi, steppe, 1000-1200 m, 01 vi 1996, BY. 13343, End. Ir.-Tur.

#### ARISTOLOCHIACEAE

*Aristolochia maurorum* L.

Beydağı, around Eskiçamurlu village, 1800 m, 20 v 1995, BY. 12121, Ir.-Tur.

#### EUPHORBIACEAE

*Andrachne telephioides* L.

Beydağı, between Konak and Karagözlü village, 1200 m, 03 vi 1995, BY. 12464.

*Chrozophora tinctoria* (L.) Rafin.

İ.U. Campus, 900 m, 09 v 1986, BY. 7247.

*Euphorbia chamaesyce* L.

Konak, Hacıemir Dağı, steppe, 1600-1800 m, 01 vii 1996, BY. 13517-b.

*E. petiolata* Banks & Sol.

İ.U. Campus, steppe, 900 m, 11 iv 1986, EA. 0247, Ir.-Tur.

*E. apios* L.

Between Gündüzbey and Kozluk village, streamside, 1100 m, 04 v 1996, BY. 13135, Ş.Yanan, Medit.

*E. cardiophylla* Boiss. & Heldr.

Between Gündüzbey and Kozluk village, calcareous slopes, 1100-1200 m, 21 iv 1995, BY. 11951, End.

\**E. taurinensis* All.

İ.U. Campus, 900 m, 16 vi 1986, BY. 7642.

*E. falcata* L. subsp. *falcata* var. *falcata*

Beydağı, Konak, around Karagözlü village, calcareous area, 1100-1200 m, 03 vi 1995, BY. 12434.

*E. herniariifolia* Willd. var. *herniariifolia*

Beydağı, west slope, calcareous area, 2200-2400 m, 01 vii 1996, BY. 13581.

*E. herniariifolia* Willd. var. *glaberrima* Hal.

Gündüzbey, Kozluk valley, 1100 m, 08 ix 1996, BY. 14088.

*E. denticulata* Lam.

Between Gündüzbey and Kozluk village, *Quercus* scrub, 1500 m, 21 iv 1995, BY. 11923, Ir.-Tur.

*E. cheiradenia* Boiss. & Hohen.

İ.U. Campus, steppe, 900 m, 28 vi 1986, EA. 0178, Ir.-Tur.

#### URTICACEAE

\**Urtica urens* L.

Kilizik village, vineyards, 1000 m, 09 vi 1996, BY. 13412.

*U. dioica* L.

Beydağı, Bürücek hill, 1900 m, 21 v 1995, BY. 12289, Ş.Yanan, Euro.-Sib.

*Parietaria judaica* L.

Gündüzbey, Kozluk brook, wet places, 1100 m, 08 ix 1996, BY. 14091.

*P. lusitanica* L.

Venk village, Tavşan hill, calcareous rocks, 1400-1600 m, 07 vii 1996, BY. 13738, Medit.

#### MORACEAE

*Ficus carica* L. subsp. *carica*

Venk village, Tavşan hill, calcareous area, 1400-1600 m, 20 v 1995, BY. 12173.

*F. carica* L. subsp. *rupestris* (Hausskn.) Browicz

Venk village, Tavşan hill, calcareous area, 1400 m, 20 v 1995, BY. 12180. Ir.-Tur.

#### ULMACEAE

\**Ulmus minor* Mill. subsp. *canescens* (Melville) Browicz & Ziel.

Gündüzbey, Kozluk brook, wet places, 1100 m, 08 ix 1996, BY. 14070, E. Medit.

*Celtis tournefortii* Lam.

Konak, Horata, vineyards, 1000 m, 03 vi 1995, BY. 12492-b.

*C. glabrata* Steven ex Planch.

Beydağı, Konak, around Karagözlü village, vineyards, 1300 m, 03 vi 1995, BY. 12404.

#### FAGACEAE

*Quercus infectoria* Olivier subsp. *boissieri* (Reuter) O.Schwarz

Venk village, Tavşan hill, 1000-1100 m, 01 vi 1995, BY. 12980.

*Q. cerris* L. var. *cerris*

Beydağı, between Bürücek hill and Rafa village, calcareous south slopes, 2000-2100 m, 21 v 1995, BY. 12274-b, Medit.

*Q. brantii* Lindl.

Between Gündüzbey and Kozluk village, 1100 m, 21 iv 1995, BY. 11960, Ir.-Tur.

*Q. libani* Olivier

Venk village, Tavşan hill, calcareous rocks, 1600 m, 07 vii 1996, BY. 13720, Ir.-Tur.

**SALICACEAE**

*Salix alba* L.

Gündüzbey, Kozluk brook, water edge, 1100 m, 08 ix 1996, BY. 14084, Euro.-Sib.

*S. cinerea* L.

Beydağı, Yağlipınar wold, 2000-2100 m, 10 ix 1996, BY. 13991, Ir.-Tur.

*Populus nigra* L. subsp. *caudina* (Ten.) Bugala

Between Gündüzbey and Kozluk village, streamside, 1100 m, 04 v 1996, BY. 13130.

**MONOCOTYLEDONAE**

**ARACEAE**

\**Arum euxinum* R.Mill

Venk village, Tavşan hill, calcareous rocks, 1500-1600 m, 18 v 1996, BY. 13213, End. Euxine.

\**A. elongatum* Steven subsp. *elongatum*

Venk village, Tavşan hill, calcareous area, 1600 m, 08 vi 1996, BY. 13376, (Det. R.Mill) Euro.-Sib.

*A. detrunctum* C.A.Mey. ex Schott var. *detrunctum*

Beydağı, calcareous area, 1600 m, 24 vi 1994, BY. 11325, (det. R.Mill). Ir.-Tur.

*A. detrunctum* C.A.Mey. ex Schott var. *caudatum* (Engler) Alpinar & R.Mill

Between Konak and Beydağı, steppe, 1300 m, 14 v 1994, BY. 11399 End. Ir.-Tur.

*A. dioscoridis* Sm. var. *syriacum* (Blume) Engler

Between Konak and Beydağı, steppe, 1300 m, 14 v 1994, BY. 11399-b, Medit.

*Biarum carduchorum* (Schott) Engler

Beydağı, west slope, calcareous area, 1800 m, 06 vi 1994, BY. 11489-b. Ir.-Tur.

*Eminium spiculatum* (Blume) Schott var. *spiculatum*

İ.U. Campus, steppe, 900 m, 10 iv 1989, BY. 8412, Ir.-Tur.

*E. rauwolffii* (Blume) Schott var. *rauwolffii*

Around Venk village, steppe, 1000-1200 m, 02 v 1996, BY. 13097, Ir.-Tur.

**LILIACEAE**

*Eremurus spectabilis* Bieb.

Venk village, Tavşan hill, calcareous area, 1500 m, 08 vi 1996, BY. 13377, Ir.-Tur.

\**E. cappadocicus* J.Gay ex Baker

Kilizik village, calcareous area, 1200 m, 28 vi 1994, BY. 11635, Ir.-Tur.

*Asphodeline tenuior* (Fischer) Ledeb. subsp. *tenuiflora* (C.Koch) Tuzlaci var. *tenuiflora*

Beydağı, west slopes, calcareous area, 1800 m, 06 vi 1994, BY. 11489-a, Ir.-Tur.

*A. damascena* (Boiss.) Baker subsp. *damascena*

Beydağı, Balıkderesi, calcareous area, 1200 m, 10 v 1990, BY. 8786, Ir.-Tur.

*A. damascena* (Boiss.) Baker subsp. *rugosa* Tuzlaci

İ.Ü. Campus, c. 900 m, 09 v 1986, BY. 7279, End. E. Medit.

\**Allium cupani* Rafin. subsp. *hirtovaginatatum* (Kunth) Stearn

Beydağı, summit, calcareous rocks, 2400-2500 m, 06 vii 1994, BY. 11531-a, Medit.

*A. tauricola* Boiss.

Beydağı, summit, calcareous rocks, 2400 m, 06 vii 1994, BY. 11531-b. End. Ir.-Tur.

*A. atroviolaceum* Boiss.

İ.Ü. Campus, 900 m, 04 vi 1986, BY. 7638.

*A. pustulosum* Boiss. & Hausskn.

in monte Begdagh (Beydağı.) supra Malatia, [17 ix 1865], Haussknecht, Ir.-Tur.

\**A. trachycoleum* Wendelbo

Beydağı, west slope, calcareous area, 1700-1800 m, 06 vi 1994, BY. 11519, Ir.-Tur.

*A. scabriflorum* Boiss.

Konak, calcareous area, 1600 m, 06 vi 1994, BY. 11519, End. Ir.-Tur.

*A. dictyoprasum* C.A.Mey. ex Kunth

İ.Ü. Campus, vineyards, 950 m, 22 vi 1993, BY. 10559, Ir.-Tur.

*A. chrysantherum* Boiss. & Reuter

Söğüt village, Beypınarı, steppe, 1800 m, 25 v 1992, BY. 9337, Ir.-Tur.

*A. kharputense* Freyn & Sint.

İ.Ü. Campus, c. 900 m, 24 iv 1988, M. Dönmez 1058, Ir.-Tur.

*A. asclepiadeum* Bornm.

Beydağı, west slopes, calcareous area, 1700-1800 m, 06 vi 1994, BY. 11500, Ir.-Tur.

*Scilla melaina* Stepa

İ.Ü. Campus, 950 m, steppe, 23 v 1994, BY. 11427-b, E. Medit.

*Puschkinia scilloides* Adams

Beydağı, west slopes, calcareous area, 1700 m, 24 vi 1994, BY. 10324.

*Ornithogalum pyrenaicum* L.

Venk village, Tavşan hill, calcareous area, 1500-1600 m, 08 vi 1996, BY. 13368.

*O. sphaerocarpum* Kerner

İ.Ü. Campus, steppe, 950 m, 23 v 1994, BY. 11427a.

*O. narbonense* L.

İ.Ü. Campus, steppe, c.900 m, 11 v 1988, M.Dönmez, 1060, Medit.

*O. oligophyllum* E.D.Clarke

Beydağı, summit, 2500 m, 14 v 1994, BY. 11419.

*O. orthophyllum* Ten.

Beydağı, north slopes, calcareous area, 1700 m, 24 iv 1994, BY. 11320.

*Muscari comosum* (L.) Mill.

Beydağı, west slopes, calcareous area, 2200 m, 01 vii 1996, BY. 13579, Medit.

*M. tenuiflorum* Tausch

Beydağı, west slope 2300 m, 12 vi 1992, BY. 9370-b.

*M. longipes* Boiss.

Beydağı, Balıkderesi, calcareous area, 1200 m, 10 v 1990, BY. 8737, Ir.-Tur.

*M. armeniacum* Leichtlin ex Baker

Beydağı, Söğüt village, Beypınarı, steppe, 1800 m, 25 v 1992, BY. 9345.

*M. neglectum* Guss.

Gündüzbey, Kapılık, pasture, 1000-1050 m, 02 v 1985, R. Yılmaz 1032.

*Bellevalia longipes* Post

Beydağı, calcareous area, 1600 m, 24 iv 1994, BY. 11316, Ir.-Tur.

*B. sarmatica* (Pallas ex Georgi) Woronow

Venk village, Tavşan hill, calcareous rocks, 1400 m, 02 v 1996, BY. 13081.

*B. gracilis* Feinbrun

Beydağı, summit, calcareous rocks, 2400 m, 06 vii 1994, BY. 11533, End. Ir.-Tur.

*Fritillaria imperialis* L.

Venk village, Tavşan hill, rocky slopes, 1500 m, 23 iv 1993, BY. 8681, Ir.-Tur.

*F. armena* Boiss.

Beydağı, Söğüt village, Beypınarı, steppe, 1800 m, 25 v 1992, BY. 9551, End. Ir.-Tur.

*F. pinardii* Boiss.

Beydağı, summit, 2500 m, 14 v 1994, BY. 11415, Ir.-Tur.

*F. assyriaca* Baker subsp. *assyriaca*

Beydağı, Ulu village, *Astragalus* steppe, 1900 m, 25 v 1992, BY. 9353, Ir.-Tur.

*Tulipa sintenisii* Baker

Beydağı, Ulu village, *Astragalus* steppe, 1900 m, 25 v 1992, BY. 9359, End. Ir.-Tur.

*T. julia* C.Koch

Beydağı, around Eskiçamurlu, Dil hill, 1600 m, 01 v 1996, BY. 13079, Ir.-Tur.

*Gagea gageoides* (Zucc.) Vved.

Beydağı, Ulu village, *Astragalus* steppe, 1900 m, 25 v 1992, BY. 9360, Ir.-Tur.

*G. fibrosa* (Desf.) Schult. & Schult.f.

İ.U. Campus, steppe, 900 m, 24 iv 1988, M. Dönmez 1032.

*G. taurica* Steven

Beydağı, Ulu village, *Astragalus* steppe, 1900 m, 25 v 1992, BY. 9364, Ir.-Tur.

*G. bulbifera* (Pallas) Schult. & Schult.f.

Beydağı, around Eskiçamurlu village, 1800 m, 01 v 1996, BY. 13075, Euro.-Sib.

\**G. uliginosa* Siehe & Pascher

Beydağı, Söğüt village, Beypınarı, 1800 m, 25 v 1992, BY. 9343, Ir.-Tur.

*G. luteoides* Stapf

Beydağı, Ulu village, *Astragalus* steppe, 1900-2000 m, 25 v 1992, BY. 9353.

*G. granatellii* (Parl.) Parl.

Beydağı, around Eskiçamurlu village, 1600 m, 01 v 1996, BY. 13076, Medit.

*Colchicum szovitsii* Fisch. & Mey.

İ.Ü. Campus, steppe, 950 m, 09 v 1986, BY. 7274-b, Ir.-Tur.

*C. kotschyi* Boiss.

Beydağı, Ulu village, *Astragalus* steppe, 1900 m, 25 v 1992, BY. 9367, Ir.-Tur.

#### AMARYLLIDACEAE

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

Venk village, Tavşan hill, steppe, 1400 m, 02 v 1996, BY. 13080, Ir.-Tur.

*Galanthus fosteri* Baker

Beydağı, calcareous area, 1800-2000 m, 03 v 1992, BY. 9101-a, E.Medit.

*Ixiolirion tataricum* (Pallas) Herbert subsp. *montanum* (Labill.) Takht.

İ. Ü. Campus, steppe, 950 m, 03 v 1991, BY. 9101-b, Ir.-Tur.

#### IRIDACEAE

*Iris sari* Schott ex Baker

Venk village, Tavşan hill, 1400-1600 m, 07 vii 1996, BY. 13718, End. Ir.-Tur.

*I. caucasica* Hoffm. subsp. *turcica* B.Mathew

Beydağı, summit, 2500 m, 14 v 1994, BY. 11418-a, Ir.-Tur.

*I. persica* L.

İ.U. Campus, steppe, 900 m, 14 v 1994, BY. 11418-b, Ir.-Tur.

*Crocus biflorus* Mill. subsp. *tauri* (Maw) Mathew

İ.Ü. Campus, c. 900 m, 01 vi 1987, H. Çalışkan 1010, Ir.-Tur.

*C. kotschyanus* C.Koch subsp. *cappadoticus* Mathew

Beydağı, Söğüt village, Beypınarı, steppe, 1800 m, 25 v 1992, BY. 9345, End. Ir.-Tur.

*C. pallasii* Goldb. subsp. *turcicus* Mathew

Beydağı, around Kozluk village, 1500 m, 24 vi 1991, BY. 9081.

*C. cancellatus* Herbert subsp. *damascenus* (Herbert) Mathew

Beydağı, Söğüt village, Beypınarı, 1800 m, 25 v 1992, BY. 9334, Ir.-Tur.

*Gladiolus italicus* Mill.

Beydağı, calcareous west slopes, 1700-1800 m, 08 vi 1994, BY. 11498.

*G. atroviolaceus* Boiss.

Beydağı, calcareous west slopes, 1300 m, 14 v 1994, BY. 11381, Ir.-Tur.

#### ORCHIDACEAE

*Dactylorhiza osmanica* (Kl.) Soo var. *osmanica*

Beydağı, west slope, streamside, 1800 m, 06 vi 1994, BY. 11502, End. Ir.-Tur.

#### CYPERACEAE

\**Carex melanostachya* M.Bieb. ex Willd.

Kilizik village, streamside, 1600 m, 01 v 1996, BY. 13068.

#### POACEAE

\**Elymus longearistatus* (Boiss.) Tzvelev subsp. *sintenisii* Melderis

Beydağı, north-west slopes, 1600-1800 m, 01 vii 1994, BY. 11681, End. Ir.-Tur.

*E. lazicus* (Boiss.) Melderis subsp. *divaricatus* (Boiss. & Balansa) Melderis

Venk village, Tavşan hill, calcareous rocks, 1400-1600 m, 06 vii 1996, BY. 13710, End. Ir.-Tur.

\**E. elongatus* (Host) Runemark subsp. *elongatus*

Kilizik village, vineyards, calcareous area, 1200 m, 28 vi 1994, BY. 11624.

*E. elongatus* (Host) Runemark subsp. *turcicus* (McGuire) Melderis

Kilizik village, calcareous area, 1100-1200 m, 28 vi 1994, BY. 11629.

*E. repens* (L.) Gould subsp. *repens*

Venk village, Tavşan hill, calcareous rocks, 1400 m, 06 vii 1996, BY. 13733.

*E. hispidus* (Opiz) Melderis subsp. *hispidus*

Venk village, calcareous north slopes, 1200 m, 01 vii 1995, BY. 12988.

\**E. farctus* (Viv.) Runemark ex Melderis subsp. *farctus* var. *farctus*

Beydağı, around Eskiçamurlu village, streamside, 1500-1600 m, 01 vii 1995, BY. 12957, Medit.

*\*Crithopsis delileana* (Schult.) Roshev.  
Konak, Beydağı, around Karagözlü village, vineyards, 1300 m, 03 vi 1995, BY. 12368, Ir.-Tur.

*Amblyopyrum muticum* (Boiss.) Eig var. *muticum*  
Çamurlu village, Toptaş brook, 1000-1200 m, 08 vi 1995, BY. 12712.

*Aegilops speltoides* Tausch var. *speltoides*  
Beydağı, Balıkderesi, calcareous area, 1200-1400 m, 10 v 1990, BY. 8747.

*Ae. speltoides* Tausch var. *ligustica* (Savign.) Bornm.  
Beydağı, Balıkderesi, calcareous area, 1200-1400 m, 10 v 1990, BY. 8771.

*\*Ae. cylindrica* Host  
İ. Ü. Campus, steppe, 900 m, 12 vi 2001, T. Arabacı 1221, Ir.-Tur.

*Ae. umbellulata* Zhuk. subsp. *umbellulata*  
Beydağı, Balıkderesi, calcareous area, 1200 m, 10 v 1990, BY. 8792, Ir.-Tur.

*Ae. triuncialis* L. subsp. *triuncialis*  
Konak, Horata, vineyards, 1000 m, 03 vi 1995, BY. 12488.

*Ae. biuncialis* Vis.  
Kilizik village, vineyards, calcareous area, 1100-1200 m, 28 vi 1994, BY. 11620.

*Ae. geniculata* Roth  
Konak, Horata, vineyards, 1000 m, 03 vi 1995, BY. 12486, Medit.

*Triticum baeoticum* Boiss. subsp. *baeoticum* var. *viridihaussknechtii* Hammer & A.Filat.  
İ. Ü. Campus, steppe, 900 m, 27 vi 1986, EA.-0139.

*T. durum* Desf.  
Kilizik village, calcareous steppe, c. 1000 m, 14 v 1995, BY. 12726.

*Hordeum murinum* L. subsp. *glaucum* (Steud.) Tzvelev  
Konak, Hacıemir Dağı, steppe, 1600-1800 m, 01 vii 1996, BY. 13523.

*H. bulbosum* L.  
Çamurlu village, Toptaş brook, 1000-1200 m, 08 vi 1995, BY. 12709.

*Taeniatherum caput-medusae* (L.) Nevski subsp. *crintum* (Schreb.) Melderis  
Beydağı, Konak, around Karagözlü village, calcareous area, 1100-1200 m, 03 vi 1995, BY. 12466, Ir.-Tur.

*Henrardia persica* (Boiss.) C.E. qHubb. var. *glaberrima* (Hausskn. ex Bornm.) C.E.Hubb.  
Beydağı, around Eskiçamurlu village, 1500 m, sandy soil, 14 vi 1995, BY. 12800, Ir.-Tur.

*Bromus japonicus* Thunb. subsp. *japonicus*  
Konak, around Karagözlü village, vineyards, 1300 m, 03 vi 1995, BY. 12391.

*B. scoparius* L.  
Beydağı, around Eskiçamurlu village, steppe, 1600 m, 08 vi 1995 BY. 12684.

*B. lanceolatus* Roth  
Beydağı, Konak, around Karagözlü village, 1300 m, 03 vi 1995, BY. 12390b.

*B. danthoniae* Trin.  
Beydağı, between Konak and Karagözlü village, calcareous area, 1100-1200 m, 03 vi 1995, BY. 12468.

*B. tectorum* L. subsp. *tectorum*  
Beydağı, Balıkderesi, calcareous area, 1200-1400 m, 10 v 1990, BY. 8771.

*B. tectorum* L. subsp. *lucidus* Petzi  
Between Gündüzbey and Kozluk village, calcareous slopes, 1100-1200 m, 21 v 1995, BY. 12224, Ir.-Tur.

*B. sterilis* L.  
Beydağı, Balıkderesi, calcareous area, 1200-1400 m, 10 v 1990, BY. 8771.

*\*B. diandrus* Roth  
Beydağı, between Konak and Karagözlü village, calcareous area, 1200 m, 03 vi 1995, BY. 12471.

*B. tomentellus* Boiss.  
Beydağı, west slopes, 1600-1700 m, 03 vi 1995, BY. 12323, Ir.-Tur.

*Avena barbata* Pott ex Link subsp. *barbata*  
Çamurlu village, Toptaş brook, calcareous area, 1400 m, 20 v 1995, BY. 12031, Medit.

*Arrhenatherum palaestinum* Boiss.  
Konak, Hacıemir Dağı, steppe, 1600-1800 m, 01 vii 1996, BY. 13527, Medit.

*Gaudiniopsis macra* (Bieb.) Eig subsp. *macra*  
Beydağı, Konak, around Karagözlü village, 1300 m, 03 vi 1995, BY. 12384, Ir.-Tur.

*Rostraria cristata* (L.) Tzvelev var. *cristata*  
Beydağı, between Konak and Karagözlü village, 1100 m, 03 vi 1995, BY. 12439.

*Koeleria cristata* (L.) Pers.  
Beydağı, Eskiçamurlu village, calcareous slopes, 2000 m, 08 vi 1995 BY. 12629.

*Calamagrostis pseudophragmites* (Haller fil.) Koeler  
Beydağı, east of Eskiçamurlu village, streamside, 1600-1700 m, 08 vi 1995, BY. 12653, Euro.-Sib.

*Polypogon viridis* (Gouan) Breistr.  
Beydağı, around Eskiçamurlu village, streamside, 1500-1600 m, 01 vii 1995, BY. 12947, Euro.-Sib.

*\*Zingeria biebersteiniana* (Claus) P.Smirnov subsp. *trichopoda* (Boiss.) R.Mill  
Venk village, Tavşan hill, calcareous rocks, 1600 m, 08 vi 1996, BY. 13394, Ir.-Tur.

*Alopecurus arundinaceus* Poir.  
Beydağı, Bürücek hill, streamside, 1900 m, 21 v 1995, BY. 12291, Euro.-Sib.

*\*A. myosuroides* Huds. var. *tonsus* (Blanche ex Boiss.) Dogan  
Malatya to Yeşilyurt, fallow field, 950 m, 23 vi 1995, BY. 12906, Euro.-Sib.

*Phleum pratense* L.  
Above Venk village, calcareous north slopes, 1500 m, 08 vi 1995, BY. 12556, Euro.-Sib.

*P. exaratum* Hochst. ex Griseb. subsp. *exaratum*  
Beydağı, around Eskiçamurlu village, sandy soil, 1500 m, 14 vi 1995 BY. 12809.

*P. boissieri* Bornm.  
Konak, around Karagözlü village, 1300 m, 03 vi 1995, BY. 12373, Ir.-Tur.

*Festuca callieri* (Hackel ex St.-Yves) F. Markgr. subsp. *zederbaueri* Markgr.-Dann.

Venk village, Tavşan hill, 1500-1600 m, 08 vi 1995, BY. 12608, End. Ir.-Tur.

*Lolium multiflorum* Lam.

Kilizik village, calcareous steppe, c. 1000 m, 14 vi 1995 BY. 12719.

*L. persicum* Boiss. & Hohen. ex Boiss.

Venk village, vineyards, 1000-1200 m, 08 vi 1995, BY. 12536.

\**Vulpia persica* (Boiss. & Buhse) V.I.Krecz. & Bobrov

Between Gündüzbey and Kozluk village, 1100 m, 21 v 1995, BY. 12241, Ir.-Tur.

*V. ciliata* Dumort. subsp. *ciliata*

Beydağı, east of Eskiçamurlu village, 1600-1700 m, 08 vi 1995, BY. 12650-b.

*Psilurus incurvus* (Gouan) Schinz & Thell.

Çamurlu village, Toptaş brook, calcareous area, 1300-1500 m, 20 v 1995, BY. 12034.

*Poa trivialis* L.

Beydağı, west slopes, wet places, 1600-1700 m, 03 vi 1995, BY. 12300.

*P. pratensis* L.

Kilizik village, Dil hill, 1700-2000 m, 02 vii 1995, BY. 13069.

\**P. timoleontis* Heldr. ex Boiss.

Kilizik village, calcareous area, 1000-1100 m, 20 v 1995, BY. 12114, E. Medit.

*P. bulbosa* L.

Between Gündüzbey and Kozluk village, 1200 m, 21 v 1995, BY. 12223.

\**Catabrosa aquatica* (L.) P.Beauv.

Kilizik village, calcareous area, 1000-1100 m, 20 v 1995, BY. 12151.

*Dactylis glomerata* L. subsp. *glomerata*

South of Kilizik village, vineyards, 1000-1100 m, 14 vi 1995 BY. 12754, Euro.-Sib.

*Briza humilis* Bieb.

Beydağı, around Eskiçamurlu village, 1800-2000 m, 08 vi 1995 BY. 12642.

\**Parapholis incurva* (L.) C.E.Hubb.

İ. Ü. Campus, 900 m, 14 vi 1986, BY. 7696.

*Echinaria capitata* (L.) Desf.

Venk village, Tavşan hill, calcareous area, 1400-1600 m, 20 v 1995, BY. 12221.

*Melica persica* Kunth subsp. *persica*

Konak, Horata, vineyards, 1000 m, 03 vi 1995, BY. 12489.

*M. persica* Kunth subsp. *inaequilumis* (Boiss.) Bor

Kilizik village, Dil hill, calcareous steppe, 1500 m, 14 vi 1995, BY. 12807.

*Stipa holosericea* Trin.

Between Venk and Eskiçamurlu villages, 1600 m, 08 vi 1995, BY. 12677, Ir.-Tur.

*S. arabica* Trin. & Rupr.

Beydağı, between Konak and Karagözlü village, calcareous area, 1100-1200 m, 03 vi 1995, BY. 12478, Ir.-Tur.

*S. ehrenbergiana* Trin. & Rupr.

Between Gündüzbey and Kozluk village, 1200 m, 21 v 1995, BY. 12246, Ir.-Tur.

*S. pulcherrima* C.Koch subsp. *epilosa* (Martinovsk) Tzvelev

Kilizik village, vineyards, 1000-1100 m, 14 vi 1995, BY. 12750.

*Piptatherum holciforme* (Bieb.) Roem. & Schult. subsp. *holciforme* var. *holciforme*

Between Beydağı and Konak, calcareous area, 1300 m, 14 v 1994, BY. 11394.

*Phragmites australis* (Cav.) Trin. ex Steud.

İ. Ü. Campus, steppe, 900 m, 15 viii 2000, T Arabacı-1172, Euro.-Sib.

*Echinochloa crus-galli* (L.) P.Beauv.

İ. Ü. Campus, wet places, 900 m, 15 x 2000, T Arabacı-1176.

*E. colonum* (L.) Link.

İ. Ü. Campus, wet places, 900 m, 15 x 2000, T Arabacı-1177.

*Setaria viridis* (L.) P.Beauv.

Around Venk village, vineyards and steppe, c. 1000 m, 25 vi 1995, BY. 12936.

*Pennisetum orientale* Rich.

Konak, Horata, vineyards, 1000 m, 03 vi 1995, BY. 12487, Ir.-Tur.

*Sorghum halepense* (L.) Pers. var. *halepense*

Around Kilizik village, calcareous steppe, c. 1000 m, 14 vi 1995, BY. 12716.

*Chrysopogon gryllus* (L.) Trin. subsp. *gryllus*

Beydağı, Konak, around Karagözlü village, calcareous area, 1100-1200 m, 03 vi 1995, BY. 12413.

*Bothriochloa ischaemun* (L.) Keng

Gündüzbey, vineyards, 1100-1200 m, 12 viii 2000, T Arabacı-1171.