

1-1-2005

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Recommended Citation

VURAL, CEM and AYTAÇ, ZEKİ (2005) "The Flora of Erciyes Dađı (Kayseri, Turkey)," *Turkish Journal of Botany*. Vol. 29: No. 3, Article 3. Available at: <https://journals.tubitak.gov.tr/botany/vol29/iss3/3>

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The Flora of Erciyes Dağı (Kayseri, Turkey)

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Received: 16.12.2003

Accepted: 21.02.2005

Abstract: This research details the flora of Erciyes Dağı, situated in the province of Kayseri in Central Anatolia, entirely within the Irano-Turanian phytogeographic region. A total of 2554 plant specimens were collected from the research area between 1996 and 2002. An evaluation of these specimens revealed 89 families, 433 genera and 1170 taxa (1116 species, 31 subspecies and 23 varieties). Of the 1170 taxa, 11 are pteridophytes, 12 gymnosperms and 1147 angiosperms (979 dicotyledons and 168 monocotyledons). Of these taxa, 36 are cultivars. According to the number of taxa, *Asteraceae*, *Fabaceae* and *Poaceae* are the largest families (137 *Asteraceae*, 116 *Fabaceae*, 88 *Poaceae*). The largest genera are *Astragalus* L. (40 taxa), *Silene* L. (22 taxa) and *Veronica* L. (19 taxa). The distribution of phytogeographic elements is as follows: Irano-Turanian 347 (29.7%), Mediterranean 79 (6.8%), Euro-Siberian 69 (5.9%) and others 675 (57.6%). Of the 194 (17.2%) endemic taxa in this area, 10 are peculiar to Erciyes Dağı. Known only from their types, *Hieracium argaeum* (Zahn) Sell & West and *Asyneuma trichostegium* (Boiss.) Bornm. were collected for the second time. The 161 taxa are new records for the square B5.

Key Words: Flora, Erciyes Dağı, Kayseri, Turkey

Erciyes Dağı Florası (Kayseri, Türkiye)

Özet: Bu çalışma, İç Anadolu'da, B5 karesinde ve Kayseri il sınırları içerisinde yer alan Erciyes Dağı'nın florasını içermektedir. Tamamen İran-Turan bitki coğrafyası bölgesine giren çalışma alanından 1996-2002 yılları arasında toplanan 2554 bitki örneğinin değerlendirilmesi sonucu 89 familya ve 433 cinse ait 1170 (1116 tür, 31 alttür, 23 varyete) tür ve tür altı takson tespit edilmiştir. Bu taksonlardan 11'i eğrettiler, 12'si açık tohumlular, 1147'si kapalı tohumlular (979'u çift çenekliler, 168'i tek çenekliler) alt bölümlerine dahildir. Bu taksonlardan 36 tanesi kültür bitkisidir. İhtiva ettikleri tür ve tür altı takson sayısı bakımından büyük familyalar, *Asteraceae* (137), *Fabaceae* (116) ve *Poaceae* (88) dir. En çok türle temsil edilen cinsler ise *Astragalus* (40), *Silene* (22) ve *Veronica* (19)'dir. Bitki coğrafyası elemanlarının dağılımı ise: İran-Turan 347 (% 29,7), Akdeniz 79 (% 6,8), Avrupa-Sibirya 69 (% 5,9) ve diğerleri 675 (% 57,6)'dir. Alandaki endemik tür sayısı 194 (% 17,2) olup 10'u Erciyes Dağı'na özgüdür. Yalnız tip örneğinden bilinen *Hieracium argaeum* (Zahn) Sell & West ve *Asyneuma trichostegium* (Boiss.) Bornm. türleri ikinci kez toplanmıştır. 161 takson B5 karesi için yeni kayıttır.

Anahtar Sözcükler: Flora, Erciyes Dağı, Kayseri, Türkiye

Introduction

The study area is located within the boundaries of Kayseri province and falls within B5 of the grid system adopted by Davis (Davis, 1965-1985). It is about 35 km in diameter. The altitude of the area varies from 1050 to 3917 m (Figure 1). There have been some observations on the flora and vegetation of Erciyes Dağı (Penther & Zederbauer, 1905; Kürschner, 1980; Çetik, 1982).

We chose the research area, Erciyes Dağı, for the following reasons:

1. There is no complete floristic study of Erciyes Dağı.
2. It is the highest mountain in Inner Anatolia.
3. It has some taxa peculiar to itself.
4. It is the type locality of 44 taxa.
5. It is a mountain isolated from its environs.

Erciyes Dağı is a stratovolcano that was formed by the eruption of viscous lava flows, tephra, and pyroclastic flows during the Upper Miocene-Quaternary period. A variety of magma types have been erupted, including

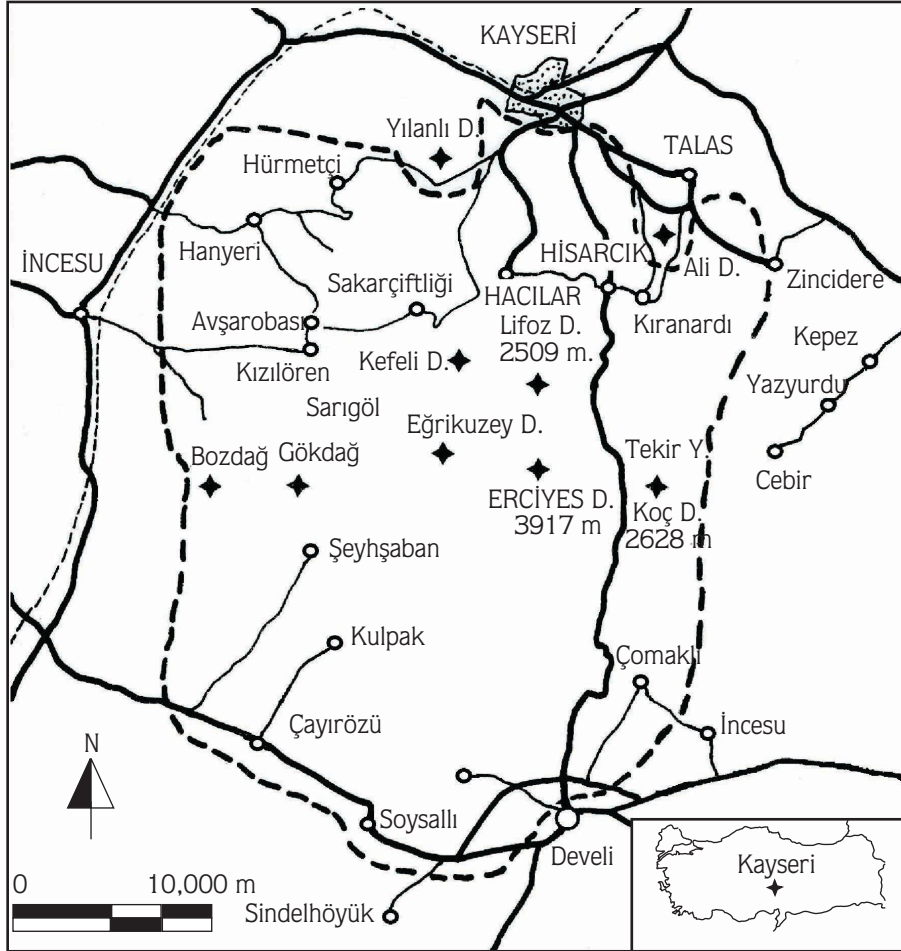


Figure 1. Map of the study area.

basalt, andesite, dacite and rhyolite. This stratovolcano consists of many separate vents, some of which have erupted cinder cones and domes on the volcano's flanks. There are 68 small cones (Kılıçdağı et al., 1999).

There are 6 large soil groups in the study area, namely non-calcareous brown soil, colluvial soils, brown soils, organic soils, alluvial soils and hydromorphic alluvial soils. The most widespread is the non-calcareous brown soil type (Tosunlar et al., 1996; Ünalı, 2003).

Unfortunately, there is no meteorological station in the study area. The nearest stations are located in Kayseri, which is north of the region at an altitude of 1068 m, and Develi, which is south of the region at an altitude of 1180 m. According to the values from these stations, the study area has a Mediterranean climate characterised by dry summers and warm temperatures

and precipitation during the winter months. The seasonal precipitation regime during the year is spring, winter, autumn and summer (SWAS). This is a typical second variant of the East Mediterranean climate (Akman, 1990). In Kayseri, the annual mean temperature is 10.6 °C. The maximum mean temperature (M) is 30.5 °C, in July and August. The minimum mean temperature (m) is -7.6 °C, in January. In Develi, the annual mean temperature is 10.5 °C. The maximum mean temperature (M) is 29.5 °C, in July. The minimum mean temperature (m) is -5.6 °C, in January. The ombro-thermic diagrams of Kayseri and Develi were prepared according to climate data obtained from the Kayseri and Develi meteorological stations (Figure 2).

The main goals of this study may be summarised as follows:

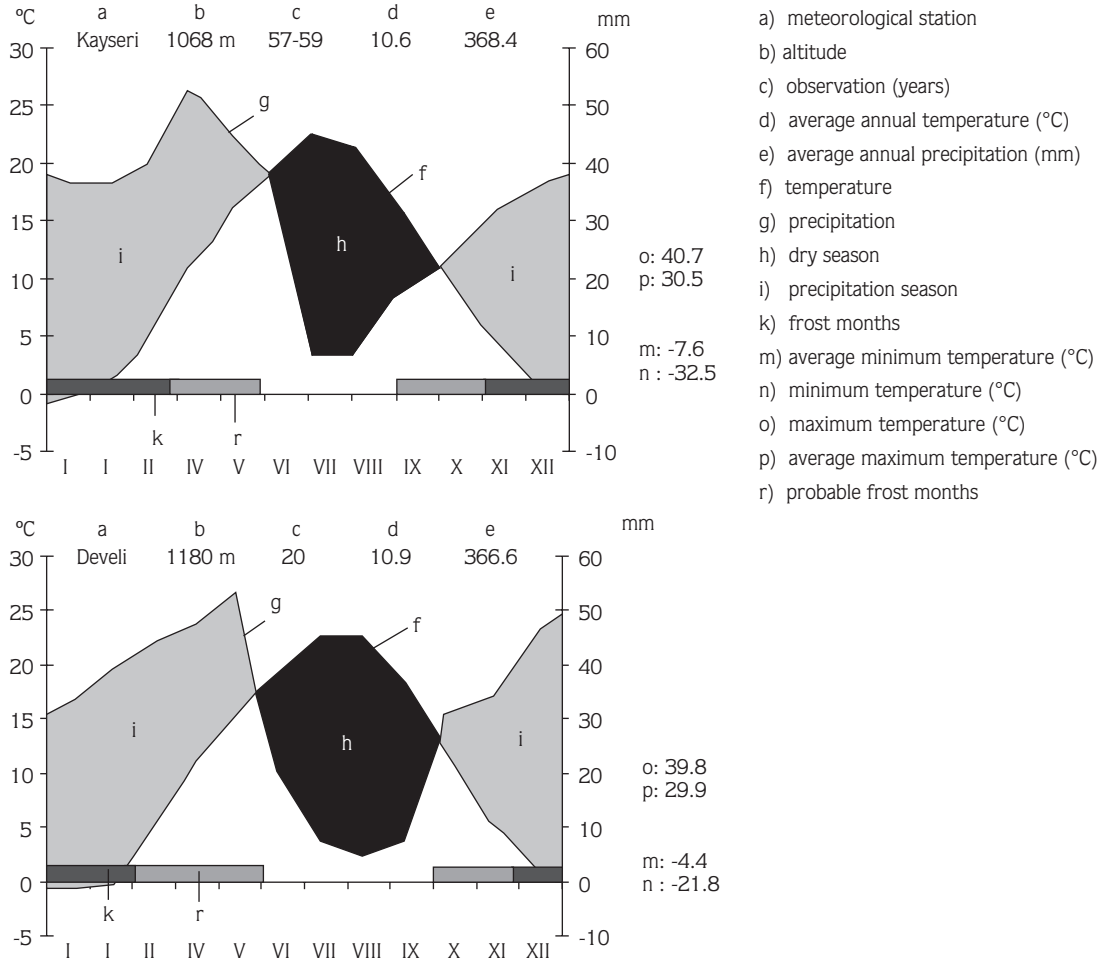


Figure 2. Ombrothermic diagrams of Kayseri and Develi.

1. to determine the vascular flora of Erciyes Dađı.
2. to determine rare and endemic plants of the research area. Since there is a severe anthropogenic effect, plants can barely survive under the unsuitable agricultural conditions.
3. to determine the main peculiarities of the vegetation types in the region.
4. to add any new records to the research area and square B5.
5. to collect taxa known only from their types.

Vegetation

The natural integrity of the vegetation of Erciyes Dađı has been almost completely destroyed by anthropogenic

factors, namely grazing and agricultural activities. The main vegetation types in the area are steppe, rock, forest, hygrophilic, fresh-water and halophytic.

The steppe vegetation is the most common in this area. The dominant taxa of this vegetation are *Astagalus angustifolius* Lam. subsp. *pungens* (Willd.) Hayek, *A. acicularis* Bunge, *A. gummifer* Labill., *A. acmophyllus* Bunge, *A. karamasicus* Boiss. & Balansa, *A. lineatus* Lam. var. *lineatus*, *Onobrychis argaea* Boiss. & Balansa, *O. cornuta* (L.) Desv., *Acantholimon acerosum* (Willd.) Boiss. var. *acerosum*, *A. caryophyllaceum* Boiss. subsp. *caryophyllaceum*, *Artemisia caucasica* Willd., *Achillea kotschyi* Boiss. subsp. *kotschyi*, *Alkanna orientalis* (L.) Boiss. var. *orientalis*, *Phlomis armeniaca* Willd., *Festuca cappadocica* (Hackel) Markgr.-Dann., *Phleum alpinum* L., *Poa alpina* L., *Stipa pulcherrima* K.Koch subsp.

crassiculmis (P.Smirn.) Tzvelev, *Alyssum minutum* Schltld. ex DC., *Draba cappadocica* Boiss. & Balansa, *Dianthus zederbaueri* Vierh., *Minuartia juniperina* (L.) Maire & Petitm. and *Herniaria argaea* Boiss.

The rock vegetation is mainly common around rocky regions at higher altitudes on the area. The dominant taxa of this vegetation are *Asplenium adiantum-nigrum* L., *A. haussknechtii* God. & Reut., *A. trichomones* L., *Athyrium filix-foemina* (L.) Roth, *Cystopteris fragilis* (L.) Bernh., *Polystichum lonchitis* (L.) Roth, *Umbilicus erectus* DC., *Oxyria digyna* (L.) Hill, *Draba bruniifolia* Steven subsp. *bruniifolia*, *Arabis caucasica* Willd. subsp. *brevifolia* (DC.) Cullen, *Haplophylum thesioides* (Fisch. ex DC.) G.Don, *Parietaria judica* L., *Sedum alpestre* Vill., *S. pallidum* M.Bieb. var. *pallidum*, *Sempervivum brevipilum* Muirhead, *Saxifraga exerata* Vill. var. *exerata*, *Campanula argaea* Boiss. & Balansa, *C. rapunculus* L. var. *rapunculus* and *Schrophularia libanotica* Boiss. subsp. *libanotica* var. *libanotica*.

The forest vegetation type is distributed on the south-west side and in a very restricted area of Erciyes Dağı. The forest remnants cannot be easily seen since they are out of the field of vision in valleys and on the tops of hills. The dominant taxa of this vegetation type are *Juniperus oxycedrus* L. subsp. *oxycedrus*, *J. communis* L. var. *saxatilis* (Pall.) A.E.Murray, *J. sabina* L., *Crataegus orientalis* Pall. ex M.Bieb. var. *orientalis*, *C. monogyna* Jacq., *Cerasus prostrata* (Labill.) Ser. var. *prostrata*, *Quercus infectoria* Oliver subsp. *boissieri* (Reut.) O.Schwarz, *Q. cerris* L. var. *cerris*, *Q. pubescens* Willd., *Q. robur* L. subsp. *robur*, *Q. macranthera* Fisch. & C.A.Mey. ex Hohen subsp. *sypirensis* (K.Koch) Menitsky, *Populus tremula* L., *Betula pendula* Roth, *Berberis crataegina* DC., *Rosa foetida* Herrm., *Cotoneaster integerrimus* Medik. and *C. nummularia* Fisch. & C.A.Mey.

Hygrophilic vegetation is present in the wet parts of the area near streams, ponds and springs. The dominant taxa of this vegetation are *Equisetum arvense* L., *E. ramosissimum* Desf., *Caltha polypetala* Hochst., *Ranunculus arvensis* L., *R. repens* L., *Cardamine uliginosa* M.Bieb., *Erophila verna* (L.) Chevall., *Polygonum amphibium* L., *Rumex acetocella* L., *Trifolium repens* L. var. *macrorrhizum* (Boiss.) Boiss., *Alchemilla mollis* (Buser) Rothm., *Epilobium montanum* L., *Tussilago farfara* L., *Taraxacum microcephaloides* van Soest, *Veronica anagalis-aquatica* L., *V. baccabunga* L., *Lamium amplexicaule* L., *Mentha spicata* L., *Prunella vulgaris* L.,

Juncus effusus L., *Luzula spicata* (L.) DC., *Carex nigra* Schkuhr subsp. *dacica* (Heuff.) Soó, *C. pallescens* L. var. *pallescens*, *C. ovalis* Gooden, *Nardus stricta* L. and *Catobrosa aquatica* Beauv.

The fresh-water vegetation is also represented around Soysallı and Hanyeriçiiftliği. The dominant taxa of this vegetation are *Phragmites australis* (Cav.) Trin. ex Steud., *Thypha latifolia* L., *Ranunculus sceleratus* L., *Potamogeton pectinatus* L., *Salix alba* L., *Potentilla reptans* L., *Veronica anagalis-aquatica* L., *Plantago lanceolata* L., *Eleocharis palustris* (L.) Roem. & Schult, *Polygonum amphibium* L., and *Carex hirta* L.

Halophytic steppe vegetation is common on the west and north-west side of Erciyes Dağı, near the road from Develi to Soysallı and Şeyhşaban, with an average altitude of 1080 m. The dominant taxa of this formation include *Plantago maritima* L., *Scorzonera hieraciifolia* Hayek, *Suaeda cornosissima* Post, *Salicornia prostrata* Pall., *Halimione verrucifera* (M.Bieb.) Aellen, *Salsola ruthenica* Iljin, *Taraxacum farinosum* Hausskn. & Bornm. ex Hand.-Mazz., *Cyathobasis fruticulosa* (Bunge) Aellen, *Puccinellia koeieana* Melderis subsp. *anatolica* Kit Tan and *P. bulbosa* Grossh. subsp. *caesarea* Kit Tan.

Materials and Methods

This investigation included 2554 plant specimens collected from Erciyes Dağı (Kayseri province) during the vegetation seasons between 1996 and 2002 and dried using standard herbarium methods. The majority of the specimens were identified with the help of the *Flora of Turkey and the East Aegean Islands* (Davis, 1965-1985; Davis et al., 1988; Güner et al., 2000). Some doubtful identifications were checked in *Flora Europaea* (Tutin et al., 1964-1980), *Flora Iranica* (Reichinger, 1965-1977), *Flora Palestina* (Zohary, 1966-1986), *Flora of Iraq* (Guest and Townsend, 1966-1985), *Flora URSS* (Komarov & Shishkin 1933-55), *Flora Orientalis* (Boissier, 1867-1888) and some revisions (Yıldırım, 1988; Doğan, 1991, 1999; Aytaç, 2000, 2004). The herbaria of GAZI, ANK and HUB were used to check the specimens.

The floral data are listed in the appendix. All taxa in the floristic list are given according to the order in the *Flora of Turkey and the East Aegean Islands* (Davis, 1965-1985; Davis et al., 1988).

The taxa marked with an asterisk in the appendix are reported from the B5 square for the first time (Yıldırım (1987), Erik & Demirkuş (1988), Sümbül (1989), Yıldırım & Güner (1989), İlarlan (1990), Donner (1990), Leblebici (1990), Duman, (1991), Erik & Sümbül (1992), Aydoğdu & Hamzaoğlu (1994), Aytaç (1994), Yıldırım (1994), Hamzaoğlu & Aydoğdu (1995), Dönmez (1996), Yıldırım (1996, 1996), Aytaç & Ekici (1997), Ertekin & Saya (1997), Vural et al. (1997), Bağcı (1998), Çelik & Dönmez (1998), Dönmez (1998), Yıldırım (1998, 1998), Yıldırım & Dönmez (1998), Yıldırım (1999, 1999), 2000, 2000, 2001, 2001, 2002). In the appendix, the following details are stated: family, genus, species, author(s), locality (since our study was carried out only in the B5 square, "B5 Kayseri; Erciyes Dağı" is not mentioned for each location), altitude, collection date, habitat, collector(s), collector number and Turkish names of the taxa for cultivated plants. In addition, the phytogeographic region is given along with the taxa endemism, threat categories (Ekim et al., 2000; IUCN, 2001) and Raunkiaer's life forms (Raunkiaer, 1934). We were not able to provide GPS coordinates for some locations of taxa since a GPS device was not available during the first years of the study.

The authors of species names are written according to Brummitt & Powell (1992).

The data of this study were compared with the results of other studies (Civelek, 1992; Vural et al, 1996; Ünal & Dinç, 2000; Duran & Hamzaoğlu, 2002).

The plant specimens prepared for herbarium collections have been stored in the Herbarium at Erciyes University Faculty of Arts and Sciences, GAZI and Yıldırım.

Abbreviations

The abbreviations used in the text and appendix are as follows:

(D.)–Dağı, (Y.)–Yaylası, (Msph)–Mesophanerophyte, (Mcph)–Microphanerophyte, (Nph)–Nanophanerophyte, (Ch)–Chamaephyte, (Hcrp)–Hemicryptophyte, (Crp)–Crytophyte, (Vp.)–Vascular parasite, (Hyd)–Hydrophyte, (Th)–Therophyte, (LC)–Least Concern, (NT)–Near Threatened, (VU)–Vulnerable, (EN)–Endangered, (CR)–Critically Endangered, (DD)–Data Deficient, (Euro-Sib.)–Euro-Siberian element, (E. Medit.)–East Mediterranean element, (Medit.)–Mediterranean element, (Ir.-Tur.)–Irano-Turanian element.

Results and Discussion

This study was carried out with 2554 plant specimens collected over 6 years. As a result of the identification of the plant specimens, 89 families, 433 genera, 1116 species, 31 subspecies and 23 varieties were determined. The total number of taxa was 1170. Of the species collected, 194 were endemic. From these taxa, 12 were from *Pteridophyta* and 1159 from *Spermatophyta* divisions. The subdivision *Gymnospermae* had 12 taxa and *Angiospermae* had 1147. Of these, 979 species belonged to the *Dicotyledones* while the other 168 belonged to the *Monocotyledones*. Finally, 161 taxa are considered new records for the B5 square.

The species of the study area, categorised according to phytogeographical regions, can be listed as follows: Irano-Turanian elements 347 (29.7%), Mediterranean elements 79 (6.8%), Euro-Siberian elements 69 (5.9%) and the remaining 675 (57.6%) taxa are multi-regional. The results of the studies conducted in close and similar areas, along with phytogeographical distribution, are presented in Table 1.

Many specimens belonging to the Irano-Turanian phytogeographic region were found in this study, indicating that the study area is in this. Compared with the results of flora research in Göreme (Vural et al., 1996) and Ekicek D. (Ünal & Dinç, 2000), a similar proportion of Mediterranean elements was collected. The proportion of Euro-Siberian elements in the Yıldız D. (Civelek, 1992) study area was rather high. The presence of Euro-Siberian elements in these location may be due to the local microclimate and the humid climatic conditions in the study area.

The number of taxa (1170) and rate of endemism (17.2%) were higher in our study than in other studies carried out in nearby areas. The main reasons for this are the edaphic, topographic, and climatic properties of the area and the altitude being between 1050 and 3917 m. In addition, the area is rather large (about 35 km diameter) and Erciyes Dağı is an extinct volcano. As is known, endemic species are mostly found on high mountains and where ecological diversity is rich.

The 10 largest families according to the number of species in this study and the studies mentioned above are compiled in Table 2.

The family *Asteraceae* is the largest group in the study area, with 137 taxa. The family *Fabaceae* is the largest in all studies partly because it is the second-largest family in

Table 1. A comparison of the phytogeographic elements.

Research area	Flora of Erciyes Dağı (Kayseri, Turkey)	Çamlıbel Geçidi ve Yıldız Dağı (Sivas-Tokat) Florası	Flora of Kazankaya Canyon (Yozgat-Çorum)	Göreme Milli Parkındaki Bitkilerin Teşhisi ve Bunların Peyzaj Mimarisi Yönünden Değerlendirilmesi	Ekicek Dağı (Aksaray) ve Çevresinin Florası
Total taxa	1170	976	308	674	494
Irano-Turanian elements (%)	29.7	25.1	16.9	29.6	26.9
Mediterranean elements (%)	6.8	3.2	13.3	5.2	7.5
Euro-Siberian elements (%)	5.9	16.2	3.6	3.6	7.1
Unknown phytogeographic region (%)	57.6	55.2	66.2	61.6	58.5

Table 2. Comparison of large families in Erciyes Dağı and neighbouring areas.

Research area	Flora of Erciyes Dağı (Kayseri, Turkey)	Çamlıbel Geçidi ve Yıldız Dağı (Sivas-Tokat) Florası	Flora of Kazankaya Canyon (Yozgat-Çorum)	Göreme Milli Parkındaki Bitkilerin Teşhisi ve Bunların Peyzaj Mimarisi Yönünden Değerlendirilmesi	Ekicek Dağı (Aksaray) ve Çevresinin Florası
Total taxa	1170	976	308	674	494
<i>Asteraceae</i>	137	141	37	84	62
<i>Fabaceae</i>	116	83	17	73	53
<i>Poaceae</i>	88	53	23	47	42
Lamiaceae	71	62	24	42	40
Caryophyllaceae	70	55	21	35	30
Brassicaceae	65	69	19	48	36
Scrophulariaceae	53	51	13	19	14
Rosaceae	46	45	13	31	17
Boraginaceae	43	28	13	42	14
Liliaceae	35	26	5	19	18

Turkey and because of the large number of wild leguminous plants growing in cultivated areas. The ordering of the largest families shows same varieties between studies because of geologic, geomorphologic, microclimatic and edaphic features.

The taxa can also be classified according to their life forms. Raunkiaer's life forms spectrum acts as an indicator of the climate or region (Raunkiaer, 1934; Akman and Ketenöglü, 1992). The life forms of the taxa according to Raunkiaer are given in Table 3; 472 (40.34%) of the taxa are hemicryptophytes, 303 (25.9%) therophytes, 150 (12.82%) cryptophytes, 125 (10.68%) chamaephytes, 97 (8.29%) phanerophytes

(meso- micro-nanophanerophytes), 15 (1.28%) vascular parasites and 8 (0.68%) hydrophytes.

The genera containing the highest number of species in this study are listed in Table 4.

In this study, 36 of the 1170 taxa are cultivated plants, and 194 (17.2%) out of the remaining 1134 were endemic (136 Irano-Turanian elements, 9 Mediterranean, 3 Euro-Siberian and 46 undetermined).

Of the 44 taxa whose types had been described from Erciyes Dağı, 10 are peculiar to this area; *Astragalus argaeus* Boiss., *A. stenosemioides* Bornm. ex Chamb. & Matthews, *Onobrychis argaea* Boiss. & Balansa, *Vicia*

Table 3. Life forms in the research area.

Life form	Number of taxa	Rate (%)
Hemicryptophyte	472	40.34
Therophyte	303	25.9
Cryptophyte	150	12.82
Chamaephyte	125	10.68
Mesophanerophyte	17	1.45
Microphanerophyte	47	4.02
Nanophanerophyte	33	2.82
Vascular parasite	15	1.28
Hydrophyte	8	0.68
Total	1170	100

Table 4. The genera containing the highest number of taxa.

Genera	Number of taxa	Rate (%)
<i>Astragalus</i>	40	3.42
<i>Silene</i>	22	1.88
<i>Veronica</i>	19	1.62
<i>Alyssum</i>	15	1.28
<i>Salvia</i>	15	1.28
<i>Vicia</i>	14	1.2
<i>Centaurea</i>	12	1.03
<i>Euphorbia</i>	12	1.03
<i>Dianthus</i>	12	0.94
<i>Allium</i>	10	0.85
Total	170	14.53

Table 5. Comparison of endemism.

Research area	Flora of Erciyes Dağı (Kayseri, Turkey)	Çamlıbel Geçidi ve Yıldız Dağı (Sivas-Tokat) Florası	Flora of Kazankaya Canyon (Yozgat- Çorum)	Göreme Milli Parkındaki Bitkilerin Teşhisi ve Bunların Peyzaj Mimarisi Yönünden Değerlendirilmesi	Ekicek Dağı (Aksaray) ve Çevresinin Florası
Endemism (%)	17.2	14.1	7.8	17	13.9
Endemic taxa	194	138	24	116	69
Total taxa	1170	976	308	674	494

canescens subsp. *argaea* P.H.Davis, *Hieracium argaeum* (Zahn) Sell & West, *Asyneuma trichostegium* (Boiss.) Bornm., *Festuca woronowii* Hackel subsp. *argaea* Markgr.-Dann., *F. cretica* Markgr.-Dann., *Bellardiochloa argaea* (Boiss. & Balansa) R.Mill. and *Dianthus crinitus* Sm. var. *argaeus* Aytaç & H.Duman

Known only from type specimens, *Hieracium argaeum* (Zahn) Sell & West and *Asyneuma trichostegium* (Boiss.) Bornm. were collected for the second time. However, *Astragalus argaeus* Boiss., *Hieracium subvandasii* (Bornm. & Zahn) Sell & West and *Vicia canescens* Labill. subsp. *argaea* P.H.Davis, known only from the type samples, could not be collected. Because of heavy grazing, these 3 taxa may not have flowered.

The taxa in the data deficient category were evaluated on the basis of the criteria of the IUCN for assessing

threat levels. The taxa were classified as follows: *Hieracium argaeum*-EN, *H. subvandasii*-EN, *Asyneuma trichostegium*-EN, *Myosotis diminuta*-EN, *Elymus elongatus* subsp. *salsus*-VU. Thus, the taxa which are endemic and non-endemic but threatened are listed as follows: LC-Least Concern 145, NT-Near Threatened 19, VU-Vulnerable 25, EN-Endangered 8 and CR-Critically Endangered 1 (IUCN, 2001).

Acknowledgements

We would like to thank Mecit Vural, Hayri Duman and M.G. Pimenov for their contribution to the process of identifying some of the species and we would also like to thank Donna Sue Özcan, Mikail Akbulut and Ertuğrul Yüzbaşıoğlu for improving the English. This paper is a part of the PhD thesis prepared by Cem Vural.

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APPENDIX

The sequence of families, genera and species in the list below follows the system adopted in the Flora of Turkey and the East Aegean Islands.

PTERIDOPHYTA

EQUISETACEAE

Equisetum ramosissimum Desf.

Tekir Y., 2294 m, 38°32. 653' N, 035°32. 279' E, 19 viii 2000, streamside, *C. Vural* 2951 & *M. Türktekin*.

Crp.

E. arvense L.

West side of Koç D., 2300 m, 21 viii 2001, streamside, *C. Vural* 3114.

Crp.

ASPLENIACEAE

**Asplenium trichomanes* L.

West side of Lifos D., Perilikartın, 2270 m, 38°35. 241' N, 035°27. 452' E, 25 vii 2000, foot of shady rock, *C. Vural* 2855 & *M. Türktekin*.

Crp.

**A. bourgaei* Milde

West side of Lifos D., Perilikartın, 2270 m, 38°35. 241' N, 035°27. 452' E, 25 vii 2000, foot of shady rock, *C. Vural* 2883 & *M. Türktekin*.

E. Medit. Crp.

**A. adiantum-nigrum* L.

West of Kepez, 1800 m, 25 iii 1998, foot of damp rock, *C. Vural* 1568.

Crp.

**A. septentrionale* (L.) Hoffm.

West side of Lifos D., Perilikartın, 2270 m, 38°35. 241' N, 035°27. 452' E, 25 vii 2000, foot of damp rock, *C. Vural* 2887 & *M. Türktekin*.

Widespread. Crp.

**A. haussknechtii* Godet & Reut.

West of Kepez, 1700 m, 25 iii 1998, streamside, *C. Vural* 1568.

Crp.

ATHYRIACEAE

**Athyrium filix-foemina* (L.) Roth

East of Hacilar, 1300 m, 06 v 2000, fieldside, *C. Vural* 1758b; above Hisarcık,

1940 m, 14 vi 2000, in valley, streamside, *C. Vural* 2174 & *M. Türktekin*.

Crp.

Cystopteris fragilis (L.) Bernh.

South of Yılanlı D., 1180-1240 m, 23 vi 1997, shady places, *C. Vural* 1359; above Hisarcık, in valley, 1932 m, 38°35. 900' N, 035°30. 808' E, 15 vi 2000, shady damp soil, *C. Vural* 2192 & *M. Türktekin*.

Widespread. Crp.

ASPIDIACEAE

Polystichum lonchitis (L.) Roth

Near Sargöl, 2350 m, 38°32. 66' N, 035°22. 007' E, 20 vi 2001, foot of rock, *C. Vural* 3052 & *M. Türktekin*.

Crp.

Dryopteris filix-mas (L.) Schott

Above Hisarcık, in valley, 1940 m, 14 vi 2000, streamside, *C. Vural* 2173 & *M. Türktekin*; between Öksüzdere and Derindere, 2400 m, 22 vii 2000, dry streambed, *C. Vural* 2799.

Crp.

SPERMATOPHYTA

GYMNOSPERMAE

PINACEAE

Abies cilicica (Ant. & Kotschy) Carr. subsp. *cilicica*

Above Hisarcık, tree plantation area, 1700 m, 10 vii 1996, steppe, *C. Vural* 1024.

E. Medit. (mt). Cultivated (Toros göknarı). Msph.

Picea orientalis (L.) Link

Beğendikbağları, 1100 m, 15 vii 1996, tree plantation area, *C. Vural* 1026.

Cultivated (doğu ladini). Msph.

Cedrus libani A.Rich.

Above Hisarcık, tree plantation area, 1700 m, 10 vii 1996, steppe, *C. Vural* 1025.

Medit. (mt). Cultivated (Toros sediri). Msph.

Pinus sylvestris L. var. *hamata* Steven

East of Tekir Y., 2000-2300 m, 10 ix 2000, steppe, *C. Vural* 3011 & *M. Türktekin*.

Euro-Sib. Cultivated (sarıçam). Msph.

P. nigra J.F.Arnold subsp. *nigra* var. *caramanica* (Loudon) Rehder

Above Hisarcık, tree plantation area, 1700 m, 10 vii 1996, steppe, *C. Vural* 1023.

Cultivated (karaçam). Msph.

CUPRESSACEAE

Cupressus sempervirens L.

Hisarcık, 1750 m, 10 vii 1996, graveyard, *C. Vural* 1019.

E. Medit. Cultivated (adi servi). Msph.

Juniperus communis L. var. *saxatilis* (Pall.) A.E.Murray

Above Hisarcık, 1940 m, 14 vi 2000, slope, *C. Vural* 2153; west of Lifos D., Perilikartın, 2270 m, 38°35. 241' N, 035°27. 452' E, 25 vii 2000, rocky place *C. Vural* 2882.

Widespread. Nph.

J. oxycedrus L. subsp. *oxycedrus*

West of Ali D., 1300 m, 19 v 1997, open area of oak thicket, steppe, *C. Vural* 1164; Hisarcık, 1800 m, 23 viii 2000, rocky slope, *C. Vural* 2984; Çaybağları, 1100-1300 m, 17 vi 2001, steppe, *C. Vural* 3068.

Nph.

J. foetidissima Willd.

Above Hisarcık, tree plantation area, 1900 m, 16 xi 2001, steppe, *C. Vural* 3105 & *M. Türktekin*.

Nph.

**J. sabina* L.

Above Kıranardı, 38°36. 605' N, 035°32. 181' E, 1650 m, 02 vii 2000, steppe, *C. Vural* 2027.

Ir.-Tur. Nph.

EPHEDRACEAE

Ephedra major Host

Beğendikbağları, 1400 m, 10 vii 1996, open rocky slope, *C. Vural* 1004.

Nph.

E. distachya L.

East of Yılanlı D., 1180-1240 m, 23 vi 1997, rocky steppe slope, *C. Vural* 1309.

Nph.

ANGIOSPERMAE

DICOTYLEDONAE

RANUNCULACEAE

Nigella segetalis M.Bieb.

Above Soysallı, 1100 m, 03 viii 2002. fieldside, *C. Vural* 3507.

Ir.-Tur. Hcrp.

N. arvensis L. var. *glauca* Boiss.

West slope of Lifos D., 1700-1950 m, 03 vii 1997, steppe, *C. Vural* 1436.

Hcrp.

N. nigellastrum (L.) Willk.

Between Hisarcık and Hacılar, 1300 m, 16 vi 2002, fieldside, *C. Vural* 3292.

Th.

Caltha polypetalata Hochst.

Above Hisarcık, in valley, 07 iv 2001, streamside, *C. Vural* 3034, *M. Türktekin* & *E. Toprak kale*.

Hcrp.

Delphinium venulosum Boiss.

West of Kepez, 1900 m, 13 x 1996, open area of oak thicket, *C. Vural* 1066; Çayırözü to Kulpak, 1202 m, 38°26. 841' N, 035°19. 009' E, 06 viii 2000, steppe, *C. Vural* 2923.

Endemic. Ir.-Tur. LC. Hcrp.

Consolida orientalis (Gay) Schröd.

Şeyhşaban junction, 1100 m, 38°27. 319' N, 035°12. 555' E, 20 vi 2000, roadside, *C. Vural* 2329 & *M. Türktekin*; Hanyeriçiftliği, Karataş hills, 1030-1200 m, 26 vi 2000, stony steppe, *C. Vural* 2513.

Th.

C. raveyi (Boiss.) Schröd.

Hanyeriçiftliği, Karataş hills, 1100-1300 m, 38°40. 102' N, 035°16. 673' E, 25 vi 2000, stony steppe, *C. Vural* 2529; Güzelce, north of Beşdam hills 1030-1100 m, 38°41. 495' N, 035°19. 403' E, 25 vi 2000, steppe, *C. Vural* 2477.

Endemic. Ir.-Tur. LC. Th.

Anemone albana Steven subsp. *armena* (Boiss.) P.Smirn.

Tekir Y., 2520 m, 13 x 1996, steppe, *C. Vural* 1060; west of road to Develi, 2520 m, 27 x 1996, steppe, *C. Vural* 1093; above Tekir Y., west side, 2255 m, 38°32. 477' N,

035°31. 341' E, 11 v 2000, steppe, *C. Vural* 1773.

Ir.-Tur. Crp.

A. blanda Schott & Kotschy

Above Soysallı, 1600 m, 20 iv 2002 open area of oak thicket, *C. Vural* 3506.

Crp.

**Adonis annua* L.

Above Kulpak, 1450 m, 18 v 2000, fieldside, *C. Vural* 1879. *Medit.*

Th.

A. aestivalis L. subsp. *parviflora* (Fisch. ex DC.) E.A.Busch

Near Hisarcık, 1400 m, 22 v 1997, roadside, *C. Vural* 1187; Above Soysallı, 1400-1700 m, 12 vi 1998, fallow field, *C. Vural* 1624.

Th.

**A. ericalyicina* Boiss.

East of Hacılar, 1478 m, 38°37. 737' N, 035°24. 968' E, 06 v 2000, under oak thicket, *C. Vural* 1770; above Şeyhşaban, 1400 m, 14 vi 2000, roadside, *C. Vural* 2282.

Ir.-Tur. Th.

A. flammea Jacq.

Near Karpuzseki, 1050-1100 m, 38°40. 039' N, 035°17. 089' E, 17 v 2000, rocky steppe, *C. Vural* 1801; Akçakaya, 1400 m, 30 v 2000, fieldside, *C. Vural* 1985.

Th.

Ranunculus repens L.

NE Tekir Y., 2250 m, 27 x 1996, streamside damp meadow, *C. Vural* 1079; above Kiranardı, 1545 m, 38°37. 253' N, 035°32. 082' E, 02 vi 2000, streamside, *C. Vural* 2009.

Widespread. Hcrp.

R. kotschy Boiss.

Near Kulpak, 1988 m, 38°35. 442' N, 035°30. 242' E., 25 v 2000, damp meadow, *C. Vural* 1893; above Kiranardı, 1545 m, 38°37. 253' N, 035°32. 082' E, 02 vi 2000, under oak thicket, *C. Vural* 2011.

Ir.-Tur. Hcrp.

R. constantinopolitanus (DC.) d'Urv.

Hisarcık to Kiranardı, 1431 m, 38°38. 836' N, 035°35. 253' E, 30 v 2000, streamside, *C. Vural* 1933; above Kiranardı,

1545 m, 38°37. 253' N, 035°32. 082' E, 02 vi 2000, under willow, shady damp soil, *C. Vural* 2012.

Widespread. Hcrp.

R. damascenus Boiss. & Gaill.

Above Kulpak, 1450 m, 38°27. 143' N, 035°20. 221' E, 18 v 2000, rocky steppe, *C. Vural* 1887.

Ir.-Tur. Crp.

R. cuneatus Boiss.

Above Hisarcık, valley east of the station, 1940 m, 38°35. 926' N, 035°30. 783' E, 25 v 2000, streamside, *C. Vural* 1914; above Hisarcık, tree plantation area, 1890 m, 26 v 2000, open area of oak thicket, *C. Vural* 1928.

Crp.

R. illyricus L. subsp. *illyricus*

Çaybağları, 1100-1200 m, 05 vi 2000, fieldside, *C. Vural* 2090; above Hisarcık, 1932 m, 38°35. 900' N, 035°30. 808' E, 15 vi 2000, shady damp soil, *C. Vural* 2204 & *M. Türktekin*.

Widespread. Crp.

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

West of Kepez, 1700 m, 25 iii 1998, steppe slope, *C. Vural* 1566.

Ir.-Tur. Crp.

R. arvensis L.

Hisarcık to Kiranardı, 1431 m, 38°38. 836' N, 035°35. 253' E, 30 v 2000, streamside, *C. Vural* 1935.

Th.

R. sphaerospermus Boiss. & Blanche

Near Soysallı, 1102 m, 38°23. 620' N, 035°21. 481' E, 18 v 2000, in water, *C. Vural* 1857.

Widespread. Hyd.

R. trichophyllus Chaix

İncesu, 1250 m, 19 v 1997, in water, *C. Vural* 1141.

Widespread. Hyd.

R. sceleratus L.

Develi to Soysallı, 1100 m, 08 vi 2002, wet meadow, *C. Vural* 3239.

Th.

Ceratocephalus falcatus (L.) Pers.

Çaybağları, 1100-1300 m, 17 v 2000, fieldside, *C. Vural* 1846.

Th.

C. testiculatus (Crantz) Roth

West of Kepez, 1600 m, 25 iii 1998, steppe slope, *C. Vural* 1556.

Th.

Aquilegia olympica Boiss.

East of Sakarciftliği, 1700-2200, 22 vi 2000, under *Populus tremula*, *C. Vural* 2426.

Crp.

**Thalictrum minus* L. var. *minus*

Above Hisarcık, in valley, 1940 m, 14 vi 2000, damp shady slope, *C. Vural* 2172 & *M. Türktekin*.

Hcrp.

**T. minus* L. var. *majus* (Crantz) Crép.

South of Yılanlı D., 1180-1240 m, 24 vi 1997, steppe slope, *C. Vural* 1346.

Hcrp.

T. flavum L.

East of Sakarciftliği, 1700-2200 m, 38°36. 311' N, 035°24. 132' E, 22 vi 2000, open area of *Populus tremula* forest, *C. Vural* 2416 & *M. Türktekin*.

Euro-Sib. Crp.

PAEONIACEAE

Paeonia mascula (L.) Mill. subsp. *arietina* (Anders.) Cullen & Heywood

West of Lifos D., Perilikartin, 2270 m, 38°35. 241' N, 035°27. 452' E, 25 vii 2000, foot of shady rock, *C. Vural* 2873 & *M. Türktekin*.

Ir.-Tur. Crp.

BERBERIDACEAE

Berberis crataegina DC.

Above Hisarcık, slope, 1200-1400 m, 22 v 1998, slope steppe, *C. Vural* 1617; Çaybağları, 1100-1300 m, 17 v 2000, steppe, *C. Vural* 2013.

Nph.

PAPAVERACEAE

Glaucium corniculatum (L.) Rudd. subsp. *corniculatum*

Above Soysallı, 1400-1700 m, 12 vi 1998, fieldside, *C. Vural* 1666.

Hcrp.

**G. flavum* Crantz.

Kayseri to Hisarcık, 1200 m, 13 x 1996, roadside, *C. Vural* 1111.

Widespread. Hcrp.

G. leiocarpum Boiss.

Akçakaya, 1375 m, 38°34. 226' N, 035°34. 238' E, 30 v 2000, roadside sandy soil, *C. Vural* 1963.

Hcrp.

G. acutidentatum Hausskn. & Bornm.

Near Hisarcık, Hisarcık to Hacılar, 1300-1450 m, 18 viii 1997, fieldside, *C. Vural* 1494.

Endemic. Ir.-Tur. LC. Hcrp.

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

South of Yılanlı D., 1300 m, 15 vii 1996, steppe, *C. Vural* 1038.

Widespread. Th.

Papaver bracteatum Lindl.

Erciyes D., *Bornm.* 1951.

Ir.-Tur. Hcrp.

P. triniifolium Boiss.

South of Yılanlı D., 1300 m, 15 vii 1996, steppe, *C. Vural* 1039.

Endemic. Ir.-Tur. LC. Th.

P. polychaetum Schott & Kotschy

Above Şeytanderesi, 3000-3500 m, 18 viii 1997, steppe, *C. Vural* 1468, *S. Özcan* & *M. Y. Dadandı*; between Öksüzdere and Derindere, 1800-2400 m, 22 vii 2000, steppe, *C. Vural* 2785.

Endemic. LC. Th.

P. rhoeas L.

Soysallı, 1250 m, 19 v 1997, steppe, *C. Vural* 1146 & *M. Y. Dadandı*; above Soysallı, 1400-1700 m, 12 vi 1998, fieldside, *C. Vural* 1646.

Th.

P. lacerum Popov

Çaybağları, 1300 m, 28 vi 2000, open area of oak thicket, *C. Vural* 2549 & *M. Türktekin*.

Widespread. Th.

P. commutatum Fisch. & C.A.Mey.

Çaybağları, 1100-1200 m, 05 vi 2000, under oak, *C. Vural* 2072.

Th.

P. argemone L.

Çaybağları, East of Ali D., 1100-1300 m, 17 v 2000, steppe, *C. Vural* 1840; above Kulpak, 1450 m, 38°27. 143' N, 035°20. 221' E, 18 v 2000, fieldside, *C. Vural* 1880.

Widespread. Th.

Hypocoum procumbens L.

Above Soysallı, 1400-1700 m, 12 vi 1998, fieldside, *C. Vural* 1700.

Medit. Th.

H. imberbe Sibth. & Sm.

Above Soysallı, 1250 m, 19 v 1997, steppe, *C. Vural* 1132 & *M. Y. Dadandı*.

Widespread. Th.

H. pendulum L.

Above Kulpak, 1450 m, 38°27. 143' N, 035°20. 221' E, 18 v 2000, roadside oak thicket, *C. Vural* 1886.

Widespread. Th.

Fumaria officinalis L.

Above Kulpak, 1400-1450 m, 18 v 2000, fieldside, *C. Vural* 1876; Çaybağları, 1100-1300 m, 17 vi 2000, fieldside, *C. Vural* 2064.

Widespread. Th.

**F. cilicica* Hausskn.

Çaybağları, 1100-1200 m, 05 vi 2000, roadside, *C. Vural* 2079a.

Ir.-Tur. Th.

F. vaillantii R.J.Loisel

East of Hacılar, 1478 m, 38°37. 737' N, 035°24. 968' E, 06 v 2000, stone heap, *C. Vural* 1766.

Th.

F. parviflora Lam.

Hisarcık to Kiranardı, 1430 m, 30 v 2000, shady streamside, *C. Vural* 1942.

Widespread. Th.

F. asepala Boiss.

Hisarcık, 1050 m, 38°40. 927' N, 035°16. 683' E, 17 v 2000, *C. Vural* 1818.

- Ir.-Tur. Th.
- BRASSICACEAE**
- Raphanus raphanistrum** L.
Near Kiranardi, 1300-1500 m, 02 vi 2000, fieldside, *C. Vural* 1988.
Th.
- Crambe tataria** Scheök var. **tataria**
Hisarcık to Kiranardi, 1100-1200 m, steppe, *C. Vural* 1363.
Hcrp.
- C. orientalis** L. var. **orientalis**
South of Yılanlı D., 1180-1240 m, 23 vi 1997, steppe, *C. Vural* 1363.
Widespread. Hcrp.
- Conringia perfoliata** (C.A.Mey.) Busch
Near Akçakaya, 1375 m, 38°34. 226' N, 035°34. 238' E, 30 v 2000, fieldside, *C. Vural* 1975.
Widespread. Th.
- Lepidium perfoliatum** L.
Near Kulpak, 1134 m, 38°25. 580' N, 035°17. 973' E, 18 v 2000, salty steppe, *C. Vural* 1861.
Th.
- L. cartilagineum** (J.Mayer) Thell. subsp. **cartilagineum**
Road to Şeyhşaban, 1150 m, 38°27. 319' N, 035°12. 555' E, 20 vi 2000, salty steppe, *C. Vural* 2330.
Hcrp.
- subsp. **crassifolium** (Waldst. & Kit.) Thell.
Road to Şeyhşaban, 1150 m, 38°27. 320' N, 035°12. 556' E, 20 vi 2000, salty steppe, *C. Vural* 2332.
Hcrp.
- Cardaria draba** (L.) Desv. subsp. **draba**
West of road from Tekir Y. to Develi, 2600 m, 27 x 1996, meadow, *C. Vural* 1089.
Widespread. Hcrp.
- subsp. **chalepensis** (L.) O.E.Schulz
Above Yenisanayi area, 1100-1300 m, 25 vi 2000, rocky steppe, *C. Vural* 2453.
Widespread. Hcrp.
- Isatis aucheri** Boiss.
Erciyes D., *Balansa* 452.
- Endemic. Ir.-Tur. LC. Hcrp.
- I. glauca** Aucher ex Boiss. subsp. **glauca**
Yeşilhisar to Soysallı, 1090 m, 08 vi 2002, roadside, *C. Vural* 3173.
Ir.-Tur. LC. Hcrp.
- I. floribunda** Boiss. ex *Bornm.*
Soysallı to Yeşilhisar, 1100 m, 19 iv 1995, roadside, *C. Vural* 1130.
Endemic. Ir.-Tur. LC. Hcrp.
- Aethionema arabicum** (L.) Andr. ex DC.
Above Hisarcık, slope, 1200-1400 m, 20 v 1998, damp meadow, *C. Vural* 1603.
Widespread. Th.
- ***Ae. grandiflorum** Boiss. & Hohen.
Above Hisarcık, tree plantation area, 1800-1895 m, 38°36. 706' N, 035°30. 415' E, 04 vii 2000, open area of oak thicket, *C. Vural* 2616 *M. Türktekin*.
Ir.-Tur. Hcrp.
- Ae. coridifolium** DC.
West of Ali D., 1300 m, 19 v 1997, fieldside, *C. Vural* 1152; above Hisarcık, tree plantation area, 1890 m, 26 v 2000, open area of oak thicket, rocky place, *C. Vural* 1927.
Ir.-Tur. Hcrp.
- Thlaspi perfoliatum** L.
West of Ali D., 1300 m, 19 v 1997, fieldside, *C. Vural* 1167.
Widespread. Th.
- Capsella bursa-pastoris** (L.) Medik.
Above Kulpak, 1400-1450 m, 38°25. 638' N, 035°19. 743' E, 18 v 2000, fieldside, *C. Vural* 1867.
Cosmopolitan. Th.
- Cochlearia sempervivum** Boiss. & *Balansa*
Beğendikbağları, 1500 m, 15 vii 1996, stony steppe, *C. Vural* 1032.
Endemic. NT. Hcrp.
- Boreava orientalis** Jaub. & Spach
Çaybağları, 1042 m, 38°40. 255' N, 035°15. 121' E, 17 v 2000, fieldside, *C. Vural* 1835.
Ir.-Tur. Th.
- Euclidium syriacum** (L.) R.Br.
Above Hisarcık, in valley, 1900 m, meadow, 01 vi 2002, *C. Vural* 3137.
Widespread. Th.
- Neslia apiculata** Fisch., C.A.Mey. & Avé-Lall.
Near Yılanlı D., 1180-1240 m, 23 vi 1997, under oak, *C. Vural* 1303.
Widespread. Th.
- Fibigia eriocarpa** (DC.) Boiss.
Below Kiranardi, 1400 m, 22 v 1997, fieldside, *C. Vural* 1247; above Hisarcık, in valley, 1900 m, steppe, 14 vi 2000, *C. Vural* 2140.
Widespread. Hcrp.
- Alyssum linifolium** Steph. ex Willd. var. **linifolium**
Çaybağları, 1050 m, 38°40. 927' N, 035°16. 683' E, 17 v 2000, rocky place, *C. Vural* 1825.
Widespread. Th.
- A. huetii** Boiss.
Above Hisarcık, 1900 m, 22 v 2002, open area of oak thicket, *C. Vural* 3132.
Endemic. Ir.-Tur. LC. Th.
- ***A. alyssoides** (L.) L.
Near Karpuzseki, 1050-1100 m, 17 v 2000, steppe, *C. Vural* 1811.
Th.
- A. desertorum** Stapf. var. **desertorum**
Near Karpuzseki, 1050-1100 m, 17 v 2000, steppe, *C. Vural* 1809.
Widespread. Th.
- A. minutum** Schltld. ex DC.
East of Sakarçiftliği, 1700-2200 m, 38°36. 311' N, 035°24. 132' E, 22 vi 2000, *C. Vural* 2367.
Widespread. Th.
- A. minus** (L.) Rothm. var. **minus**
West of Kepez, 1600 m, 25 iii 1998, streamside, *C. Vural* 1545.
Widespread. Th.
- var. **micranthum** (C.A.Mey.) Dudley
Çaybağları, 1100-1200 m, 05 vi 2000, open area of oak thicket, fieldside, *C. Vural* 2119.

Widespread. Th.

A. stapfii Vierh.

East of Hacılar, 1300 m, 38°40. 072' N, 035°27. 692' E, 06 v 2000, fieldside, *C. Vural* 1744.

Ir.-Tur. Th.

A. strigosum Banks & Sol. subsp. **strigosum**

Above Hisarcık, 1400 m, 22 v 1997, fieldside, *C. Vural* 1241.

Widespread. Th.

subsp. **cedrorum** (Schott & Kotschy) Dudley

Above Şeyhşaban, 1450-1700 m, 14 vi 2000, open area of oak thicket, *C. Vural* 2250.

Th.

A. caespitosum Baug.

Above Hisarcık, 1800 m, 02 v 2000, steppe, *C. Vural* 3025.

Endemic. Ir.-Tur. NT. Th.

A. constellatum Boiss.

South of Hacılar in valley, 1640 m, 38°37. 708' N, 035°29. 104' E, 12 vii 2000, steppe, *C. Vural* 2670 & *M. Türktekin*.

E. Medit. Hcrp.

A. sibiricum Willd.

Güzelce, north of Beşdam hills, 1030-1100 m, 38°41. 495' N, 035°19. 403' E, 25 vi 2000, steppe, *C. Vural* 2461.

Ch.

A. murale Waldst. & Kit. subsp. **murale** var. **murale**

South of Yılanlı D., 1180-1240 m, 23 vi 1997, steppe slope, *C. Vural* 1320.

Hcrp.

*subsp. **murale** var. **alpinum** Boiss. ex Nyár

Below Kıranardı, 1400 m, 22 v 1997, steppe, *C. Vural* 1200; near Karpuzseki, 1050 m, 38°40. 927' N, 035°16. 683' E, 17 v 2000, rocky steppe, *C. Vural* 1822.

Hcrp.

Clypeola jonthlaspi L.

Near Şeyhşaban, 1400 m, 14 vi 2000, under oak, *C. Vural* 2299 & *M. Türktekin*.

Widespread. Th.

Draba bruniifolia Steven subsp. **bruniifolia**

Above Tekir Y., 2255 m, 38°32. 477' N, 035°31. 341' E, 11 v 2000, foot of rock, *C. Vural* 1772.

Ir.-Tur. Ch.

D. cappadocica Boiss. & *Balansa*

Kayseri in regione alpina montis argaei, Cappadocicae, *Balansa* (type); east of Lifos D., 2100 m, 10 vii 1997, rocky steppe, *C. Vural* 1022.

Endemic. Ir.-Tur. LC. Ch.

D. huetii Boiss.

Near Tekir Y., 2150 m, 30 vii 2002, wet meadow, *C. Vural* 3440.

Th.

Erophila verna (L.) Chevall. subsp. **verna**

West of Kepez, 1600 m, 25 iii 1998, streamside, *C. Vural* 1548. Widespread.

Th.

*subsp. **spathulata** (Láng) Walters

Kayseri to Hisarcık, 1300 m, 17 ii 1997, roadside, *C. Vural* 1119.

Th.

Arabis caucasica Willd. subsp. **brevifolia** (DC.) Cullen

West of Ali D., 1300 m, 19 v 1997, steppe, *C. Vural* 1149.

E. Medit. Hcrp.

A. nova Vill.

Near Karpuzseki, 1050-1100 m, 17 v 2000, rocky steppe, *C. Vural* 1802.

Widespread. Th.

Barbarea vulgaris R.Br.

Above Hisarcık, 1200-1400 m, 20 v 1998, damp meadow, *C. Vural* 1592.

Widespread. Hcrp.

***Cardamine raphanifolia** Pourr. subsp. **acris** (Gris.) O.E.Schulz

Above Kıranardı, 1650 m, 38°36. 605' N, 035°32. 181' E, 02 vi 2000, in water, *C. Vural* 2039.

Euro-Sib. Crp.

C. uliginosa M. Bieb.

Above Hisarcık 1940 m, 14 vi 2000, streamside, *C. Vural* 2152.

Widespread. Crp.

Aubrieta pinardii Boiss.

Above Hisarcık, 1200-1400 m, 20 v 1998, rocky steppe, *C. Vural* 1598.

Endemic. Ir.-Tur. LC. Hcrp.

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

Above Soysallı, 1400-1700 m, 12 vi 1998, steppe, *C. Vural* 1630.

Widespread. Th.

Chorispora syriaca Boiss.

Çaybağları, 1050 m, 17 v 2000, fieldside, *C. Vural* 1834.

Ir.-Tur. Th.

C. tenella (Pall.) DC.

Above Kulpak, 1400-1450 m, 18 v 2000, fieldside, *C. Vural* 1871.

Th.

Hesperis bicuspidata (Willd.) Poir.

Above Hisarcık, 1200-1400 m, 20 v 1998, rocky steppe, *C. Vural* 1598b.

Widespread. Hcrp.

***H. matronalis** L. subsp. **matronalis**

Çaybağları, 1100-1200 m, 05 vi 2000, open area of oak thicket, *C. Vural* 2068.

Endemic. NT. Hcrp.

Malcolmia africana (L.) R.Br.

Soysallı, 1250 m, 19 v 1997, roadside, *C. Vural* 1143.

Widespread. Th.

Erysimum alpestre Kotschy ex Boiss.

Above Hisarcık, valley east of the station, 1940 m, 38°35. 926' N, 035°30. 783' E, 25 v 2000, steppe, *C. Vural* 1912.

Ir. -Tur. Hcrp.

E. uncinatifolium Boiss.

Above Hisarcık, slope, 1200-1400 m, 20 v 1998, steppe, *C. Vural* 1595.

Endemic. Ir.-Tur. LC. Hcrp.

E. diffusum Ehrh.

Hisarcık, 1400 m, 22 v 1997, shady place, *C. Vural* 1202.

Euro-Sib. Hcrp.

E. crassipes Fisch. & C.A.Mey.

Şeyhşaban, 1400 m, 14 vi 2000, steppe, *C. Vural* 2291.

- Widespread. Hcrp.
- E. smyrnaeum** Boiss. & *Balansa*
Above Hisarcık, 1940 m, 14 vi 2000, open area of oak thicket, *C. Vural* 2148.
Widespread. Hcrp.
- Alliaria petiolata** (M. Bieb.) Cavara & Grande
Beğendikbağları, 1500 m, 15 vii 1996, rocky steppe, *C. Vural* 1031.
Hcrp.
- Sisymbrium altissimum** L.
Above Hisarcık, 1400-1700 m, 18 viii 1997, steppe, *C. Vural* 1487; Şeyhşaban, 1400 m, 14 vi 2000, steppe, *C. Vural* 2247; Güzelce, north of Beşdam hills, 1030-1100 m, 38°41. 495' N, 035°19. 403' E, 25 vi 2000, steppe, *C. Vural* 2520.
Widespread. Hcrp.
- S. loeselii** L.
Beğendikbağları, 1180-1240 m, 23 vi 1997, steppe, *C. Vural* 1273; Çaybağları, 1100-1200 m, 05 ix 2000, open area of oak thicket, *C. Vural* 3005.
Th.
- Descurainia sophia** (L.) Webb ex Prantl
Beğendikbağları, 1180-1240 m, 23 vi 1997, steppe, *C. Vural* 1276; Şeyhşaban, 1400 m, 14 vi 2000, steppe, *C. Vural* 2262.
Widespread. Th.
- Camelina laxa** C.A.Mey.
Güzelce, north of Beşdam hills, 1030-1100 m, 38°41. 495' N, 035°19. 403' E, 25 vi 2000, steppe, *C. Vural* 2456.
Th.
- RESEDACEAE**
- Reseda inodora** Rchb. var. *anatolica* Boiss.
Çaybağları, 1200 m, 17 v 2000, fieldside, *C. Vural* 1852.
Hcrp.
- R. lutea** L. var. *lutea*
Above Hisarcık, 1930 m, 14 vi 2000, slope, *C. Vural* 2134.
Widespread. Hcrp.
- CISTACEAE**
- Helianthemum racemosum** Dun.
Near Akçakaya, 1375 m, fieldside, 38°34. 226' N, 035°34. 238' E, *C. Vural* 1978b.
E. Medit. Hcrp.
- *H. nummularium** (L.) Mill. subsp. *lycaonicum* Coode & Cullen
Near Akçakaya, 1375 m, 38°34. 226' N, 035°34. 238' E, 30 v 2000, fieldside, *C. Vural* 1978a.
Endemic. Ir.-Tur. LC. Hcrp.
- H. apennium** (L.) Mill.
Soysallı, 1100 m, 03 viii 2002, steppe, *C. Vural* 3503.
Hcrp.
- H. canum** (L.) Baumg.
Above Hisarcık, tree plantation area, 1700 m, 04 vii 2000, *C. Vural* 2638.
Widespread. Ch.
- H. salicifolium** (L.) Mill.
Near Karpuzseki, 1050-1100 m, 17 v 2000, steppe, *C. Vural* 1808.
Widespread. Th.
- Fumana procumbens** (Dun.) Gren. & Godet
Above Hisarcık, tree plantation area, 1700 m, 04 vii 2000, *C. Vural* 2637.
Ch.
- VIOLACEAE**
- *Viola odorata** L.
Above Hisarcık, in valley, 1700 m, 17 iv 2001, streamside, *C. Vural* 3029, *M. Türktekin* & *E. Toprakkale*.
Hcrp.
- V. occulta** Lehm.
West of Kepez, 1600 m, 25 iii 1998, fieldside, *C. Vural* 1549.
Th.
- V. parvula** Tineo
Karpuzseki, 1100 m, steppe, *C. Vural* 1823.
Th.
- POLYGALACEAE**
- Polygala supina** Schreb.
Above Hisarcık, 1400 m, 22 v 1997, steppe, *C. Vural* 1222.
Widespread. Hcrp.
- P. anatolica** Boiss. & Heldr.
Above Hisarcık, tree plantation area, 1800 m, 04 vii 2000, steppe, *C. Vural* 2622.
Widespread. Hcrp.
- P. papillonacea** Boiss.
Above Kiranardı, 1550 m, 02 vi 2000, steppe, *C. Vural* 2018.
Hcrp.
- CARYOPHYLLACEAE**
- Arenaria leptocladus** (Rchb.) Guss.
East of Sakarciftliği, 1700 m, 22 vi 2000, open area of *Populus tremula* forest, *C. Vural* 2378.
Th.
- A. drypidea** Boiss.
Above Hacilar, 1800-2000 m, 20 viii 1997, steppe, *C. Vural* 1510.
Endemic. Ir.-Tur. LC. Hcrp.
- A. acutisepala** Hauszkn. ex Williams
South of Yılanlı D., 1250 m, steppe, *C. Vural* 1393.
Endemic. Ir.-Tur. LC. Ch.
- Minuartia hirsuta** (M.Bieb.) Hand. - Mazz.
Above Kiranardı, 1650 m, 02 vi 2000, steppe, *C. Vural* 2040.
Widespread. Hcrp.
- M. recurva** (All.) W.Schinz & Thell. subsp. *oreina* (Mattf.) McNeill
Above Tekir Y., 3100 m, 30 vii 2002, *C. Vural* 3476, *Cng. Vural*.
Ch.
- M. juniperina** (L.) Maire & Petitm.
South of Yılanlı D., 1180-1240 m, 24 v 1997, steppe, slope, *C. Vural* 1349.
Widespread. Ch.
- M. erythrosepala** (Boiss.) Hand. -Mazz. var. *erythrosepala*
Near Kulpak, 1988 m, 38°35. 442' N, 035°30. 242' E, 25 v 2000, steppe, *C. Vural* 1897.
Widespread. Ch.
- var. *cappadocica* (Boiss.) McNeill
Above Hisarcık, 1900 m, 22 v 2002, open area of oak thicket, *C. Vural* 3133.

- Endemic. Ir.-Tur. LC. Hcrp.
M. corymbulosa (Boiss. & *Balansa*) McNeill var. *corymbulosa*
 Çaybağları, 1300 m, 19 v 1997, steppe, *C. Vural* 1153.
 Endemic. Ir.-Tur. NT. Hcrp.
 ***M. mesogitana** (Boiss.) Hand. -Mazz. subsp. *kotschyana* (Boiss.) McNeill
 West of Ali D., 1300 m, 19 v 1997, steppe, *C. Vural* 1153.
 Th.
 ***M. subtilis** (Fenzl) Hand. -Mazz.
 Above Hisarcık, 1400 m, 20 v 1998, steppe, *C. Vural* 1596.
 Ir.-Tur. Th.
M. urumiensis (Bornm.) Bornm.
 West of road from Tekir Y. to Develi, 2500 m, 17 x 1996, steppe, *C. Vural* 1096.
 Ir.-Tur. Th.
Stellaria media (L.) Vill. subsp. *media*
 Hisarcık, 1300 m, 17 ii 1997, roadside, *C. Vural* 1121.
 Th.
 subsp. *pallida* (Dumort.) Asch. & Graebn.
 Hisarcık to Kiranardı, 1431 m, 38°38. 839' N, 035°35. 253' E, 30 v 2000, *C. Vural* 1939.
 Th.
Cerastium cerastioides (L.) Britt.
 Tekir Y., 1600 m, 08 vi 2002, wet meadow, *C. Vural* 3256.
 Hcrp.
 ***C. anomalum** Waldst. & Kit.
 Hisarcık to Kiranardı, 1430 m, 30 v 2000, streamside, *C. Vural* 1938.
 Th.
C. perfoliatum L.
 East of Hacılar, 1300 m, 38°40. 072' N, 035°27. 692' E, 06 v 2000, fieldside, *C. Vural* 1746.
 Th.
C. gnaphalodes Fenzl
 East of Sakarçiftliği, 1700-2200 m, 38°36. 311' N, 035°24. 132' E, 22 vi 2000, waste place, *C. Vural* 2406.
 Endemic. LC. Hcrp.
C. dichotomum L. subsp. *dichotomum*
 Above Hisarcık, 1200-1400 m, 22 v 1998, damp soil, *C. Vural* 1607.
 Widespread. Th.
C. gracile Duf.
 Above Kiranardı, 1650 m, 38°36. 605' N, 035°32. 181' E, 02 vi 2000, steppe, *C. Vural* 2033.
 Th.
Holosteum umbellatum L. var. *umbellatum*
 West of Kepez, 1700 m, 25 iii 1998, steppe, damp place, *C. Vural* 1563.
 Th.
 ***Sagina saginoides** (L.) H.Karst.
 Above Hisarcık, 1200-1400 m, 20 v 1998, steppe, *C. Vural* 1588.
 Hcrp.
S. procumbens L.
 Above Tekir Y., 3550 m, 08 viii 2001, rocky slope, *C. Vural* 3090.
 Hcrp.
Spergularia media (L.) C.Presl
 İncesu to Soysallı, 1150 m, 19 v 1997, salty steppe, *C. Vural* 1144.
 Hcrp.
S. rubra (L.) J. & C.Presl
 Above Beğendikbağları, 1300 m, 24 vi 2000, steppe, *C. Vural* 2450.
 Th.
 ***Telephium imperati** L. subsp. *orientale* (Boiss.) Nyman
 Beğendikbağları, 1200-1350 m, 12 vii 2000, fieldside, *C. Vural* 3022.
 Widespread. Th.
Dianthus zederbaueri Vierh.
 Erciyes D., 2300m, 22 vii 1902, *Zederbauer* (type); east of Sakarçiftliği, 1700-2200 m, 38°36. 311' N, 035°24. 132' E, 22 vi 2000, steppe, *C. Vural* 2377.
 Endemic. Ir.-Tur. LC. Hcrp.
D. balansae Boiss.
 Çaybağları, 1300 m, 28 vi 2000, open place in oak forest, *C. Vural* 2543.
 Endemic. LC. Hcrp.
D. floribundus Boiss.
 West of Kepez, 1950 m, 15 x 1996, fieldside, *C. Vural* 1068.
 Hcrp.
D. crinitus Sm. var. *crinitus*
 Soysallı, 1300 m, 03 viii 2002, steppe, *C. Vural* 3490.
 Ir.-Tur. Hcrp.
 var. *argaeus* Aytaç & H.Duman
 Above Tekir Y., 3000-3200 m, 8 vii 1996, alpine steppe, *H.Duman* 6317 & Aytaç (type).
 Endemic to Erciyes D. Hcrp.
D. masmenaeus Boiss. var. *glabrescens* Boiss.
 Erciyes D., alpine zone, *Balansa* (syntype); above Develi, 2500 m, 27 x 1996, steppe, *C. Vural* 1085b.
 Endemic. Ir.-Tur. LC. Hcrp.
D. brevicaulis Fenzl subsp. *brevicaulis*
 Above Develi, 2500 m, 27 x 1996, steppe, *C. Vural* 1085a.
 Endemic. Ir.-Tur. LC. Hcrp.
D. zonatus Fenzl var. *zonatus*
 Çayırözü to Kulpak, 1202 m, 38°26. 841' N, 035°19. 009' E, 06 viii 2000, steppe, *C. Vural* 2924.
 E. Medit. Hcrp.
 var. *hypochlorus* (Boiss. & Heldr.) Reeve
 Above Hisarcık, tree plantation area, 1800-1895 m, 38o 36. 706' N, 035o 30. 415' E, 04 vii 2000, steppe, *C. Vural* 2583.
 Hcrp.
 ***D. carmelitarum** Reut. ex Boiss.
 Hacılar to top of Erciyes, 1750 m, 20 viii 1997, steppe, *C. Vural* 1527.
 Endemic. Euro-Sib. LC. Hcrp.
D. calocephalus Boiss.
 South of Yılanlı D., 1180-1240 m, 23 vi 1997, steppe, *C. Vural* 1314.
 Widespread. Hcrp.
 ***D. lydus** Boiss.
 Beğendikbağları, 1180-1240 m, 23 vi 1997, steppe, *C. Vural* 1323.

- Endemic. LC. Hcrp.
- Petrorhagia alpina** (Habl.) Ball & Heywood subsp. *alpina*
East of Sakarciftliği, 1700-2200 m, 38°36. 311' N, 035°24. 132' E, 22 vi 2000, steppe, *C. Vural* 2401.
Euro-Sib. Th.
- Velezia rigida** L.
Above Soysallı, 1400-1700 m, 12 vi 1998, fieldside, *C. Vural* 1657.
Widespread. Th.
- Saponaria orientalis** L.
Akçakaya, 1375 m, 38°34. 226' N, 035°34. 238' E, 30 v 2000, steppe, *C. Vural* 1956.
Th.
- S. viscosa** C.A.Meyer
Above Tekir Y., 2300 m, 18 vii 2002, steppe slope, *C. Vural* 3461.
Ir.-Tur. Th.
- S. prostrata** Willd. subsp. *prostrata*
Above Soysallı, 1400-1700 m, 12 vi 1998, steppe, *C. Vural* 1648.
Endemic. Ir.-Tur. LC. Th.
- Phyrna ortegioides** (Fisch. & C.A.Mey.) Pax & Hoffm.
Above Hacılar, 1800-2000 m, 21 vii 1997, steppe, *C. Vural* 1537.
Endemic. Ir.-Tur. NT. Hcrp.
- Gypsophila perfoliata** L.
Hanyeriçiftliği, Karataş hills, 1100 m, 26 vi 2000, steppe, *C. Vural* 2518a.
Ir.-Tur. Th.
- G. pilosa** Huds.
Hanyeriçiftliği, Karataş hills, 1100 m, 26 vi 2000, steppe, *C. Vural* 2518b.
Ir.-Tur. Th.
- Vaccaria pyramidata** Medik. var. *grandiflora* (Fisch. ex DC.) Cullen
Soysallı to Yeşilhisar, 1150 m, 08 vi 2002, roadside, *C. Vural* 3184.
Th.
- *Silene marschallii** C.A.Mey.
East of Sakarciftliği, 1700-2200 m, 38°36. 311' N, 035°24. 132' E, 22 vi 2000, steppe, *C. Vural* 2383.
Ir.-Tur. Hcrp.
- S. lasiantha** K.Koch
Above Tekir Y., 2900 m, 30 vii 2002, *C. Vural* 3469 & *Cng. Vural*.
Ir.-Tur. Hcrp.
- S. armena** Boiss. var. *armena*
Above Hacılar, west of Lifos D., 1800 m, 16 vii 2002, steppe, *C. Vural* 3349.
Endemic. LC. Hcrp.
- *S. swertiifolia** Boiss.
Güzelce, Beşdam hills, 1100 m, 25 vi 2000, steppe, *C. Vural* 2487.
Hcrp.
- S. stenobotrys** Boiss. & Hausskn.
East of Sakarciftliği, 2200 m, 13 vii 2000, steppe, *C. Vural* 3023.
Ir.-Tur. Hcrp.
- S. cappadocica** Boiss. & Heldr.
Near Şeyhşaban, 1300-1400 m, 20 vi 2000, steppe, *C. Vural* 2308.
Ir.-Tur. Hcrp.
- S. spergulifolia** (Desf.) M.Bieb.
Above Hisarcık, tree plantation area, 1650-1758 m, 38°36. 819' N, 035°30. 584' E, 06 vii 2000, steppe, *C. Vural* 2661.
Ir.-Tur. Hcrp.
- S. supina** M.Bieb. subsp. *pruinosa* (Boiss.) Chowdh.
Hisarcık to Hacılar, 1300-1450 m, 18 viii 1997, roadside, *C. Vural* 1495.
Widespread. Hcrp.
- S. montbretiana** Boiss.
North of Yılanlı D., 1180-1240 m, 23 vi 1997, *C. Vural* 1301.
Ir.-Tur. Hcrp.
- S. arguta** Fenzl.
Çaybağları, 1200 m, 05 vi 2000, steppe, *C. Vural* 2083.
Ir.-Tur. Hcrp.
- S. oreophila** Boiss.
Çaybağları, 1200 m, 05 vi 2000, open area of oak thicket, *C. Vural* 2104.
Ir.-Tur. Hcrp.
- S. dianthoides** Pers.
Above Şeytanderesi, 3000-3500 m, 18 viii 1997, steppe, *C. Vural* 1456.
Ir.-Tur. Hcrp.
- S. vulgaris** (Moench) Garcke var. *vulgaris*
South of Yılanlı D., 1180-1240 m, 23 vi 1997, *C. Vural* 1388.
Widespread. Hcrp.
- S. argaea** Fisch. & C.A.Mey.
Erciyes D., 3000 m, *Balansa* 1042 (lectotype); above Şeytanderesi, 3000-3500 m, 18 viii 1997, steppe, *C. Vural* 1465.
Endemic. Ir.-Tur. LC. Hcrp.
- S. rhynchocarpa** Boiss.
Erciyes D., 1400 m, 22 v 1997, steppe, *C. Vural* 1248.
Hcrp.
- *S. caryophylloides** Otth subsp. *stentoria* (Fenzl) Coode & Cullen
Between Öksüzdere and Derindere, 2400 m, 22 vii 2000, steppe, *C. Vural* 2793.
Endemic. Ir.-Tur. LC. Hcrp.
- S. compacta** Fisch.
North of Yılanlı D., 1180-1240 m, 23 vi 1997, steppe, *C. Vural* 1284; Çaybağları, 1300 m, 28 vi 2000, steppe, *C. Vural* 2577.
Widespread. Hcrp.
- S. alba** (Mill.) E.H.L.Krause subsp. *divaricata* (Rchb.) Walters
Erciyes D., 1400 m, 22 v 1997, steppe, *C. Vural* 1209.
Widespread. Hcrp.
- S. dichotoma** Ehrh. subsp. *dichotoma*
Above Soysallı, 1400-1700 m, 12 vi 1998, steppe, *C. Vural* 1635.
Widespread. Hcrp.
- subsp. *sibthorpiana* (Rchb.) Rech.
Near Kiranardı, 1300-1500 m, 02 vi 2000, steppe, *C. Vural* 2001.
Hcrp.
- S. subconica** Friv.
Soysallı, 1250 m, 19 v 1997, steppe, *C. Vural* 1138; Çaybağları, 1100-1200 m, 05 vi 2000, open area of oak thicket, *C. Vural* 2049; Şeyhşaban, 1400 m, 14 vi 2000, steppe, *C. Vural* 2297.
Th.

- **S. lydia* Boiss.
Near Hisarcık, 1400 m, 22 v 1997, steppe, *C. Vural* 1234.
E. Medit. Th.
- Agrostemma githago* L.
Above Şeyhşaban, 1450-1700 m, 38°30. 318' N, 035°18. 221' E, 14 vi 2000, steppe, *C. Vural* 2251.
Th.
- A. gracilis* Boiss.
Lifos D., 1950 m, 03 vii 1997, steppe, *C. Vural* 1421.
E. Medit. Th.
- ILLECEBRACEAE**
- Herniaria glabra* L.
East of Sakarcıftlığı, 2200 m, 22 vi 2000, steppe, *C. Vural* 2405.
Widespread. Th.
- H. argaea* Boiss.
Erciyes D., alpine zone, *Balansa* (type); above Tekir Y., 2750 m, 27 x 1996, steppe, *C. Vural* 1101.
Endemic to Erciyes D. Ir.-Tur. VU. Hcrp.
- H. hirsuta* L.
Hanyeriçiftliği, Karataş hills, 1100 m, 25 vi 2000, steppe, *C. Vural* 2510.
Widespread. Th.
- Paronychia kurdica* Boiss.
Above Şeyhşaban, 1350 m, 14 v 2000, steppe, *C. Vural* 2279.
Hcrp.
- Scleranthus uncinatus* Schur.
Soysallı, 1150 m, 08 vi 2002, steppe, *C. Vural* 3224.
Ir.-Tur. Th.
- POLYGONACEAE**
- Oxyria digyna* (L.) Hill
Above Şeytanderesi, 3000-3500 m, 18 viii 1997, streamside, *C. Vural* 1467.
Hcrp.
- Polygonum alpinum* All.
East of Sakarcıftlığı, 1700-2200 m, 38°36. 311' N, 035°24. 132' E, 22 vi 2000, streamside, *C. Vural* 2413.
Euro-Sib. Hcrp.
- **P. bistorta* L. subsp. *bistorta*
Above Hisarcık, 1932 m, 38°35. 900' N, 035°30. 808' E, 15 vi 2000, *C. Vural* 2186; Above Tekir Y., 2295 m, 19 viii 2000, streamside, *C. Vural* 2943. Euro-Sib.
Hcrp.
- P. amphibium* L.
Hanyeriçiftliği, Karataş hills, 1100 m, 38°40. 102' N, 035°16. 675' E, 25 vi 2000, waterwayside, *C. Vural* 2512.
Hcrp.
- P. cognatum* Meissn.
Above Hisarcık, tree plantation area, 1800-1895 m, 38°36. 706' N, 035°30. 415' E, 04 vii 2000, steppe, *C. Vural* 2602.
Hcrp.
- P. arenastrum* Bor.
North of Yılanlı D., 1180-1240 m, 23 vi 1997, steppe, *C. Vural* 1275; Çaybağları, 1100-1200 m, 25 viii 2000, roadside, *C. Vural* 3102.
Th.
- P. aviculare* L.
Beğendikbağları, 1200 m, 23 vi 1997, steppe, *C. Vural* 1275.
Th.
- P. polycnemoides* Jaub. & Spach
Above Beğendikbağları, 1300 m, 25 vi 2000, steppe, *C. Vural* 2446.
Ir.-Tur. Th.
- P. convolvulus* L.
Soysallı, 1400 m, 03 viii 2002, steppe, *C. Vural* 3502.
Hcrp.
- Rumex acetosella* L.
Hacılar to top of Erciyes D., 1600-2000 m, 20 viii 1997, steppe, *C. Vural* 1519; above Soysallı, 1400-1700 m, 12 vi 1998, under oak, *C. Vural* 1671; Beğendikbağları, 1500 m, 26 vi 2000, rocky steppe, *C. Vural* 2414.
Hcrp.
- R. scutatus* L.
South of Yılanlı D., 1180-1240 m, 23 vi 1997, steppe, *C. Vural* 1413.
Widespread. Ch.
- R. tuberosus* L. subsp. *tuberosus*
Above Soysallı, 1400-1700 m, 12 vi 1998, under oak, *C. Vural* 1694.
Widespread. Crp.
subsp. *horizontalis* (Koch) Rech.
Above Hisarcık, tree plantation area, 1800-1895 m, 38°36. 706' N, 035°30. 415' E, 04 vii 2000, under the oak, *C. Vural* 2589.
Crp.
- **R. patientia* L.
Hanyeriçiftliği, Karataş hills, 1100 m, 26 vi 2000, fieldside, *C. Vural* 2515.
Hcrp.
- R. angustifolius* Campd. subsp. *angustifolius*
Hisarcık to Kıranardı, 10 ix 2000, under oak, 1400 m,
Ir.-Tur. Hcrp.
- R. crispus* L.
Hanyeriçiftliği, Karataş hills, 1030-1200 m, 26 vi 2000, fieldside, *C. Vural* 2515.
Hcrp.
- **R. dentatus* L. subsp. *halacsyi* (Rech.) Rech.
Çaybağları, 1150 m, 30 v 2001, dry streambed, *C. Vural* 3039.
Th.
- CHENOPODIACEAE**
- Beta vulgaris* L.
Near Develi, 1200 m, 13 viii 2002, field, *C. Vural* 3522.
Cultivated (şeker pancarı). Ch.
- Chenopodium botrys* L.
Above Hisarcık, 2000 m, 13 x 1996, roadside, *C. Vural* 1104.
Th.
- C. foliosum* (Moench) Asch.
Çaybağları, 1300 m, 28 vi 2000, fieldside, *C. Vural* 2562.
Widespread. Th.
- **C. chenopodioides* (L.) Aellen
Near Kulpak, 1130 m, 18 v 2000, steppe, *C. Vural* 1864.
Th.

- *C. murale** L.
Soysallı, 1150 m, 13 viii 2002, roadside, *C. Vural* 3523.
Th.
- C. album** L. subsp. *iranicum* Aellen
Above Hisarcık, 1950 m, 14 vi 2000, steppe slope, *C. Vural* 2133.
Th.
- Atriplex hortensis** L.
Above Soysallı, 1400-1700 m, 18 viii 1997, steppe, *C. Vural* 1486.
Th.
- A. nitens** Schkuhr
Hacılar, 1300 m, 13 x 1996, steppe, *C. Vural* 1109.
Th.
- A. laevis** C.A.Meyer
Above Yeni Sanayi, 1100-1300 m, 25 vi 2000, roadside, *C. Vural* 2445.
Th.
- A. patula** L.
Road to Şeyhşaban, Çöl Gölü, 1318 m, 20 vi 2000, salty steppe, *C. Vural* 2904.
Th.
- Halimione portulacoides** (L.) Aellen
Yeni Sanayi, 1050 m, 04 viii 2000, steppe, *C. Vural* 2894.
Ch.
- H. verrucifera** (M.Bieb.) Aellen
Şeyhşaban junction, 1100 m, 20 vi 2000, salty steppe, *C. Vural* 2326.
Ch.
- Krascheninnikovia ceratoides** (L.) Güldenst.
Yeni Sanayi, 1054 m, 38°42. 355' N, 035°21. 243' E, 04 viii 2000, steppe, *C. Vural* 2895.
Ir.-Tur. Ch.
- Ceratocarpus arenarius** L.
Yeni Sanayi, 1054 m, 38°42. 355' N, 035°21. 243' E, 04 viii 2000, steppe, *C. Vural* 2895.
Th.
- Camphorosma monspeliaca** L. subsp. *monspeliaca*
Yeni Sanayi, 1054 m, 38°42. 355' N, 035°21. 243' E, 04 viii 2000, steppe, *C. Vural* 2900.
Ir.-Tur. Hcrp.
- Panderia pilosa** Fisch. & C.A.Mey.
Yeni Sanayi, 1054 m, 38°42. 355' N, 035°21. 243' E, 04 viii 2000, steppe, *C. Vural* 2906.
Th.
- Halocnemum strobilaceum** (Pall.) M.Bieb.
Near Yılanlı D., 1400-1700 m, 18 viii 1998, roadside, *C. Vural* 1477.
Hcrp.
- Arthrocnemum fruticosum** (L.) Moq.
Yeni Sanayi, 1054 m, 38°42. 355' N, 035°21. 243' E, 4 viii 2000, steppe, *C. Vural* 2909.
Hcrp.
- Salicornia prostrata** Pall.
Soysallı to Yeşilhisar, 1090 m, 08 vi 2002, salty steppe, *C. Vural* 3200.
Ch.
- Suaeda altissima** (L.) Pall.
Yeni Sanayi, 1054 m, 38°42. 355' N, 035°21. 243' E, 04 viii 2000, steppe, *C. Vural* 2898.
Th.
- S. carnosissima** Post
West of Yılanlı D., 1400-1700 m, 18 viii 1997, steppe, *C. Vural* 1481.
Th.
- Salsola ruthenica** Iljin
North of Yılanlı D., 1200. m, 23 vi 1997, steppe, *C. Vural* 1274.
Hcrp.
- *S. tragus** L.
Yeni Sanayi, 1054 m, 38°42. 355' N, 035°21. 243' E, 04 viii 2000, steppe, *C. Vural* 2908.
Ch.
- S. loricata** Pall.
Şeyhşaban, 1218 m, 14 v 2000, salty steppe, *C. Vural* 2272.
Ch.
- Noaea mucronata** (Forssk.) Asch. & Schweinf. subsp. *mucronata*.
South of Yılanlı D., 1300 m, 13 x 1996, roadside, *C. Vural* 1108.
Ch.
- Cyathobasis fruticulosa** (Bunge) Aellen
Şeyhşaban junction, 1092 m, 05 viii 2000, roadside, *C. Vural* 2918.
Endemic. VU. Hcrp.
- Petrosimonia brachiata** (Pall.) Bunge
Soysallı, 1200 m, 13 viii 2002, roadside, *C. Vural* 3524.
Th.
- Halanthium kulpianum** (Koch) Bunge
Yeni Sanayi, 1054 m, 38°42. 355' N, 035°21. 243' E, 04 viii 2000, steppe, *C. Vural* 2902.
Th.
- AMARANTHACEAE**
- Amaranthus retroflexus** L.
Above Hisarcık, in valley, 1940 m, 14 vi 2000, damp slope, *C. Vural* 2170.
Th.
- A. patulus** Bert.
Çaybağları, 1100 m, 01 ix 2001, fieldside, *C. Vural* 2999.
Th.
- A. albus** L.
Çaybağları, 1100 m, 01 ix 2001, fieldside, *C. Vural* 2995.
Th.
- TAMARICACEAE**
- Tamarix tetrandra** Pall. ex M.Bieb.
Develi to İncesu, 1250 m, 19 v 1997, salty steppe, *C. Vural* 1140.
Nph.
- T. smyrnensis** Bunge
Develi to İncesu, near Yaygölü, 1250 m, 19 v 1997, salty steppe, *C. Vural* 1260.
Nph.
- FRANKENIACEAE**
- Frankenia hirsuta** L.
Above Soysallı, 1400 m, 18 viii 1997, steppe, *C. Vural* 1484; Şeyhşaban, 1400 m, 14 vi 2000, steppe, *C. Vural* 2342.

Hcrp.

HYPERICACEAE

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

Near Kiranardı, 1300-1500 m, 02 vi 2000, steppe, *C. Vural* 2000.

Ir.-Tur. Hcrp.

var. *microcalycinum* (Boiss. & Heldr.) Boiss.

Above Hisarcık, 1932 m, 38°35. 900' N, 035°30. 808' E, 15 vi 2000, steppe, *C. Vural* 2223.

Ir.-Tur. Hcrp.

H. lydium Boiss.

West side of Lifos D., 1700-1950 m, 03 vii 1997, steppe, *C. Vural* 1414.

Hcrp.

H. pseudolaeve Robson

Hisarcık to Kiranardı, 1300 m, 02 vi 2000, steppe, *C. Vural* 2000, 2223.

Endemic. LC. Hcrp.

H. scabrum L.

South of Yılanlı D., 1180-1240 m, 23 vi 1997, steppe, *C. Vural* 1398; above Hisarcık, 1940 m, 14 vi 2000, open area of oak thicket, *C. Vural* 2221.

Ir.-Tur. Ch.

H. thymopsis Boiss.

Above Hisarcık, tree plantation area, 1800 m, 04 vii 2000, under *Pinus nigra*, *C. Vural* 2621.

Endemic. Ir.-Tur. NT. Hcrp.

H. venustum Fenzl

Above Tekir Y., 2295 m, 19 viii 2000, steppe, *C. Vural* 2956.

Widespread. Hcrp.

H. cuisini Barbey

Hisarcık to Hacılar, 1300-1450 m, 18 viii 1997, roadside, *C. Vural* 1497.

E. Medit. Hcrp.

H. montbretii Spach

Above Develi Beşparmak D., 1800-2200 m, 21 vii 2000, steppe, *C. Vural* 2781.

Hcrp.

H. adenotrichum Spach

Soysallı, 1100 m, 13 viii 2002, streamside, *C. Vural* 3520.

Endemic. LC. Hcrp.

H. origanifolium Willd.

South of Yılanlı D., 1180-1240 m, 23 vi 1997, steppe, *C. Vural* 1396.

Hcrp.

H. perforatum L.

Above Hisarcık, 1932 m, 38°35. 400' N, 035°30. 808' E, 14 vi 2000, rocky steppe, *C. Vural* 2141.

Widespread. Hcrp.

MALVACEAE

Hibiscus trionum L.

Çaybağları, 1100 m, 19 ix 2001, fieldside, *C. Vural* 3067.

Th.

Malva sylvestris L.

Near Şeyhşaban, 1300-1400 m, 20 vi 2000, fieldside, *C. Vural* 2309.

Hcrp.

M. neglecta Wallr.

West of the road from Tekir Y. to Develi, 2600 m, 27 x 1996, sheep fold, *C. Vural* 1092.

Th.

**Alcea remotiflora* (Boiss. & Heldr.) Alef.

East of Sakarçiftliği, 1700-2200 m, 38°36. 311' N, 035°24. 132' E, 22 vi 2000, roadside, *C. Vural* 2396.

Hcrp.

**A. apterocarpa* (Fenzl) Boiss.

Hanyeriçiftliği, Karataş hills, 1100 m, 25 vi 2000, steppe, *C. Vural* 2503.

Endemic. LC. Hcrp.

A. pallida Waldst. & Kit.

Hanyeriçiftliği, Karataş hills, 1100-1300 m, 25 vi 2000, roadside, *C. Vural* 2531.

Hcrp.

LINACEAE

Linum nodiflorum L.

Güzelce, Beşdam hills, 1050-1100 m, 25 vi 2000, steppe, *C. Vural* 2460.

E. Medit. Th.

L. hirsutum L. subsp. *pseudoanatolicum* P.H.Davis

Çaybağları, 1100-1200 m, 05 vi 2000, fieldside, *C. Vural* 2106.

Endemic. Ir.-Tur. LC. Hcrp.

L. tenuifolium L.

Çaybağları, 1100 m, 05 v 2001, fieldside, *C. Vural* 3103.

Hcrp.

L. austriacum L. subsp. *austriacum*

Above Kulpak, 1400-1450 m, 18 v 2000, steppe, *C. Vural* 1873.

Hcrp.

GERANIACEAE

Geranium purpureum Vill.

Road to Develi, 1700 m, 08 vi 2002, roadside, *C. Vural* 3177.

Th.

G. divaricatum Ehrh.

East of Hacılar, 1300 m, 06 v 2000, fieldside, *C. Vural* 1743.

Th.

G. tuberosum L. subsp. *tuberosum*

West of Ali D., 1300 m, 19 v 1997, fieldside, *C. Vural* 1157.

Widespread. Crp.

G. macrostylum Boiss.

Above Hisarcık, in valley, 1900 m, 01 vi 2002, open area of oak thicket, *C. Vural* 3136.

E. Medit. Crp.

G. cinereum Cav. subsp. *subcaulescens* (L'Hér. ex DC.) Hayek var. *subcaulescens*.

Between Öksüzdere and Derindere, 1800-2400 m, 21 vii 2000, dry streambed, *C. Vural* 2819.

Hcrp.

var. *subacutum* (Boiss.) P.H.Davis & Roberts

Erciyes D., *Balansa* 1036 (lectotype); above Şeytanderesi, 3000-3500 m, 18 viii 1997, dry streambed, *C. Vural* 1449.

Endemic. Ir.-Tur. LC. Hcrp.

Erodium hoefftianum C.A.Meyer
Soysallı, 1250 m, 19 v 1997, steppe, *C. Vural* 1137.

Th.

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

Karpuzseki, 1050-1100 17 v 2000, rocky steppe, *C. Vural* 1810.

Th.

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

West of Kepez, 1700 m, 25 iii 1998, fieldside, *C. Vural* 1565.

Medit. Hcrp.

ZYGOPHYLLACEAE

Zygophyllum fabago L.

Road to Şeyhşaban 1100 m, 05 vi 1997, steppe, *C. Vural* 1258.

Ir.-Tur. Hcrp.

Tribulus terrestris L.

Çaybağları, 1100 m, 01 ix 2000, fieldside, *C. Vural* 3004.

Th.

Peganum harmala L.

Above Şeyhşaban, 1320 m, 14 v 2000, fallow field, *C. Vural* 2273.

Hcrp.

RUTACEAE

Haplophyllum suaveolens (DC.) G.Don var. *cilicicum* (Boiss.) C.C.Townsend

South of Yılanlı D., 1200 m, 01 v 1996, foot of rock, *C. Vural* 1001.

Endemic. LC. Hcrp.

H. thesioides (Fisch. ex DC.) G.Don

Hisarcık to Hacılar, 1300 m, 18 viii 1997, roadside, *C. Vural* 2504.

Widespread. Hcrp.

SIMAROUBACEAE

Ailanthus altissima (Mill.) Swingle

Çaybağları, 1300 m, 28 vi 2000, dry streambed, *C. Vural* 2555.

Mcp.

ACERACEAE

Acer platanoides L.

Çaybağları, 1200 m, 20 viii 2002, fieldside, *C. Vural* 3526.

Cultivated (çınar yapraklı akçağaç). Mcph.

A. negundo L.

Çaybağları, 1100-1300 m, 17 v 2000, roadside, *C. Vural* 1847.

Cultivated (dişbudak yapraklı akçağaç). Mcph.

VITACEAE

Vitis sylvestris C.C.Gmel.

Çaybağları, 1100-1200 m, 20 viii 2002, fieldside, *C. Vural* 3527.

Nph.

V. vinifera L.

Çaybağları, 1100-1200 m, 20 viii 2002, fieldside, *C. Vural* 3525.

Cultivated (üzüm). Nph.

RHAMNACEAE

**Rhamnus libanotica* Boiss.

South of Yılanlı D., 1180-1240 m, 24 vi 1997, steppe, *C. Vural* 1355.

E. Medit. (mt) Mcph.

R. petiolaris Boiss.

East of Hacılar, 1300 m, 38°40. 072' N, 035°27. 692' E, 06 v 2000, fieldside, *C. Vural* 1753.

Endemic. LC. Mcph.

R. pichleri C.L.Schneid. & Bornm. ex Bornm.

Çaybağları, 1100-1200 m, 20 viii 2002, dry streambed, *C. Vural* 3528.

Endemic. E. Medit. NT. Mcph.

ANACARDIACEAE

Rhus coriaria L.

Çaybağları, 1100-1200 m, 20 viii 2002, fieldside, *C. Vural* 3529.

Mcp.

Pistacia atlantica Desf.

Çaybağları, 1100-1200 m, 20 viii 2002, fieldside, *C. Vural* 3530.

Mcp.

CELASTRACEAE

**Euonymus verrucosus* Scop.

East of Sakarçiftliği, 1700-2200 m, 38°36. 311' N, 035°24. 132' E, 23 vi 2000, fieldside, *C. Vural* 2439.

Mcp.

FABACEAE (LEGUMINOSAE)

Sophora alopecuriodes L. var. *tomentosa* (Boiss.) Chamb.

Between Hisarcık and Hacılar, 1300 m, 16 vi 2002, fieldside, *C. Vural* 3276.

Crp.

Genista sessilifolia DC.

Between Hisarcık and Hacılar, 1300 m, 11 vii 2002, fieldside, *C. Vural* 3277.

Ir.-Tur. Nph.

Robinia pseudoacacia L.

Hisarcık, 1400 m, 22 v 1997, *C. Vural* 1205.

Cultivated (beyaz salkı). Mcph.

Colutea cilicica Boiss. & *Balansa*

Road to Hisarcık, 1250 m, 13 x 1996, roadside, *C. Vural* 1110.

Widespread. Nph.

Sphaerophysa kotschyana Boiss.

Şeyhşaban, 1100 m, 18 viii 1997, salty steppe, *C. Vural* 1480.

Endemic. Ir.-Tur. LC. Ch.

Astragalus campylorrhynchus Fisch. & C.A.Mey.

Between Öksüzdere and Derindere, 2400 m, 22 vi 2000, steppe, *C. Vural* 2080.

Ir.-Tur. Th.

A. commixtus Bunge

Between Hisarcık and Hacılar, 1300 m, 11 vii 2002, fieldside, *C. Vural* 3281.

Ir.-Tur. Th.

A. hamosus L.

Above Soysallı, 1400-1700 m, 12 vi 1998, steppe, *C. Vural* 1631.

Th.

A. suberosus Banks & Sol. subsp. *ancyleus* (Boiss.) Matthews

Çaybağları, 1100 m, 04 viii 2002, fieldside, *C. Vural* 3512.

Ir.-Tur. Hcrp.

A. lanatus Labill.

Above Hacılar, east of Perilikartin, 2200-2700, 16 vi 2002, steppe, *C. Vural* 3298.

Ir.-Tur. Ch.

- A. melanophrurius** Boiss.
South of Yılanlı D., 1180-1240 m, 23 vi 1997, steppe, *C. Vural* 1367.
Endemic. Ir.-Tur. NT. Hcrp.
- A. pinetorum** Boiss.
Perilikartın, west of Lifos D., 2095 m, 38°35. 490' N, 035°27. 698' E, 25 vii 2000, steppe, *C. Vural* 2831.
Endemic. Ir.-Tur. LC. Ch.
- A. gummifer** Labill.
Perilikartın, 2200, 25 vii 2000, steppe, *C. Vural* 2834.
Ir.-Tur. Ch.
- *A. celakovskyanus** Freyn & Bornm.
Above Develi, near Erciyes Hatıra Ormanı, 1695-1800 m, 38°27. 540' N, 035°29. 639' E, 20 vii 2000, steppe, *C. Vural* 2756.
Endemic. Ir.-Tur. Ch.
- *A. eriocephalus** Wild. subsp. *eriocephalus*
West of road from Tekir Y. to Develi, 2520 m, 27 x 1996, steppe, *C. Vural* 1100; between Öksüzdere and Derindere, 2400 m, 22 vii 2000, steppe, *C. Vural* 2813.
Ir.-Tur. Ch.
- A. acmophyllus** Bunge
Erciyes D., *Balansa* 194 (syntype); Sarıgöl, 2350 m, 20 vi 2001, steppe, *C. Vural* 3051.
Endemic. Ir.-Tur. Ch.
- A. pycnocephalus** Fisch. var. *pycnocephalus*
Above Develi, 1695-1800 m, 20 vii 2000, steppe, *C. Vural* 2741.
Ir.-Tur. Ch.
- A. acicularis** Bunge
Erciyes D., 15 vii 1856, *Balansa* 198 (syntype); Çomaklı Kotschy 195;
Tekir Y., 2150, 18 vii 2002, steppe, *C. Vural* 3446.
Endemic. Ir.-Tur. LC. Ch.
- A. oleifolius** DC.
Near Çomaklı, 1200 m, 03 viii 2002, waste place, *C. Vural* 3508.
Ir.-Tur. Ch.
- A. longifolius** Lam.
Near Çomaklı, 1200 m, 03 viii 2002, waste place, *C. Vural* 3509.
Ir.-Tur. Ch.
- A. lagurus** Willd.
South of Yılanlı D., 1180-1240 m, 23 vi 1997, steppe, *C. Vural* 1336.
Ir.-Tur. Ch.
- *A. vaginans** DC.
Beğendikbağları, 1600 m, 15 vii 1997, steppe, *C. Vural* 1030.
Endemic. Ir.-Tur. LC. Ch.
- A. venulosus** Boiss.
Beğendikbağları, 2300 m, 15 vii 1996, stony steppe, *C. Vural* 1150.
Hcrp.
- A. argaeus** Boiss.
Erciyes D., 20 vii 1856, *Balansa* 203 (type); Erciyes D., Siehe 1898:236.
Endemic to Erciyes D. Ir.-Tur. EN. Hcrp. (not collected)
- A. elatus** Boiss. & *Balansa*
Hisarcık to Hacılar, 1300-1450 m, 18 viii 1997, roadside, *C. Vural* 1506a.
Endemic. Ir.-Tur. LC. Hcrp.
- A. macrocephalus** Willd. subsp. *finitimus* (Bunge) Chamb.
Hisarcık to Hacılar, 1300-1450 m, 18 viii 1997, roadside, *C. Vural* 1506b.
Ir.-Tur. Hcrp.
- *A. echinops** Aucher ex Boiss.
Beğendikbağları, 1300 m, 15 vii 1996, steppe, *C. Vural* 1051.
Hcrp.
- A. lineatus** Lam. var. *lineatus*
Above Şeytanderesi, 3000-3500 m, 18 viii 1997, steppe, *C. Vural* 1454.
Ir.-Tur. Hcrp.
- A. odoratus** Lam.
Soysallı to Yeşilhisar, 1100 m, 08 vi 2002, roadside, *C. Vural* 3188.
Hcrp.
- A. ornithopodioides** Lam.
Road to Şeyhşaban, 1100-1200 m, 20 vi 2001, steppe, *C. Vural* 3044.
Ir.-Tur. Hcrp.
- A. lydus** Boiss.
Near Şeyhşaban, 1100 m, 38°27. 319' N, 035°12. 555' E, 20 vi 2000, steppe, *C. Vural* 2336.
Endemic. Ir.-Tur. LC. Hcrp.
- A. mesogitanus** Boiss.
Near Şeyhşaban, 1400 m, 14 vi 2000, steppe, *C. Vural* 2286.
Endemic. LC. Hcrp.
- A. karamasicus** Boiss. & *Balansa*
Near Kulpak, 1134 m, 38°25. 580' N, 035°17. 973' E, 18 v 2000, steppe, *C. Vural* 1859.
Endemic. Ir.-Tur. LC. Ch.
- A. lycius** Boiss.
South of Yılanlı D., 1180-1240 m, 23 vi 1997, steppe, *C. Vural* 1380; above Soysallı, 1400-1700 m, 12 vi 1998, steppe, *C. Vural* 1690.
Endemic. LC. Hcrp.
- A. onobrychis** L.
South of Yılanlı D., 1180-1240 m, 23 vi 1997, steppe, *C. Vural* 1371.
Hcrp.
- *A. alyssoides** Lam.
Above Tekir Y., 2500 m, 16 vii 2002, steppe, *C. Vural* 3384.
Ir.-Tur. Hcrp.
- A. cylindraceus** DC.
West of Ali D., 1300 m, 19 v 1997, steppe, *C. Vural* 1163; above Hisarcık, 1200-1400 m, 22 v 1998, steppe, *C. Vural* 1610.
Ir.-Tur. Hcrp.
- A. stenosemius** Boiss. & Noë
Above Beğendikbağları, 2400 m, 15 vii 1996, steppe, *C. Vural* 1049.
Endemic. Ir.-Tur. LC. Hcrp.
- A. stenosemioides** Bornm. ex Chamb. & Matthews
Erciyes D., 2700-3000 m, 18 vi 1890, *Bornmüller* 1637 (type); above Beğendikbağları, 2400 m, 15 vii 1996, steppe, *C. Vural* 1048.
Endemic to Erciyes D. Ir.-Tur. EN. Hcrp.

A. campylosema Boiss. subsp. *campylosema*

Above Soysalli, 1400-1700 m, 12 vi 1998, steppe, *C. Vural* 1684.

Endemic. Ir.-Tur. LC. Ch.

A. nitens Boiss. & Heldr.

Beğendikbağları, 23 vi 1997, steppe, *C. Vural* 1279.

Ir.-Tur. Ch.

A. aucheri Boiss.

Beğendikbağları, 1400 m, 15 vii 1996, steppe, *C. Vural* 1058.

Ir.-Tur. Ch.

A. ovalis Boiss. & *Balansa*

Soysalli, 1100 m, 13 viii 2002, streamside, *C. Vural* 3514.

Endemic. VU. Ch.

A. angustifolius Lam. subsp. *longidens* Hub. -Mor. & Matthews

West of Ali D., 1300 m, 19 v 1997, steppe, *C. Vural* 1147.

Ch.

subsp. *pungens* (Willd.) Hayek

Above Hisarcık, valley east of the station, 1940 m, 38°35. 926' N, 035°30. 783' E, 25 v 2000, steppe, *C. Vural* 1916.

Ch.

Oxytropis persica Boiss.

Above Tekir Y., 2500 m, 16 vii 2002, steppe, *C. Vural* 3386.

Ir.-Tur. Ch.

O. albana Steven

Above Hacılar, 3000 m, 11 vii 2002, steppe, *C. Vural* 3332.

Euro-Sib. Ch.

Phaseolus vulgaris L.

Above Develi, 1250 m, 20 viii 2002, field, *C. Vural* 3531.

Cultivated (fasulye). Th.

Cicer anatolicum Alef.

Lifos D., 1900 m, 10 vii 1996, steppe, *C. Vural* 1002; Hacılar to top of Erciyes, 1600-2000 m, 20 viii 1998, steppe, *C. Vural* 1512.

Ir.-Tur. Hcrp.

***Vicia crocea** (Desf.) B.Fedtsch.

East of Sakarçiftliği, 1700-2200 m, 38°36. 311' N, 035°24. 132' E, 22 vi 2000, steppe, *C. Vural* 2417.

Euro-Sib. Hcrp.

Due to similar climatic conditions between upper part of Erciyes and Euro-Sib. phytogeographic region, this species was also collected from Erciyes D.

V. cracca L. subsp. *stenophylla* Velen.

South of Yılanlı D., 1180-1240 m, 23 vi 1997, steppe, *C. Vural* 1312.

Hcrp.

V. canescens Labill. subsp. *argaea* P.H.Davis

Erciyes D., 3000 m. *Bornmüller* 1890. 2263 (type).

Endemic to Erciyes D. Ir.-Tur. EN. Hcrp. (not collected)

***V. villosa** Roth subsp. *villosa*

Çaybağları, 1100-1200 m, 20 v 1997, open area of oak thicket, *C. Vural* 1186.

Th.

***subsp. dasycarpa** (Ten.) Cav.

Hisarcık, 1300 m, 13 x 1996, fieldside, *C. Vural* 1107.

Th.

V. cappadocica Boiss. & *Balansa*

Above Kulpak, 1400-1450 m, 38°25. 638' N, 035°19. 743' E, 18 v 2000, steppe, *C. Vural* 1869.

Th.

V. caesarea Boiss. & *Balansa*

South of Ali D., 1400 m, 20 v 1997, fieldside, *C. Vural* 1173.

Endemic. Ir.-Tur. LC. Th.

V. ervilia (L.) Willd.

Above Hisarcık, 1932 m, 38°35. 900' N, 035°30. 808' E, 15 vi 2000, steppe, *C. Vural* 2189.

Th.

V. truncatula Fisch. ex M.Bieb.

Above Kulpak, 1400-1450 m, 38°25. 638' N, 035°19. 743' E, 18 v 2000, steppe, *C. Vural* 1868b.

Hcrp.

***V. noeana** Reut. ex Boiss. var. *noeana*

Above Kulpak, 1400-1450 m, 38°25. 638' N, 035°19. 743' E, 18 v 2000, steppe, *C. Vural* 1868a.

Th.

V. peregrina L.

Çaybağları, open area of oak thicket, 1100-1200 m, 05 vi 2000, *C. Vural* 2080.

Th.

V. grandiflora Scop. var. *grandiflora*

Çaybağları, 1100-1200 m, 05 vi 2000, steppe, *C. Vural* 2120.

Th.

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

Çaybağları, 1100-1200 m, 05 vi 2000, under *Quercus pubescens*, *C. Vural* 2081.

Th.

***V. galilaea** Plitm. & Zohary

Çaybağları, 1100-1200 m, 05 vi 2000, fieldside, *C. Vural* 2076.

Th.

Lens orientalis (Boiss.) Hand.-Mazz.

Above Soysalli, 1400-1700 m, 12 vi 1998, steppe, *C. Vural* 1634.

Th.

Lathyrus brachypterus Čelak var. *brachypterus*

Above Hisarcık, 1932 m, 38°35. 900' N, 035°30. 808' E, 15 vi 2000, under oak, *C. Vural* 2222; Çaybağları, 1300 m, 28 vi 2000, steppe, *C. Vural* 2545.

Endemic. Ir.-Tur. LC. Hcrp.

L. spathulatus Čelak

Erciyes D., 1520 m, 20. v. 1859, Kotschy 207. (type); above Hisarcık, 1930 m, 15 vi 2000, damp meadow, *C. Vural* 2194.

E. Medit. Hcrp.

L. czeczottianus Bassler

Erciyes D., near Çomaklı, Kotschy 226 (syntype); east of Sakarçiftliği, 1700-2200 m, 38°36. 311' N, 035°24. 132' E, 22 vi 2000, under *Populus tremula*, *C. Vural* 2366.

Endemic. LC. Hcrp.

- **L. setifolius* L.
Hisarcık, 1400 m, 22 v 1997, under *Quercus pubescens*, *C. Vural* 1206.
E. Medit. Th.
Pisum sativum L. subsp. *elatius* (M.Bieb) Archers. & Grabn. var. *elatius*
Hisarcık, 1400 m, 22 v 1997, fieldside, *C. Vural* 1239.
Th.
*var. *pumilio* Meikle
Above Soysallı, 1400-1700 m, 12 vi 1998, fieldside, *C. Vural* 1631.
Th.
Ononis spinosa L. subsp. *leiosperma* (Boiss.) Širj.
Above Hisarcık, 1100-1200 m, 23 viii 2000, streamside, *C. Vural* 2982.
Widespread. Hcrp.
Trifolium repens L. var. *macrorrhizum* (Boiss.) Boiss.
Tekir Y., 2150 m, 18 vii 2002, wet meadow, *C. Vural* 3419.
Euro-Sib. Ch.
T. hybridum L. subsp. *anatolicum* (Boiss.) Boiss.
Tekir Y., 2150 m, 18 vii 2002, wet meadow, *C. Vural* 3414.
Euro-Sib. Hcrp.
T. speciosum Willd.
Above Soysallı, 1400-1700 m, 12 vi 1998, fieldside, *C. Vural* 1697.
Th.
T. campestre Schreb.
Above Soysallı, 1400-1700 m, 12 vi 1998, fieldside, *C. Vural* 1680; east of Sakarcıftlığı, 1700-2200 m, 38°36. 311' N, 035°24. 132' E, 22 vi 2000, roadside, *C. Vural* 2380.
Widespread. Th.
T. physodes Steven ex M.Bieb. var. *physodes*
Çaybağları, 1100-1200 m, 05 vi 2000, fieldside, *C. Vural* 2123.
E. Medit. Hcrp.
T. diffusum Ehrh.
Beğendikbağları, 1180-1240 m, 23 vi 1997, roadside, *C. Vural* 1372.
Th.
T. pannonicum Jacq. subsp. *elongatum* (Willd.) Zohary
Above Beğendikbağları, 1180-1240 m, 24 vi 1997, steppe slope, *C. Vural* 1351
Endemic. LC. Hcrp.
T. lucanicum Gasp.
Above Soysallı, 1400-1700 m, 12 vi 1998, steppe, *C. Vural* 1670.
E. Medit. Th.
T. arvense L. var. *arvense*
Above Soysallı, 1400-1700 m, 12 vi 1998, steppe, *C. Vural* 1673b.
Widespread. Th.
Meilolus officinalis (L.) Desr.
Above Şeyhşaban, 1450-1700 m, 14 v 2000, roadside, *C. Vural* 2264.
Widespread. Hcrp.
M. alba Desr.
Between Öksüzdere and Derindere, 1800-2400 m, 22 vii 2000, steppe, *C. Vural* 2784.
Widespread. Hcrp.
**Trigonella balansae* Boiss. & Reut.
Çaybağları, 1100 m, 30 v 2001, fieldside, *C. Vural* 3040.
E. Medit. Th.
This species is distributed around agricultural areas in N, W and S coastal regions of Turkey. It might be transferred to Erciyes D. due to agricultural activities.
T. spruneriana Boiss. var. *spruneriana*
Near Şeyhşaban, 1400 m, 14 vi 2000, steppe, *C. Vural* 2293.
Ir.-Tur. Th.
T. aurantiaca Boiss.
Çaybağları, 1100 m, 31 v 2001, fieldside, *C. Vural* 3041.
Ir.-Tur. Th.
T. fischeriana Ser.
Çaybağları, 1100 m, 31 v 2001, fieldside, *C. Vural* 3040.
Ir.-Tur. Th.
T. monantha C.A.Mey. subsp. *monantha*
Above Soysallı, 1400-1700 m, 12 vi 1998, open area of oak thicket, *C. Vural* 1629.
Ir.-Tur. Th.
T. isthmocarpa Boiss. & *Balansa*
Develi to Soysallı, 1150 m, 08 vi 2002, roadside, *C. Vural* 3239.
Endemic. Ir.-Tur. VU. Th.
T. procumbens (Besser) Rchb.
Çaybağları, 1100 m, 31 v 2001, fieldside, *C. Vural* 3043.
Ch.
T. coeruleascens (M.Bieb.) Halfin
Soysallı, 1250 m, 19 v 1997, open area of oak thicket, *C. Vural* 1135; Çaybağları, 1100 m, 30 v 2001, under oak, *C. Vural* 3042.
Ir.-Tur. Th.
Medicago radiata L.
Above Soysallı, 1400-1700 m, 12 vi 1998, waste place, *C. Vural* 1701.
Ir.-Tur. Th.
M. lupulina L.
Above Soysallı, 1400-1700 m, 12 vi 1998, waste place, *C. Vural* 1714; near Akçakaya, 1375 m, 38°34. 226' N, 035°34. 238' E, 30 v 2000, roadside, *C. Vural* 1980.
Widespread. Hcrp.
M. sativa L. subsp. *sativa*
Hisarcık to Hacllar, 1200 m, 13 ix 1996, fieldside, *C. Vural* 1112a.
Widespread. Hcrp.
M. x varia Martyn
West of Lifos D., 1700-1950 m, 03 vii 1997, roadside, *C. Vural* 1426.
Hcrp.
M. falcata L.
Hisarcık to Hacllar, 1200 m, 13 ix 1996, fieldside, *C. Vural* 1112b.
Hcrp.
M. minima (L.) Bartham var. *minima*
Hisarcık, 1400 m, 22 v 1997, fieldside, *C. Vural* 1223.

Widespread. Th.

***M. truncatula** Gaertn. var. **longeacauleata** Urb.
Above Soysallı, 1400-1700 m, 12 vi 1998, steppe, *C. Vural* 1643b.

Medit. Th.

***M. rigidula** (L.) All. var. **agrestis** Burniat
Above Soysallı, 1400-1700 m, 12 vi 1998, steppe, *C. Vural* 1643a.

Th.

Lotus corniculatus L. var. **corniculatus**
Beğendikbağları, 1400-1700, fieldside, 18 viii 1997, *C. Vural* 1482.

Widespread. Hcrp.

var. **tenuifolius** L.
Soysallı, 1100, 05 vi 1997, roadside, *C. Vural* 1263.

Widespread. Hcrp.

var. **alpinus** Ser.
NE of Tekir Y., 2250 m, 27 x 1996, damp meadow, *C. Vural* 1077.

Widespread. Hcrp.

L. aegaeus (Gris.) Boiss.
Above Şeyhşaban, 1450-1700 m, 16 vi 2000, open area of oak thicket, *C. Vural* 2232.

Ir.-Tur. Hcrp.

Anthyllis vulneraria L. subsp. **boissieri** (Sag.) Bornm.
Çaybağları, 1100-1300 m, 28 vi 2000, under oak, *C. Vural* 2542.

Widespread. Hcrp.

Coronilla orientalis Mill. var. **orientalis**
Çaybağları, 1100-1200 m, 05 vi 2000, roadside, *C. Vural* 2111.

Ir.-Tur. Ch.

C. varia L. subsp. **varia**
South of Yılanlı D., 1180-1240 m, 23 vi 1997, *C. Vural* 1370; west of Lifos D., 1700-1950 m, 03 vii 1997, steppe, *C. Vural* 1422.

Widespread. Hcrp.

Onobrychis cornuta (L.) Desv.
Kıranardı, 1500 m, 25 viii 2002, steppe, *C. Vural* 3554.

Ir.-Tur. Ch.

O. argaea Boiss. & Balansa
Erciyes D., 2500 m, vii 1856, *Balansa* 151 (type); above Tekir Y., 2500-3000 m, 08 viii 2001, steppe, *C. Vural* 3071.

Endemic to Erciyes D. Ir.-Tur. VU. Ch.

O. fallax Freyn & Sint.
Hisarcık to Hacılar, 1530-1600 m, 38°38. 055' N, 035°29. 106' E, 12 vii 2000, under oak, *C. Vural* 2711.

Endemic. Ir.-Tur. LC. Hcrp.

O. viciifolia Scop.
Akçakaya, 1400 m, 30 v 2000, roadside, *C. Vural* 1960.

Hcrp.

O. elata Boiss. & Balansa
Between Öksüzdere and Derindere, 1800-2400 m, 22 vii 2000, steppe, *C. Vural* 2786.

Endemic. VU. Hcrp.

O. sulphurea Boiss. & Balansa var. **sulphurea**
Above Hisarcık, 1800 m, 04 vii 2000, steppe, *C. Vural* 2619.

Endemic. VU. Ir.-Tur. Ch.

O. oxydonta Boiss.
Near Şeyhşaban, 1400 m, 14 vi 2000, steppe, *C. Vural* 2292.

Widespread. Hcrp.

***O. huetiana** Boiss.
Hisarcık to Hacılar, 1500 m, steppe, *C. Vural* 2711.

Endemic. Ir.-Tur. NT. Hcrp.

O. tournefortii (Willd.) Desv.
Above Soysallı, 1400-1700 m, 12 vi 1998, fieldside, *C. Vural* 1644; Akçakaya, 1375 m, 38°34. 226' N, 035°34. 238' E, 30 v 2000, *C. Vural* 1959.

Endemic. Ir.-Tur. LC. Hcrp.

Ebenus laguroides Boiss. var. **laguroides**.
Beğendikbağları, 1200 m, 01 v 1996, stony steppe, *C. Vural* 1021.

Endemic. LC. Ch.

Alhagi pseudalhagi (M. Bieb.) Desv.
Hanyeriçiftliği, Karataş hills, 26 vi 2000, steppe, *C. Vural* 2516.

Ir.-Tur. Ch.

ROSACEAE

Prunus x domestica L.
Çaybağları, 1100 m, 20 viii 2002, field, *C. Vural* 3532.

Cultivated (erik). Mcph.

***P. divaricata** Ledeb. subsp. **divaricata**
Hisarcık, valley below station, 1600 m, 23 viii 2000, streamside, *C. Vural* 2976.

Widespread. Mcph.

Cerasus prostrata (Labill.) Ser. var. **prostrata**
Hacilar, 1400 m, 06 v 2000, fieldside, *C. Vural* 1763.

E. Medit. Mcph.

C. incana (Pall.) Spach var. **velutina** Browicz
Çaybağları, 1200 m, 05 vi 2000, open area of oak thicket, *C. Vural* 2103.

Endemic. EN. Mcph.

C. avium (L.) Moench
Above Kıranardı, 1545 m, 38°37. 253' N, 035°32. 082' E, 02 vi 2000, field, *C. Vural* 2005.

Cultivated (kiraz). Mcph.

C. vulgaris Mill.
Hisarcık, 1300 m, 13 v 2002, on field hedge, *C. Vural* 3521.

Cultivated (vişne). Mcph.

C. mahaleb (L.) Mill.
Çaybağları, 1300 m, 12 iv 2002, fieldside, *C. Vural* 3125.

Cultivated (mahlep). Mcph.

Amygdalus communis L.
Çaybağları, 1100-1200 m, 05 vi 2000, field, *C. Vural* 2053.

Cultivated (badem). Mcph.

A. orientalis Mill.
Çaybağları, 1100, 20 viii 2002, steppe, *C. Vural* 3533.

Ir.-Tur. Mcph.

Rubus caesius L.
Above Hisarcık, in valley, 1600 m, 23 viii 2000, streamside, *C. Vural* 2985.

Widespread. Nph.

- R. sanctus** Schreber
Çaybağları, 1300 m, 28 vi 2000, dry streambed, *C. Vural* 2554.
Widespread. Nph.
- Potentilla argantea** L.
Above Hisarcık, tree plantation area, 1650-1758 m, 38°36. 819' N, 035°30. 584' E, 06 vii 2000, foot of rock, *C. Vural* 2658.
Hcrp.
- P. meyeri** Boiss.
Haclar to top of Erciyes, 1600-2000 m, 20 viii 1998, foot of rock, *C. Vural* 1511; between Öksüzdere and Derindere, 2400 m, 22 vii 2000, dry streambed, *C. Vural* 2810.
Ir.-Tur. Hcrp.
- P. recta** L.
Above Soysallı, 1400-1700 m, 12 vi 1998, steppe, *C. Vural* 1633. (*Group A); Hisarcık to Haclar, 1300-1450 m, 18 viii 1997, roadside, *C. Vural* 1058. (Group B); above Hisarcık, tree plantation area, 1800-1895 m, 38°36. 706' N, 035°30. 415' E, 04 vii 2000, rocky place, *C. Vural* 2631. (Group D).
Hcrp.
- P. argaea** Boiss. & Balansa
Erciyes D., 3200 m, *Balansa* 959 (type); above Şeytanderesi, 3000-3500 m, 18 viii 1997, streamside, *C. Vural* 1452.
Ir.-Tur. Hcrp.
- *P cappadocica** Boiss.
West of Lifos D., Perilikartın, 2270 m, 38°35. 241' N, 035°27. 452' E, 25 vii 2000, stony place, *C. Vural* 2851.
Endemic. Euro-Sib. (mt). NT. Hcrp.
- P. reptans** L.
Soysallı, 1100 m, 10 v 2002, streamside, *C. Vural* 3220.
Hcrp.
- Geum urbanum** L.
Above Kıranardı, 1545 m, 38°37. 253' N, 035°32. 082' E, 02 vi 2000, roadside, *C. Vural* 2017; Çaybağları, 1300 m, 28 vi 2000, under *Quercus pubescens*, *C. Vural* 2571.
Euro-Sib. Crp.
- Agrimonia eupatoria** L.
Hisarcık to Haclar, 1635 m, 38°37. 708' N, 035°29. 104' E, 12 vii 2000, under *Quercus pubescens*, *C. Vural* 2677.
Widespread. Crp.
- Sanguisorba minor** Scop. subsp. **minor**
Hisarcık, 1400 m, 22 v 1997, streamside, *C. Vural* 1245.
Hcrp.
subsp. **muricata** (Spach) Briq.
South of Yılanlı D., 1180-1240 m, 23 vi 1997, *C. Vural* 1407; Above Soysallı, 1400-1700 m, 12 vi 1998, fieldside, *C. Vural* 1687.
Widespread. Hcrp.
- *Alchemilla mollis** (Buser) Rothm.
Above Kıranardı, 1650 m, 38°36. 605' N, 035°32. 181' E, 02 vi 2000, streamside, *C. Vural* 2017.
Crp.
- *A. retinervis** Buser
Perilikartın, west of Lifos D., 2150 m, 38°35. 360' N, 035°27. 559' E, 25 vii 2000, on rock, *C. Vural* 2843.
Euro-Sib. Crp.
- *Rosa phoenicea** Boiss.
Near Hisarcık, 1200 m, 01 v 2001, open area of *Quercus pubescens*, *C. Vural* 3035.
E. Medit. Nph.
- R. foetida** J. Herrm.
Above Şeyhşaban, 1450-1700 m, 16 vi 2000, sheep fold, *C. Vural* 2236.
Nph.
- R. hemisphaerica** J. Herrm.
Above Hisarcık, near station, 1100-1200 m, 23 viii 2000, streamside, *C. Vural* 2980.
Ir.-Tur. Nph.
- *R. pimpinellifolia** L.
East of Sakarcıftlığı, 1700-2200 m, 38°36. 311' N, 035°24. 132' E, 22 vi 2000, steppe slope, *C. Vural* 2427.
Euro-Sib. Nph.
- Although it is common in NE Turkey, it is also collected from Erciyes D.
***R. elymaitica** Boiss. & Hausskn. ex Boiss.
East of Sakarcıftlığı, 1700-2200 m, 38°36. 311' N, 035°24. 132' E, 22 vi 2000, roadside, *C. Vural* 2428; west of Lifos D., Perilikartın, 2270 m, 38°35. 241' N, 035°27. 452' E, 25 vii 2000, rocky place, *C. Vural* 2847.
Ir.-Tur. Nph.
- *R. gallica** L.
Above Hisarcık, tree plantation area, 1800-1895 m, 38°36. 706' N, 035°30. 415' E, 04 vii 2000, *C. Vural* 2591.
Nph.
- R. pulverulenta** M.Bieb.
West of Lifos D., Perilikartın, 2270 m, 38°35. 241' N, 035°27. 452' E, 25 vii 2000, steppe, *C. Vural* 2875.
Widespread. Nph.
- *R. horrida** Bess. ex Fisch.
Öksüzdere, 2400 m, 22 vii 2000, steppe, *C. Vural* 2824.
Nph.
- R. heckeliana** Tratt. subsp. **orientalis** (Dupont) Meikle
West of Lifos D., Perilikartın, 2270 m, 38°35. 241' N, 035°27. 452' E, 25 vii 2000, steppe, *C. Vural* 2878.
Ir.-Tur. Nph.
- R. canina** L.
Beğendikbağları, 1200 m, 24 vi 1997, steppe, *C. Vural* 1355.
Nph.
- R. dumalis** Bechst. subsp. **boissieri** (Crépin) Ö.Nilsson var. **boissieri**
Above Hisarcık, tree plantation area, 1800 m, 04 vii 2000, open area of *Quercus pubescens*, *C. Vural* 2610.
Nph.
- Cotoneaster integerrimus** Medik.
West of road to Develi, 2800 m, 27 x 1996, steppe, *C. Vural* 1098.
Ir.-Tur. Nph.
- C. nummularia** Fisch. & C.A.Mey.
East of Sakarcıftlığı, 1700-2200 m, 38°36. 311' N, 035°24. 132' E, 22 vi 2000, steppe, *C. Vural* 2371.
Widespread. Nph.
- Crataegus orientalis** Pall. ex M.Bieb. var. **orientalis**
West of Kepez, 1950 m, 15 x 1996, steppe, *C. Vural* 1071.
Widespread. Mcph.

- C. aronia** (L.) Bosc. var. *aronia*
Above Hisarcık, tree plantation area, 1650-1758 m, 38°36. 819' N, 035°30. 584' E, 06 vii 2000, steppe, *C. Vural* 2650.
McpH.
- C. meyeri** Pojark.
Soysallı, 1200 m, 19 iv 1996, roadside, *C. Vural* 1131.
Ir.-Tur. Mcph.
- C. monogyna** Jacq. subsp. *monogyna*
Near Karpuzseki, 1050-1100 m, 17 v 2000, steppe, *C. Vural* 1811; above Hisarcık, tree plantation area, 1890 m, 26 v 2000, steppe, *C. Vural* 1926.
Widespread. Mcph.
- Sorbus aucuparia** L.
West of Lifos D., Perilikartın, 2270 m, 25 vii 2000, rocky place, *C. Vural* 2880.
Euro-Sib. Mcph.
- S. umbellata** (Desf.) Fritsch var. *cretica* (Lindl.) C.K.Schneid.
Above Hisarcık, in valley, 1940 m, 14 vi 2000, slope, *C. Vural* 2161.
Widespread. Mcph.
- Cydonia oblonga** Mill.
Beğendikbağları, 1200 m, 15 vii 1996, field, *C. Vural* 1053.
Cultivated (ayva). Mcph.
- Malus sylvestris** Mill. subsp. *mitis* (Wallr.) Mansf.
Çaybağları, 1100 m, 20 viii 2002, field, *C. Vural* 3532.
Cultivated (elma). Mcph.
- Pyrus elaeagnifolia** Pall. var. *elaeagnifolia*
Near Kiranardı, 1300-1500 m, 02 vi 2000, steppe, *C. Vural* 1995.
McpH.
- Amelanchier parviflora** Boiss. var. *parviflora*
Above Hisarcık, 1700 m, 23 viii 2000, streamside, *C. Vural* 2974.
Endemic. E. Medit. LC. Nph.
- ONAGRACEAE**
- Epilobium angustifolium** L.
Above Develi, Beşparmak D., 1800-2020 m, 38°28. 178' N, 035°29. 945', 21 vii 2000, dry streambed, *C. Vural* 2765.
Widespread. Crp.
- *E. dodonaei** Vill.
Between Öksüzdere and Derindere, 2400 m, 22 vii 2000, dry streambed, *C. Vural* 2797.
Hcrp.
- E. hirsutum** L.
Soysallı, 1150 m, 03 viii 2002, streamside. *C. Vural* 3492.
Crp.
- E. montanum** L.
West of Lifos D., Perilikartın, 2270 m, 38°35. 241' N, 035°27. 452' E, 25 vii 2000, rocky place, *C. Vural* 2860.
Euro-Sib. Crp.
- E. palustre** L.
Tekir Y., 2294 m, 19 viii 2000, streamside, *C. Vural* 2954.
Ch.
- E. minutiflorum** Hausskn.
Tekir Y., 2294 m, 19 viii 2000, streamside, *C. Vural* 2955.
Ir.-Tur. Hcrp.
- E. frigidum** Hausskn.
Above Hacılar, 2700-3100, 08 vi 2002, stony steppe, *C. Vural* 3336.
Crp.
- E. ponticum** Hausskn.
Tekir Y., 2294 m, 19 viii 2000, streamside, *C. Vural* 2959.
Crp.
- CUCURBITACEAE**
- Citrullus lanatus** (Thumb.) Matsum. & Nakai
Çaybağları, 1100 m, 20 viii 2002, field, *C. Vural* 3537.
Cultivated (karpuz). Th.
- Bryonia multiflora** Boiss. & Heldr.
Karpuzseki, 1100 m, 17 v 2000, steppe, *C. Vural* 1794.
Ir.-Tur. Crp.
- Cucurbita pepo** L.
Çaybağları, 1100 m, 20 viii 2002, field, *C. Vural* 3535.
Cultivated (kabak). Th.
- Cucumis melo** L.
Çaybağları, 1100 m, 20 viii 2002, field, *C. Vural* 3538.
Cultivated (kavun). Th.
- C. sativus** L.
Çaybağları, 1100 m, 20 viii 2002, field, *C. Vural* 3536.
Cultivated (salatalık). Th.
- CRASSULACEAE**
- Umbilicus erectus** DC.
Above Develi, Beşparmak D., 1800-2020 m, 35°28. 178' N, 035°29. 945' E, 21 vii 2000, foot of rock, *C. Vural* 2766.
Crp.
- Sedum amplexicaule** DC.
Beğendikbağları, 150-1100 m, 23 vi 1997, on rock, *C. Vural* 1308.
Medit. Ch.
- S. laconicum** Boiss. & Heldr.
Above Hisarcık slope, 1940 m, 14 vi 2000, on rock, *C. Vural* 2145.
E. Medit. Ch.
- *S. album** L.
Koç D., 2300 m, 27 viii 2002, on rock, *C. Vural* 3120.
Widespread. Ch.
- *S. alpestre** Vill.
Above Hisarcık, in valley, 1900 m, 15 vi 2000, on rock, *C. Vural* 2225.
Ch.
- The species distributed around 2000-2600 m was also collected at 2000 m from Erciyes D.
- *S. subulatum** (C.A.Mey.) Boiss.
Şeyhşaban junction, 1100 m, 20 vi 2000, on rock, *C. Vural* 2349.
Ir.-Tur. Th.
- S. tenellum** M.Bieb.
Above Şeytanderesi, 3000-3500 m, 18 viii 1997, stony place, *C. Vural* 1453.

Ir.-Tur. Ch.

S. annuum L.

Near top of Erciyes, 3500 m, 08 viii 2001, on rock, *C. Vural* 3081.

Euro-Sib. Th.

S. aetnense Tineo

East of Sakarçiftliği, 1700-2200 m, 22 vi 2000, rocky place, *C. Vural* 2370.

Th.

***S. caespitosum** (Cav.) DC.

Öksüzdere, 2500 m, 22 vii 2000, foot of rock, *C. Vural* 2802.

Medit. Th.

S. hispanicum L. var. **hispanicum**

Tekir Y., 2150 m, 18 vii 2002, on rock, *C. Vural* 3467.

Widespread. Th.

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

Above Şeyhşaban, 1450-1700 m, 16 vi 2000, on rock, *C. Vural* 2233.

Hcrp.

***Sempervivum gillianii** Muirhead

Hacılar to top of Erciyes, 1800-2000 m, 20 viii 1997, on rock, *C. Vural* 1522.

Endemic. Euro-Sib. (mt.). LC. Ch.

Having large rosette and flower diameters, *S. gillianii* is differentiated from *S. brevopilum*, distributed in northern Turkey.

S. brevopilum Muirhead

West of Lifos D., Perilikartın, 2270 m, 38°35. 241' N, 035°27. 452' E, 25 vii 2000, pebbly slope, *C. Vural* 2885.

Endemic. NT. Ch.

SAXIFRAGACEAE

Saxifraga exarata Vill. var. **exarata**

Above Şeytanderesi, 3000-3500 m, 18 vii 1997, on rock, *C. Vural* 1475.

Ch.

var. **adenophora** (K.Koch) Engler & Irmsch.

Above Şeytanderesi, 3000-3500 m, 18 vii 1997, foot of rock, *C. Vural* 1472.

Ch.

S. sibirica L subsp. **mollis** (Sm.) Matthews

Above Şeytanderesi, 3000-3500 m, 18 vii 1997, foot of rock, *C. Vural* 1466.

Crp.

GROSSULARIACEAE

Ribes orientale Desf.

Above Hisarcık, in valley, 1900 m, 16 v 2002, streamside, *C. Vural* 3127.

Nph.

APIACEAE (UMBELLIFERAE)

Astrantia maxima Pallas subsp. **haradjianii** (Grintz.) Rech. fil.

Above Hisarcık, tree plantation area, 1800 m, 04 vii 2000, under *Pinus nigra*, *C. Vural* 2627.

Hcrp.

Eryngium campestre L. var. **virens** Link

Hisarcık to Hacılar, 1300-1450 m, 18 viii 1997, roadside, *C. Vural* 1507.

Hcrp.

Echinophora tournefortii Jaub. & Spach

Çayırözü to Kulpak, 1200 m, 06 viii 2000, roadside, *C. Vural* 2931.

Ir.-Tur. Hcrp.

Scandix stellata Banks & Sol.

Near Karpuzseki, 1050-1100 m, 38°40. 039' N, 035°17. 089' E, 17 v 2000, steppe, *C. Vural* 1800.

Widespread. Th.

S. pecten-veneris L.

Above Şeyhşaban, 1450-1600 m, 38°30. 318' N, 035°18. 200' E, 20 vi 2000, steppe, *C. Vural* 2320.

Widespread. Th.

Bifora radians M.Bieb.

Between Hisarcık and Hacılar, 1400 m, 11 vii 2002, fieldside, *C. Vural* 3290.

Th.

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

West side of Lifos D., 1700-1950 m, 03 vii 1997, steppe, *C. Vural* 1427.

Endemic. Ir.-Tur. LC. Hcrp.

***P. corymbosa** Boiss.

Above Hacılar, 1600 m, 20 viii 2000, fieldside, *C. Vural* 1531.

Ir.-Tur. Hcrp.

P. olivieroides Boiss. & Hausskn.

Above Develi, 1695-1800 m, 38°27. 540' N, 035°29. 639' E, 20 vii 2000, steppe, *C. Vural* 2746.

Hcrp.

Prangos uechtritzi Boiss. & Hausskn.

Beğendikbağları, 1180-1240 m, 23 vi 1997, roadside, *C. Vural* 1280.

Endemic. Ir.-Tur. LC. Hcrp.

Bupleurum rotundifolium L.

Above Hisarcık, 1800 m, 26 v 2000, tree plantation area, *C. Vural* 1830.

Th.

B. croceum Fenzl.

Hisarcık to Hacılar, 1400 m, 11 vii 2002, fieldside, *C. Vural* 3289.

Ir.-Tur.

B. heldreichii Boiss. & Balansa

Beğendikbağları, 1200-1300 m, 25 vi 2000, fieldside, *C. Vural* 2448.

Endemic. Ir.-Tur. LC. Th.

B. sulphureum Boiss. & Balansa

Hisarcık to Kiranardı, 1150 m, 05 viii 2002, *C. Vural* 3517.

Endemic. Ir.-Tur. LC. Th.

B. cappadocicum Boiss.

Above Soysallı, 1400-1700 m, 12 vi 1998, fieldside, *C. Vural* 1667.

Th.

***Ferula orientalis** L.

Perilikartın, 2270 m, 25 vii 2000, rocky place, *C. Vural* 2848.

Ir.-Tur. Hcrp.

Ferulago pauciradiata Boiss. & Heldr.

Çaybağları, 1100 m, 20 viii 2002, fieldside, *C. Vural* 3539.

Endemic. Ir.-Tur. LC. Hcrp.

F. platycarpa Boiss. & Balansa

Above Hisarcık, 1800 m, 04 vii 2000, under *Quercus pubescens*, *C. Vural* 2596.

- Endemic. Ir.-Tur. LC. Hcrp.
Peucedanum palimbioides Boiss.
 Çaybağları, 1100 m, 01 ix 2000, fieldside, *C. Vural* 2994.
 Endemic. Ir.-Tur. LC. Hcrp.
 ***Pastinaca armena** Fisch. & C.A.Mey. subsp. **dentata** (Frey & Sint.) Chamberlain
 West side of Lifos D., 1700-1950 m, 03 vii 1997, dry streambed, *C. Vural* 1434.
 Endemic. VU. Hcrp.
Malabaila pastinacifolia Boiss. & Balansa
 Çaybağları, 1300 m, 28 vi 2000, fieldside, *C. Vural* 2579.
 Endemic. Ir.-Tur. LC. Hcrp.
M. secacul Banks & Sol.
 Hisarcık to Kırınardı, 1150 m, 05 viii 2002, fieldside, *C. Vural* 3515.
 Hcrp.
Heracleum argaeum Boiss. & Balansa
 Erciyes D., 2200 m, *Balansa* (syntype); west of Lifos D., Perilikartın, 2270 m, 38°35. 241' N, 035°27. 452' E, 25 vii 2000, rocky place, *C. Vural* 2867.
 Endemic. LC. Ir.-Tur. Hcrp.
Zosima absinthifolia (Vent.) Link
 Beğendikbağları, 1800 m, 15 vii 1996, roadside, *C. Vural* 1045.
 Ir.-Tur. Hcrp.
 ***Torilis arvensis** (Huds.) Link subsp. **arvensis**
 Above Soysallı, 1400-1700, 12 vi 1998, steppe, *C. Vural* 1695.
 Th.
T. leptophylla (L.) Rchb.
 Above Soysallı, 1400-1700 m, 12 vi 1998, fieldside, *C. Vural* 1651.
 Widespread. Th.
Astrodaucus orientalis (L.) Drude
 Between Hisarcık and Hacılar, 1300 m, 11 vii 2002, fieldside, *C. Vural* 3291.
 Ir.-Tur. Th.
Caucalis platycarpus L.
 Hisarcık to Hacılar, 1635 m, 38°37. 708' N, 035°29. 104' E, 12 vii 2000, under *Quercus pubescens*, *C. Vural* 2665.
 Widespread. Th.
Turgenia latifolia (L.) Hoffm.
 Between Hisarcık and Hacılar, 1300 m, 16 vi 2002, fieldside, *C. Vural* 3288.
 Widespread. Th.
Lisaea papyracea Boiss.
 Above Soysallı, 1500 m, 12 vi 1998, fieldside, *C. Vural* 1659.
 Ir.-Tur. Th.
Daucus carota L.
 Beğendikbağları, 1800 m, 15 vii 1996, roadside, *C. Vural* 1044.
 Widespread. Hcrp.
Artemisia squamata L.
 Above Soysallı, 1400-1700 m, 12 vi 1998, steppe, *C. Vural* 1696.
 Th.
RUBIACEAE
Asperula capitellata Hausskn. & Bornm. ex Bornm.
 Erciyes D., 2200 m, 1890, *Bornmüller* (type); above Tekir Y., 2500-3000 m, 08 viii 2001, meadow, *C. Vural* 3078.
 Ir.-Tur. Hcrp.
 ***A. tenella** Heuff. ex Degen
 Beğendikbağları, 1180-1240 m, 23 vi 1997, under *Quercus* sp., *C. Vural* 1322.
 Hcrp.
 Although it is in northern Turkey, it is also collected from Erciyes D.
A. arvensis L.
 Güzelce, north of Beşdam Hills, 1030-1100 m, 38°41. 495' N, 035°19. 403' E, 25 vi 2000, steppe, *C. Vural* 2463.
 Medit. Th.
 ***A. setosa** Jaub. & Spach
 Akçakaya, 1375 m, 38°39. 226' N, 035°34. 238' E, 30 v 2000, steppe, *C. Vural* 1983.
 Ir.-Tur. Th.
 ***Galium debile** Desf.
 Beğendikbağları, 1180-1240 m, 23 vi 1997, fieldside, *C. Vural* 1401.
 Medit. Hcrp.
G. verum L. subsp. **verum**
 Beğendikbağları, 1180-1240 m, 23 vi 1997, fieldside, *C. Vural* 1311; west side of Lifos D., 1700-1950 m, 03 vii 1997, steppe, *C. Vural* 1429.
 Euro-Sib. Ch.
 subsp. **glabrescens** Ehrend.
 Above Hisarcık, below station, valley, 1800 m, 23 viii 2000, steppe, *C. Vural* 2989.
 Ir.-Tur. Ch.
G. paschale Forssk.
 Gök D., 2200 m, 08 vi 2002, *C. Vural* 3186.
 Medit. (mt) Hcrp.
G. incanum Sm. subsp. **elatus** (Boiss.) Ehrend.
 Hisarcık, 1400 m, 22 v 1997, steppe, *C. Vural* 1213; Beğendikbağları, 1200 m, 23 vi 1997, shady place, *C. Vural* 1400.
 Ir.-Tur. Ch.
G. cilicicum Boiss.
 Akçakaya, 1375 m, 38°39. 226' N, 035°34. 238' E, 30 v 2000, steppe, *C. Vural* 1958.
 Endemic. E. Medit. (mt). LC. Hcrp.
G. spurium L. subsp. **spurium**
 Hisarcık, 1400 m, 22 v 1997, steppe, *C. Vural* 1181; Beğendikbağları, 1200 m, 10 vii 1996, under *Quercus pubescens*, *C. Vural* 1299.
 Th.
G. aparine L.
 Hisarcık to Kırınardı, 1431 m, 38°38. 836' N, 035°35. 253' E, 30 v 2000, steppe, *C. Vural* 1943.
 Th.
G. verticillatum Danthoine ex Lam.
 Near Şeyhşaban, 1400 m, 14 vi 2000, steppe, *C. Vural* 2301.
 Th.
Callipeltis cucullaria (L.) Steven
 Above Soysallı, 1400-1700 m, 12 vi 1998, fieldside, *C. Vural* 1650.
 Ir.-Tur. Th.

***Cruciata laevipes** Opiz

East of Sakarciftliği, 1700-2200 m, 22 vi 2000, open area of *Populus tremula* forest. *C. Vural* 2356.

Hcrp.

C. taurica (Pall. ex Willd.) Ehrend.

West of Ali D., 1300 m, 19 v 1997, steppe. *C. Vural* 1151; near Kiranardi, 1300-1500 m, 22 v 1997, under oak, *C. Vural* 1212; Akçakaya, 1375 m, 38°39. 226' N, 035°34. 238' E, 30 v 2000, foot of rock, *C. Vural* 1952.

Ir.-Tur. Ch.

CAPRIFOLIACEAE

Sambucus ebulus L.

Çaybağları, 1100 m, 20 viii 2002, fieldside, *C. Vural* 3541.

Euro-Sib. Hcrp.

***S. nigra** L.

Çaybağları, 1100 m, 20 viii 2002, fieldside, *C. Vural* 3540.

Euro-Sib. Mcph.

Viburnum opulus L.

Above Kiranardi, 1545 m, 38°37. 253' N, 035°32. 082' E, 02 vi 2000, roadside, *C. Vural* 2004.

Mcph.

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

Çaybağları, 1100-1300 m, 28 vi 2000, fieldside, *C. Vural* 2537.

Endemic. LC. Mcph.

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

South of Yılanlı D., 1180-1240 m, 24 vi 1997, on field hedge, *C. Vural* 1354.

Ir.-Tur. Mcph.

L. etrusca Santi var. *etrusca*

Perilikartin, 2270 m, 25 vii 2000, rocky place, *C. Vural* 2846.

Medit. Mcph.

VALERIANACEAE

Valeriana officinalis L.

West of Lifos D., Perilikartin, 2270 m, 38°35. 241' N, 035°27. 452' E, 25 vii 2000, rocky place, *C. Vural* 2874.

Hcrp.

V. dioscoridis Sm.

East of Hacilar, 1300 m, 38°40. 072' N, 035°27. 692' E, 06 v 2000, fieldside, *C. Vural* 1752.

E. Medit. Crp.

Valerianella szovitsiana Fisch. & C.A.Mey.

West of Kepez, 1600 m, 25 iii 1998, fieldside, *C. Vural* 1552.

Th.

V. carinata Lois

Çaybağları, 1100-1200 m, 05 vi 2000, under *Quercus pubescens*, *C. Vural* 2067.

Widespread. Th.

MORINACEAE

Morina persica L.

Above Hisarcık, tree plantation area, 1800 m, 04 vii 2000, steppe, *C. Vural* 2607.

Ir.-Tur. Hcrp.

DIPSACACEAE

Dipsacus laciniatus L.

Koç D., 2300 m, 21 viii 2001, steppe, *C. Vural* 3118.

Hcrp.

Cephalaria procera Fisch. & Lall.

Hisarcık to Hacilar, 1650 m, 12 vii 2000, under *Quercus pubescens*, *C. Vural* 2698.

Hcrp.

Scabiosa argentea L.

West of Kepez, 1900 m, 15 x 1996, open area of *Quercus pubescens*, *C. Vural* 1065.

Widespread. Hcrp.

S. micrantha Desf.

Hanyeriçiftliği, Karataş hills, 1100 m, 25 vi 2000, steppe, *C. Vural* 2493.

Widespread. Th.

S. calocephala Boiss.

Above Şeyhşaban, 1300 m, 20 vi 2000, roadside, *C. Vural* 2315.

Ir.-Tur. Th.

S. rotata M.Bieb.

South of Yılanlı D., 1180-1240 m, 23 vi 1997, steppe, *C. Vural* 1376.

Ir.-Tur. Th.

Pteroccephalus plumosus (L.) Coult.

Hanyeriçiftliği, Karataş hills, 1100 m, 25 vi 2000, steppe, *C. Vural* 2498.

Widespread. Th.

P. kurdicus Vatke var. *kurdicus*

East of Tekir Y., 2750-2800 m, steppe, 13 viii 1989, *Aytaç* 2812.

Ir.-Tur. VU. Ch.

ASTERACEAE (COMPOSITAE)

Helianthus annuus L.

Çaybağları, 1100 m, 20 viii 2002, field, *C. Vural* 3542.

Cultivated (Şemşamer, günebakan). Th.

Xanthium spinosum L.

Güzelce, north of Beşdam hills, 1030-1100 m, 38°41. 495' N, 035°19. 403' E, 25 vi 2000, steppe, *C. Vural* 2485.

Widespread. Th.

X. strumarium L. subsp. *cavanillesii* (Schouw) D.Löve & P.Dans.

Çaybağları, 1100-1200 m, 22 viii 2000, fieldside, *C. Vural* 2969.

Th.

***Inula ensifolia** L.

Hisarcık to Hacilar, 1500-1600 m, 12 vii 2000, steppe, *C. Vural* 2715.

Crp.

I. montbretiana DC.

Tekir Y., 2150 m, 18 vii 2002, rocky place, *C. Vural* 3370; above Hisarcık, tree plantation area, 1800-1895 m, 38°36. 706' N, 035°30. 415' E, 04 vii 2000, steppe, *C. Vural* 2598.

Ir.-Tur. Crp.

I. aucherana DC.

Soysallı, 1100 m, 05 vii 1997, salty steppe, *C. Vural* 1262.

Ir-Tur. Crp.

Helichrysum plicatum DC. subsp. *plicatum*

West of Lifos D., 1700-1950 m, 03 vii 1997, steppe, *C. Vural* 1423; east of Sakarciftliği, 1700-2200 m, 38°36. 311' N, 035°24. 132' E, 22 vi 2000, steppe, *C. Vural* 2442; Hisarcık to Hacilar, 1635 m, 38°37.

708' N, 035°29. 104' E, 12 vii 2000, fieldside, *C. Vural* 2663.

Widespread. Hcrp.

H. armenium DC. subsp. *armenium*

Above Hisarcık, tree plantation area, 1650-1758 m, 38°36. 819' N, 035°30. 586' E, 04 vii 2000, steppe, *C. Vural* 2656.

Ir.-Tur. Ch.

subsp. *araxinum* (Kirp.) Takht.

Sarıgöl, Kolanlı D., 2000 m, 20 vi 2001, steppe, *C. Vural* 3056.

Ir.-Tur. Ch.

Gnaphalium stewartii Clarke

Erciyes D., 3000 m, *Siehe*.

Ir.-Tur. Hcrp.

Filago pyramidata L.

Above Tekir Y., 2400 m, 18 vii 2002, steppe, *C. Vural* 3438.

Widespread. Th.

Logfia arvensis (L.) Holub

Hisarcık to Hacılar, 1700 m, 12 vii 2000, stony steppe, *C. Vural* 2674.

Widespread. Th.

L. gallica (L.) Coss. & Germ.

Above Tekir Y., 2300 m, 18 viii 1997, *C. Vural* 1450.

Th.

Solidago virgaurea L. subsp. *virgaurea*

Above Şeytanderesi, 3000-3500 m, 18 viii 1997, steppe, *C. Vural* 1462; west side of Lifos D., 1700-1950 m, 03 vii 1997, steppe, *C. Vural* 2884.

Hcrp.

Erigeron cilicicus Boiss. ex Vierh.

Above Şeytanderesi, 3000-3500 m, 18 viii 1997, steppe, *C. Vural* 1471; Öksüzdere, 2300 m, 22 vii 2000, steppe, *C. Vural* 2790.

Endemic. Ir.-Tur. LC. Hcrp.

E. zederbaueri Vierh.

Erciyes D., c. 2300 m, vii 1902, *Zederbauer* (type); west of Lifos D., Perilikartın, 2270 m, 38°35. 241' N, 035°27. 452' E, 25 vii 2000, rocky place *C. Vural* 2892.

Endemic. Ir.-Tur. VU. Hcrp.

E. acer L. subsp. *pyncnotrichus* (Vierh.) Grierson

Kıranardı, 1450 m, 10 ix 2000, open area of oak thicket, *C. Vural* 3017.

Euro-Sib. Hcrp.

**Conyza canadensis* (L.) Cronquist

Çaybağları, 1100 m, 01 ix 2000, fieldside, *C. Vural* 3002.

Th.

Senecio hypochionaeus Boiss. var. *argaeus* (Boiss. & Balansa) Matthews

Erciyes D., 2200 m, *Balansa* (type); west of Lifos D., Perilikartın, 2270 m, 38°35. 241' N, 035°27. 452' E, 25 vii 2000, rocky place *C. Vural* 2859.

Endemic. LC. Ir.-Tur. Hcrp.

S. vulgaris L.

Kıranardı, 1400 m, 22 v 1997, steppe slope, *C. Vural* 1210; Hisarcık, 1400 m, 22 v 1997, roadside, *C. Vural* 1616.

Th.

S. vernalis Waldst. & Kit.

Tekir Y. to Develi, 2750 m, 27 x 1996, steppe, *C. Vural* 1095; west side of Lifos D., 1700-1950 m, 03 vii 1997, steppe, *C. Vural* 1443; Tekir Y., 2150 m, 18 viii 2000, roadside, *C. Vural* 2934.

Th.

S. viscosus L.

Above Sakarcıftlığı village, Ortaseki, 1400-2200 m, 38°35. 852' N, 035°25. 967' E, 22 vi 2000, open area of *Populus tremula* forest, *C. Vural* 2354.

Th.

Tussilago farfara L.

Above Hisarcık, in valley, 1450-1700 m, 07 iv 2001, streamside, *C. Vural* 3030.

Crp.

Anthemis cretica L. subsp. *pontica* (Willd.) Grierson

East of Sakarcıftlığı, 1700-2200 m, 38°36. 311' N, 035°24. 132' E, 22 vi 2000, steppe, *C. Vural* 2411.

Widespread. Hcrp.

subsp. *albida* (Boiss.) Grierson

West of Lifos D., Perilikartın, 2270 m, 38°35. 241' N, 035°27. 452' E, 25 vii 2000, steppe, *C. Vural* 2870.

Widespread. Crp.

subsp. *argaea* (Boiss. & Balansa) Grierson

Erciyes D., 3700 m, Balansa (type); above Şeytanderesi, 3000-3500 m, 18 viii 1997, steppe, *C. Vural* 1470; west of Lifos D., Perilikartın, 2270 m, 38°35. 241' N, 035°27. 452' E, 25 vii 2000, steppe, *C. Vural* 2888.

Endemic. Ir.-Tur. LC. Hcrp.

A. kotschyana Boiss. var. *discoidea* (Bornm.) Grierson

South of Yılanlı D., 1180-1240 m, 23 vi 1997, steppe, *C. Vural* 1319; above Şeytanderesi, 3000-3500 m, 18 viii 1997, steppe, *C. Vural* 2811.

Hcrp.

A. sintenisii Freyn

Beğendikbağları, 1180-1240 m, 24 vi 1997, steppe slope, *C. Vural* 1358.

Endemic. Ir.-Tur. LC. Th.

A. fumariifolia Boiss.

Erciyes D., *Kotschy* (type); west of Kepez, 1500 m, 25 iii 1998, streamside, *C. Vural* 1543; Şeyhşaban junction, 1092 m, 38°26. 824' N, 035°12. 608' E, 05 viii 2000, roadside, *C. Vural* 2335.

Endemic. Ir.-Tur. LC. Th.

A. pungens Yavin

Hisarcık, 1400 m, 22 v 1997, steppe, *C. Vural* 1243; above Soysallı, 1400-1700 m, 12 vi 1998, steppe, *C. Vural* 1645.

Endemic. NT. Th.

**A. tinctoria* L. var. *tinctoria*

Hisarcık, 1400 m, 22 v 1997, steppe, *C. Vural* 1224; Hanyeriçiftliği, Karataş hills, 1030-1200 m, 26 vi 2000, steppe, *C. Vural* 2462.

Widespread. Hcrp.

var. *discoidea* (All.) DC.

Above Hisarcık, 1932 m, 38°35. 900' N, 035°30. 808' E, 15 vi 2000, steppe, *C. Vural* 2216.

Hcrp.

var. *pallida* DC.

Hanyeriçiftliği, Karataş hills, 1030-1200 m, 26 vi 2000, steppe, *C. Vural* 2526.

- Hcrp.
Achillea sieheana Stapf
 Soysallı-Sindelhöyük, 1080 m, 38°22. 444' N, 035°23. 033' E, 26 vi 2003, roadside, *C. Vural* 3648.
 Endemic. Ir.-Tur. VU. Hcrp.
A. wilhelmsii K.Koch
 Hanyeriçiftliği, Karataş hills, c. 1100 m, 38°40. 102' N, 035°16. 673' E, 25 vi 2000, steppe, *C. Vural* 2511.
 Hcrp.
A. phrygia Boiss. & Balansa
 East of Sakarçiftliği, 1700-2200 m, 38°36. 311' N, 035°24. 132' E, 23 vi 2000, steppe, *C. Vural* 2435.
 Endemic. Ir.-Tur. LC. Hcrp.
***A. aleppica** DC. subsp. *aleppica*
 Above Hisarcık, tree plantation area, 1800-1895 m, 38°36. 706' N, 035°30. 415' E, 04 vii 2000, steppe, *C. Vural* 2590.
 Ir.-Tur. Hcrp.
A. teretifolia Willd.
 West of Lifos D., Perilikartın, 2270 m, 38°35. 241' N, 035°27. 452' E, 25 vii 2000, stony, *C. Vural* 2871.
 Endemic. Ir.-Tur. LC. Hcrp.
A. kotschyi Boiss. subsp. *kotschyi*
 East of Sakarçiftliği, 1700-2200 m, 38°36. 311' N, 035°24. 132' E, 23 vi 2000, steppe, *C. Vural* 2444.
 Hcrp.
A. coarctata Poir.
 Hacilar to top of Erciyes, 1600-2000 m, 20 viii 1997, steppe, *C. Vural* 1532.
 Hcrp.
Tanacetum parthenium (L.) Schultz
 Above Tekir Y., 2500 m, 16 vii 2002, steppe, *C. Vural* 3387.
 Widespread. Hcrp.
T. argyrophyllum (K.Koch) Tvel. var. *argyrophyllum*
 Above Tekir Y., 2500 m, 16 vii 2002, steppe, *C. Vural* 3387.
 Ir.-Tur. Hcrp.
Tripleurospermum oreades (Boiss.) Rech. var. *oreades*
 West of Ali D., 1300 m, 19 v 1997, steppe, *C. Vural* 1150.
 Crp.
T. parviflorum (Willd.) Pobed.
 Çaybağları, 1100-1300 m, 17 v 2000, steppe, *C. Vural* 1849.
 Th.
T. callosum (Boiss. & Heldr.) E.Hossain
 Hanyeriçiftliği, Karataş hills, 1030-1200 m, 26 vi 2000, steppe, *C. Vural* 2509; between Öksüzdere and Derindere, 2400 m, 22 vii 2000, steppe, dry streambed, *C. Vural* 2807.
 Endemic. Ir.-Tur. LC. Crp.
T. sevanense (Manden.) Pobed.
 Hisarcık to Kıranardı, 1431 m, 12 vii 1998, 38°38. 836' N, 035°35. 253' E, 30 v 2000, steppe, *C. Vural* 1945; Hisarcık, 1400 m, 22 v 2000, steppe, *C. Vural* 2599.
 Crp.
Artemisia caucasica Willd.
 Above Hacilar, 1600-2000, 20 viii 1997, steppe, *C. Vural* 1521.
 VU. Ch.
A. splendens Willd.
 Above Hacilar, 2700-3100 m, 08 vi 2002, stony steppe, *C. Vural* 3325. Tekir Y., 2300 m, 27 viii 2002, steppe, *C. Vural* 3377.
 Ch.
A. campestris L.
 Above Hacilar, 1600-2000, 20 viii 1997, steppe, *C. Vural* 1534.
 Hcrp.
Gundelia tournefortii L. var. *armata* Freyn & Sint.
 Above Soysallı, 1400-1700 m, 12 vi 1998, steppe, *C. Vural* 1623.
 Ir.-Tur. Hcrp.
Arctium minus (Hill) Bernh. subsp. *pubens* (Babington) Arènes
 Soysallı, 1100 m, 03 viii 2002, fieldside, *C. Vural* 3497.
 Euro-Sib. Hcrp.
Onopordum davisii Rech.
 Above Soysallı, 1400-1700 m, 12 vi 1998, steppe, *C. Vural* 1698a.
 Endemic. Ir.-Tur. NT. Hcrp.
***O. tauricum** Willd.
 Above Soysallı, 1400-1700 m, 12 vi 1998, steppe, *C. Vural* 1698b.
 Euro-Sib. Hcrp.
Cirsium lappaceum (M.Bieb.) Fisch.
 East of Tekir Y., 2380 m, 38°32. 632' N, 035°32. 658' E, 18 viii 2000, steppe, near stream, *C. Vural* 2932.
 Hcrp.
C. echinus (M.Bieb.) Hand. -Mazz.
 Near Karpuzseki, 1050-1100 m, 17 v 2000, rocky hill, steppe, *C. Vural* 1803.
 Ir.-Tur. Hcrp.
***C. rhizocephalum** C.A.Mey. subsp. *sinuatum* (Boiss.) P.H.Davis & Parris
 Tekir Y., 2300 m, 27 x 1996, streamside, *C. Vural* 1088.
 Hcrp.
C. arvense (L.) Scop. subsp. *arvense*
 Near Soysallı, 1150 m, 05 vi 1997, steppe, *C. Vural* 1261.
 Hcrp.
Ptilostemon afer (Jacq.) Greuter. subsp. *eburneus* Greuter
 East of Tekir Y., 2380 m, 38°32. 632' N, 035°32. 658' E, 18 viii 2000, steppe, *C. Vural* 2941.
 Endemic. LC. Hcrp.
***Carduus lanuginosus** Willd.
 Above Tekir Y., 2300 m, 16 vii 2002, steppe, *C. Vural* 3367.
 Endemic. LC. Hcrp.
C. nutans L. sensu lato
 West of Lifos D., Perilikartın, 2150 m, 38°35. 360' N, 035°27. 559' E, 25 vii 2000, steppe, *C. Vural* 2840.
 Widespread. Hcrp.
C. nutans L. subsp. *leiophyllus* (Petr.) Stoj. & Stef.
 East of Sakarçiftliği, 1700-2200 m, 38°36. 311' N, 035°24. 132' E, 22 vi 2000, steppe, *C. Vural* 2398.
 Hcrp.

- C. pycnocephalus* L. subsp. *albidus* (M.Bieb.) Kazmi
Güzelce, north of Beşdam hills, 1030-1100 m, 38°41. 495' N, 035°19. 403' E, 25 vi 2000, steppe, *C. Vural* 2474.
Widespread. Th.
*subsp. *breviphyllarius* P.H.Davis
Hisarcık, 1400 m, 22 v 1997, steppe, *C. Vural* 1216.
Th.
Jurinea consanguinea DC.
Above Şeytanderesi, 3000-3500, 18 viii 1997, steppe, *C. Vural* 1459.
Ir.-Tur. Hcrp.
J. pontica Hausskn. & Freyn ex Hausskn.
Çaybağları, 1100-1200 m, 05 vi 2000, steppe, *C. Vural* 2095.
Hcrp.
Jurinea moschus (Habl.) Bobrov subsp. *moschus*
East of Sakarcıftlığı, 1700-2200 m, 38°36. 311' N, 035°24. 132' E, 22 vi 2000, *C. Vural* 2376.
Ir.-Tur. Hcrp.
Centaurea virgata Lam.
Beğendikbağları, 1180-1240 m, 24 vi 1997, steppe slope, *C. Vural* 1293; Hanyeriçiftliği, Karataş hills, 1030-1200 m, 26 vi 2000, steppe, *C. Vural* 2521; Şeyhşaban junction, 1092 m, 38°26. 824' N, 035°12. 608' E, 05 viii 2000, steppe, *C. Vural* 2917. (Group A).
Widespread. Ch.
C. patula DC.
Above Şeyhşaban, 1318 m, 38°30. 021' N, 035°17. 049' E, 14 v 2000, steppe, *C. Vural* 2275; above Şeyhşaban, 1318 m, 38°30. 021' N, 035°17. 049' E, 14 v 2000, steppe, *C. Vural* 2289.
Ir.-Tur. Hcrp.
C. pulchella Ledeb.
Above Soysallı, 1400-1700 m, 12 vi 1998, steppe, *C. Vural* 1675.
Ir.-Tur. Th.
C. solstitialis L. subsp. *solstitialis*
West of Lifos D., 1700 m, 25 vii 1997, roadside, *C. Vural* 1416; above Soysallı, 1400-1700 m, 12 vi 1998, steppe, *C. Vural* 1653; Çaybağları, 1100-1300 m, 17 v 2000, fieldside, *C. Vural* 2927.
Widespread. Th.
C. iberica Trev. ex Spreng.
Hisarcık to Kıranardı, 1431 m, 38°38. 836' N, 035°35. 253' E, 30 v 2000 m, steppe, *C. Vural* 1946.
Widespread. Hcrp.
C. urvillei DC. subsp. *urvillei*
Above Sakarcıftlığı, 1400-2200 m, 22 vi 2000, steppe, *C. Vural* 2355.
Medit. Hcrp.
subsp. *steppeposa* Wagenitz
South of Yılanlı D., 1180-1240 m, 23 vi 1997, steppe, *C. Vural* 1381.
Ir.-Tur. Hcrp.
C. carduiformis DC. subsp. *carduiformis* var. *carduiformis*
Hisarcık to Hacılar, 1300-1450 m, 18 viii 1997, steppe, *C. Vural* 1504; above Soysallı, 1400-1700 m, 12 vi 1998, steppe, *C. Vural* 1626; Hisarcık, 1800 m, 22 v 2000, steppe, *C. Vural* 2608.
Hcrp.
*var. *thrinciifolia* (DC.) Wagenitz
Beğendikbağları, 1180-1240 m, 23 vi 1997, *C. Vural* 1341.
Hcrp.
C. pichleri Boiss. subsp. *pichleri*
Above Hisarcık, 1932 m, 38°35. 900' N, 035°30. 808' E, 15 vi 2000, steppe, *C. Vural* 2208.
Crp.
C. lanigera DC.
Above Hacılar, Perilikartın, 2000-2300, 01 vi 2002, steppe, *C. Vural* 3142.
Endemic. Ir.-Tur. LC. Hcrp.
C. triumfettii All.
Hisarcık to Hacılar, 1635 m, 38°37. 708' N, 035°29. 104' E, 12 vii 2000, steppe, *C. Vural* 2666.
Hcrp.
Crupina vulgaris Cass.
Above Soysallı, 1400-1700 m, 12 vi 1998, steppe, *C. Vural* 1655; Çaybağları, 1100-1300 m, 17 v 2000, steppe, *C. Vural* 2115.
Th.
C. crupinastrum (Moris) Vis.
Sarigöl, Kolanlı D., 1980 m, 20 vi 2001, steppe, *C. Vural* 3064.
Th.
Cnicus benedictus L. var. *benedictus*
Above Soysallı, 1400-1700 m, 12 vi 1998, steppe, *C. Vural* 1639.
Th.
Carlina oligocephala Boiss. & Kotschy subsp. *oligocephala*
Above Hisarcık, 1800 m, 23 viii 2000, streamside, *C. Vural* 2977.
Hcrp.
Xeranthemum annuum L.
Güzelce, north of Beşdam hills, 1030-1100 m, 38°41. 495' N, 035°19. 403' E, 25 vi 2000, steppe, *C. Vural* 2465; Hisarcık, 1400 m, 22 vii 2000, steppe, *C. Vural* 2732.
Widespread. Th.
*X. *inapertum* (L.) Mill.
Çaybağları, 1300 m, 28 vi 2000, steppe, *C. Vural* 2560.
Th.
Siebera pungens (Lam.) J.Gay
Develi to Şeyhşaban, 1150 m, 08 vi 2002, roadside, *C. Vural* 3161.
Ir.-Tur. Th.
Echinops viscosus DC. subsp. *bithynicus* (Boiss.) Rech.
Hisarcık to Hacılar, 1300-1450 m, 18 viii 1997, roadside, *C. Vural* 1489.
E. Medit. Hcrp.
E. orientalis Trautv.
Çayırözü to Kulpak, 1200 m, 06 viii 2000, steppe, *C. Vural* 2926.
Ir.-Tur. Hcrp.
Scolymus hispanicus L.
Beğendikbağları, 1300 m, 15 vii 1996, fieldside, *C. Vural* 1054.
Medit. Hcrp.
Cichorium intybus L.
Above Soysallı, 1400-1700 m, 16 viii 1998, roadside, *C. Vural* 1718.

Widespread. Hcrp.

***C. pumilum** Jacq.

Above Hisarcık, 1800 m, 23 viii 2000, under oak, *C. Vural* 2991.

Th.

Koelpina linearis Pall.

Above Soysallı, 1500 m, 12 vi 1998, fieldside, *C. Vural* 1660.

Ir.-Tur. Th.

Scorzonera laciniata L. subsp. **calcitrapifolia** (Vahl) Maire

West of Lifos D., Perilikartın, 2270 m, 38°35. 241' N, 035°27. 452' E, 25 vii 2000, steppe, *C. Vural* 2889.

Th.

S. cana (C.A.Mey.) Hoffm. var. **alpina** (Boiss.) Chamb.

Above Hacılar, 2700 m, 11 vii 2002, steppe, *C. Vural* 3329.

Hcrp.

var. **jacquiniana** (W.Koch) Chamb.

Above Hisarcık, 1800 m, 04 vii 2000, tree plantation area, *C. Vural* 2597.

Hcrp.

S. hieraciifolia Hayek

Erciyes D., near Soysallı, c. 1100 m, v 1902, *Zederbauer* (type); Soysallı to Şeyhşaban, 1150 m, 08 vi 2002, salty steppe, *C. Vural* 3158.

Endemic. Ir.-Tur. LC. Hcrp.

S. suberosa K.Koch subsp. **suberosa**

Above Soysallı, 1400 m, 18 vii 2002, open area of oak thicket, *C. Vural* 3494.

Ir.-Tur. Crp.

S. mollis M.Bieb. subsp. **szowitzii** (DC.) Chamb.

Above Kulpak, 1450 m, 18 v 2000, steppe, *C. Vural* 1888b.

Hcrp.

S. semicana DC.

Above Kulpak, 1450 m, 18 v 2000, steppe *C. Vural* 1888a.

Endemic. Ir.-Tur. LC. Hcrp.

S. cinerea Boiss

Çaybağları, 1100 m, 20 viii 2002, steppe, *C. Vural* 3537. 3543 *C. Vural*.

Ir.-Tur. Hcrp.

***S. aucheriana** DC.

Above Hisarcık, in valley, 1700 m, 23 viii 2000, steppe, *C. Vural* 2986.

Endemic. Ir.-Tur. VU. Hcrp.

***Tragopogon longirostris** Bisch. ex Schultz Bip. var. **abbreviatus** Boiss.

Above Şeyhşaban 1450-1700 m, 14 v 2000, fieldside, *C. Vural* 2263.

Hcrp.

T. colaratus C.A.Mey.

Çaybağları, 1100-1200, 05 vi 2000, open area of oak thicket, *C. Vural* 2118.

Ir.-Tur. Hcrp.

T. latifolius Boiss. var. **angustifolius** Boiss.

Above Şeyhşaban, 1450-1700, 14 v 2000, fieldside, *C. Vural* 2261; above Develi, 1800 m, 20 vii 2000, steppe, *C. Vural* 2752.

Ir.-Tur. Hcrp.

T. aureus Boiss.

Çaybağları, 1400 m, 10 ix 2000, steppe, *C. Vural* 3019.

Endemic. LC. Hcrp.

Leontodon crispus Vill. subsp. **asper** (Waldst. & Kit.) Rohlena var. **asper**

Hisarcık to Hacılar, 1300-1450 m, 18 viii 1997, steppe, *C. Vural* 1496.

Widespread. Hcrp.

L. oxylepis Boiss. & Heldr. var. **oxylepis**

South of Yılanlı D., 1180-1240 m, 23 vi 1997, steppe, *C. Vural* 1392; Çaybağları, 1100-1300 m, 17 vi 2000, open area of *Quercus pubescens*, *C. Vural* 2091.

Medit. Hcrp.

Picris strigosa M.Bieb.

East of Sakarcıftlığı, 1700-2200 m, 38°36. 311' N, 035°24. 132' E, 22 vi 2000, steppe, *C. Vural* 2424.

Ir.-Tur. Hcrp.

Sonchus asper (L.) Hill subsp. **glaucescens** (Jordan) Ball

East of Tekir Y., 2000-2300 m, 10 ix 2000, steppe, *C. Vural* 3008; Çaybağları, 1100 m, 01 ix 2000, fieldside, *C. Vural* 3007.

Widespread. Hcrp.

Hieracium cyaneum Arv.-Touv.

Above Hisarcık, tree plantation area, 1800-1895 m, 38°36. 706' N, 035°30. 415' E, 04 vii 2000, steppe, *C. Vural* 2628; above Tekir Y., 2800 m, 16 vii 2002, steppe, *C. Vural* 3302.

Euro-Sib. Hcrp.

H. lasiochaetum (Bornm. & Zahn) P.D.Sell & C.West

Erciyes D., 2200 m, *Bornmüller* (syntype); above Hacılar, east of Perilikartın, 2200-2700, 16 vi 2002, steppe, *C. Vural* 3305.

Endemic. LC. Hcrp.

H. argaeum (Zahn) P.D.Sell & C.West

Erciyes D., Çomaklı, 2000 m, and Hacılar, 2200 m, *Zederbauer* (syntype); above Hacılar, east of Perilikartın, 2200-2700, 16 vi 2002, steppe, *C. Vural* 3378. Endemic to Erciyes D. EN. Ir.-Tur. Hcrp.

H. pannosum Boiss.

Perilikartın, 2300 m, 25 vii 2000, rocky place, *C. Vural* 2856.

E. Medit. (mt). Hcrp.

H. subvandasii (Bornm. & Zahn) P.D.Sell & C.West

Erciyes D., *Bornmüller* 2230 (type).

Endemic EN. Hcrp. (not collected)

Pilosella hoppeana (Schult.) C.H. & F.W.Schultz subsp. **plisquama** (Nag & Pet.) P.D.Sell & C.West

Above Hisarcık, 1700 m, 07 v 2001, under oak, *C. Vural* 3032.

Ch.

subsp. **testimonialis** (Naegli ex Peter) P.D.Sell & C.West

Above Hisarcık, tree plantation area, 1650-1758 m, 38°36. 819' N, 035°30. 586' E, 04 vii 2000, steppe, *C. Vural* 2647.

Ch.

subsp. **isaurica** Hub.-Mor.

Hisarcık to Hacılar, 1530-1600 m, 38°38. 055' N, 035°29. 106' E, 12 vii 2000, open area of oak thicket, *C. Vural* 2717.

Endemic. Ir.-Tur. LC. Ch.

P. piloselloides (Vill.) Soják subsp. *megalomastix* (Nag & Pet.) P.D.Sell & C.West

Hisarcık to Haçlar, 1635 m, 38°37. 708' N, 035°29. 104' E, 12 vii 2000, steppe, *C. Vural* 2681.

Ch.

P. echioides (Lumn.) C.H. & F.W.Schultz subsp. *procera* (Fries) Y.Sell. & West

Çaybağları, 1100-1300 m, 28 vi 2000, steppe, *C. Vural* 2541.

Ch.

P. x auriculoides (A.F.Láng) P.D.Sell & C.West

Above Hisarcık, 1940 m, 14 vi 2000, steppe, *C. Vural* 2151.

Ch.

P. verruculata (Link) Soják

Lifos D., 1900 m, 03 vii 1997, steppe, *C. Vural* 1430.

Hcrp.

P. cymosa (L.) C.H. & F.W.Schultz

South of Yılanlı D., 1180-1240 m, 23 vi 1997, steppe, *C. Vural* 1389.

Ch.

Cicerbita mulgedioides (Schultz Bip. ex Vis. & Pan.) Beauverd

Develi to Soysallı, 1100 m, 08 vi 2002, roadside, *C. Vural* 3275.

Crp.

Lactuca saligna L.

West of D.S.İ. dam, 2267 m, 38°30. 974' N, 035°31. 849' E, 21 viii 2000, roadside, *C. Vural* 2965.

Hcrp.

L. serriola L.

Yeni Sanayi, 1054 m, 38°42. 355' N, 035°21. 243' E, 04 viii 2000, roadside, *C. Vural* 2915; Çaybağları, 1100-1300 m, 02 ix 2000, roadside, *C. Vural* 3006.

Euro-Sib. Hcrp.

Lapsana communis L. subsp. *intermedia* (M.Bieb.) Hayek

Çaybağları, 1100-1200 m, 05 vi 2000, steppe, *C. Vural* 2094.

Widespread. Hcrp.

**Taraxacum bessarabicum* (Hornem.) Hand.-Mazz. subsp. *bessarabicum*

Soysallı, 1050 m, 05 vi 1997, salty steppe, *C. Vural* 1264.

Hcrp.

T. microcephaloides van Soest

Beğendikbağları, 1400 m, 15 vii 1996, steppe, *C. Vural* 1043.

Hcrp.

T. farinosum Hausskn. & Bornm. ex Hand.-Mazz.

Soysallı, 05 vi 1902, *Zederbauer* (type); Soysallı to Şeyhşaban, 1150 m, 08 vi 2002, salty steppe, *C. Vural* 3156.

Endemic. Ir.-Tur. LC. Hcrp.

T. crepidiforme DC. subsp. *crepidiforme*

Above Hisarcık, slope, 1200-1400 m, 20 v 1998, damp meadow, *C. Vural* 1590.

Hcrp.

**T. macrolepium* Schischkin

Above Hisarcık, in valley, 1940 m, 14 vi 2000, damp slope, *C. Vural* 2160.

Hcrp.

T. pseudonigricans Hand.-Mazz

Erciyes D., Çomaklı, c. 1900 m, 24 vi 1902, *Zederbauer* (type); Soysallı, 1800 m, 05 vi 1997, steppe, *C. Vural* 1264.

Endemic. Ir.-Tur. NT. Hcrp.

T. buttleri van Soets

West of Kepez, 1600 m, 25 iii 1998, slope, steppe, *C. Vural* 1555.

Hcrp.

Crepis macropus Boiss. & Heldr.

East of Sakarçiftliği, 1700-2200 m, 38°36. 311' N, 035°24. 132' E, 22 vi 2000, fieldside, *C. Vural* 2425.

Endemic. Ir.-Tur. LC. Hcrp.

C. frigida (Boiss. & Balansa) Babç.

Above Haçlar, 2700 m, 11 vii 2002, steppe, *C. Vural* 3331.

Ir.-Tur. Hcrp.

C. foetida L. subsp. *rhoeadifolia* (M.Bieb.) Çelak.

Above Şeyhşaban, 1450-1700 m, 14 v 2000, steppe, *C. Vural* 2260.

Widespread. Th.

*subsp. *commutata* (Spreng.) Babç.

Above Soysallı, 1400 m, 03 viii 2002, steppe, *C. Vural* 3496.

Widespread. Th.

C. sancta (L.) Babç.

West of Ali D., 1300 m, 19 v 1997, fieldside, *C. Vural* 1168.

Widespread. Th.

CAMPANULACEAE

Campanula glomerata L. subsp. *hispida* (Witasek) Hayek

Erciyes D., Ali D., 1500-1800 m, *Penther & Zederbauer* (type); Lifos D., 2000 m, 01 v 1996, open area of oak thicket, *C. Vural* 1013.

Euro-Sib. Hcrp.

C. argaea Boiss. & Balansa

Erciyes D., 1400 m, vii 1856, *Balansa* (type); west of Kepez, 1950 m, 15 x 1996, fieldside, *C. Vural* 1069; above Develi, Erciyes Hatıra Ormanı, 1700 m, 21 vii 2000, on rock, *C. Vural* 2748.

Endemic. Ir.-Tur. LC. Hcrp.

C. cymbalaria Sm.

Above Tekir Y., 3000-3500 m, 08 viii 2001, on rock, shady place, *C. Vural* 3093.

Medit. Hcrp.

C. stricta L. var. *stricta*

Hisarcık to Haçlar, 1635 m, 38°37. 708' N, 035°29. 104' E, 12 vii 2000, steppe, *C. Vural* 2696.

Ir.-Tur. Hcrp.

var. *alidagensis* Damboldt

Above Haçlar, 1800-2000 m, 21 vii 1997, steppe, *C. Vural* 1538; above Develi, 1700 m, 21 vii 2000, tree plantation area, *C. Vural* 2782; west side of Lifos D., 1700-1950 m, 25 vii 2000, steppe, *C. Vural* 2853.

Endemic. Ir.-Tur. LC. Hcrp.

C. stevenii M.Bieb. subsp. *stevenii*

Above Hisarcık, 1932 m, 38°35. 900' N, 035°30. 808' E, 15 vi 2000, steppe, *C. Vural* 2131; Hisarcık, 1400 m, 04 vii 2000, under oak, *C. Vural* 2594.

Euro-Sib. Hcrp.

**C. rapunculus* L. var. *rapunculus*

North of Yılanlı D., 1130-1180 m, 23 vi 1997, steppe, *C. Vural* 1306.

Hcrp.

Asyneuma amplexicaule (Willd.) Hand.-Mazz. subsp. *amplexicaule* var. *amplexicaule*

West of Lifos D., Perilikartın 2270 m, 25 vii 2000, rocky place, *C. Vural* 2857.

Widespread. Hcrp.

*var. *angustifolium* (Boiss.) Bornm.

Above Hisarcık, 1930 m, 14 vi 2000, slope, *C. Vural* 2136.

Ir.-Tur. Hcrp.

A. limonifolium (L.) Janch. subsp. *pestalozzae* (Boiss.) Damboldt.

Güzelce, north of Beşdam hills, 1030-1100 m, 38°41. 495' N, 035°19. 403' E, 25 vi 2000, steppe, *C. Vural* 2473.

Endemic. LC. Hcrp.

A. trichostegium (Boiss.) Bornm.

Erciyes D., 2400-2700 m, *Balansa* (type); above Haçılar, 2700-3100 m, 16 vi 2002, stony steppe, *C. Vural* 3330.

Endemic to Erciyes D. Ir.-Tur. EN. Hcrp.

A. rigidum (Willd.) Grossheim subsp. *rigidum*

Perilikartın, 2270 m, 25 vii 2000, rocky place, *C. Vural* 2866.

Ir.-Tur. Hcrp.

Michauxia campanuloides L'Hérit. ex Aiton

Beğendikbağları, 1400 m, 01 v 1996, open area of oak thicket, *C. Vural* 1003.

E. Medit. Hcrp.

Legousia hybrida (L.) Delarbre

Above Şeyhşaban, 1450-1700 m, 14 vi 2000, steppe, *C. Vural* 2249.

Medit. Th.

L. speculum-veneris (L.) Chaix

Çaybağları, 1300 m, 20 v 1997, fieldside, *C. Vural* 1179; above Sakarçiftliği village, 1400-2200, 22 vi 2000, open area of community of *Populus tremula*, *C. Vural* 2361.

Medit. Th.

L. pentagonia (L.) Thell.

Çaybağları, 1100-1200 m, 05 vi 2000, steppe, *C. Vural* 2077.

E. Medit. Th.

PRIMULACEAE

**Primula auriculata* Lam.

Beğendikbağları, 1500 m, 15 vii 1996, streamside, *C. Vural* 1033.

Ir.-Tur. Hcrp.

Androsace maxima L.

Near Karpuzseki, 150-1100, 17 v 2000, steppe, *C. Vural* 1805b.

Th.

A. villosa L.

Near Karpuzseki, 150-1100, 17 v 2000, steppe, *C. Vural* 1805a.

Euro-Sib. Hcrp.

**Lysimachia verticillaris* Spreng.

Çaybağları, 1300 m, 28 vi 2000, foot of rock, *C. Vural* 2550; above Hisarcık, in valley, 1800 m, 23 viii 2000, on rock, *C. Vural* 2975.

Euro-Sib. Hcrp.

L. atropurpurea L.

Çaybağları, 1150 m, 30 v 2001, roadside, *C. Vural* 3038.

Medit. Hcrp.

Glaux maritima L.

Soysallı to Yeşilhisar 1100-1150 m, 05 vi 1997, salty steppe, *C. Vural* 1265; road to Şeyhşaban, 1150 m, 20 vi 2000, salty steppe, *C. Vural* 2345.

Hcrp.

OLEACEAE

Jasminum fruticans L.

Kıranardı, 1400 m, 22 v 1997, fieldside, *C. Vural* 1226; east of Haçılar, 1300 m, 06 v 2000, fieldside, *C. Vural* 1751; above Haçılar, 1850 m, 16 xi 2001, steppe, *C. Vural* 3111.

Medit. Nph.

Fraxinus angustifolia Vahl. subsp. *angustifolia*

Çaybağları, 1100-1300 m, 17 v 2000, roadside, *C. Vural* 1856.

Msph.

Syringa vulgaris L.

Çaybağları, 1100 m, 05 v 2001, on field hedge, *C. Vural* 3101.

Mcp.

ASCLEPIADACEAE

Cynanchum acutum L.

Soysallı, 1200 m, 16 v 2002, fieldside, *C. Vural* 3131.

Hcrp.

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

Beğendikbağları, 1180-1250, 23 vi 1997, steppe slope, *C. Vural* 1283.

Ir.-Tur. Hcrp.

V. tmoleum Boiss.

Karpuzseki, 1050 m, 17 v 2000, steppe, *C. Vural* 1817.

Ir.-Tur. Hcrp.

V. fuscatum (Hornem.) Rchb. subsp. *fuscatum*

Karpuzseki, 1050 m, 17 v 2000, rocky place, *C. Vural* 1172.

Hcrp.

CONVOLVULACEAE

Convolvulus lineatus L.

Above Soysallı, 1400-1700 m, 12 vi 1998, steppe, *C. Vural* 1704; road to Şeyhşaban, 2 km, 1320 m, 20 vi 2000, salty steppe, *C. Vural* 2311.

Widespread. Ch.

C. assyricus Griseb.

Beğendikbağları, 1400 m, 01 v 1996, steppe, *C. Vural* 1005.

Endemic. Ir.-Tur. LC. Ch.

C. arvensis L.

Above Soysallı, 1400-1700 m, 12 vi 1998, steppe, *C. Vural* 1720; Çaybağları, 1100 m, 01 ix 2000, fieldside, *C. Vural* 3001.

Widespread. Hcrp.

C. galaticus Rostan ex Choisy

Above Hisarcık, tree plantation area, 1800-1900 m, 04 vii 2000, open area of oak thicket, *C. Vural* 2587.

Endemic. Ir.-Tur. LC. Crp.

CUSCUTACEAE

Cuscuta campestris Yunck.

Hanyeriçiftliği, Karataş hills, 1030-1200, 26 vi 2000, on *Xanthium* sp., *C. Vural* 2517.

Vp.

C. europaea L.

Tekir Y. to Develi, 1400 m, 18 vii 2002, on *Vicia* sp., *C. Vural* 3441.

Vp.

BORAGINACEAE

Heliotropium europaeum L.

Above Yeni Sanayi, 1050 m, 04 viii 2000, steppe, *C. Vural* 2910.

E. Medit.? Th.

H. dolosum De Not.

Beğendikbağları, 1200 m, 23 vi 1997, slope, *C. Vural* 1268.

Th.

H. suaveolens M.Bieb.

Road to Şeyhşaban, 1320 m, 20 vi 2000, roadside, *C. Vural* 2318.

E. Medit.? Th.

Lappula barbata (M.Bieb.) Gürke

East of Sakarçiftliği, 1700-2200 m, 38°36. 311' N, 035°24. 132' E, 22 vi 2000, steppe, *C. Vural* 2395.

Ir.-Tur. Hcrp.

L. patula (Lehm.) Aschers. ex Gürke

Beğendikbağları, 1180-1240 m, 23 vi 1997, steppe, *C. Vural* 1272.

Ir.-Tur. Hcrp.

Rochelia disperma (L.) Wettst. var. *disperma*

Near Kulpak, 1134 m, 38°25. 580' N, 035°17. 973' E, steppe, *C. Vural* 1863.

Ir.-Tur. Th.

Asperugo procumbens L.

East of Hacilar, 1478 m, 38°37. 737' N, 035°24. 968' E, 06 v 2000, fieldside, *C. Vural* 1769; near Kiranardı, 1300-1500 m, 02 vi 2000, fieldside, *C. Vural* 1936.

Euro-Sib. Th.

Myosotis ramosissima Rochel ex Schult. subsp. *ramosissima*

Çaybağları, 1100-1200 m, 05 vi 2000, steppe, *C. Vural* 2070.

Th.

M. stricta Link ex Roem. & Schult.

Near Akçakaya, 1400 m, 30 v 2000, fieldside, *C. Vural* 1973.

Euro-Sib. Th.

M. minutiflora Boiss. & Reut.

Above Hisarcık, in valley, 1400 m, 20 v 1998, damp meadow, *C. Vural* 1599.

Medit. Th.

M. sylvatica Hoffm. subsp. *rivularis* Vesterggr.

Above Hisarcık, 1940 m, 14 vi 2000, damp meadow, *C. Vural* 2156; east of Sakarçiftliği, 1700-2200 m, 38°36. 311' N, 035°24. 132' E, 22 vi 2000, fieldside, *C. Vural* 2415.

Euro-Sib. Hcrp.

M. sicula Guss.

Above Hacilar, 2900 m, 11 vii 2002, stony steppe, *C. Vural* 3322.

Th.

M. alpestris F.W.Schmidt subsp. *alpestris*

Çaybağları, 1300 m, 28 vi 2000, fieldside, *C. Vural* 1161; above Şeytanderesi, 3000-3500 m, 18 viii 1997, steppe, *C. Vural* 1474.

Widespread. Crp.

M. diminuta Grau ex H.Riedl

Erciyes D., Tekir Y., 2200 m, *Zederbauer* (type); Tekir Y., 2200 m, 15 vii 1996, meadow, *C. Vural* 3318.

Ir.-Tur. EN. Th.

Paracaryum racemosum (Schreb.) Britten var. *racemosum*

Above Şeyhşaban, 1318 m, 38°30. 021' N, 035°17. 049' E, 14 v 2000, steppe, *C. Vural* 2284.

Hcrp.

P. longipes Boiss.

Above Soysallı, 1400-1700 m, 12 vi 1998, steppe, *C. Vural* 1628.

Endemic. Ir.-Tur. NT. Hcrp.

P. calycinum Boiss. & Balansa

Erciyes D., 1200 m, Balansa (syntype); Çaybağları, 1400 m, 22 v 1997, steppe, *C. Vural* 1231.

Endemic. Ir.-Tur. LC. Hcrp.

P. cappadocicum Boiss. & Balansa

East of Sakarçiftliği, 1700-2200 m, 38°36. 311' N, 035°24. 132' E, 22 vi 2000, steppe, *C. Vural* 2421.

Endemic. Ir.-Tur. LC. Hcrp.

P. stenolophum Boiss.

Akçakaya, 1350 m, 30 v 2000, steppe, *C. Vural* 1969.

Endemic. Ir.-Tur. LC. Hcrp.

Rindera lanata (Lam.) Bunge var. *lanata*

Çaybağları, 1300 m, 28 vi 2000, steppe, *C. Vural* 2573.

Ir.-Tur. Hcrp.

**Cynoglossum creticum* Mill.

Hanyeriçiftliği, Karataş hills, c. 1100 m, 38°40. 102' N, 035°16. 673' E, 25 vi 2000, streamside, under *Salix* sp., *C. Vural* 2532.

Hcrp.

Arnebia densiflora (Nordm.) Ledeb.

Above Develi, Perilikartın, 1900 m, 01 v 1996, rocky place, *C. Vural* 1015.

Ir.-Tur. Hcrp.

Buglossoides arvensis (L.) Johnston

Above Hisarcık, slope, 1200-1400 m, 20 v 1998, steppe, *C. Vural* 1584; above Soysallı, 1400-1700 m, 12 vi 1998, fieldside, *C. Vural* 1667.

Widespread. Th.

B. incrassata (Guss.) Johnston

West of Kepez, 1500 m, 25 iii 1998, streamside, *C. Vural* 1542.

Medit. Th.

Neotostema apulum (L.) Johnston

Çaybağları, 1100 m, 20 viii 2002, fieldside, *C. Vural* 3544.

Th.

Echium italicum L.

Beğendikbağları, 1200 m, 10 vii 1996, stony slope, *C. Vural* 1266; above Soysallı, 1400-1700 m, 12 vi 1998, steppe, *C. Vural* 1716.

Medit. Hcrp.

Moltkia coerulea (Willd.) Lehm.

Above Kulpak, 1450 m, 18 v 2000, steppe, *C. Vural* 1890.

- Ir.-Tur. Hcrp.
Onosma armenum DC.
 Hacilar to top of Erciyes, 1750 m, 20 viii 1997, steppe, *C. Vural* 1526.
 Endemic. Often found in areas of transition between
 Ir.-Tur. and Medit. regions. LC. Hcrp.
O. isauricum Boiss. & Heldr.
 East of Hisarcık, 1400 m, 22 v 1997, steppe, *C. Vural* 1199.
 Endemic. Ir.-Tur. LC. Hcrp.
O. albo-roseum Fisch. & C.A.Mey. subsp. **albo-roseum** var. **albo-roseum**
 Çaybağları, 1100-1200 m, 05 vi 2000, steppe, *C. Vural* 2051.
 Ir.-Tur. Hcrp.
O. ambigena Lacaita
 Above Soysallı, 1400-1700 m, 12 vi 1998, steppe, *C. Vural* 1718.
 Endemic. Ir.-Tur. LC. Hcrp.
Cerintho minor L. subsp. **auriculata** (Ten.) Domac
 Akçakaya, 1375 m, 38°39. 226' N, 035°34. 238' E, 30 v 2000, steppe, *C. Vural* 1957; east of Sakarçiftliği, 1700-2200 m, 38°36. 311' N, 035°24. 132' E, 22 vi 2000, steppe, *C. Vural* 2419.
 Hcrp.
Anchusa leptophylla Roem. & Schult. subsp. **leptophylla**
 Hisarcık to Hacilar, 1530-1600 m, 38°38. 055' N, 035°29. 106' E, 12 vii 2000, steppe, *C. Vural* 2734.
 Hcrp.
 subsp. **incana** (Ledeb.) Chamb.
 Kayseri to Hisarcık, 1150 m, 13 x 1996, roadside, *C. Vural* 1114; west side of Lifos D., 1700-1950 m, 03 vii 1997, steppe, *C. Vural* 1439.
 Endemic. Ir.-Tur. LC. Hcrp.
 *subsp. **tomentosa** (Boiss.) Chamb.
 Hisarcık, 1400 m, 22 v 1997, steppe, *C. Vural* 1185.
 Endemic. Ir.-Tur. LC. Hcrp.
A. arvensis (L.) M.Bieb.
 Soysallı, 1250 m, 19 v 1997, steppe, *C. Vural* 1139.
 Hcrp.
- A. aucheri** DC.
 Beğendikbağları, 1300 m, 10 vii 1996, rocky place, *C. Vural* 1009.
 Th.
Nonea pulla (L.) DC. subsp. **scabrisquamata** A.Baytop
 Above Kulpak, 1450 m, 18 v 2000, steppe, *C. Vural* 1892.
 Ir.-Tur. Hcrp.
 ***N. anchusoides** Boiss. & Buhse
 Above Şeyhşaban, 1450-1700 m, 38°30. 318' N, 035°18. 220' E, 16 vi 2000, steppe, *C. Vural* 2243b.
 Ir.-Tur. Hcrp.
N. stenolen Boiss. & Balansa
 Above Şeyhşaban, 1450-1700 m, 38°30. 318' N, 035°18. 220' E, 16 vi 2000, steppe, *C. Vural* 2243a.
 Endemic. Ir.-Tur. LC. Hcrp.
Alkanna orientalis (L.) Boiss. var. **orientalis**
 Çaybağları, 1300 m, 19 v 1997, steppe, *C. Vural* 1154; Hisarcık to Hacilar, 1300-1450 m, 18 viii 1997, steppe, *C. Vural* 1500.
 Ir.-Tur. Hcrp.
 var. **leucantha** (Bornm.) Hub. -Mor.
 Hisarcık to Hacilar, 1300-1450 m, 18 viii 1997, steppe, *C. Vural* 1501; above Hacilar 1700 m, 20 viii 1997, fieldside, *C. Vural* 1535.
 Endemic. Ir.-Tur. LC. Hcrp.
A. cappadocica Boiss. & Balansa
 Beğendikbağları, 1180-1240 m, 23 vi 1997, steppe, *C. Vural* 1329.
 Endemic. Ir.-Tur. LC. Hcrp.
- SOLANACEAE**
Solanum nigrum L. subsp. **nigrum**
 Beğendikbağları, 1300 m, 10 vii 1996, fieldside, *C. Vural* 1006.
 Cosmopolitan. Th.
S. dulcamara L.
 Çaybağları, 1150 m, 30 v 2001, on ruins, *C. Vural* 3036.
 Widespread. Hcrp.
- Lycopersicon esculentum** Mill.
 Çaybağları, 1100 m, 20 viii 2002, on field, *C. Vural* 3545.
 Cultivated (domates). Th.
Lycium anatolicum A.Baytop & R.R.Mill
 Near Karpuzseki, 1050-1100 m, 38°41. 512' N, 035°18. 920' E, 17 v 2000, rocky place, *C. Vural* 1792.
 Endemic. Ir.-Tur. LC. Nph.
Hyocyamus niger L.
 Near Karpuzseki, 1050-1100 m, 38°41. 512' N, 035°18. 920' E, 17 v 2000, rocky hill, *C. Vural* 1793.
 Widespread. Hcrp.
H. reticulatus L.
 Çaybağları, 1150 m, 09 v 2000, roadside, *C. Vural* 1771.
 Ir.-Tur. Hcrp.
- SCROPHULARIACEAE**
Verbascum wiedemannianum Fisch. & C.A.Mey.
 Soysallı, 1200 m, 14 vii 2000, steppe, *C. Vural* 3053.
 Endemic. Ir.-Tur. LC. Hcrp.
 ***V. subnivale** Boiss. & Hausskn.
 Çaybağları, 1100 m, 20 viii 2002, roadside, *C. Vural* 3546.
 Endemic. Ir.-Tur. VU. Hcrp.
V. helianthemoides Hub.-Mor.
 Şeyhşaban junction, 1092 m, 38°26. 824' N, 035°12. 608' E, 05 viii 2000, salty steppe, *C. Vural* 2920.
 Endemic. Ir.-Tur. VU. Hcrp.
 ***V. varians** Freyn & Sint. var. **varians**
 Akçakaya, 1375 m, 38°39. 226' N, 035°34. 238' E, 30 v 2000, steppe, *C. Vural* 1948.
 Hcrp.
V. cappadocicum Bornm.
 Hanyeriçiftliği, Karataş hills, 1100-1300 m, 38°40. 102' N, 035°16. 673' E, 25 vi 2000, streamside, under *Salix* sp., *C. Vural* 2533.
 Endemic. Ir.-Tur. LC. Hcrp.

- V. mucronatum** Lam.
East of Sakarcıftlığı, 1700-2200 m, 38°36. 311' N, 035°24. 132' E, 22 vi 2000, steppe, *C. Vural* 2353; Hisarcık to Hacılar, 1530-1600 m, 38°38. 055' N, 035°29. 106' E, 12 vii 2000, steppe, *C. Vural* 2735.
Medit. Hcrp.
- V. splendidum** Boiss.
South of Yılanlı D., 1180-1240 m, 23 vi 1997, steppe, *C. Vural* 1374.
Endemic. Medit. LC. Hcrp.
- V. lasianthum** Boiss. ex Benth.
Above Hisarcık, tree plantation area, 1800-1895 m, 38°36. 706' N, 035°30. 415' E, 04 vii 2000, steppe, *C. Vural* 2584; west of Lifos D., 1700-1950 m, 25 vii 2000, steppe, *C. Vural* 2838.
Hcrp.
- V. cheiranthifolium** Boiss. var. **cheiranthifolium**
Hisarcık to Hacılar, 1635 m, 38°37. 708' N, 035°29. 104' E, 12 vii 2000, steppe, *C. Vural* 2729; above Develi, 1695-1800 m, 38°27. 540' N, 035°29. 639' E, 20 vii 2000, steppe, *C. Vural* 2738.
Widespread. Hcrp.
var. **asperulum** (Boiss.) Murb.
Above Develi, Beşparmak D., 1800-2020 m, 38°28. 178' N, 035°29. 945', 21 vii 2000, steppe, *C. Vural* 2768.
Endemic. LC. Hcrp.
- Scrophularia scopolii** Hoppe ex Pers. var. **scopolii**
Above Hisarcık, 1940 m, 14 vi 2000, slope, *C. Vural* 2144.
Widespread. Hcrp.
- S. pulverulenta** Boiss. & Noe
Beğendikbağları, 1200 m, 23 vi 1197, steppe slope, *C. Vural* 1328.
Endemic. Ir.-Tur. LC. Hcrp.
- S. libanotica** Boiss. subsp. **libanotica** var. **libanotica**
North side of Lifos D., 1900 m, 10 vii 1997, damp soil, *C. Vural* 1018.
E. Medit. Hcrp.
var. **cappadocica** R.R.Mill
West of Ali D., 1300 m, 19 v 1997, steppe, *C. Vural* 1165; Hisarcık, 1800 m, 22 v 1997, on rock, *C. Vural* 1615.
Endemic. Ir.-Tur. LC. Hcrp.
- S. olympica** Boiss.
Above Tekir Y., 3000-3500 m, 08 viii 2000, steppe, *C. Vural* 3084.
Hcrp.
- S. xanthoglossa** Boiss.
Akçakaya, 1375 m, 38°39. 226' N, 035°34. 238' E, 30 v 2000, steppe, *C. Vural* 1961.
Ir.-Tur. Hcrp.
- S. striata** Boiss.
Above Şeytanderesi, 3000-3500 m, 18 viii 1997, steppe, *C. Vural* 1460.
Ir.-Tur. Hcrp.
- Anarrhinum orientale** Benth.
Çaybağları, 1100-1200 m, 05 vi 2000, steppe, *C. Vural* 2054.
Ir.-Tur. Ch.
- *Antirrhinum majus** L. subsp. **majus**
Beğendikbağları, 1200 m, 10 vii 1997, fieldside, *C. Vural* 1313; above Hisarcık, 1930 m, 14 vi 2000, damp slope, *C. Vural* 2135.
Ch.
- Chaenorhinum minus** (L.) Lange. subsp. **minus**
Above Develi, 1695-1800 m, 38°27. 540' N, 035°29. 639' E, 20 vii 2000, steppe, *C. Vural* 2749.
Th.
- Linaria genistifolia** (L.) Mill. subsp. **genistifolia**
West of Lifos D., Perilikartın, 2270 m, 38°35. 241' N, 035°27. 452' E, 25 vii 2000, rocky place, *C. Vural* 2869.
Euro-Sib. Hcrp.
subsp. **linifolia** (Boiss.) P.H.Davis
West of Lifos D., Perilikartın, 2270 m, 38°35. 241' N, 035°27. 452' E, 25 vii 2000, rocky place, *C. Vural* 2869.
Hcrp.
subsp. **polyclada** (Fenzl) P.H.Davis
Hacılar to top of Erciyes, 1600-2000 m, 20 viii 1997, steppe, *C. Vural* 1530; Çaybağları, 1300 m, 28 vi 2000, steppe, *C. Vural* 2558.
Endemic. Ir.-Tur. NT. Hcrp.
- L. corifolia** Desf.
South of Yılanlı D., 1180-1240 m, 23 vi 1997, steppe, *C. Vural* 1383; above Şeyhşaban, 1450-1700 m, 14 v 2000, fieldside, *C. Vural* 2288; Hisarcık, 1800 m, 04 vii 2000, under oak, *C. Vural* 2642.
Endemic. Ir.-Tur. LC. Hcrp.
- L. iconica** Boiss. & Heldr.
Above Hisarcık, tree plantation area, 1650-1758 m, 38°36. 819' N, 035°30. 586' E, 04 vii 2000, steppe, *C. Vural* 2643.
Hcrp.
- L. confertiflora** Benth.
West of Lifos D., Perilikartın, 2270 m, 38°35. 241' N, 035°27. 452' E, 25 vii 2000, steppe, *C. Vural* 2869.
Endemic. Ir.-Tur. LC. Hcrp.
- *L. simplex** (Willd.) DC.
Çaybağları, 1100 m, 17 v 2000, steppe, *C. Vural* 1826.
Widespread. Th.
- Limosella aquatica** L.
Erciyes D., 2900 m, 1902, *Penther & Zederbauer*.
Th.
- Veronica caespitosa** Boiss. var. **caespitosa**
Above Tekir Y., 2500 m, 16 vii 2002, steppe, *C. Vural* 3381.
Endemic. LC. Hcrp.
- V. gentianoides** Vahl.
Above Hisarcık, 1932 m, 38°35. 900' N, 035°30. 808' E, 15 vi 2000, steppe, *C. Vural* 2193.
Euro-Sib. (mt). Crp.
- V. serpyllifolia** L.
Above Hacılar, 2700-3100 m, 16 vi 2002, meadow, *C. Vural* 3338.
Ch.
- V. pusilla** Hohen. & Boiss. ex Benth. var. **pusilla**
Tekir Y., 2200 m, 16 vi 2002, wet meadow, *C. Vural* 3269.
Ir.-Tur. Th.

var. *erciyesdağı* (M.A.Fisch.) M.A.Fisch.
 Erciyes D., Tekir Y., 2200 m, 30 vi 1902, *Zederbauer* (type); Tekir Y., 2250 m, 08 vi 2002, wet meadow, *C. Vural* 3193.
 Ir.-Tur. Endemic. VU. Th.
V. balansae Stroh.
 Above Soysallı, 1400-1700 m, 12 vi 1998, steppe, *C. Vural* 1621b.
 Endemic. E. Medit. LC. Th.
V. praecox All.
 Hisarcık, 1350 m, 17 ii 1997, roadside, *C. Vural* 1120b.
 Th.
V. triphyllos L.
 Near Kıranardı, 1300 m, 10 iv 2002, roadside, *C. Vural* 3123.
 Widespread. Th.
V. biloba Schrb.
 East of Hacılar, 1300 m, 06 v 2000, fieldside, *C. Vural* 1749.
 Ir.-Tur. Th.
V. bornmuelleri Hausskn.
 Çaybağları, 1042 m, 38°40. 255' N, 035°15. 121' E, steppe, *C. Vural* 1832.
 Ir.-Tur. Th.
V. campylopoda Boiss.
 Above Kulpak, 1400-1450 m, 18 v 2000, steppe, *C. Vural* 1876.
 Ir.-Tur. Th.
V. polita Fries
 Hisarcık, 1350 m, 17 ii 1997, roadside, *C. Vural* 3122.
 Th.
V. hederifolia L.
 Tekir Y. to Develi, 1700 m, 01 iii 1998, rocky slope, *C. Vural* 1540.
 Th.
V. anagallis-aquatica L.
 Tekir Y., 2250 m, 38°32. 653' N, 035°32. 279' E, 19 viii 2000, streamside, *C. Vural* 2949.
 Hcrp.
V. beccabunga L.
 Tekir Y., 2150 m, 18 vii 2002, in water, *C. Vural* 3422.

Widespread. Crp.
V. thymoides P.H.Davis subsp. **pseudocinerea** M.A.Fisch.
 Near Kulpak, 1980 m, 25 v 2000, damp meadow, *C. Vural* 1895.
 Ir.-Tur. Ch.
V. macrostachya Vahl. subsp. **macrostachya**
 Above Hisarcık, 1400 m, 22 v 1997, steppe, *C. Vural* 1192.
 E. Medit. Ch.
V. orientalis Mill. subsp. **orientalis**
 South of Yılanlı D., 1180-1240 m, 23 vi 1997, steppe, *C. Vural* 1310.
 Euro-Sib. Ch.
V. multifida L.
 West side of Lifos D., 1950-2200 m, 03 vii 1997, steppe, *C. Vural* 1444.
 Endemic. Ir.-Tur. LC. Ch.
Euphrasia pectinata Ten.
 Above Tekir Y., 2294 m, 38°32. 653' N, 035°32. 279' E, 19 viii 2000, steppe, *C. Vural* 2952.
 Euro-Sib. Th.
E. juzepczukii Denissova
 Above Şeytanderesi, 3000-3500 m, 18 viii 1997, steppe, *C. Vural* 1451.
 Euro-Sib. Th.
Odontites aucheri Boiss.
 Hisarcık to Hacılar, 1530-1600 m, 38°38. 055' N, 035°29. 106' E, 12 vii 2000, steppe, *C. Vural* 2712.
 Ir.-Tur. Th.
O. glutinosa (M.Bieb.) Benth.
 Koç D., 2267 m, 38°30. 974' N, 035°31. 849' E, 21 viii 2000, steppe, *C. Vural* 2964.
 Th.
Pedicularis comosa L. var. **acmodonta** (Boiss.) Boiss.
 East of Sakaçiftliği, 1700-2200 m, 38°36. 311' N, 035°24. 132' E, 22 vi 2000, open area of *Populus tremula* forest, *C. Vural* 2409; Hisarcık, 1800 m, 04 vii 2000, under *Quercus* sp., *C. Vural* 2588.
 Hcrp.

Bungea trifida (Vahl.) C.A.Mey.
 Beğendikbağları, 1300 m, 10 vii 1996, rocky place, *C. Vural* 1010.
 Ir.-Tur. Ch.
OROBANCHACEAE
Cistanche salsa (C.A.Mey.) G.Beck
 Erciyes D., 1100 m, vi 1902, *Penther* & *Zederbauer*.
 Ir.-Tur. Vp.
Orobanche nana Noe ex G.Beck
 Kıranardı, 1400 m, 20 v 1997, on *Trifolium* sp., *C. Vural* 1177.
 Vp.
O. oxyloba G.Beck
 Above Hisarcık, tree plantation area, 1800-1895 m, 38°36. 706' N, 035°30. 415' E, 04 vii 2000, on *Anthemis* sp., *C. Vural* 2595.
 Vp.
O. coelestis Boiss. & Reut. ex Reut.
 Above Soysallı, 1400-1700 m, 12 vi 1998, on *Astragalus* sp., *C. Vural* 1638.
 Vp.
O. cilicica G.Beck
 Çaybağları, 1100 m, 20 viii 2002, fieldside, on *Vicia* sp., *C. Vural* 3519.
 Vp.
O. alba Stephan
 West of Lifos D., Perilikartın, 2095 m, 38°35. 490' N, 035°27. 698' E, on *Thymus* sp., *C. Vural* 2836.
 Vp.
O. minor Sm.
 North of Yılanlı D., 1130-1180 m, 23 vi 1997, on *Astragalus* sp., *C. Vural* 1305.
 Vp.
O. caryophyllacea Sm.
 Above Soysallı, 1400-1700 m, 12 vi 1998, on *Galium* sp., *C. Vural* 1717.
 Vp.
O. lutea Baumg.
 Hisarcık to Hacılar, 1635 m, 38°37. 708' N, 035°29. 104' E, 12 vii 2000, on *Astragalus*, *C. Vural* 2685.
 Vp.

- *O. elatior** Sutton
Above Hisarcık, in valley, 1940 m, 14 vi 2000, on *Centaurea*, *C. Vural* 2168.
Vp.
O. anatolica Boiss. & Reut. ex Reut.
Above Soysalli, 1400 m, 03 viii 2002, on *Salvia*, *C. Vural* 3500.
Vp.
- ACANTHACEAE**
Acanthus hirsutus Boiss.
Near Kiranardi, 1300-1500 m, 02 vi 2000, under *Quercus* sp., *C. Vural* 1992.
Endemic. LC. Hcrp.
- GLOBULARIACEAE**
Globularia trichosantha Fisch. & C.A.Mey.
Çaybağları, 1300 m, 19 v 1997, steppe, *C. Vural* 1148; west of Kepez, 1600 m, 25 iii 1998, slopy steppe, *C. Vural* 1554.
Ir.-Tur. Hcrp.
- LAMIACEAE (LABIATAE)**
Ajuga orientalis L.
Beğendikbağları, 1200 m, 10 vii 1996, stony slope, *C. Vural* 1017.
Crp.
A. chamaepitys (L.) Schrb. subsp. *chia* (Schrb.) Arcang. var. *chia*
Above Kulpak, 1400-1450m, 18 v 2000, steppe, *C. Vural* 1878; Güzelce, north of Beşdam hills, 1030-1100 m, 38°41. 495' N, 035°19. 403' E, 25 vi 2000, rocky place, *C. Vural* 2471.
Widespread. Hcrp.
var. *ciliata* Briq.
West side of Lifos D., 1700-1950 m, 03 vii 1997, steppe, *C. Vural* 1440.
Hcrp.
Teucrium orientale L. var. *orientale*
Çaybağları, 1300 m, 28 vi 2000, steppe, *C. Vural* 2559; Hisarcık to Hacılar, 1635 m, 38°37. 708' N, 035°29. 104' E, 12 vii 2000, fieldside, *C. Vural* 2701.
Ir.-Tur. Hcrp.
T. chamaedrys L. subsp. *chamaedrys*
West side of Lifos D., 1700-1950 m, 03 vii 1997, steppe, *C. Vural* 1425.
- Euro-Sib. Ch.
subsp. *sypsiense* (K.Koch) Rech.f.
Perilikartın, west of Lifos D., 2095 m, 38°35. 490' N, 035°27. 698' E, 25 vii 2000, steppe, *C. Vural* 2833.
Ir.-Tur. Ch.
T. polium L.
Above Hacılar 1700 m, 20 viii 1997, fieldside, *C. Vural* 1528; Çaybağları, 1300 m, 28 vi 2000, under *Quercus* sp., *C. Vural* 2567; east of Yeni Sanayi, 1050 m, 04 viii 2000. *C. Vural* 2899.
Ch.
Scutellaria rubicunda Hornem. subsp. *brevibracteata* (Stapf) Edmonds
Güzelce, north of Beşdam hills, 1030-1100 m, 38°41. 495' N, 035°19. 403' E, 25 vi 2000, rocky place, *C. Vural* 2471.
E. Medit. Hcrp.
***S. megalaspis** Rech.f.
Çaybağları, 1300 m, 28 vi 2000, steppe, *C. Vural* 2551.
Ir.-Tur. Hcrp.
S. salviifolia Benth.
Hisarcık, 1400 m, 22 v 1997, under oak, *C. Vural* 1229.
Endemic. LC. Hcrp.
S. orientalis L. subsp. *pinnatifida* Edmonds
Near Sarıgöl, Kolanlı D., 2450 m, 38°33. 784' N, 035°21. 221' E, 20 vi 2001, steppe, *C. Vural* 3045.
Ir.-Tur. Ch.
subsp. *alpina* (Boiss.) O.Schwarz var. *glandulosissima* O.Schwarz
Above Develi, 1700 m, tree plantation area, *C. Vural* 2748.
Endemic. NT. Ch.
Phlomis pungens Willd. var. *pungens*
Çaybağları, 1300 m, 28 vi 2000, open area of oak thicket, *C. Vural* 2561.
Widespread. Hcrp.
var. *hispida* Hub.-Mor.
Çaybağları, 1100 m, 20 viii 2002, steppe, *C. Vural* 3548.
Hcrp.
- P. armeniaca** Willd. x **P. nissolii** L.
Above Develi, 1695-1800 m, 38°27. 540' N, 035°29. 639' E, 20 vii 2000, steppe, *C. Vural* 2736; above Develi, 1700 m, 20 vii 2000, steppe, *C. Vural* 2740.
Endemic. Ir.-Tur. LC. Hcrp.
P. capitata Boiss.
Sarıgöl, near Kolanlı D., 1983 m, 38°34. 103' N, 035°20. 956' E, 20 vi 2001, steppe, *C. Vural* 3060.
Endemic. Ir.-Tur. LC. Hcrp.
P. sieheana Rech.f.
Above Şeyhşaban, 1450-1700 m, 14 v 2000, fieldside, *C. Vural* 2270.
Endemic. Ir.-Tur. LC. Hcrp.
P. linearis Boiss. & Balansa
Sarıgöl, near Kolanlı D., 1983 m, 38°34. 103' N, 035°20. 956' E, 20 vi 2001, steppe, *C. Vural* 3059; above Develi, 1700 m, 20 vii 2000, steppe, *C. Vural* 2772.
Endemic. Ir.-Tur. LC. Hcrp.
P. nissolii L.
Çayıözü-Kulpak road, 1200 m, 06 viii 2000, stony steppe, *C. Vural* 2928.
Endemic. Ir.-Tur. LC. Hcrp.
P. x bornmuelleri Rech.f.
Above Develi, 1690-1800 m, 20 vii 2000, steppe, *C. Vural* 2736.
Hcrp.
Lamium garganicum L. subsp. *reniforme* (Montbret & Aucher ex Benth.) R.R.Mill
Above Hisarcık, in valley, 1940 m, 14 vi 2000, steppe, *C. Vural* 2164.
Hcrp.
subsp. *rectum* (Schenk) R.R.Mill
Above Hisarcık, slope, 1200-1400 m, 22 v 1998, steppe, *C. Vural* 1612.
Hcrp.
subsp. *pulchurum* R.R.Mill
East of Sakarçiftliği, 1700-2200 m, 38°36. 311' N, 035°24. 132' E, 22 vi 2000, steppe, *C. Vural* 2386.
Endemic. E. Medit. (mt) NT. Hcrp.

- L. album** L.
West side of Lifos D., 1700-1950 m, 10 vii 1996, steppe, *C. Vural* 1013; near Tekir Y., 2200 m, 16 vii 2002, foot of rock, *C. Vural* 3397.
Euro-Sib. Hcrp.
- L. amplexicaule** L.
Şeyhşaban junction, 1100 m, 38°27. 319' N, 035°12. 555' E, 20 vi 2000, steppe, *C. Vural* 2337.
Euro-Sib. Th.
- L. macrodon** Boiss. & Huet.
Above Hisarcık, slope, 1200-1400 m, 20 v 1998, rocky place, *C. Vural* 1601.
Ir.-Tur. Th.
- L. purpureum** L. var. *purpureum*
Hisarcık, 1041 m, 38°40. 927' N, 035°16. 683' E, 17 v 2000, fieldside, *C. Vural* 1819.
Euro-Sib. Th.
- ***L. maculatum** L. var. *maculatum*
Above Hisarcık, 1932 m, 38°35. 900' N, 035°30. 808' E, 15 vi 2000, steppe, *C. Vural* 2137.
Euro-Sib. Hcrp.
- Wiedemannia orientalis** Fisch. & C.A.Mey.
Above Soysallı, 1400-1700 m, 19 iv 1996, steppe, *C. Vural* 1128; Çaybağları, 1300 m, 19 v 1997, roadside, *C. Vural* 1169; above Şeyhşaban, 1318 m, 38°30. 021' N, 035°17. 049' E, 14 v 2000, steppe, *C. Vural* 2281.
Endemic. Ir.-Tur. LC. Th.
- Ballota larendana** Boiss. & Heldr.
Hisarcık to Haclılar, 1635 m, 38°37. 708' N, 035°29. 104' E, 12 vii 2000, fieldside, *C. Vural* 2701.
Endemic. Ir.-Tur. LC. Hcrp.
- ***B. nigra** L. subsp. *kurdica* P.H.Davis
Güzelce, north of Beşdam hills, 1030-1100 m, 38°41. 495' N, 035°19. 403' E, 25 vi 2000, steppe, *C. Vural* 2480.
Ir.-Tur. Hcrp.
- Marrubium parviflorum** Fisch. & C.A.Mey. subsp. *parviflorum*
Hisarcık, 1400 m, 22 v 1997, steppe, *C. Vural* 1230.
Ir.-Tur. Hcrp.
- M. astracanicum** Jacq. subsp. *astracanicum*
Above Haclılar 1700 m, 20 viii 1997, fieldside, *C. Vural* 1524; above Develi, Beşparmak D., 1800-2020 m, 38°28. 178' N, 035°29. 945', 21 vii 2000, steppe, *C. Vural* 2783.
Hcrp.
- Sideritis lanata** L.
Above Soysallı, 1400-1700 m, 12 vi 1998, steppe, *C. Vural* 1679; Beğendikbağları, 1200 m, 15 vii 1996, fieldside, *C. Vural* 1027.
E. Medit. Th.
- S. montana** L. subsp. *montana*
Kıranardı, 1400 m, 22 v 1997, fieldside, *C. Vural* 1230.
Medit. Th.
- ***S. libanotica** Labill. subsp. *linearis* (Benth.) Bornm.
Above Develi, 1695-1800 m, 38°27. 540' N, 035°29. 639' E, 20 vii 2000, steppe, *C. Vural* 2745.
Endemic. LC. Hcrp.
- ***Stachys byzantina** K.Koch
Beğendikbağları, 1200 m, 23 vi 1997, stony slope, *C. Vural* 1285; above Soysallı, 1400-1700 m, 12 vi 1998, steppe, *C. Vural* 1637; Hisarcık, 1400 m, 04 vii 2000, under oak, *C. Vural* 2652.
Euro-Sib. Hcrp.
- S. setifera** C.A.Mey. subsp. *lycia* (Gand.) Bhattacharjee
Çaybağları, 1300 m, 28 vi 2000, steppe, *C. Vural* 2556.
Endemic. Ir.-Tur. LC. Crp.
- S. iberica** M.Bieb. subsp. *stenostachya* (Boiss.) Rech.f.
West side of Lifos D., 1700-1950 m, 03 vii 1997, steppe, *C. Vural* 1424.
Ir.-Tur. Ch.
- S. annua** (L.) L.
West side of Lifos D., 1700-1950 m, 03 vii 1997, steppe, *C. Vural* 1442; Akçakaya, 1375 m, 38°39. 226' N, 035°34. 238' E, 30 v 2000, steppe, *C. Vural* 1952; east of Sakarçiftliği, 1700-2200 m, 38°36. 311' N, 035°24. 132' E, 22 vi 2000, steppe, *C. Vural* 2374.
Widespread. Hcrp.
- Nepeta nuda** L. subsp. *albiflora* (Boiss.) Gams
Above Haclılar 1700 m, 20 viii 1997, fieldside, *C. Vural* 1520; near Kıranardı, 1300-1500 m, 02 vi 2000, roadside, *C. Vural* 1993; Çaybağları, 1300 m, 05 vi 2000, fieldside, *C. Vural* 2062.
Hcrp.
- N. stricta** (Banks & Sol.) Hedge & Lam. var. *curvidens* (Boiss. & Balansa) Hedge & Lam.
Soysallı, roadside, 1200 m, 19 iv 1995, *C. Vural* 1129.
Ir.-Tur. Hcrp.
- Lallemantia iberica** (M.Bieb.) Fisch. & C.A.Mey.
Above Hisarcık, slope, 1200-1400 m, 20 v 1998, meadow, *C. Vural* 1583; above Kulpak, 1500 m, 18 v 2000, fieldside, *C. Vural* 1984.
Ir.-Tur. Th.
- Prunella vulgaris** L.
Tekir Y., 2150 m, 18 vii 2002, wet meadow, *C. Vural* 3412.
Euro-Sib. Hcrp.
- Clinopodium vulgare** L. subsp. *arundanum* (Boiss.) Nyman.
Beğendikbağları, 1200 m, 23 vi 1997, stony slope, *C. Vural* 1403; Hisarcık, 1400 m, 22 v 1997, under oak, *C. Vural* 2629; Hisarcık to Haclılar, 1530-1600 m, 38°38. 055' N, 035°29. 106' E, 12 vii 2000, open area of oak thicket, *C. Vural* 2724.
Widespread. Hcrp.
- Acinos rotundifolius** Pers.
Lifos D., 1800 m, 01 v 1996, steppe, *C. Vural* 1012; Hisarcık, 1400 m, 20 v 1998, under oak, *C. Vural* 1604.
Th.
- Thymus argaeus** Boiss. & Balansa
Erciyes D., 10 vii 1856, Balansa (type); above Hisarcık, 1932 m, 38°35. 900' N, 035°30. 808' E, 15 vi 2000, steppe, *C. Vural* 2201; Çaybağları, 1300 m, 28 vi 2000, steppe, *C. Vural* 2536.
Endemic. Ir.-Tur. LC. Ch.

T. fallax Fisch. & C.A.Mey.

Beğendikbağları, 1180-1240 m, 23 vi 1997, steppe, *C. Vural* 1338; above Şeyhşaban, 1450-1700 m, 14 v 2000, rocky place *C. Vural* 2287.

Ir.-Tur. Ch.

T. sipyleus Boiss. subsp. *rosulans* (Borbás) Jalas

Beğendikbağları, 1130-1180 m, 23 vi 1997, steppe, *C. Vural* 1408.

Ch.

**T. longicaulis* C.Presl subsp. *longicaulis* var. *subisophyllus* (Borbás) Jalas

Above Develi, 1800 m, 20 vii 2000, tree plantation area, *C. Vural* 2750.

Ch.

Mentha longifolia (L.) Huds. subsp. *typhoides* (Briq.) Harley var. *typhoides*

Above Develi, 1695-1800 m, 38°27. 540' N, 035°29. 639' E, 20 vii 2000, wet place, *C. Vural* 2739.

Widespread. Crp.

M. spicata L. subsp. *spicata*

East of Sakarçiftliği, 1700-2200 m, 38°36. 311' N, 035°24. 132' E, 22 vi 2000, steppe, *C. Vural* 2422; Tekir Y., 2150 m, 18 vii 2002, wet meadow, *C. Vural* 2946.

Crp.

Ziziphora clinopodioides Lam.

West side of Lifos D., 1700-1950 m, 03 vii 1997, steppe, *C. Vural* 1447.

Ir.-Tur. Ch.

Z. capitata L.

Hisarcık, 1400 m, 22 v 1997, steppe, *C. Vural* 1227; above Soysallı, 1400-1700 m, 12 vi 1998, steppe, *C. Vural* 1664.

Ir.-Tur. Th.

Z. persica Bunge

Above Soysallı, 1600 m, 12 vi 1998, steppe, *C. Vural* 1647 & *Hırka*.

Ir.-Tur. Th.

Z. tenuior L.

Beğendikbağları, 1200 m, 24 vi 1997, stony slope, *C. Vural* 1360; Hisarcık to Hacılar, 1635 m, 38°37. 708' N, 035°29. 104' E, 12 vii 2000, fieldside, *C. Vural* 2708; near Şeyhşaban, 1400 m, 14 vi 2000, steppe, *C. Vural* 2285.

Ir.-Tur. Th.

Salvia recognita Fisch. & C.A.Mey.

Hisarcık, 1400 m, 22 v 1997, steppe, *C. Vural* 1203; Beğendikbağları, 1200 m, 23 vii 1997, stony slope, *C. Vural* 1373; Çaybağları, 1300 m, 28 vi 2000, steppe, *C. Vural* 2109.

Endemic. Ir.-Tur. LC. Hcrp.

S. bracteata Banks & Sol.

Above Soysallı, 1400-1700 m, 12 vi 1998, steppe, *C. Vural* 1706; Çaybağları, 1300 m, 05 vi 2000, roadside, *C. Vural* 2113.

Ir.-Tur. Widespread. Hcrp.

S. caespitosa Montbret & Aucher ex Benth.

Above Soysallı, 1400-1700 m, 12 vi 1998, steppe, *C. Vural* 1706.

Endemic. Ir.-Tur. LC. Hcrp.

S. multicaulis Vahl

Hisarcık, 1400 m, 26 v 2000, under oak, *C. Vural* 1925; above Kıranardı, 1650 m, 38°36. 605' N, 035°32. 181' E, 02 vi 2000, steppe, *C. Vural* 2030.

Ir.-Tur. Hcrp.

S. cryptantha Montbret & Aucher ex Benth.

Hisarcık, 1400 m, 22 v 1997, steppe, *C. Vural* 1235; near Kıranardı, 1300-1500 m, 02 vi 2000, under oak, *C. Vural* 1990.

Endemic. Ir.-Tur. LC. Hcrp.

S. syriaca L.

North of Develi, 1200 m, 01 vi 2002, fieldside, *C. Vural* 3135.

Ir.-Tur. Crp.

S. hypargeia Fisch. & C.A.Mey.

Near Kıranardı, 1300-1500 m, 22 v 1997, under oak, *C. Vural* 1183; Çaybağları, 1100-1200 m, 05 vi 2000, open area of oak thicket, *C. Vural* 2047.

Endemic. Ir.-Tur. LC. Hcrp.

**S. brachyantha* (Bordz.) Pobed.

Güzelce, north of Beşdam hills, 1030-1100 m, 38°41. 495' N, 035°19. 403' E, 25 vi 2000, steppe, *C. Vural* 2478.

Ir.-Tur. Hcrp.

S. sclarea L.

Above Hisarcık, in valley, 1940 m, 14 vi 2000, steppe, *C. Vural* 2169.

Hcrp.

S. microstegia Boiss. & Balansa

Hisarcık to Hacılar, 1635 m, 38°37. 708' N, 035°29. 104' E, 12 vii 2000, steppe, *C. Vural* 2699.

Ir.-Tur. Hcrp.

S. frigida Boiss.

Above Hisarcık, 1932 m, 38°35. 900' N, 035°30. 808' E, 15 vi 2000, damp slope, *C. Vural* 2130.

Ir.-Tur. Hcrp.

S. modesta Boiss.

Erciyes D., Çomaklı Çayı, 1700 m, 16 vi 1856, Balansa (type); above Sakarçiftliği village, Ortaseki, 1400-2200 m, 38°35. 852' N, 035°25. 967' E, 22 vi 2000, steppe, open area of oak thicket, *C. Vural* 2358.

Endemic. Ir.-Tur. VU. Ch.

S. candidissima Vahl subsp. *candidissima*

Çaybağları, 1300 m, 28 vi 2000, steppe, *C. Vural* 2553.

Ir.-Tur. Hcrp.

S. verticillata L. subsp. *amasiaca* (Freynt. & Bornm.) Bornm.

West side of Lifos D., 2000 m, 13 x 1996, steppe, *C. Vural* 1055; Beğendikbağları, 1200 m, 23 vii 1997, stony slope, *C. Vural* 1340; Hisarcık to Hacılar, 1635 m, 38°37. 708' N, 035°29. 104' E, 12 vii 2000, fieldside, *C. Vural* 2641.

Ir.-Tur. Hcrp.

S. russellii Benth.

Güzelce, north of Beşdam hills, 1030-1100 m, 38°41. 495' N, 035°19. 403' E, 25 vi 2000, steppe, *C. Vural* 2479.

Ir.-Tur. Hcrp.

PLUMBAGINACEAE

Plumbago europaea L.

Çayırözü to Kulpak, 1202 m, 38°26. 841' N, 035°19. 009' E, 06 viii 2000, roadside, *C. Vural* 2925.

Euro-Sib. Hcrp.

Limonium lilacinum (Boiss. & Balansa)
Wagenitz

Soysallı, 1050-1100 m, 05 vi 1997,
salty steppe, *C. Vural* 1259.

Endemic. Ir.-Tur. LC. Ch.

Acantholimon venustum Boiss.

Beğendikbağları, 1180-1240 m, 23 vi
1997, steppe, *C. Vural* 1412.

Ir.-Tur. Ch.

A. acerosum (Willd.) Boiss. var.
acerosum

Hisarcık to Hacılar, 1530-1600 m,
38°38. 055' N, 035°29. 106' E, 12 vii 2000,
steppe, *C. Vural* 2723, above Develi, 1700 m,
21 vii 2000, tree plantation area, *C. Vural*
2780.

Ir.-Tur. Ch.

A. caryophyllaceum Boiss. subsp.
caryophyllaceum

Lifos D., 1900 m, 10 vii 1996, steppe, *C.*
Vural 1014.

Ch.

**A. armenum* Boiss. & E.Huet var.
armenum

Above Hisarcık, slope, 1860 m, 38°36.
191' N, 035°30. 789' E, 28 vi 2000, *C. Vural*
2582.

Ir.-Tur. Ch.

A. kotschyi Boiss. subsp. *laxispicatum*
Bokhari

Above Hisarcık, tree plantation area,
1650-1758 m, 38°36. 819' N, 035°30. 586'
E, 04 vii 2000, steppe, *C. Vural* 2653.

Endemic. Ir.-Tur. VU. Ch.

A. caesareum Boiss. & Balansa

North side of Lifos D., 1800 m, 01 v
1996, steppe, *C. Vural* 1020.

Endemic. Ir.-Tur. LC. Ch.

A. ulicinum (Schult.) Boiss. subsp.
lycaonicum (Boiss. & Heldr.) Bokhari &
Edmonds

Koç D., 2267 m, 38°30. 974' N,
035°31. 849' E, 21 viii 2000, steppe, *C.*
Vural 2962.

Ir.-Tur. Ch.

PLANTAGINACEAE

Plantago major L. subsp. *intermedia*
(Gilib.) Lange

Tekir Y., 2250 m, 27 x 1996,
streamside, *C. Vural* 1080.

Widespread. Hcrp.

**P. crassifolia* Forssk.

Near Şeyhşaban, 1100 m, 38°27. 319'
N, 035°12. 555' E, 20 vi 2000, salty steppe,
C. Vural 2346.

VU. Hcrp.

P. maritima L.

Soysallı to Yeşilhisar, 1150 m, 18 viii
1997, salty steppe, *C. Vural* 1479.

Widespread. Hcrp.

P. atrata Hoppe

Above Tekir Y., 2294 m, 38°32. 653' N,
035°32. 279' E, 19 viii 2000, steppe, *C.*
Vural 2953.

Hcrp.

P. lagopus L.

East of Sakarcıftlığı, 1700-2200 23 vi
2000, steppe, *C. Vural* 2433.

Medit. Hcrp.

P. lanceolata L.

East of Sakarcıftlığı, 1700-2200 m,
38°36. 311' N, 035°24. 132' E, 22 vi 2000,
steppe, *C. Vural* 2397.

Widespread. Hcrp.

P. scabra Moench

Develi-Yeşilhisar, 1076 m, 26 vi 2003,
steppe, *C. Vural*, A. Aksoy (1836), M.Y.
Dadandı & G. Halıcı.

Widespread. Th.

THYMELAEACEAE

Daphne oleoides Schreb. subsp.
oleoides

Near Kiranardı, 1300-1500 m, 02 vi
2000, under *Quercus pubescens*, *C. Vural*
2010; above Hisarcık, 1932 m, 38°35. 900'
N, 035°30. 808' E, 15 vi 2000, steppe, *C.*
Vural 2180; Hisarcık to Hacılar, 1500 m, 12
vii 2000, fieldside, *C. Vural* 271; east of
Sakarcıftlığı, 1700-2200 m, 38°36. 311' N,
035°24. 132' E, 22 vi 2000, steppe, *C. Vural*
2369.

Ir.-Tur. Ch.

ELAEAGNACEAE

Elaeagnus angustifolia L.

Güzelce, north of Beşdam hills, 1030-
1100 m, 38°41. 495' N, 035°19. 403' E, 25
vi 2000, roadside, *C. Vural* 2481.

Widespread. Mcph.

SANTALACEAE

Thesium procumbens C.A.Mey.

Above Hisarcık, in valley, 1200-1400 m,
20 v 1998, steppe, *C. Vural* 1587.

Widespread. Nph.

LORANTHACEAE

Viscum album L. subsp. *album*

Develi, 01 iii 1998, slope, on *Crateagus*
meyeri, *C. Vural* 1540.

Vp.

subsp. *austriacum* (Wiesb.) Vollm.

Above Hacılar, 1850 m, 16 xi 2001, on
Pinus sylvestris, *C. Vural* 3113.

Vp.

EUPHORBIACEAE

Andrachne telephioides L.

Above Soysallı, 1400-1700 m, 12 vi
1998, steppe, *C. Vural* 1669.

Widespread. Hcrp.

**Euphorbia orientalis* L.

West of Kepez, 1600 m, 25 x 1996,
steppe slope, *C. Vural* 1075; above
Şeyhşaban, 1450-1700 m, 14 v 2000,
steppe, *C. Vural* 2269; Çaybağları, 1300 m,
28 vi 2000, steppe, *C. Vural* 2539.

Ir.-Tur. Hcrp.

E. szovitsii Fisch. & Mey var. *szovitsii*

Akçakaya, 1375 m, 38°39. 226' N,
035°34. 238' E, 30 v 2000, steppe, *C. Vural*
1982.

Ir.-Tur. Th.

E. arvalis Boiss. & Heldr.

Near Karpuzseki, 1050-1100 m, 17 v
2000, steppe, *C. Vural* 1807.

Ir.-Tur. Th.

E. taurinensis All.

Hisarcık, 1041 m, 38°40. 927' N,
035°16. 683' E, 17 v 2000, steppe, *C. Vural*
1820; Çaybağları, 1300 m, 17 v 2000,
steppe, *C. Vural* 1838.

Th.

- E. falcata* L. subsp. *falcata* var. *falcata*
Hanyeriçiftliği, Karataş hills, 1030-1200 m, 26 vi 2000, steppe, *C. Vural* 2525.
Widespread. Th.
- E. herniariifolia* Willd. var. *herniariifolia*
Above Develi, 1700 m, 27 x 1996, tree plantation area, *C. Vural* 1096; above Kıranardı, 1650 m, 38°36. 605' N, 035°32. 181' E, 02 vi 2000, steppe, *C. Vural* 2035.
Widespread. Hcrp.
- E. denticulata* Lam.
West of Kepez, 1700 m, 25 iii 1998, damp place, *C. Vural* 1560; above Haçlar, 1700 m, 06 v 2000, fieldside, *C. Vural* 1761.
Ir.-Tur. Hcrp.
- E. anacampseros* Boiss. var. *anacampseros*
Hisarcık, 1400 m, 22 v 1997, steppe, *C. Vural* 1208.
Endemic. LC. Hcrp.
- E. macroclada* Boiss.
Above Şeyhşaban, 1450-1700 m, 14 v 2000, fieldside, *C. Vural* 2269; Hanyeriçiftliği, Karataş hills, 1030-1200 m, 26 vi 2000, steppe, *C. Vural* 2523.
Ir.-Tur. Hcrp.
- **E. rigida* M.Bieb.
Akçakaya, 1375 m, 38°39. 226' N, 035°34. 238' E, 30 v 2000, steppe, *C. Vural* 1949; Çaybağları, 1100-1200 m, 05 vi 2000, steppe, *C. Vural* 2124.
Medit. Hcrp.
- E. macrostegia* Boiss.
Above Hisarcık, 1932 m, 38°35. 900' N, 035°30. 808' E, 15 vi 2000, steppe, *C. Vural* 2185.
Hcrp.
- **E. kotschyana* Fenzl
Above Hisarcık, 1932 m, 38°35. 900' N, 035°30. 808' E, 15 vi 2000, steppe, *C. Vural* 2191.
Medit. (mt). Hcrp.
- URTICACEAE**
- **Urtica pilulifera* L.
Çaybağları, 1100 m, 16 vii 2002, field, *C. Vural* 3394.
Medit. Th.

- U. dioica* L.
East of Sakarçiftliği, 1700-2200 m, 38°36. 311' N, 035°24. 132' E, 22 vi 2000, *C. Vural* 2402; Hisarcık to Kıranardı, 1431 m, 38°38. 836' N, 035°35. 253' E, 30 v 2000, steppe, *C. Vural* 1947; above Develi, 1700 m, tree plantation area, *C. Vural* 2755.
Widespread. Hcrp.
- Parietaria judaica* L.
Above Hisarcık, 1200-1400 m, 22 v 1998, foot of rock, *C. Vural* 1613; Çaybağları, 1300 m, 05 vi 2000, foot of rock, *C. Vural* 2100; Hisarcık to Haçlar, 1635 m, 38°37. 708' N, 035°29. 104' E, 12 vii 2000, foot of rock, *C. Vural* 2162.
Widespread. Hcrp.
- MORACEAE**
- Morus alba* L.
Çaybağları, 1400 m, 22 v 1997, field, *C. Vural* 1201.
Cultivated (beyaz dut). Msph.
- ULMACEAE**
- Ulmus minor* Mill. subsp. *minor*
Beğendikbağları, 1200 m, 10 vii 1996, fieldside, *C. Vural* 1007.
Msph.
- Celtis tournefortii* Lam.
Çaybağları, 1100-1200 m, 05 vi 2000, on field hedge, *C. Vural* 2069.
Mcp.
- C. glabrata* Planch.
Beğendikbağları, 1200 m, 10 vii 1996, fieldside, *C. Vural* 1008.
Mcp.
- JUGLANDACEAE**
- Juglans regia* L.
Near Kıranardı, 1300-1500 m, 02 vi 2000, fieldside, *C. Vural* 1987.
Cultivated (ceviz) Msph.
- PLATANACEAE**
- **Platanus orientalis* L.
Çaybağları, 1100-1300 m, 17 v 2000, fieldside, *C. Vural* 1844.
Widespread. Cultivated (çınar). Msph.

FAGACEAE

- Quercus robur* L. subsp. *robur*
Çaybağları, 1100-1200 m, 05 vi 2000, field hedge, *C. Vural* 2052; Çaybağları, 1300 m, 20 viii 2000, streamside, *C. Vural* 2972.
Euro-Sib. Mcph.
- Q. macranthera* Fisch. & C.A.Mey. ex Hohen. subsp. *sypirensis* (K.Koch) Menitsky
Hisarcık, valley east of the station, 1700 m, slope, *C. Vural* 2983.
Endemic. LC. Mcph.
- **Q. infectoria* Olivier subsp. *infectoria*
West of Kepez, 1950 m, 15 x 1996, rocky slope, *C. Vural* 1074.
Mcp.
- subsp. *boissieri* (Reut.) O.Schwarz
West of Kepez, 1950 m, 15 x 1996, rocky slope, *C. Vural* 1074.
Mcp.
- Q. pubescens* Willd.
West of Kepez, 1600 m, 15 x 1996, slope, *C. Vural* 1072; Hisarcık, 1800 m, 23 viii 2000, slope, *C. Vural* 2979; south of Ali D., 1400-1450 m, 38°38. 484' N, 035°33. 210' E, 10 ix 2000, slope, *C. Vural* 3013.
Mcp.
- Q. cerris* L. var. *cerris*
Above Şeyhşaban, 1450-1700 m, 14 v 2000, fieldside, *C. Vural* 2257, *M. Türktekin*; above Kulpak, 38°27.143' N, 35°20.211' E, 18 v 2000, slope, *C. Vural* 1883.
Medit. Msph.
- BETULACEAE**
- Betula pendula* Roth
West of Lifos D., Perilikartın, 2270 m, 38°35. 241' N, 035°27. 452' E, 25 vii 2000, rocky place, *C. Vural* 2844.
Mcp.
- SALICACEAE**
- **Salix pentandra* L.
Above Kıranardı, 1545 m, 38°37. 253' N, 035°32. 082' E, 02 vi 2000, streamside, *C. Vural* 2016.
Euro-Sib. Mcph.

S. alba L.

Hisarcık to Kıranardı, 1431 m, 38°38. 836' N, 035°35. 253' E, 30 v 2000, streamside, *C. Vural* 1941.

Euro-Sib. Msph.

S. excelsa J.F.Gmel.

Above Kıranardı, 1545 m, 38°37. 253' N, 035°32. 082' E, 02 vi 2000, streamside, *C. Vural* 2006.

Ir.-Tur. Mcph.

S. babylonica L.

Above Kıranardı, 1545 m, 02 vi 2000, fieldside, *C. Vural* 2015.

Cultivated (salkım söğüt). Msph.

***S. caprea L.**

Above Kıranardı, 1545 m, 38°37. 253' N, 035°32. 082' E, 02 vi 2000, streamside, *C. Vural* 2024.

Euro-Sib. Mcph.

Populus alba L.

Çaybağları, 1100 m, 20 viii 2002, field, *C. Vural* 3549.

Euro-Sib. Cultivated (akkavak). Msph.

P. tremula L.

Beğendikbağları, 1180-1240 m, 24 vi 1997, slope, *C. Vural* 1352; Hisarcık, 1900 m, 22 vi 2000, slope, *C. Vural* 1229; east of Sakarçiftliği, 1700-2200 m, 38°36. 311' N, 035°24. 132' E, 22 vi 2000, slope, *C. Vural* 2365; west side of Lifos D., 1700-1950 m, 03 vii 2000, rocky place, *C. Vural* 2845.

Euro-Sib. Mcph.

P. nigra L. subsp. nigra

Çaybağları, 1340 m, 11 v 2000, fieldside, *C. Vural* 1791.

Cultivated (kara kavak). Msph.

P. x canescens (Aiton) Sm.

Kıranardı, 1500 m, 02 vi 2000, fieldside, *C. Vural* 3553.

Cultivated (uzun kavak). Msph.

ANGIOSPERMAE

MONOCOTYLEDONES

BUTOMACEAE

Butomus umbellatus L.

Soysallı, 1050 m, 18 viii 1997, in water, *C. Vural* 1485.

Crp.

JUNCAGINACEAE

Triglochin palustris L.

Erciyes D., 2150 m, Sorger.

Crp.

POTAMOGETONACEAE

Potamogeton nodosus Poir.

Soysallı, 1050 m, 03 viii 2002, in water, *C. Vural* 3505a.

Hyd.

P. lucens L.

Soysallı, 1050 m, 03 viii 2002, in water, *C. Vural* 3505b.

Hyd.

P. pectinatus L.

Soysallı, 1050 m, 03 viii 2002, in water, *C. Vural* 3504.

Hyd.

Groenlandia densa Fourr.

Tekir Y., 2000-2300 m, 10 ix 2000, in water, *C. Vural* 3009.

Hyd.

ARACEAE

Arum elongatum Steven subsp. detruncatum (C.A.Mey. ex Schott) H.Riedl

Near Karpuzseki, 1050-1100 m, 38°41. 512' N, 035°18. 920' E, 17 v 2000, rocky hill, *C. Vural* 1795.

Crp.

A. conophalloides Kotschy ex Schott

Near Karpuzseki, 1050-1100 m, 38°41. 512' N, 035°18. 920' E, 17 v 2000, rocky hill, *C. Vural* 1796.

Crp.

LEMNACEAE

Lemna gibba L.

Güzelce, north of Beşdam hills, 1030-1100 m, 38°41. 495' N, 035°19. 403' E, 25 vi 2000, water surface, *C. Vural* 2472.

Hyd.

L. minor L.

Above Hacılar, 1850 m, 16 xi 2001, water surface, *C. Vural* 3110.

Hyd.

LILIACEAE

Asparagus officinalis L.

Çaybağları, 1100-1200 m, 05 vi 2000, under *Quercus pubescens*, *C. Vural* 2058; Güzelce, north of Beşdam hills, 1030-1100 m, 38°41. 495' N, 035°19. 403' E, 25 vi 2000, rocky place, *C. Vural* 2489.

Crp.

Eremurus spectabilis M.Bieb.

Above Hisarcık, 1940 m, 14 vi 2000, under *Quercus* sp., *C. Vural* 2158.

Ir.-Tur. Crp.

Asphodeline globifera J.Gay ex Baker

Above Develi, 1695-1800 m, 38°27. 540' N, 035°29. 639' E, 20 vii 2000, steppe, *C. Vural* 2758.

Medit. Crp.

Allium cepa L.

Çaybağları 1100 m, 20 viii 2002, fieldside, *C. Vural* 3553.

Cultivated (soğan). Crp.

A. paniculatum L. subsp. paniculatum

West of Lifos D., Perilikartin, 2270 m, 38°35. 241' N, 035°27. 452' E, 25 vii 2000, steppe, *C. Vural* 2858.

Medit. Crp.

***A. sibthorpiatum Schult. & Schult.f.**

Above Şeyhşaban, 1450-1600 m, 38°30. 318' N, 035°18. 200' E, 20 vi 2000, steppe, *C. Vural* 2324.

Endemic. LC. Crp.

A. tauricola Boiss.

Above Tekir Y., 2500-3000 m, 08 viii 2001, steppe, *C. Vural* 3070.

Endemic. LC. Ir.-Tur. Crp.

A. pseudoflavum Vved.

Near Şeyhşaban, 1400 m, 14 vi 2000, steppe, *C. Vural* 2300.

Ir.-Tur. Crp.

A. myrianthum Boiss.

South of Yılanlı D., 1180-1240 m, 23 vi 1997, steppe, *C. Vural* 1379.

Crp.

A. cappadocicum Boiss.

Between Hisarcık and Hacılar, 1300 m, 11 vii 2002, fieldside, *C. Vural* 3293.

Crp.

A. scorodoprassum L. subsp. **rotundum** (L.) Stearn

Beğendikbağları, 1200 m, 23 vi, 1997, steppe, *C. Vural* 1331; above Soysallı, 1400-1700 m, 12 vi 1998, steppe, *C. Vural* 1683; above Hacılar, 1700 m, 12 vii 2000, steppe, *C. Vural* 2664

Crp.

*subsp. **jajlae** (Vved.) Stearn

Above Hisarcık, 1900 m, 04 vi 2000, steppe, *C. Vural* 2617; west of Lifos D., Perilikartın, 2270 m, 38°35. 241' N, 035°27. 452' E, 25 vii 2000, steppe, *C. Vural* 2864.

Crp.

A. cristophi Trautv.

Erciyes D., near Kayak evi, 2135 m, *Linzee-Gorden*.

Ir.-Tur. VU. Crp.

Scilla ingridae Speta

Above Hisarcık, 07 iv 2001, streamside, damp soil, *C. Vural* 3027.

Medit. Crp.

Ornithogalum pyrenaicum L.

Şeyhşaban above, 1450-1700 m, 14 v 2000, fieldside, *C. Vural* 2256.

Crp.

O. sphaerocarpum A.Kern.

Hisarcık to Hacılar, 1300 m, 20 viii 1997, fieldside, *C. Vural* 1509; above Soysallı, 1700 m, 12 vi 1998, fieldside, *C. Vural* 1658.

Widespread. Crp.

O. narbonense L.

Above Hisarcık, slope, 1860 m, 38°36. 191' N, 035°30. 781' E, 28 vi 2000, steppe, *C. Vural* 2581.

Medit. Crp.

***O. arcuatum** Steven

Above Şeyhşaban, 1450-1700 m, 38°30. 318' N, 035°18. 220' E, 16 vi 2000, slope, shady, *C. Vural* 2226.

Crp.

***O. alpigenum** Stapf

Çaybağları, 1341 m, 38°39. 468' N, 035°31. 545' E, 11 v 2000, fieldside, *C. Vural* 1782; above Hisarcık, 1900 m, 26 v

2000, meadow, *C. Vural* 3139; east of Sakarcıftlığı, 1700 m, 22 vi 2000, steppe, *C. Vural* 2388.

Endemic. E. Medit. NT. Crp.

***O. armeniacum** Baker

Above Hisarcık, slope, 1200-1400 m, 20 v 1998, steppe, *C. Vural* 1586.

Crp.

Muscari comosum (L.) Mill.

Above Kulpak, 1400-1450 m, 18 v 2000, steppe, *C. Vural* 1874.

Crp.

M. armeniacum Leichtlin ex Baker

Çaybağları, 1100-1200 m, 11 v 2000, steppe, *C. Vural* 1786; above Hacılar, 2270 m, 25 v 2000, damp meadow, *C. Vural* 1909; above Hisarcık, valley east of the station, 1940 m, 38°35. 926' N, 035°30. 783' E, 25 v 2000, steppe, *C. Vural* 1907; Hisarcık to Kiranardı, 1430 m, 02 vi 2000, damp meadow. *C. Vural* 2046.

Widespread. Crp.

M. neglectum Guss.

Above Hisarcık, tree plantation area, 1890 m, 26 v 2000, steppe, *C. Vural* 1931; Hisarcık to Hacılar, 1600 m, 20 v 2000, steppe, *C. Vural* 2667.

Crp.

***M. bourgaei** Baker

Near Kulpak, 1988 m, 38°35. 442' N, 035°30. 242' E, 25 v 2000, damp meadow, *C. Vural* 1894.

Endemic. LC. Crp.

***Fritillaria armena** Boiss.

Above Hisarcık, in valley, 07 iv 2001, steppe, *C. Vural* 3031.

Endemic. Ir.-Tur. LC. Crp.

F. pinardii Boiss.

Beğendikbağları, 1900 m, 15 vii 1996, steppe, *C. Vural* 1046.

Ir.-Tur. Crp.

***Gagea gageoides** (Zucc.) Vved.

Tekir Y., 2250 m, 38°32. 432' N, 035°31. 900' E, 11 v 2000, damp meadow, *C. Vural* 1780.

Crp.

G. fistulosa Ker-Gawl.

Above Tekir Y., 2500-2700 m, 13 iv 1997, steppe, damp soil, *C. Vural* 1253.

Crp.

G. glacialis K.Koch

Hisarcık to Kiranardı, 1400 m, 22 v 1997, damp meadow. *C. Vural* 1124; Tekir Y., 2150 m, 13 iv 1997, damp meadow, *C. Vural* 1256; above Hisarcık, tree plantation area, 1130 m, 38°37. 148' N, 035°30. 801' E, damp meadow, *C. Vural* 1733.

Ir.-Tur. Crp.

***G. foliosa** Schult.f.

Above Tekir Y., 2191 m, 38°32. 432' N, 035°31. 900' E, 11 v 2000, damp meadow, *C. Vural* 1781.

Crp.

***G. peduncularis** Wall.

Çaybağları, 1100-1200 m, 13 iii 1997, steppe, *C. Vural* 1124; above Hisarcık, tree plantation area, 1130 m, 38°37. 148' N, 035°30. 801' E, steppe, *C. Vural* 1741.

Crp.

G. villosa Duby var. *villosa*

Above Hisarcık, tree plantation area, 1130 m, 38°37. 148' N, 035°30. 801' E, steppe, *C. Vural* 1740.

Medit. Crp.

var. **hermonis** Dafni & Heyn

Above Hisarcık, tree plantation area, 1130 m, 38°37. 148' N, 035°30. 801' E, steppe, *C. Vural* 1741.

Ir.-Tur. Crp.

Colchicum szovitsii Fisch. & C.A.Mey.

Çaybağları, 1100-1200 m, 19 v 1997, steppe, *C. Vural* 1154; Tekir Y., 2150 m, 13 iv 1997, damp meadow, *C. Vural* 1254; West of Kepez, 1700 m, 09 iv 1998, steppe, *C. Vural* 1579.

Ir.-Tur. Crp.

C. triphyllum Kunze

Çaybağları, 1100-1200 m, 23 ii 1997, steppe, *C. Vural* 1115; west of Kepez, 1700 m, 09 iv 1998, steppe, damp meadow, *C. Vural* 1580; above Soysallı, 1700 m, 12 vi 1998, fieldside, *C. Vural* 1717; Develi to Kızık, 5 km, roadside, 1400 m, 27 iii 2000, steppe, *C. Vural* 1729.

- Crp.
- IRIDACEAE**
- *Iris germanica** L.
Çaybağları, 1100 m, 20 viii 2002, fieldside, *C. Vural* 3550.
Cultivated (mor süsen). Crp.
- I. schachtii** Markgr.
Çaybağları, 1400 m, 20 v 1997, steppe, *C. Vural* 1251.
Endemic. Ir.-Tur. LC. Crp.
- I. caucasica** Hoffm.
Çaybağları, 1100-1200 m, 05 vi 2000, steppe, *C. Vural* 2105.
Crp.
- I. galatica** Siehe
Kıranardı, 1300 m, 27 iii 2000, steppe, *C. Vural* 1730.
Endemic. Ir.-Tur. LC. Crp.
- Crocus ancyrensis** Maw
Çaybağları, 1100-1200 m, 12 iii 1997, steppe, *C. Vural* 1127; west of Kepez, 1700 m, 09 iv 1998, damp soil, *C. Vural* 1576; above Hisarcık, tree plantation area, 1854 m, 38°36. 876' N, 035°30. 441' E, 27 iii 2000, damp meadow in valley, *C. Vural* 1731.
Endemic. Ir.-Tur. LC. Crp.
- C. chrysanthus** Herb.
Çaybağları, 1100-1200 m, 23 ii 1997, steppe, *C. Vural* 1116; west of Kepez, 1700 m, 09 iv 1998, damp soil, *C. Vural* 1581.
Crp.
- C. danfordiae** Maw
West of Kepez, 1700 m, 09 iv 1998, steppe, *C. Vural* 1575.
Endemic. LC. Crp.
- *Gladiolus anatolicus** (Boiss.) Stapf.
Above Kulpak, 1450m, 38°27. 143' N, 035°20. 221' E, 18 v 2000, steppe, *C. Vural* 1881.
Endemic. Medit. LC. Crp.
- ORCHIDACEAE**
- *Epipactis condensata** Boiss. ex D.P.Young
Beğendikbağları, 1500 m, 15 vii 1996, under *Populus tremula*, *C. Vural* 1028.
Crp.
- *Platanthera bifolia** (L.) Rich.
Above Hisarcık, tree plantation area, 1800-1895 m, 38°36. 706' N, 035°30. 415' E, 04 vii 2000, steppe, *C. Vural* 2630.
Crp.
- Orchis purpurea** Huds.
Erciyes D., 1600 m, 31 v 1859, *Kotschy*.
Euro-Sib. Crp.
- O. mascula** L. subsp. **pinetorum** (Boiss. & Kotschy) E.G.Camus
Above Hisarcık, valley east of the station, 1940 m, 38°35. 926' N, 035°30. 783' E, 25 v 2000, steppe, *C. Vural* 1900.
Crp.
- O. pallens** L.
West of Ali D., 1300 m, 19 v 1997, steppe, *C. Vural* 1156.
Euro-Sib. Crp.
- THYPHACEAE**
- Thypha latifolia** L.
Soysallı, 150 m, 03 viii 2002, in water, *C. Vural* 3485.
Widespread. Crp.
- JUNCACEAE**
- Juncus heldreichianus** T.Marsson ex Parl. subsp. **orientalis** Snogerup
Şeyhşaban junction, 1100 m, 38°27. 318' N, 035°12. 553' E, 20 vi 2000, roadside, *C. Vural* 2328.
Ir.-Tur. Crp.
- *J. maritimus** Lam.
Road to Şeyhşaban, 1100 m, 27 x 1996, salty steppe, *C. Vural* 1087.
Crp.
- J. inflexus** L.
Above Kıranardı, 1545 m, 38°37. 253' N, 035°32. 082' E, 02 vi 2000, fieldside, *C. Vural* 2007.
Hcrp.
- *J. effusus** L.
East of Tekir Y., c. 2380 m, 38°32. 632' N, 035°32. 658' E, 18 viii 2000, damp meadow, *C. Vural* 2937.
Widespread. Hcrp.
- J. compressus** Jacq.
Tekir Y., 2200 m, 08 vi 2002, wet meadow, *C. Vural* 3171.
Crp.
- J. articulatus** L.
Tekir Y., 2294 m, 38°32. 653' N, 035°32. 279' E, 19 viii 2000, wet meadow, *C. Vural* 2950.
Crp.
- Luzula spicata** (L.) DC.
Perilikartın, 2000 m, 01 vi 2002, damp meadow, *C. Vural* 3146; above Hisarcık, 1900 m, 16 v 2002, meadow, *C. Vural* 2146.
Hcrp.
- CYPERACEAE**
- *Juncellus pannonicus** (Jacq.) C.B.Clarke
Above Hisarcık, 1900 m, 16 v 2002, meadow, *C. Vural* 3139.
Crp.
- Eleocharis palustris** (L.) Roem. & Schult
Sarığöl, 2350 m, 38°32. 660' N, 035°22. 007' E, in water, *C. Vural* 3047.
Widespread. Crp.
- E. uniglumis** (Link) Schult
Tekir Y. to Koç D., 2267 m, 38°30. 974' N, 035°31. 849' E, 21 viii 2000, in water, *C. Vural* 2966.
Crp.
- Schoenoplectus lacustris** (L.) Palla subsp. **tabernaemontani** (C.C.Gmel.) A. & D.Löve
Soysallı, 1100 m, 05 viii 2002, streamside, *C. Vural* 3519.
Widespread. Crp.
- Blysmus compressus** Panz.
West of Kepez, 1600 m, 25 iii 1998, damp slope, *C. Vural* 1551.
Widespread. Crp.
- Carex oreophila** C.A.Mey.
West of Kepez, 1600 m, 25 iii 1998, damp slope, *C. Vural* 1550.
Ir.-Tur. Crp.

- *C. paniculata** L. subsp. *paniculata*
Above Hisarcık, 1400 m, 22 v 1997, streamside, *C. Vural* 1242a.
Crp.
- C. otrubae** Podp.
Hisarcık, 1400 m, 22 v 1997, streamside, *C. Vural* 1242b.
Hcrp.
- C. divisa** Hudson
Tekir Y., 2200 m, 08 vi 2002, wet meadow, *C. Vural* 3261.
Crp.
- C. ovalis** Gooden
Tekir Y., 2150 m, 18 vii 2002, wet meadow, *C. Vural* 3428.
Euro-Sib. Crp.
- C. hirta** L.
Above Kiranardı, 1650 m, 38°36. 605' N, 035°32. 181' E, 02 vi 2000, meadow, *C. Vural* 2038a.
Crp.
- *C. pseudocyperus** L.
Soysallı, 1100 m, 08 vi 2002, streamside, *C. Vural* 3217.
Crp.
- C. pallescens** L. var. *pallescens*
Soysallı, 1300 m, 03 viii 2002, wet meadow, *C. Vural* 3491.
Crp.
- C. nigra** Schkuhr subsp. *dacica* (Heuff.) Soo
Above Kiranardı, 1650 m, 38°36. 605' N, 035°32. 181' E, 02 vi 2000, meadow, *C. Vural* 2038b.
Crp.
- POACEAE (GRAMINEAE)**
- Elymus elongatus** (Host) Runemark subsp. *salsus* Melderis
Erciyes D., Develi, salty steppe, Siehe (type); Güzelce, Beşdam hills, 1100 m, 25 vi 2000, salty steppe, *C. Vural* 2467.
Endemic. VU. Ir.-Tur. Hcrp.
- Eremopyrum triticeum** (Gaertn.) Nevski
Near Şeyhşaban, 1400 m, 14 vi 2000, steppe, *C. Vural* 2307.
Th.
- Aegilops triuncialis** L. subsp. *triuncialis*
Hisarcık, 1400 m, 22 v 1997, steppe, *C. Vural* 1197.
Th.
- Triticum aestivum** L.
Develi to Soysallı, 1100 m, 12 vi 2002, roadside, *C. Vural* 3240.
Th.
- Secale cereale** L. var. *cereale*
West side of Lifos D., 1700-1950 m, 03 vii 1997, fieldside, *C. Vural* 1438.
Hcrp.
- var. *vavilovii* (Grossheim) Mayss.
Lifos D., 1800-1900 m, 16 vi 2001, fieldside, *C. Vural* 3066; Hacılar, 1600-2000 m, 20 viii 1997, steppe, *C. Vural* 1529.
Endemic. Hcrp.
- Leymus cappadocicus** (Boiss. & Balansa) Melderis
Road to Şeyhşaban, 1318 m, 20 vi 2000, salty steppe, *C. Vural* 2313.
VU. Crp.
- Hordeum murinum** L. subsp. *leporinum* (Link) Archer var. *leporinum*
Hisarcık, 1400 m, 22 v 1997, steppe, *C. Vural* 1211.
Th.
- H. bulbosum** L.
Güzelce, north of Beşdam hills, 1030-1100 m, 38°41. 495' N, 035°19. 403' E, 25 vi 2000, steppe, *C. Vural* 2468.
Widespread. Ch.
- Taeniatherum caput-medusae** (L.) Nevski subsp. *crintum* (Schreb.) Melderis
Çaybağları, 1300 m, 28 vi 2000, steppe, *C. Vural* 2569.
Ir.-Tur. Th.
- Bromus intermedius** Guss.
Tekir Y., 2200-2350 m, 08 vi 2002, steppe, *C. Vural* 3234.
Th.
- B. japonicus** Thunb. subsp. *anatolicus* (Boiss. & Heldr.) Penzes
Beğendikbağları, 1500 m, 15 vii 1996, steppe, *C. Vural* 1035.
E. Medit. Th.
- B. squarrosus** L.
Above Sakarçiftliği village, Ortaseki, 1400-2200 m, 38°35. 852' N, 035°25. 967' E, 22 vi 2000, open area of *Populus tremula* forest, *C. Vural* 2352.
Widespread. Th.
- B. scoparius** L.
Beğendikbağları, 1500 m, 15 vii 1996, steppe, *C. Vural* 1035.
Th.
- B. danthoniae** Trin.
Between Hisarcık and Hacılar, 1300 m, 08 vi 2002, fieldside, *C. Vural* 3286.
Th.
- B. tectorum** L.
East of Sakarçiftliği, 1700-2200 m, 38°36. 311' N, 035°24. 132' E, 23 vi 2000, steppe, *C. Vural* 2394; Çaybağları, 1100-1200 m, 05 vi 2000, steppe, *C. Vural* 1853.
Widespread. Th.
- B. cappadocicus** Boiss. & Balansa subsp. *cappadocicus*
East of Sakarçiftliği, 1700-2200 m, 38°36. 311' N, 035°24. 132' E, 22 vi 2000, steppe, *C. Vural* 2391.
Ir.-Tur. Hcrp.
- B. tomentellus** Boiss.
Çaybağları, 1100-1200 m, 05 vi 2000, steppe, *C. Vural* 2084.
Ir.-Tur. Crp.
- Avena sterilis** L. subsp. *sterilis*
Above Hisarcık, 1900 m, 22 v 2002, open area of oak thicket, *C. Vural* 3134.
Th.
- A. sativa** L.
Çaybağları, 1100 m, 20 viii 2002, field, *C. Vural* 3551.
Cultivated (yulaf). Th.
- Helictotrichon argaeum** (Boiss.) Parsa
Erciyes D., 1280 m, 09 vii 1856, Balansa (type); Beğendikbağları, 1200 m, 23 vi, 1997, steppe, *C. Vural* 1289.
Endemic. Ir.-Tur. LC. Ch.

Gaudiniopsis macra (M.Bieb.) Eig
subsp. *macra*

Above Hacilar, 2270 m, 25 vii 2000, rocky slopes, *C. Vural* 2852; above Hacilar, 1800 m, 25 vii 2000, foot of rock, *C. Vural* 3365.

Th.

**Trisetum rigidum* (M.Bieb.) Roem. & Schult.

Above Tekir Y., 2300 m, 30 vii 2002, steppe, *C. Vural* 3482.

Hcrp.

**T. thospiticum* Chrtek

Perilikartin, 2270 m, 25 vii 2000, rocky place, *C. Vural* 2852.

Hcrp.

T. turcicum Chrtek

South of Yılanlı D., 1180-1240 m, 23 vi 1997, steppe, *C. Vural* 1289.

Ir.-Tur. Hcrp.

Trisetaria loeflingiana (L.) Paunero

Tekir Y., 2150 m, 18 vii 2002, meadow, *C. Vural* 3455.

Euro-Sib. Th.

**Koeleria nitidula* Velen.

Tekir Y., 2150 m, 18 vii 2002, damp meadow, *C. Vural* 3456.

Crp.

K. cristata (L.) Pers.

Above Hisarcık, tree plantation area, 1650-1758 m, 38°36. 819' N, 035°30. 586' E, 04 vii 2000, steppe, *C. Vural* 2660.

Hcrp.

**Deschampsia caespitosa* (L.) P.Beauv.

East of Tekir Y., c. 2380 m, 38°32. 632' N, 035°32. 658' E, 18 viii 2000, steppe, *C. Vural* 2939; Tekir Y., 2150 m, 18 vii 2002, damp meadow, *C. Vural* 3457.

Widespread. Ch.

Calamagrostis epigejos (L.) Roth

Yeni Sanayi, 1090 m, 16 vii 2002, streamside, *C. Vural* 3366.

Euro-Sib. Crp.

**Apera spica-venti* (L.) P.Beauv.

Above Develi, 1700 m, 08 vi 2002, fieldside, *C. Vural* 3176.

Th.

A. intermedia Hack. apud *Zederbauer*

Erciyes D., Soysallı, Develi (1100 m), Çomaklı (1800 m), Göreme (1900 m) and Hacilar (2300 m) *Penther & Zederbauer* (type); Beğendikbağları, 1200 m, 23 vi 1997, steppe, *C. Vural* 1270.

Ir.-Tur. Th.

Agrostis olympica (Boiss.) Bor

Tekir Y., 2150 m, 18 vii 2002, wet meadow, *C. Vural* 3425; Tekir Y., 2150 m, 18 vii 2002, damp meadow, *C. Vural* 3431.

Euro-Sib. Hcrp.

A. capillaris L. var. *capillaris*

Above Hisarcık, 1930 m, 15 vi 2000, slope, *C. Vural* 2207.

Euro-Sib. Crp.

A. lazica Balansa

Tekir Y., 2150 m, 18 vii 2002, steppe, *C. Vural* 3431.

Euro-Sib. Crp.

Polypogon monspeliensis (L.) Desf.

Above Soysallı, 1400-1700 m, 12 vi 1998, steppe, *C. Vural* 1726.

Th.

**Gastridium phleoides* (Nees & Meyen) C.E.Hubb.

Beğendikbağları, 1100-1300 m, 25 vi 2000, steppe, *C. Vural* 2449.

Th.

**Milium vernale* M.Bieb. subsp. *vernale*

Beğendikbağları, 2000 m, 15 vii 1996, rocky place, *C. Vural* 1041.

Medit. Th.

Zingeria biebersteiniana (Claus) P.Smirn. subsp. *biebersteinian*

Above Hacilar, 2200-2700 m, 16 vi 2002, steppe, *C. Vural* 3316.

Ir.-Tur. Th.

Alopecurus arundinaceus Poir.

Above Hisarcık, slope, 1200-1400 m, 20 v 1998, steppe, *C. Vural* 1593; Karpuzseki, 1040 m, 17 v 2000, steppe, *C. Vural* 1814; Kiranardı, 1430 m, 30 v 2000, damp meadow, *C. Vural* 1944.

Euro-Sib. Crp.

A. vaginatus (Willd.) Boiss.

Above Şeytanderesi, 3000-3500 m, 18 viii 1997, steppe, *C. Vural* 1461.

Crp.

**A. aucheri* Boiss.

Above Tekir Y., 2370 m, 09 v 2000, steppe, *C. Vural* 1779.

Ir.-Tur. Crp.

**A. lanatus* Sm.

Above Hisarcık, slope, 1200-1400 m, 20 v 1998, steppe, *C. Vural* 1593.

Endemic. E. Medit. LC. Hcrp.

A. myosuroides Huds. var. *myosuroides*

Karpuzseki, 1040 m, 17 v 2000, steppe, *C. Vural* 1813.

Euro-Sib. Th.

Phleum alpinum L.

Above Hisarcık, 1930 m, 15 vi 2000, steppe, *C. Vural* 2199.

Euro-Sib. Crp.

P. pratense L.

Beğendikbağları, 1180-1240 m, 23 vi 1997, steppe, *C. Vural* 1286; Beğendikbağları, 1200 m, 23 vi, 1997, steppe, *C. Vural* 1324.

Ch.

**P. bertolonii* DC.

Above Hisarcık, tree plantation area, 1800-1895 m, 38°36. 706' N, 035°30. 415' E, 04 vii 2000, steppe, *C. Vural* 2625.

Hcrp.

P. montanum K.Koch subsp. *serrulatum* (Boiss.) Dogan

Beğendikbağları, 1180-1240 m, 23 vi 1997, steppe, *C. Vural* 1332.

Medit. Ch.

P. exaratum Griseb. subsp. *exaratum*

Güzelce, north of Beşdam hills, 1030-1100 m, 38°41. 495' N, 035°19. 403' E, 25 vi 2000, steppe, *C. Vural* 2466.

Widespread. Th.

**Festuca gigantea* (L.) Vill.

Above Hacilar, 2200-2700 m, 16 vi 2002, steppe, *C. Vural* 3303; above Hisarcık, 1900 m, 16 v 2002, meadow, *C. Vural* 3313.

- Ch.
***F. anatolica** Markgr.-Dann.
Above Hacılar, 2200-2700 m, 16 vi 2002, steppe, *C. Vural* 3312.
- Ch.
F. woronowii Hack. subsp. *argaea* Markgr.-Dann.
Erciyes D., c. 2300 m, 30 v 1902, *Zederbauer* (type); above Hisarcık, 2000 m, 22 v 1997, steppe, *C. Vural* 1190.
Endemic to Erciyes D. Ir.-Tur. LC. Ch.
F. cappadocica (Hack.) Markgr.-Dann.
Erciyes D., Tekir Y., c. 2200 m, 01 vii 1902, *Zederbauer* (type); above Şeytanderesi, 3000-3500 m, 18 viii 1997, steppe, *C. Vural* 1459.
Endemic. Ir.-Tur. LC. Ch.
F. cratericola Markgr.-Dann.
Erciyes D., c. 2900 m, 24 vii 1902, *Zederbauer* (type); above Şeytanderesi, 3000-3500 m, 18 viii 1997, steppe, *C. Vural* 1458.
Endemic to Erciyes D. Ir.-Tur. VU. Ch.
F. callieri (Hack. ex St.-Yves) Markgr. subsp. *zederbaueri* Markgr.-Dann.
Erciyes D., c. 1800 m, 12 vi 1902, *Zederbauer* (type); Hisarcık, 1400 m, 22 v 1997, steppe, *C. Vural* 1189.
Endemic. Ir.-Tur. LC. Hcrp.
Bellardiachloa argaea (Boiss. & Balansa) R.R.Mill
Erciyes D., 2200 m, 09 vii 1856, Balansa (type); above Hacılar, 2200-2700 m, 16 vi 2002, steppe, *C. Vural* 3203; Tekir Y., 2300 m, 18 vii 2002, damp meadow, *C. Vural* 3315; Tekir Y., 2300 m, 18 vii 2002, damp meadow, *C. Vural* 3314.
Endemic to Erciyes D. Ir.-Tur. VU. Hcrp.
Lolium perenne L.
Between Hisarcık and Hacılar, 1300 m, 16 vi 2002, fieldside, *C. Vural* 3279.
Hcrp.
***L. rigidum** Gaudin var. *rigidum*
Near Yılanlı D., 1180-1240 m, 23 vi 1997, steppe, *C. Vural* 1333.
Th.
- Vulpia ciliata** Dumort. subsp. *ciliata*
Soysallı to Şeyhşaban, 1150 m, 08 vi 2002, roadside, *C. Vural* 3155.
Th.
- Poa annua** L.
Beğendikbağları, 1180-1240 m, 23 vi 1997, steppe, *C. Vural* 1281; Tekir Y., 2200 m, 18 vii 2002, damp meadow, *C. Vural* 3262; Tekir Y., 2150 m, 18 vii 2002, damp meadow, *C. Vural* 3409.
Th.
- P. supina** Baumg.
Beğendikbağları, 1180-1240 m, 24 vi 1997, steppe slope, *C. Vural* 1347.
Euro-Sib. Hcrp.
P. trivialis L.
Tekir Y., 2200 m, 12 vi 2002, *C. Vural* 3233.
Ch.
- P. pratensis** L.
South of Yılanlı D., 1180-1240 m, 24 vi 1997, under *Quercus pubescens*, *C. Vural* 1356.
Crp.
- P. angustifolia** L.
Beğendikbağları, 1100-1300 m, 25 vi 2000, steppe, *C. Vural* 2452.
Crp.
- P. cenisia** All.
Öksüzdere, 1800-2400 m, 22 vii 2000, steppe, *C. Vural* 2791.
Crp.
- P. sterilis** M.Bieb.
Above Hisarcık, 1932 m, 38°35. 900' N, 035°30. 808' E, 15 vi 2000, steppe, *C. Vural* 2196.
Ch.
- P. alpina** L.
Above Hisarcık, 1800-1900 m, 16 vi 2001, steppe, *C. Vural* 3065.
Ch.
- P. bulbosa** L.
Çaybağları, 1100 m, 38°40. 255' N, 035°15. 121' E, steppe, *C. Vural* 1839.
Ch.
- Eremopoa songorica** (Schrenk) Roshev.
Soysallı, 1100 m, 08 vi 2002, streamside, *C. Vural* 3170.
Ir.-Tur. Th.
- Catabrosa aquatica** P.Beauv.
Soysallı, 1100 m, 10 vi 2002, streamside, *C. Vural* 3219; Tekir Y., 2150 m, 18 vii 2002, damp meadow, *C. Vural* 3417; Tekir Y., 2150 m, 18 vii 2002, damp meadow, *C. Vural* 3429.
Widespread. Crp.
- Puccinellia koeieana** Melderis subsp. *anatolica* Kit Tan
Develi to Soysallı, 1150 m, salty steppe, *C. Vural* 3166.
Endemic. LC. Hcrp.
P. bulbosa Grossheim subsp. *caesarea* Kit Tan
Soysallı to Yeşilhisar, 1100 m, 10 vi 2002, salty steppe, *C. Vural* 3222.
Endemic. CR. Crp.
- Sclerochloa dura** (L.) P.Beauv.
Above Hisarcık, 1900 m, 01 vi 2002, meadow, *C. Vural* 3138.
Euro-Sib. Th.
- Dactylis glomerata** L. subsp. *hispanica* (Roth) Nyman
West of Lifos D., 2095 m, 38°35. 490' N, 035°27. 698' E, 25 vii 2000, steppe, *C. Vural* 2837.
Crp.
- Melica ciliata** L. subsp. *ciliata*
Hanyeriçiftliği, Karataş hills, c. 1100 m, 38°40. 102' N, 035°16. 673' E, 25 vi 2000, steppe, *C. Vural* 2499.
Widespread. Crp.
- Nardus stricta** L.
Tekir Y., 2150 m, 18 vii 2002, steppe, *C. Vural* 3427.
Euro-Sib. Hcrp.
- Stipa capillata** L.
Beğendikbağları, 1180-1240 m, 23 vi 1997, steppe, *C. Vural* 1287.
Hcrp.
- S. holosericea** Trin.
Çaybağları, 1100-1200 m, 02 vi 2000, steppe, *C. Vural* 2129; above Develi, 1600 m, 05 v 2002, steppe, *C. Vural* 3248.

Ir.-Tur. Ch.

S. pontica P. Smirn.

Beğendikbağları, 1180-1240 m, 23 vi 1997, steppe, *C. Vural* 1288.

Ch.

S. pulcherrima K.Koch subsp. **crassiculmis** (P.Smirn.) Tzvelev

Above Develi, Beşparmak D., 1800-2020 m, 38°28. 178' N, 035°29. 945', 21 vii 2000, steppe, *C. Vural* 2767.

Ch.

Piptatherum holciforme Roem. & Schult. subsp. **holciforme** var. **holciforme**

Beğendikbağları, 1200 m, 23 vi, 1997, steppe, *C. Vural* 1291; Çaybağları, 1300 m, 28 vi 2000, steppe, *C. Vural* 2566.

Ch.

Phragmites australis (Cav.) Trin. ex Steud.

West of Yılanlı D., 1054 m, 38°42. 355' N, 035°21. 243' E, 04 viii 2000, near water, *C. Vural* 2914.

Crp.

Aeluropus litoralis Parl.

Road to Şeyhşaban, 1320, m, 20 vii 2000, salty steppe, *C. Vural* 2310; Şeyhşaban junction, 1100 m, 38°27. 319' N, 035°12. 555' E, 20 vi 2000, steppe, *C. Vural* 2338.

Crp.

Cynodon dactylon (L.) Pers. var. **villosus** Regel

Beğendikbağları, 1100 m, 23 vi, 1997, steppe, *C. Vural* 1905; Çaybağları, 1100 m, 01 ix 2000, steppe, *C. Vural* 2996.

Crp.

Echinochloa crus-galli (L.) P.Beauv.

Above Tekir Y., 2200 m, 16 vii 2002, steppe, *C. Vural* 3408.

Th.

Setaria verticillata (L.) P.Beauv. var. **ambigua** (Guss.) Parl.

Çaybağları, 1100 m, 01 ix 2000, steppe, *C. Vural* 2997.

Th.

Chrysopogon gryllus (L.) Trin. subsp. **gryllus**

Beğendikbağları, 1200 m, 23 vi 1997, steppe, *C. Vural* 1377; above Hisarcık, 1940 m, 14 vi 2000, meadow, *C. Vural* 2224; Hisarcık to Hacılar, 1635 m, 38°37. 708' N, 035°29. 104' E, 12 vii 2000, steppe, *C. Vural* 2690.

Widespread. Hcrp.

Zea mays L.

Çaybağları, 1100 m, 20 viii 2002, field, *C. Vural* 3552.

Cultivated (mısır). Th.