

Flora of Kumalar Mountain (Afyon)*

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Abstract: This study was carried out to determine the flora of Kumalar Mountain (Afyon) which is located in the transition zone between the Aegean and Central Anatolia. After the evaluation of 2204 plant specimens collected from the research area between 1996 and 2001, 89 families, 388 genera and 898 taxa were identified. Thirty-two taxa are cultivated and the rest are native. The number of endemic taxa is 122 (14.1%). The phytogeographic elements represented in the study area are as follows: Irano-Turanian 133 (15.4%), Mediterranean 99 (11.4%) and Euro-Siberian 73 (8.4%). The remaining 561 (64.8%) taxa belong to a few phytogeographic regions or are widespread. The life forms of the taxa are determined according to Raunkiaer. Twenty-eight taxa show variations not reported in the Flora of Turkey. These variations are presented in the appendix.

Key Words: Flora, Kumalar Mountain, Afyon, Turkey

Kumalar Dağı (Afyon) Florası

Özet: Bu çalışma Ege-İç Anadolu Bölgesi geçiş zonunda bulunan Kumalar Dağı (Afyon) florasını tespit etmek için yapılmıştır. Araştırma alanından 1996-2001 yılları arasında toplanan 2204 bitki örneğinin değerlendirilmesi sonucu 89 familya, 388 cins ve bu cinslere ait 898 tür ve tür altı seviyede takson belirlenmiştir. 32 takson kültür, diğerleri ise doğaldir. Endemik tür sayısı 122 (% 14.1)'dır. Araştırma alanında fitocoğrafik elementlerin dağılımı şöyledir: İran-Turan 133 (% 15.4), Akdeniz 99 (% 11.4) ve Avrupa-Sibirya 73 (% 8.4). Geri kalan 561 (% 64.8) takson geniş yayılışı veya birkaç fitocoğrafik bölgeye aittir. Taksonların hayat formları Raunkiaer'in sistemine göre belirlenmiştir. 28 takson Türkiye Florasında belirtilmeyen varyasyonlar gösterir. Bu varyasyonlar floristik liste içinde sunulmuştur.

Anahtar Sözcükler: Flora, Kumalar Dağı, Afyon, Türkiye

Introduction

Kumalar mountain is geographically located in the transitional zone of the Aegean-Central Anatolia regions within Afyon province. The study area is located between lat 38°7'N and 38°35'N, and 30°10'E and 30°41'E. The study area, which is 60 km long and 10-40 km wide, lies in the direction of Afyon, Sandıklı and Dinar, and divides Afyon territory into two large districts from north to south. The study area is surrounded in the west by Sandıklı plain, in the south by Dombayova, Gülovası and Çamurova, and in the east by Şuhut plain (Figure 1). According to Davis (1965), the area is in the transition zone of the Mediterranean and Irano-Turanian phytogeographic regions. According to the grid square system used in the Flora of Turkey, the study area is

located in square B3. The altitude of the area is 1100 m at Şuhut, 1070 m at Sandıklı and 2247 m at the summit of Kilimatan hill.

The geological structure of the study area is formed by volcanic, sedimentary and metamorphic rocks. The metamorphic rocks have volcanic and sedimentary origins. The geological structure of the area is represented by four formations: Akdağ limestone formation, Eosen Yeniköy formation, Oligosen conglomerate formation and Sandıklı neocene formation (Öngür, 1971; Metin, 1987).

There are six large soil groups in the study area: colluvial soils (in the east, west and south slopes of Kumalar mountain, and especially in the agricultural areas of Sandıklı and Şuhut plains), brown forest soils (around

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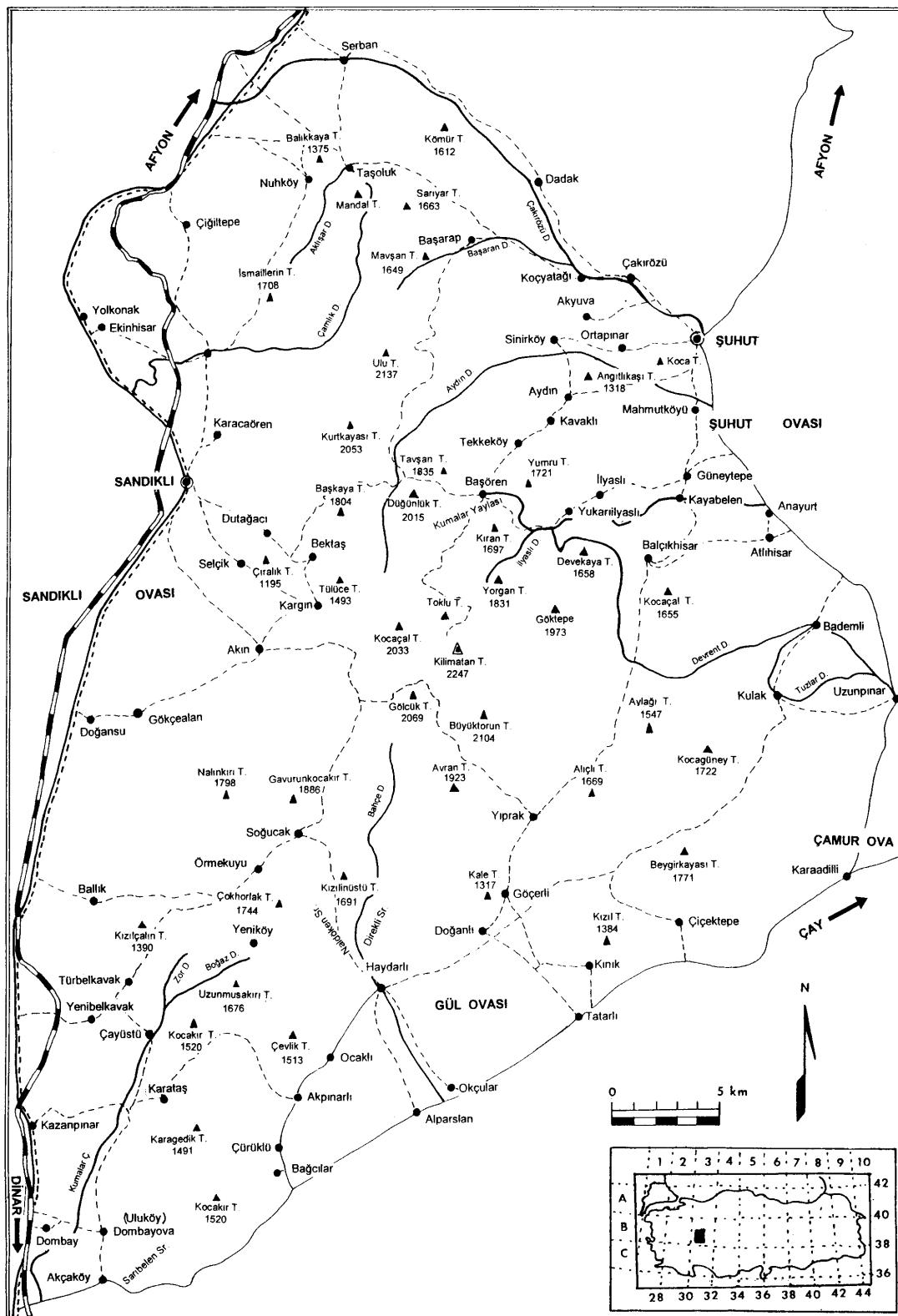


Figure 1. Geographic map of the study area

Taşoluk, Balçıkhisar, Ballık and Soğucak villages), non-calcareous brown forest soils (around Mahmütköy, Güneytepe and Kayabelen villages), alluvial soils (around Gülovası, Dombayova, Serban, Çakırözü, Ortapınar and Aydin villages), brown soils (around Sandıklı and Karacaören villages in a small area), red-brown soils (locally on Kömür and Mavşan hills), and red-brown Mediterranean soils (between Dadak village and the town of Taşoluk in a small area) (TKB, 1972; KHGM, 1994).

The study area is influenced by a Mediterranean climate. The average annual temperature is 11.1 °C in Afyon, 17.4 °C in Şuhut and 19.1 °C in Dinar. The total rainfall per year is 434.4 mm in Afyon, 360.6 mm in Şuhut and 461.2 mm in Dinar (DMİ, 1990). The rainfall regime is "East Mediterranean Rain Regime Type II" in Afyon, and "East Mediterranean Rain Regime Type I" in Şuhut and Dinar. According to Emberger's Mediterranean bioclimate layers classification, Afyon and Şuhut are "semi-arid, very cold", and Dinar is "semi-arid, cold in winter" (Akman, 1990). The climate diagrams were drawn using Walter's (1958) method (Figures 2 and 3). For a better understanding of the climate of the area a climate diagram is given for Kilimatan hill using extrapolation accounts (Figure 4). Kilimatan hill, which is

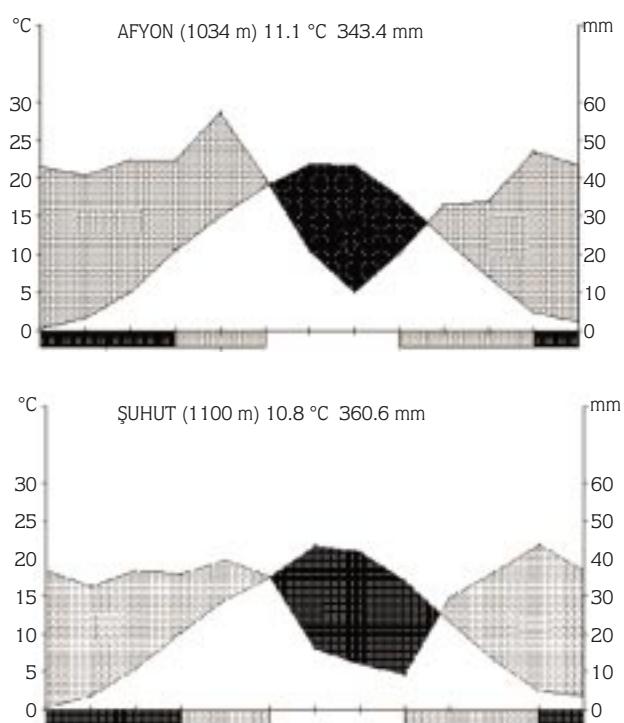


Figure 2. Climate diagrams of Afyon and Şuhut.

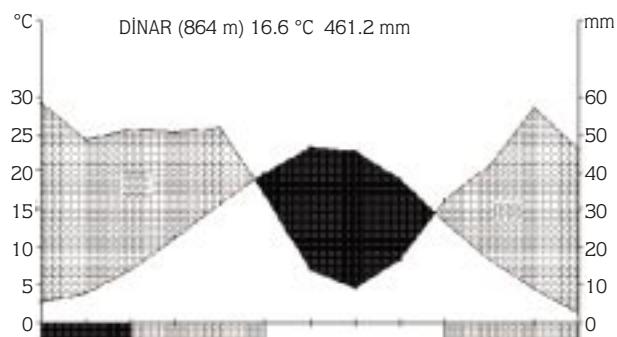


Figure 3. Climate diagram of Dinar.

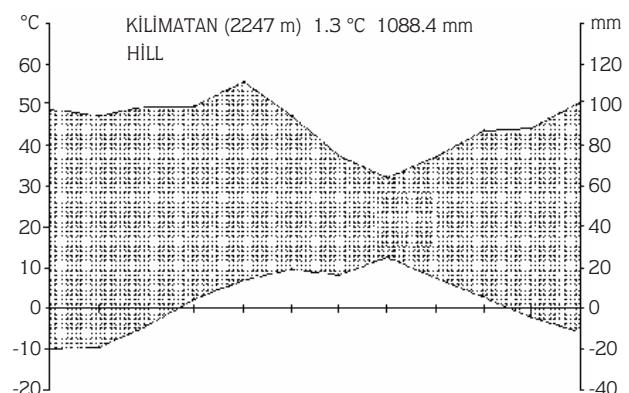


Figure 4. Climate diagram of Kilimatan hill.

higher than the other stations, has extreme rainfall and temperature averages.

Four different vegetation types occur in the study area: forest, steppe, rock and swamp-pasture. The general character of the area is forest-steppe transition vegetation. The plants of a vast part of the mountain chain were destroyed, but the 10-20% of the area are covered by *Quercus pubescens* Willd., *Pinus nigra* J.F.Arnold subsp. *nigra*, *Quercus cerris* L. var. *cerris* in a scattered form, *Quercus vulcanica* [Boiss. & Heldr. ex] Kotschy in and around Şuhut and in the southern part of the area very few *Pinus brutia* Ten. On the other hand, in the area, commonly seen *Cistus laurifolius* L. bushes and rarely seen *Juniperus foetidissima* Willd. remains show the regressive development of *Pinus nigra* subsp. *nigra* in Central Anatolia. The result of this retransformation, steppe vegetation's characterizer *Astragalus microcephalus* Willd., where *Cistus laurifolius* L. was destructured, and a regional endemic *Astragalus flavescens* Boiss. form the common steppe associations of the area.

Steppe vegetation is the most commonly found type in the area. The most dominant species of this vegetation type are *Verbascum phrygium* Bornm., *Astragalus flavescens* Boiss., *Astragalus troleus* Boiss., *Festuca valesiaca* Schleich. ex Gaudin, *Verbascum krauseanum* Murb., *Festuca paphlagonica* (St.-Yves) Markgr.-Dann. subsp. *paphlagonica*, *Festuca cyllenica* Boiss. & Heldr. subsp. *uluana* Markgr.-Dann. and *Daphne oleoides* Schreb. subsp. *oleoides* at altitudes between 1200 and 2200 m.

Forest vegetation is found between 1100 and 1600 m, and is represented by *Quercus cerris* L. var. *cerris*, *Q. pubescens* Willd., *Q. vulcanica* [Boiss. & Heldr. ex] Kotschy, *Cistus laurifolius* L., *Pinus nigra* subsp. *nigra*, *Juniperus oxycedrus* L. subsp. *oxycedrus* and *J. foetidissima* Willd.

Rocky vegetation occurs between 1500 and 2000 m. The most dominant species of rocky vegetation include *Cystopteris fragilis* (L.) Bernh., *Dryopteris pallida* (Bory) Fomin subsp. *pallida*, *Putoria calabrica* (L.f.) DC., *Micromeria cristata* (Hampe) Griseb. subsp. *phrygia* and *Arabis caucasica* Willd. subsp. *brevifolia* (DC.) Cullen.

Swamp and pasture vegetation is seen in irrigated fields and the Akören and Karamık swamps at altitudes between 1000 and 1200 m. Some dominant species of swamp and pasture vegetations are *Carex distans* L., *Scirpoidea holoschoenus* (L.) Soják, *Butomus umbellatus* L., *Typha domingensis* Pers., *Juncus inflexus* L. and *Polygonum amphibium* L.

Materials and Methods

This paper is based on a Ph D thesis. 2204 specimens were collected between 1996 and 2001. They were dried by means of well-known herbarium methods. The specimens were identified at the family, generic and species level according to the Flora of Turkey (Davis, 1965-1985; Davis et al., 1988; Güner et al., 2000). In some cases, other references (Aytaç, 1997; Boissier, 1867-1888; Duman et al., 1995; Kaynak et al., 1996; Komarov, 1949; Townsend & Guest, 1966-1985; Tutin et al., 1964-1980; Rechinger, 1965-1977; Zohary, 1966-1986) were used for identification.

A list of the flora is given in the appendix; cultivated plants are listed after natural plants. The list is set out according to the order in the Flora of Turkey. In the

appendix the following details are stated: family, species, author(s), locality, habitat, altitude, collection date, collector and number. Also, the phytogeographic regions are given together with rare, threatened and endemic plants and IUCN threat categories; life forms (Ekim et al., 2000; IUCN, 2001). The findings were compared with the results of other studies carried out in neighbouring areas in terms of phytogeographic elements, as well as the number of families, species and endemism (Çırpıcı, 1989; Ekim, 1978; Ekim et al., 1985; Gemici, 1990, 1991; Görk, 1988; Ocakverdi, 1984; Yayıntaş, 1985). Agricultural plants were not included in the rate of phytogeographic region elements and endemism. To avoid repetition, "B3 Afyon: Kumalar Mountain" is not used each time. The names of authors were arranged according to the "Authors of Plant Names" (Brummitt & Powell, 1992). The specimens are kept in Gazi Herbarium (GAZI).

The abbreviations used in the text and in the floristic list are as follows: (Ir.-Tur.)- Irano-Turanian element, (Medit.)- Mediterranean element, (E. Medit.)- East Mediterranean element, (Euro-Sib.)- Euro-Siberian element, (Ph)- Phanerophyte, (Ch)- Chamaephyte, (H)- Hemicryptophyte, (Th)- Therophyte, (G)- Geophyte, and (Hd)- Hydrophyte. The IUCN categories are as follows: (EN)- Endangered, (VU)- Vulnerable, (LC)- Least Concern, and (NT)- Near Threatened.

Results and Discussion

This study was carried out with 2204 plant specimens collected from the research area between 1996 and 2001. As a result of the identification of the plant specimens, 89 families, 388 genera and 898 taxa (subsp. and var. included) were determined from the area. Seven of the 898 taxa are from the *Pteridophyta*; and 891 belong to the *Spermatophyta*. Eight taxa are *Gymnospermae* and 883 taxa are in the *Angiospermae*. 747 taxa belong to the *Dicotyledones* and 136 belong to the *Monocotyledones*.

The taxa may be categorised according to phytogeographic region as follows: Irano-Turanian 133 (15.4%), Mediterranean 99 (11.4%) and Euro-Siberian 73 (8.4%). The remaining 561 (64.8%) taxa belong to a few phytogeographic regions or are widespread (Table 1). This shows that the area is located in the transition zone of Irano-Turanian and Mediterranean

Table 1. A comparison of the phytogeographic elements abbreviations below the table).

Research area	1	2	3	4	5	6	7	8
Total species	898	667	1058	867	516	562	624	461
Irano-Turanian elements %	15.4	8.1	10.4	10.7	4.9	9.9	7.9	13.0
Mediterranean elements %	11.4	10.9	18.3	13.3	16.5	29.1	4.7	12.5
Euro-Siberian elements %	8.4	9.1	7.6	13.1	7.7	12.8	8.4	3.2
Multiregional or unknown phytogeographic region %	64.8	71.9	63.7	62.9	70.7	48.2	79.0	71.1

Abbreviations:

1. Flora of Kumalar Mountain (Afyon)
2. Afyon Başkomutan Tarihi Milli Parkı Florası (Ekim et al., 1985)
3. Akdağ ve Çevresinin Florası (Gemici, 1990, 1991)
4. Murat Dağı (Kütahya-Uşak)'nın Florası (Çırpıcı, 1989)
5. Simav Dağı Florası (Yayıntaş, 1985)
6. Eğrigöz Dağı (Emet) Florası (Görk, 1988)
7. Orta Anadolu (Eskişehir) Türkmen Dağının Florası (Ekim, 1978)
8. Sultan Dağları-Doğanhisar Bölgesinin (Konya) Florası (Ocakverdi, 1984)

phytogeographic regions; however, the Irano-Turanian phytogeographic region has more influence in the area. The flora elements are not homogenously separated. Mediterranean elements are in the south and south-west; Irano-Turanian and Euro-Siberian elements are in the northern and eastern areas, which is closed to the south. While Irano-Turanian and Mediterranean elements are located in open areas and steppe, Euro-Siberian elements are located in forest areas and pastures at high altitude, water and streamsides and damp microclimate areas in enclave forms. The distribution of the species in the phytogeographic regions is compared with taxa of neighbouring areas in Table 1.

The largest families according to their species number in the research area are as follows: Asteraceae (104

taxa), Poaceae (89 taxa), Fabaceae (77 taxa), Lamiaceae (71 taxa), Brassicaceae (50 taxa), Rosaceae (42 taxa), Caryophyllaceae (42 taxa), Scrophulariaceae (40 taxa), Apiaceae (36 taxa) and Boraginaceae (33 taxa) (Table 2). As seen in Table 2, the first five families according to the number of species are very similar with some small differences. Asteraceae is the largest family in the study area because the family is the largest family in the Flora of Turkey, the ecological tolerance of the members of the family are common and their seeds spread easily. Poaceae is the second most common family in the study area and many of its species are widespread in agricultural areas and within the surroundings. Fabaceae is the third most common family in the area. Many species of this family are cultivated in agricultural areas and some taxa are

Table 2. Comparison of the large families in the research area and in neighbouring areas.

Research area	1	2	3	4	5	6	7	8
Total species	898	667	1058	867	516	562	624	461
Asteraceae	104	89	136	113	60	59	76	55
Poaceae	89	47	62	27	30	29	43	45
Fabaceae	77	81	105	65	69	69	70	48
Lamiaceae	71	45	61	52	34	33	45	35
Brassicaceae	50	29	67	60	31	31	31	24
Rosaceae	42	30	38	42	15	28	36	14
Caryophyllaceae	42	41	52	55	25	30	27	27
Scrophulariaceae	40	38	42	42	23	20	21	18
Apiaceae	36	26	44	34	13	20	33	17
Boraginaceae	33	20	24	27	25	22	12	11

widespread in some habitats such as steppe, pastures and forest openings.

It is difficult to draw firm conclusions from Table 3. Generally, the largest genera of the study area, *Astragalus* L., *Silene* L., *Salvia* L., *Veronica* L. and *Ranunculus* L. are also present at the top of the lists in other areas. *Astragalus* is the largest genus in this study area because the area is in the transition zone of the Irano-Turanian and Mediterranean phytogeographic regions. Steppe vegetation is common in the area, and *Astragalus* is the largest genus in the Flora of Turkey and can resist grazing. *Silene* is the second most common, because it has a large living area and enjoys the steppe, forest and wet habitats that exist in the area (Table 3).

The taxa can also be classified according to their life form. All the taxa classified according to the Raunkiaer life form spectrum are given in Table 4 (Akman et al., 2001). Hemicryptophytes are the commonest in the study area followed by therophytes, geophytes, phanerophytes, chamaephytes, vascular parasites and hydrophytes. Hemicryptophytes have a large living area

worldwide (Çetik, 1973). In floristic research performed in Turkey, hemicryptophytes are commonly found. Therefore, finding hemicryptophytes to be commonly during our research was expected. Therophytes, which are common in arid and semi-arid areas, were the second most common in the study area because of the arid summers in the area.

In this research, 898 taxa from the area were identified. Thirty-two are cultivated and 866 natural plants. One-hundred-twenty two (14.1%) of these 866 natural plants are endemic (Table 5). Forty-seven endemic taxa are Irano-Turanian elements, 24 taxa Mediterranean elements and one taxon element from the Euro-Siberian phytogeographic region. The phytogeographic region of 50 endemic taxa are unknown. According to IUCN threat categories, the number of endemic and rare non-endemic plants in the study area are as follows: One taxon is endangered (EN), six taxa are vulnerable (VU), 102 taxa are of least concern (LC), and 13 taxa are in the near threatened (NT) category. There are three rare non-endemic taxa, in the

Table 3. The number of species in the large genera in the study area and in neighbouring areas.

Research area	1	2	3	4	5	6	7	8
<i>Astragalus</i>	17	11	13	15	8	11	11	10
<i>Silene</i>	15	21	19	12	6	10	15	11
<i>Salvia</i>	13	6	8	9	7	5	5	6
<i>Veronica</i>	13	11	15	14	10	7	7	6
<i>Ranunculus</i>	11	11	16	14	10	7		5
<i>Rumex</i>	10	2	6	10	5		11	
<i>Trifolium</i>	10	15	22	12	14	12		8
<i>Bromus</i>	9	7	8	4	4		15	5
<i>Euphorbia</i>	9	7	13	7		5		6
<i>Verbascum</i>	9	12	10	9	1	-	2	4

Table 4. Life forms

Life Form	Number of Species	(%)
Hemicryptophyte (H)	371	41.3
Therophyte (Th)	241	26.8
Geophyte (G)	107	11.9
Phanerophyte (Ph)	84	9.4
Chamaephyte (Ch)	75	8.4
Vascular Parasite (Vp)	11	1.2
Hydrophyte (Hd)	9	1.0
Total	898	100.0

Table 5. The rate of endemism in the study area and in neighbouring areas.

Reseach area	1	2	3	4	5	6	7	8
Endemic species	122	101	124	114	48	46	65	81
Endemism (%)	14.1	15.1	11.7	13.1	9.4	8.1	10.0	14.0

vulnerable (VU) category in the area (Ekim et al., 2000; IUCN, 2001).

Twelve regional endemic plants were collected from the research area and nearby. These plants are *Paronychia angorensis* Chaudhri, *Astragalus flavescens* Boiss., *Genista burdurensis* P. Gibbs, *Centaurea reuterana* Boiss. var. *reuterana*, *Convolvulus pulvinatus* Sa'ad, *Verbascum phrygium* Bornm., *Verbascum cheiranthifolium* Boiss. var. *pisdicum* (Boiss. & Heldr.) Murb., *Verbascum armenum* Boiss. & Kotschy var. *occidentale* Hub.-Mor., *Scrophularia floribunda* Boiss. & Bal, *Sideritis akmanii* Z. Aytaç, M. Ekici & A. Dönmez, *Quercus vulcanica* [Boiss. & Heldr. ex] Kotschy and *Festuca cyllenica* Boiss. & Heldr. subsp. *uluana* Markgr.-Dann.

Two species known only from type locality were collected for the first time in the study area. These species are *Minuartia umbellulifera* (Boiss.) McNeill subsp. *salbacica* McNeill and *Astragalus sibthorpianus* Boiss.

Twenty eight taxa show variations in their morphological characters not previously reported in the

literature (Aytaç, 1997; Boissier, 1867-1888; Davis, 1965-1985; Davis et al., 1988; Duman et al., 1995; Güner et al., 2000; Komarov, 1949, Rechinger, 1965-1977; Townsent & Guest, 1966-1985; Tutin et al., 1964-1980; Zohary, 1966-1986). These variations can be explained by geography, soil, climate and hybridisation. The characters will widen the border of the morphological features of the species. These explanations are given in the appendix under the relevant species.

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Appendix

The Floristic List of Natural Plants	P. brutia Ten.	C. regalis Gray subsp. <i>paniculata</i> (Host.) Soó var. <i>paniculata</i>
PTERIDOPHYTA	Dinar, Akçaköy, forest, 1050 m, 2 iv 2000, E.Akçiçek 2416.	Şuhut, Anayurt village, field borders, 1100 m, 26 vii 2000, E.Akçiçek 3179.
EQUISETACEAE	E. Medit., Ph.	Th.
Equisetum ramosissimum Desf.	CUPRESSACEAE	C. <i>hellespontica</i> (Boiss.) Chater
Şuhut, between Örmekuyu and Ballık, damp places, 1300 m, 24 ix 2000, E.Akçiçek 3329.	Juniperus communis L. subsp. <i>nana</i> Syme	Sandıklı, between Ballık and Örmekuyu, field borders, 1250 m, 26 vi 2000, E.Akçiçek 2957.
G.	Şuhut, Kumalar Yayla, volcanic areas, 1880 m, 23 viii 1998, E.Akçiçek 2283.	Th.
SINOPTERIDACEAE	Ph.	Adonis <i>aestivalis</i> L. subsp. <i>aestivalis</i>
Cheilanthes persica (Bory) Kuhn	J. <i>oxycedrus</i> L. subsp. <i>oxycedrus</i>	Şuhut, Siner village, field borders, 1200 m, 19 v 1997, E.Akçiçek 1700.
Şuhut, Arızlı village, on shady rocks, 1120 m, 19 v 2001, E.Akçiçek 3523.	Sincanlı, Taşoluk, Balıkkaya hill, oak scrub, 1350 m, 13 vii 1997, E.Akçiçek 1781.	Th.
G.	Ph.	A. <i>flammea</i> Jacq.
ASPLENIACEAE	J. <i>foetidissima</i> Willd.	5 km from Sandıklı to Şuhut, waste ground, 1150 m, 18 v 2000, E.Akçiçek 2458.
Asplenium onopteris L.	13 km from Sandıklı to Şuhut, volcanic areas, 1500 m, 18 v 2000, E.Akçiçek 2481/A.	Th.
16 km from Sandıklı to Şuhut, volcanic rocks, 1650 m, 23 ix 2000, E.Akçiçek 3257.	Ph.	Ranunculus <i>repens</i> L.
G.	J. <i>excelsa</i> M.Bieb.	Şuhut, Başören village, Kocaçal hill, rocky places, 1950 m, 19 v 2000, E.Akçiçek 2549.
A. ruta-muraria L. subsp. <i>ruta-muraria</i>	Sandıklı, between Ballık and Örmekuyu, Kızılçalın hill, rocky slopes, 1250 m, 26 vi 2000, E.Akçiçek 3025.	G.
Şuhut, Arızlı village, on shady rocks, 1120 m, 19 v 2001, E.Akçiçek 3539.	Ph.	R. <i>constantinopolitanus</i> (DC.) d' Urv.
G.	EPHEDRACEAE	Şuhut, Ortapınar village, meadows, 1100 m, 19 v 1997, E.Akçiçek 1678.
A. ceterach L. subsp. <i>ceterach</i>	Ephedra major Host	G.
Şuhut, Arızlı village, on shady rocks, 1120 m, 19 v 2001, E.Akçiçek 3522.	Dinar, between Tatarlı and Alparslan, stony slopes, 1130 m, 26 vii 2000, E.Akçiçek 3176.	R. <i>damascenus</i> Boiss. & Gaill.
G.	Ph.	Şuhut, Ortapınar village, meadows, 1100 m, 19 v 1997, E.Akçiçek 1681.
ATHYRIACEAE	ANGIOSPERMAE	Ir.-Tur., G.
Cystopteris fragilis (L.) Bernh.	DICOTYLEDONES	R. <i>argyreus</i> Boiss.
10 km from Sandıklı to Şuhut, on rocks, 1300 m, 18 vi 2000, E.Akçiçek 2449.	RANUNCULACEAE	Dinar, Akçaköy, fallow fields, 900 m, 16 v 1999, E.Akçiçek 2393.
G.	Delphinium peregrinum L.	G.
ASPIDIACEAE	Sandıklı, Başağaç village, roadsides, 1000 m, 3 viii 1996, E.Akçiçek 1665.	R. <i>reuterianus</i> Boiss.
Dryopteris pallida (Bory) Fomin subsp. <i>pallida</i>	Th.	Şuhut, Başören village, Toklu hill, steppe, 1650 m, 19 v 2000, E.Akçiçek 2500.
Şuhut, Arızlı village, on shady rocks, 1120 m, 19 v 2001, E.Akçiçek 3520.	Consolida aconiti (L.) Lindl.	Endemic-LC, Medit., G.
Medit., G.	20 km from Afyon to Şuhut, calcareous rocks, 1250 m, 23 vi 2001, E.Akçiçek 3662.	R. <i>pedatus</i> Waldst. & Kit. subsp. <i>pedatus</i>
SPERMATOPHYTA	Endemic-LC, Th.	10 km from Sandıklı to Şuhut, volcanic areas, 1300 m, 18 vi 2000, E.Akçiçek 2440.
GYMNOSPERMAE	C. <i>orientalis</i> (Gay) Schröd.	G.
PINACEAE	Sandıklı, Ballık, roadsides, 1060 m, 4 viii 1997, E.Akçiçek 1841.	R. <i>heterorhizus</i> Boiss. & Bal.
Pinus nigra J.F.Arnold subsp. <i>nigra</i> var. <i>caramanica</i> (Loudon) Rehder	Th.	Şuhut, Başören village, Toklu hill, steppe, 1650 m, 19 v 2000, E.Akçiçek 2585.
Sincanlı, Taşoluk, Balıkkaya hill, 1200 m, 13 vii 1997, E.Akçiçek 1828.		
Ph.		

- Endemic-LC., G.
Corolla length is up to 13 mm on the specimen, but it is described as 8-10 mm in the Flora of Turkey (I:182) (Davis, 1965).
- R. isthmicus** Boiss. subsp. **stepporum** Davis
Between Sandıklı and Şuhut, Bektaş village, Çıraklı hill, volcanic areas, 1200 m, 18 v 2000, E.Akçicek 2474.
- G.
R. arvensis L.
Şuhut, Ortapınar village, meadows, 1100 m, 19 v 1997, E.Akçicek 1666.
- Th.
R. ficaria L. subsp. **ficariiformis** Rouy & Foucaud
Şuhut, damp places, 1100 m, 7 iii 2001, E.Akçicek 3505.
- G.
R. saniculifolius Viv.
Sincanlı, Akören village, marsh, 1020 m, 18 v 2000, E.Akçicek 2433.
- Hd.
Ceratocephalus falcatus (L.) Pers.
Dinar, Akçaköy, fallow fields, 900 m, 16 v 1999, E.Akçicek 2394.
- Th.
Achenes are 6 mm long on the specimen, but they are described as 7-10 mm in the Flora of Turkey (I:198) (Davis, 1965).
- Thalictrum minus** L. var. **minus**
Şuhut, Başören village, shady places, 1450 m, 24 vi 2001, E.Akçicek 3719.
- G.
BERBERIDACEAE
Berberis vulgaris L.
Sandıklı, roadsides, 1100 m, 28 x 2000, E.Akçicek 3426.
- Ph.
B. crataegina DC.
Şuhut, Kumalar Yayla, rocky slopes, 1800 m, 6 vi 1996, E.Akçicek 1578.
- Ph.
B. integrifolia Bunge
Sandıklı, roadsides, 1100 m, 28 x 2000, E.Akçicek 3450.
- Ph.
PAPAVERACEAE
- Glaucium corniculatum** (L.) J.O.Rudbeck subsp. **corniculatum**
Between Şuhut and Aydın village, steppe, 1100 m, 20 v 1998, E.Akçicek 1937.
H.
G. grandiflorum Boiss. & Huet var. **grandiflorum**
Şuhut, Ortapınar village, Kocatepe, 1150 m, 20 v 1998, E.Akçicek 1909.
- Ir.-Tur., H.
G. leiocarpum Boiss.
12 km from Sandıklı to Şuhut, volcanic areas, 1400 m, 25 vii 2000, E.Akçicek 3096.
- H.
G. acutidentatum Hausskn. & Bornm.
Sandıklı, Ballık, roadsides, 1200 m, 26 vi 2000, E.Akçicek 2969.
- Endemic-LC., Ir.-Tur., H.
The calyx is crisped pilose on the specimen, but it is described as glabrous in the Flora of Turkey (I:217) (Davis, 1965).
- Papaver apokrinomenon** Fedde
Şuhut, Arızılı village, stony slopes, 1120 m, 19 v 2001, E.Akçicek 3518.
- Endemic-LC., H.
P. rhoeas L.
Dinar, Denizli and Afyon crossroads, field borders, 960 m, 16 v 1999, E.Akçicek 2380.
- Th.
P. dubium L.
Sandıklı, Ballık, field borders, 1100 m, 26 vi 2000, E.Akçicek 2976.
- Th.
P. argemone L. subsp. **argemone**
Şuhut, Ortapınar village, Kocatepe, steppe, 1150 m, 20 v 1998, E.Akçicek 1914.
- Th.
Hypecoum procumbens L.
Dinar, Denizli and Afyon crossroads, field borders, 960 m, 16 v 1999, E.Akçicek 2384.
- Medit., Th.
H. imberbe Sibth. & Sm.
Şuhut, Ortapınar village, Kocatepe, steppe, 1150 m, 20 v 1998, E.Akçicek 1919.
- Th.
H. pendulum L.
Sandıklı, roadsides, 1000 m, 20 v 2000, E.Akçicek 2670.
- Th.
Fumaria officinalis L.
Dinar, Akçaköy, fallow fields, 900 m, 16 v 1999, E.Akçicek 2354.
- Th.
F. cilicica Hausskn.
Şuhut, Başören village, Kiran hill, volcanic areas, 1600 m, 13 vi 1998, E.Akçicek 2020.
- Th.
F. vaillantii Loisel.
Dinar, between Haydarlı and Yıprak, field margins, 1100 m, 20 v 2000, E.Akçicek 2622.
- Th.
F. asepala Boiss.
Dinar, Bağcılar village, field margins, 1100 m, 14 vi 1998, E.Akçicek 2085.
- Ir.-Tur., Th.
BRASSICACEAE / CRUCIFERAE
Sinapis arvensis L.
20 km from Afyon to Şuhut, steppe, 1100 m, 20 v 1998, E.Akçicek 2243.
- Th.
Hirschfeldia incana (L.) Lag.-Foss.
Şuhut, Başören village, Kiran hill, rocky slopes, 1600 m, 13 vi 1998, E.Akçicek 2014.
- H.
Diplotaxis tenuifolia (L.) DC.
Şuhut, Anayurt village, field borders, 1100 m, 26 vii 2000, E.Akçicek 3199.
- H.
Eruca sativa Mill.
Dinar, Denizli and Afyon crossroads, fallow fields, 960 m, 16 v 1999, E.Akçicek 2351.
- Th.
Raphanus raphanistrum L.
Dinar, Tatarlı, roadsides, 1100 m, 26 vii 2000, E.Akçicek 3191.
- Th.
Crambe tataria Sebeók var. **tataria**
Dinar, between Haydarlı and Yıprak, field borders, 1100 m, 20 v 2000, E.Akçicek 2618.
- H.

- Conringia orientalis* (L.) Andrz.
15 km from Afyon to Şuhut, calcareous rocks, 1120 m, 18 v 2001, E.Akçicek 3622.
Th.
- Lepidium perfoliatum* L.
Between Şuhut and Aydin village, steppe, 1100 m, 20 v 1998, E.Akçicek 1936.
- Cardaria draba* (L.) Desv. subsp. *draba*
Between Şuhut and Aydin village, field borders, 1100 m, 19 v 1997, E.Akçicek 1736.
H.
- Cardaria draba* (L.) Desv. subsp. *chaleensis* (L.) O.E.Schulz
Dinar, Haydarlı, fallow fields, 1250 m, 14 vi 1998, E.Akçicek 2150.
H.
- Isatis glauca* Aucher ex Boiss. subsp. *glauca*
Sandıklı, Ballık, roadsides, 1060 m, 4 viii 1997, E.Akçicek 1872.
Ir.-Tur., H.
- Aethionema arabicum* (L.) Andrz. ex DC.
Şuhut, Ortapınar village, Kocatepe, steppe, 1150 m, 20 v 1998, E.Akçicek 1904.
Th.
- A. cordatum* (Desf.) Boiss.
Şuhut, Arızılı village, rocky places, 1120 m, 19 v 2001, E.Akçicek 3531.
Ir.-Tur., Ch.
- Thlaspi arvense* L.
Şuhut, Başören village, stony slopes, 1500 m, 24 vi 2001, E.Akçicek 3701.
Th.
- T. perfoliatum* L.
Dinar, Akçaköy, stony slopes, 1025 m, 2 iv 2000, E.Akçicek 2405.
Th.
- Capsella bursa-pastoris* (L.) Medik.
Şuhut, Ortapınar village, roadsides, 1150 m, 19 v 1997, E.Akçicek 1711.
Th.
- C. rubella* Reut.
Şuhut, roadsides, 1100 m, 7 iii 2001, E.Akçicek 3510.
Medit., Th.
- Boreava orientalis* Jaub. & Spach
Dinar, between Haydarlı and Örmekuyu, Naldöken Ridge, steppe, 1400 m, 26 vi 2000, E.Akçicek 2992.
Th.
- The height of the specimens is 50 cm, but this character is given as 15-30 cm in the Flora of Turkey (I: 347-348) (Davis, 1965).
- Euclidium syriacum* (L.) R.Br.
Dinar, Akçaköy, fallow fields, 900 m, 16 v 1999, E.Akçicek 2371.
Th.
- Neslia apiculata* Fisch., Mey. & Aveé-Lall.
5 km from Sandıklı to Şuhut, fallow fields, 1150 m, 18 v 2000, E.Akçicek 2468.
Th.
- Alyssum dasycarpum* Steph. ex Willd.
Şuhut, Ağızkara village, fallow fields, 1150 m, 18 v 2001, E.Akçicek 3567.
Th.
- A. minus* (L.) Rothm. var. *micranthum* (C.A.Mey.) Dudley
Sincanlı, Taşoluk, field margins, 1200 m, 18 v 2001, E.Akçicek 3604.
Th.
- A. strigosum* Banks & Sol. subsp. *strigosum*
Sandıklı, Bektaş village, Çıralık hill, volcanic areas, 1200 m, 18 v 2000, E.Akçicek 2475.
Th.
- A. strigosum* Banks & Sol. subsp. *cedrorum* (Schott & Kotschy) Dudley
Dinar, Haydarlı, Uzunmusakırı hill, rocky places, 1600 m, 14 vi 1998, E.Akçicek 2113.
Th.
- A. hirsutum* M.Bieb. var. *hirsutum*
Sandıklı, Bektaş village, Çıralık hill, volcanic areas, 1200 m, 18 v 2000, E.Akçicek 2470.
Th.
- A. thymops* (Hub.-Mor. & Reese) Dudley
15 km from Afyon to Şuhut, rocky slopes, 1100 m, 18 v 2001, E.Akçicek 3549.
Endemic-LC, Ir.-Tur., H.
- A. murale* Waldst. & Kit. subsp. *murale*
var. *murale*
Şuhut, Başören village, volcanic areas, 1400 m, 6 vii 1996, E.Akçicek 1599.
H.
- Clypeola jonthlaspi* L.
10 km from Sandıklı to Şuhut, volcanic areas, 1300 m, 18 vi 2000, E.Akçicek 2448.
Th.
- Erophila verna* (L.) Chevall. subsp. *verna*
Şuhut, Başören village, Toklu hill, steppe, 1650 m, 19 v 2000, E.Akçicek 2586.
Th.
- E. verna* (L.) Chevall. subsp. *praecox* (Stev.) Walters
Dinar, Akçaköy, rocky slopes, 1025 m, 2 iv 2000, E.Akçicek 2408.
Th.
- Arabis caucasica* Willd. subsp. *caucasica*
Şuhut, Kumalar yayla, rocky slopes, 1880 m, 23 viii 1998, E.Akçicek 2285.
H.
- A. caucasica* Willd. subsp. *brevifolia* (DC.) Cullen
13 km from Sandıklı to Şuhut, rocky slopes, 1500 m, 18 v 2000, E.Akçicek 2419.
E. Medit., H.
- Rorippa amphibia* (L.) Bess.
Sincanlı, Akören village, marshes, 1020 m, 18 v 2000, E.Akçicek 2432.
H.
- Barbarea vulgaris* R.Br.
Şuhut, Ortapınar village, field margins, 1150 m, 19 v 1997, E.Akçicek 1710.
H.
- The stem is sparsely hairy, but it is described as glabrous in the Flora of Turkey (I: 434) (Davis, 1965).
- B. trichopoda* Hausskn. ex Bornm.
Dinar, between Haydarlı and Soğucak, Naldöken ridge, rocky grounds, 1500 m, 20 v 2000, E.Akçicek 2601.
Endemic-NT., H.
- Aubrieta canescens* (Boiss.) Bornm. subsp. *macrostyla* Cullen & Hub.-Mor.
15 km from Sandıklı to Şuhut, rocky slopes, 1550 m, 18 v 2000, E.Akçicek 2428.
H.

<i>A. pinardii</i> Boiss.	<i>Descurainia sophia</i> (L.) Webb ex Prantl	VIOLACEAE
Dinar, Haydarlı, Uzunmusakırı hill, rocky grounds, 1550 m, 14 vi 1998, E.Akçicek 2135.	Sandıklı, Bektaş village, fallow fields, 1150 m, 18 v 2000, E.Akçicek 2466.	<i>Viola sieheana</i> Becker
Endemic-LC., Ir.-Tur., H.	H.	Şuhut, Siner village, meadows, 1200 m, 19 v 1997, E.Akçicek 1702.
<i>Matthiola longipetala</i> (Vent.) DC. subsp. <i>bicornis</i> (Sibth. & Sm.) P.W.Ball	<i>Camelina rumelica</i> Velen.	H.
Şuhut, Ortapınar village, Kocatepe, steppe, 1150 m, 20 v 1998, E.Akçicek 1900.	Dinar, Haydarlı, Uzunmusakırı hill, rocky grounds, 1500 m, 14 vi 1998, E.Akçicek 2111/A.	POLYGALACEAE
Th.	Th.	<i>Polygala pruinosa</i> Boiss. subsp. <i>pruinosa</i>
<i>Erysimum cuspidatum</i> (M.Bieb.) DC.	<i>C. microcarpa</i> Andrz.	15 km from Afyon to Şuhut, calcareous rocks, 1100 m, 18 v 2001, E.Akçicek 3630.
Dinar, Haydarlı, Uzunmusakırı hill, rocky grounds, 1600 m, 14 vi 1998, E.Akçicek 2196.	Dinar, Bağcılar village, field borders, 1100 m, 14 vi 1998, E.Akçicek 2094.	H.
H.	Th.	<i>P. anatolica</i> Boiss. & Heldr.
<i>E. pulchellum</i> (Willd.) Gay	RESEDACEAE	Dinar, between Akçaköy and Haydarlı, steppe, 1000 m, 16 v 1999, E.Akçicek 2321.
Dinar, between Haydarlı and Soğucak, Naldoken Ridge, rocky grounds, 1500 m, 20 v 2000, E.Akçicek 2600.	<i>Reseda lutea</i> L. var. <i>lutea</i>	H.
H.	Şuhut, Ortapınar village, Kocatepe, steppe, 1150 m, 20 v 1998, E.Akçicek 1898.	CARYOPHYLLACEAE
<i>E. sintenisianum</i> Bornm.	Th.	<i>Arenaria acerosa</i> Boiss.
Between Sandıklı and Şuhut, volcanic areas, 1800 m, 15 vii 1985, Y.Akman 14094.	<i>R. luteola</i> L.	Şuhut, Başören village, Çakmaktepe pass, steppe, 1880 m, 6 vii 1996, E.Akçicek 1562.
H.	Between Taşoluk and Şuhut, steppe, 1400 m, 24 vi 2000, E.Akçicek 2850.	Endemic-LC., H.
<i>E. crassipes</i> Fisch. & C.A.Mey.	H.	<i>Minuartia hirsuta</i> (M.Bieb.) Hand.-Mazz. subsp. <i>falcata</i> (Gris) Mattf.
Şuhut, Aydın village, waste places, 1150 m, 19 v 2000, E.Akçicek 2524.	CISTACEAE	Şuhut, Başören village, Kilimatan hill, stony slopes, 2200 m, 25 vi 2000, E.Akçicek 2905.
H.	<i>Cistus laurifolius</i> L.	H.
<i>E. repandum</i> L.	Sincanlı, Taşoluk, Balıkkaya hill, scrub, 1350 m, 13 vii 1997, E.Akçicek 1797.	<i>M. recurva</i> (All.) Schinz & Thell. subsp. <i>oreina</i> (Mattf.) McNeill
5 km from Sandıklı to Şuhut, waste places, 1150 m, 18.5.2000, E.Akçicek 2464	Medit., Ph.	Şuhut, Koçyatağı Yayla, stony places, 1400 m, 19 v 2000, E.Akçicek 2545.
Th.	The cymes is 7-flowered on the specimen, but it is 3-5 flowered in the Flora of Turkey (I: 508) (Davis, 1965).	H.
The height of the specimens is up to 30 cm, but this character is given as 5-25 cm in the Flora of Turkey (I:477) (Davis, 1965).	<i>Helianthemum nummularium</i> (L.) Mill. subsp. <i>nummularium</i>	<i>M. juniperina</i> (L.) Maire & Petitm.
<i>Sisymbrium altissimum</i> L.	Şuhut, between Atlıhisar and Balçıkhisar, rocky places, 1050 m, 20 v 2000, E.Akçicek 2654.	Sandıklı, Soğucak village, rocky places, 1500 m, 4 viii 1997, E.Akçicek 1869.
Şuhut, Tekke village, steppe, 1200 m, 6 vii 1996, E.Akçicek 1603.	H.	Ch.
H.	<i>H. nummularium</i> (L.) Mill. subsp. <i>lycaonicum</i> Coode & Cullen	<i>M. umbellifera</i> (Boiss.) McNeill subsp. <i>salbacica</i> McNeill
<i>S. orientale</i> L.	15 km from Afyon to Şuhut, calcareous rocks, 1120 m, 18 v 2001, E.Akçicek 3629.	Şuhut, Başören village, Çakmaktepe pass, steppe, 1880 m, 6 vii 1996, E.Akçicek 1552.
Şuhut, Ortapınar village, roadsides, 1150 m, 19 v 1997, E.Akçicek 1719.	Endemic-LC., H.	Endemic-EN., H.
Th.	<i>H. canum</i> (L.) Baumg.	This taxon was previously known only from type locality C2 Denizli, Baba Dağ. It is the first time this species has ever been collected from the study area. The habitat of the species is threatened by over grazing in the area. Therefore, the species may become extinct in the near future.
<i>S. loeselii</i> L.	20 km from Afyon to Şuhut, steppe, 1050 m, 20 v 1998, E.Akçicek 1959.	
Şuhut, Anayurt village, meadows, 1100 m, 18 viii 2000 E.Akçicek 3238.	Ch.	
H.		

- M. hamata** (Hausskn.) Mattf.
Dinar, Haydarlı, Uzunmusakırı hill, rocky places, 1600 m, 14 vi 1998, E.Akçicek 2192.
Th.
- M. leucocephaloides** (Bornm.) Bornm.
Şuhut, Aydin village, Angılıkaşı hill, volcanic areas, 1200 m, 13 vi 1998, E.Akçicek 1980.
Endemic-LC, H.
- Stellaria media** (L.) Vill. subsp. *media*
Şuhut, Orتابınar village, meadows, 1100 m, 19 v 1997, E.Akçicek 1671.
Th.
- Cerastium banaticum** (Roch.) Heuff.
Sandıklı, Ballık, Kızılçalın hill, rocky places, 1250 m, 26 vi 2000, E.Akçicek 2948.
H.
- C. fontanum** Baumg. subsp. *triviale* (Link) Jalas
Şuhut, Başören village, streamsides, 1400 m, 25 vii 2000, E.Akçicek 3073.
H.
- C. dichotomum** L. subsp. *dichotomum*
5 km from Sandıklı to Şuhut, fallow fields, 1150 m, 18 v 2000, E.Akçicek 2463.
Th.
- C. brachypetalum** Pers. subsp. *roeseri* (Boiss. & Heldr.) Nyman
Dinar, Haydarlı, Uzunmusakırı hill, rocky places, 1500 m, 14 vi 1998, E.Akçicek 2230.
Th.
- Moenchia mantica** (L.) Bartl. subsp. *mantica*
Şuhut, Orتابınar village, field borders, 1100 m, 19 v 1997, E.Akçicek 1669.
Th.
- M. mantica** (L.) Bartl. subsp. *caerulea* (Boiss.) Clapham
Şuhut, Taşoluk to Koçyatağı, rocky places, 1380 m, 19 v 2000, E.Akçicek 2556.
Th.
- Telephium imperati** L. subsp. *orientale* (Boiss.) Nyman
Dinar, Haydarlı, Uzunmusakırı hill, rocky places, 1500 m, 14 vi 1998, E.Akçicek 2228.
H.
- Dianthus anatolicus** Boiss.
20 km from Afyon to Şuhut, calcareous rocks, 1250 m, 23 vi 2001, E.Akçicek 3726.
Endemic-LC, H.
- D. balansae** Boiss.
Şuhut, Kumalar yayla, steppe, 1800 m, 6 vii 1996, E.Akçicek 1563.
Endemic-LC, H.
- D. zonatus** Fenzl var. *zonatus*
15 km from Sandıklı to Afyon, steppe, 1500 m, 23 ix 2000, E.Akçicek 3298.
H.
- D. zonatus** Fenzl var. *aristatus* (Boiss.) Reeve
Sandıklı, Başağaç village, roadsides, 1000 m, 3 viii 1996, E.Akçicek 1627/A.
H.
- D. lydus** Boiss.
Sincanlı, Taşoluk, Mandal hill, steppe, 1400 m, 13 vii 1997, E.Akçicek 1834.
Endemic-LC, H.
- Petrorhagia velutina** (Guss.) Ball & Heywood
Sandıklı, Bektaş village, Çıralık hill, volcanic rocks, 1200 m, 18 v 2000, E.Akçicek 2480.
Th.
- Velezia rigida** L.
Şuhut, Güneytepe village, rocky slopes, 1300 m, 25 vi 2000, E.Akçicek 2939.
Th.
- Saponaria viscosa** C.A.Mey.
Dinar, Haydarlı, Uzunmusakırı hill, rocky places, 1550 m, 14 vi 1998, E.Akçicek 2130.
Ir.-Tur., Th.
- S. kotschyi** Boiss.
Sandıklı, Ballık, Kızılçalın hill, rocky places, 1250 m, 26 vi 2000, E.Akçicek 3032.
Endemic-LC, H.
- Bolanthus spergulifolius** (Jaub. & Spach) Hub.-Mor.
Dinar, Haydarlı, Uzunmusakırı hill, rocky places, 1500 m, 14 vi 1998, E.Akçicek 2193.
Endemic-VU, Ch.
- Vaccaria pyramidata** Medik. var. *grandiflora* (Fisch. ex DC.) Cullen
Dinar, Haydarlı, Uzunmusakırı hill, rocky places, 1550 m, 14 vi 1998, E.Akçicek 2124.
Th.
- Silene italicica** (L.) Pers.
Şuhut, Başören village, Kiran hill, rocky slopes, 1500 m, 13 vi 1998, E.Akçicek 2051.
H.
- S. bupleuroides** L.
Şuhut, Başören village, Kiran hill, steppe, 1700 m, 23 viii 1998, E.Akçicek 2277.
H.
- S. otites** (L.) Wibel
Şuhut, Güneytepe village, rocky slopes, 1200 m, 25 vi 2000, E.Akçicek 2941.
H.
- S. cappadocica** Boiss. & Heldr.
Dinar, Haydarlı, Uzunmusakırı hill, on shady rocks, 1500 m, 13 vi 1998, E.Akçicek 2045.
Ir.-Tur., Ch.
- S. supina** M.Bieb. subsp. *pruinosa* (Boiss.) Chowdhuri
Sandıklı, between Ballık and Örmekuyu, steppe, 1350 m, 26 vi 2000, E.Akçicek 2955.
Ch.
- S. arguta** Fenzl
15 km from Sandıklı to Şuhut, volcanic areas, 1550 m, 18 v 2000, E.Akçicek 2431.
Ir.-Tur., H.
- S. odontopetala** Fenzl
Dinar, Haydarlı, Direkli ridge, rocky places, 1300 m, 2 vi 2000, E.Akçicek 3049.
H.
- S. vulgaris** (Moench) Garcke var. *vulgaris*
Şuhut, Dadak village, spring margins, 1330 m, 23 ix 2000, E.Akçicek 3351.
H.
- S. rhynchocarpa** Boiss.
Şuhut, Kumalar yayla, steppe, 1880 m, 13 vi 1998, E.Akçicek 2059.
Ch.
- S. compacta** Fisch.
Şuhut, Başören village, steppe, 1400 m, 6 vii 1996, E.Akçicek 1600.
H.
- S. dichotoma** Ehrh. subsp. *dichotoma*
15 km from Afyon to Şuhut, stony slopes, 1100 m, 18 v 2001, E.Akçicek 3545.
Th.

S. dichotoma Ehrh. subsp. *sibthorpiana* (Rchb.) Rech.

Şuhut, Ortapınar village, Kocatepe, steppe, 1150 m, 20 v 1998, E.Akçicek 1912.

Th.

S. subconica Friv.

Dinar, between Haydarlı and Soğucak, rocky places, 1100 m, 20 v 2000, E.Akçicek 2681.

Th.

S. lydia Boiss.

20 km from Afyon to Şuhut, steppe, 1100 m, 20 v 1998, E.Akçicek 2255.

E. Medit., Th.

S. conoidea L.

Dinar, Akçaköy, steppe, 1000 m, 16 v 1999, E.Akçicek 2317.

Th.

Agrostemma githago L.

Şuhut, Başören village, rocky slopes, 1500 m, 24 vi 2001, E.Akçicek 3710.

H.

ILLECEBRACEAE

Herniaria incana Lam.

Sincanlı, Taşoluk, Mandal hill, steppe, 1300 m, 13 vii 1997, E.Akçicek 1788.

H.

Paronychia kurdica Boiss. subsp. *kurdica* var. *kurdica*

20 km from Afyon to Şuhut, steppe, 1100 m, 20 v 1998, E.Akçicek 1960.

H.

P. angorensis Chaudhri

15 km from Afyon to Şuhut, fallow fields, 1300 m, 23 vi 2001, E.Akçicek 3682.

Endemic-VU, Ir.-Tur., H.

POLYGONACEAE

Polygonum amphibium L.

Sincanlı, Akören village, marshes, 1050 m, 23 ix 2000, E.Akçicek 3288.

H.

P. cognatum Meissn.

Dinar, Haydarlı, Uzunmusakırı hill, rocky places, 1500 m, 14 vi 1998, E.Akçicek 2194.

H.

P. arenastrum Bor

Dinar, Doğanlı village, field margins, 1180 m, 24 ix 2000, E.Akçicek 3250.

Th.

P. bellardii All.

Sincanlı, Taşoluk, fallow fields, 1200 m, 24 vi 2000, E.Akçicek 2870.

Th.

P. convolvulus L.

Dinar, Bağcılar village, field margins, 1100 m, 14 vi 1998, E.Akçicek 2087.

H.

Rumex acetosella L.

Şuhut, Başören village, Çakmaktepe pass, rocky slopes, 1880 m, 6 vii 1996, E.Akçicek 1561.

H.

R. scutatus L.

Şuhut, Tekke village, roadsides, 1200 m, 23 viii 1998, E.Akçicek 2301.

Ch.

R. gracilescens Rech.

Şuhut, Başören yayla, steppe, 1600 m, 25 vi 2000, E.Akçicek 2883.

Endemic-NT, H.

R. patientia L.

Şuhut, Dadak village, field margins, 1250 m, 28 x 2000, E.Akçicek 3405.

H.

R. cristatus DC.

Şuhut, Aydın village, Angılıkaşı hill, volcanic areas, 1200 m, 13 vi 1998, E.Akçicek 1972.

H.

R. crispus L.

Şuhut, Başören village, rocky slopes, 1400 m, 6 vii 1996, E.Akçicek 1589.

H.

R. conglomeratus Murray

Şuhut, Dadak village, field margins, 1250 m, 28 x 2000, E.Akçicek 3406.

H.

R. obtusifolius L. subsp. *subalpinus* (Schur) Célak.

Sincanlı, Akören village, marshes, 1000 m, 24 vi 2000, E.Akçicek 2704.

H.

R. pulcher L.

Şuhut, Aydın village, Angılıkaşı hill, rocky slopes, 1200 m, 13 vi 1998, E.Akçicek 1973.

H.

R. dentatus L. subsp. *halacsyi* (Rech. pat.) Rech. f.

Şuhut, Aydın village, Angılıkaşı hill, rocky slopes, 1200 m, 13 vi 1998, E.Akçicek 1997.

Th.

CHENOPODIACEAE

Chenopodium botrys L.

Şuhut, Kumalar yayla, stony places, 1800 m, 23 viii 1998, E.Akçicek 2296.

Th.

C. foliosum (Moench) Asch.

Şuhut, Güneytepe village, steppe, 1150 m, 25 vi 2000, E.Akçicek 2920.

H.

C. murale L.

Sincanlı, Akören village, marshes, 1050 m, 23 ix 2000, E.Akçicek 3291.

Th.

C. album L. subsp. *album* var. *album*

Sandıklı, Ballık, roadsides, 1060 m, 4 viii 1997, E.Akçicek 1840.

Th.

Atriplex hortensis L.

Şuhut, Çakırözü village, roadsides, 1200 m, 23 ix 2000, E.Akçicek 3277.

Th.

A. lasiantha Boiss.

Şuhut, Anayurt village, roadsides, 1100 m, 26 vii 2000, E.Akçicek 3204.

Th.

Salsola tragus L.

Between Dinar and Çay, Karamık marsh, 1000 m, 29 x 2000, E.Akçicek 3399.

Th.

Noaea mucronata (Forssk.) Asch. & Schweinf. subsp. *mucronata*

23 km from Afyon to Şuhut, waste places, 930 m, 24 ix 2000, E.Akçicek 3324.

Ch.

AMARANTHACEAE

Amaranthus retroflexus L.

Şuhut, Koçyatağı village, roadsides, 1200 m, 25 vii 2000, E.Akçicek 3143.

Th.

- A. albus L.**
Şuhut, between Örmekuyu and Ballık, 1300 m, 24 ix 2000, E.Akçicek 3339.
Th.
- TAMARICACEAE**
- Tamarix parviflora DC.**
Sandıklı, wet places, 1100 m, 28 x 2000, E.Akçicek 3419.
Ph.
- HYPERICACEAE / GUTTIFERAEE**
- Hypericum heterophyllum Vent.**
Sincanlı, Taşoluk, Mandal hill, steppe, 1300 m, 13 vii 1997, E.Akçicek 1750.
Endemic-LC, Ch.
- H. kotschyanum Boiss.**
Sincanlı, Taşoluk, steppe, 1450 m, 28 x 2000, E.Akçicek 3469.
Endemic-NT, H.
- H. organifolium Willd.**
Şuhut, Başören village, Kırın hill, volcanic rocks, 1600 m, 13 vi 1998, E.Akçicek 2015.
H.
- H. aviculareifolium Jaub. & Spach subsp. *byzantinum***
Şuhut, Kumalar yayla, steppe, 1700 m, 4 viii 1993, Z.Aytaç 6541.
Endemic-LC, E. Medit., H.
- H. perforatum L.**
Sincanlı, Taşoluk, Mandal hill, steppe, 1300 m, 13 vii 1997, E.Akçicek 1787.
H.
- MALVACEAE**
- Malva sylvestris L.**
Şuhut, Anayurt village, field margins, 1100 m, 26 vii 2000, E.Akçicek 3201.
H.
- M. neglecta Wallr.**
10 km from Sandıklı to Şuhut, volcanic areas, 1300 m, 18 vi 2000, E.Akçicek 2439.
Th.
- Alcea setosa (Boiss.) Alef.**
Şuhut, Anayurt village, field margins, 1100 m, 26 vii 2000, E.Akçicek 3160.
E. Medit., H.
- A. apterocarpa (Fenzl) Boiss.**
Şuhut, Kocyatağı village, roadsides, 1200 m, 25 vii 2000, E.Akçicek 3145.
Endemic-LC, Ir.-Tur., H.
- A. pallida Waldst. & Kit.**
Şuhut, Tekke village, steppe, 1200 m, 6 vii 1996, E.Akçicek 1607.
H.
- LINACEAE**
- Linum cariense Boiss.**
15 km from Afyon to Şuhut, steppe, 1100 m, 18 v 2001, E.Akçicek 3637.
Endemic-LC, Ir.-Tur., H.
- L. hirsutum L. subsp. *anatolicum* (Boiss.) Hayek var. *anatolicum***
Şuhut, between Balçıkhisar and Yıprak, steppe, 1270 m, 24 ix 2000, E.Akçicek 3269.
Endemic-LC, Ir.-Tur., H.
- L. hirsutum L. subsp. *pseudoanatolicum* Davis**
Sandıklı, Ballık, Kızılçalın hill, rocky places, 1350 m, 26 vi 2000, E.Akçicek 2952/B.
Endemic-LC, Ir.-Tur., H.
- L. bienne Mill.**
15 km from Afyon to Şuhut, stony slopes, 1100 m, 18 v 2001, E.Akçicek 3556.
Medit., H.
- GERANIACEAE**
- Geranium lucidum L.**
Şuhut, Arızlı village, on shady rocks, 1120 m, 19 v 2001, E.Akçicek 3525.
Th.
- G. rotundifolium L.**
Şuhut, Aydın village, Angıtlaşçı hill, volcanic areas, 1200 m, 13 vi 1998, E.Akçicek 1983.
G.
- G. tuberosum L. subsp. *tuberousum***
Dinar, Akçaköy, fallow fields, 900 m, 16 v 1999, E.Akçicek 2392.
G.
- G. pyrenaicum Burm. f.**
Şuhut, Kumalar yayla, steppe, 1800 m, 6 vii 1996, E.Akçicek 1551.
H.
- G. cinereum Cav. subsp. *subcaulescens* (L'Hérit. ex DC.) Hayek var. *subcaulescens***
Şuhut, Kumalar yayla, steppe, 1750 m, 13 vi 1998, E.Akçicek 1977.
H.
- Erodium ciconium (L.) L'Hérit.**
Şuhut, Başören village, Kırın hill, rocky places, 1600 m, 13 vi 1998, E.Akçicek 2027.
Th.
- E. amanum Boiss. & Kotschy**
15 km from Afyon to Şuhut, stony slopes, 1100 m, 18 v 2001, E.Akçicek 3560.
Endemic-LC, H.
- E. cicutarium (L.) L'Hérit. subsp. *cicutarium***
Dinar, Haydarlı, Uzunmusakırı hill, rocky places, 1500 m, 14 vi 1998, E.Akçicek 2211.
Th.
- E. acaule (L.) Bech. & Thell.**
Dinar, Akçaköy, rocky slopes, 1025 m, 2 iv 2000, E.Akçicek 2407.
H.
- ZYGOPHYLLACEAE**
- Tribulus terrestris L.**
Sandıklı, Ballık, roadsides, 1060 m, 4 viii 1997, E.Akçicek 1871.
Th.
- Peganum harmala L.**
Şuhut, Anayurt village, field margins, 1100 m, 26 vii 2000, E.Akçicek 3158.
H.
- RUTACEAE**
- Haplophyllum suaveolens (DC.) G. Don var. *suaveolens***
Dinar, Akçaköy, Saribelen ridge, rocky slopes, 1100 m, 26 vi 2000, E.Akçicek 3010.
H.
- ACERACEAE**
- Acer pseudoplatanus L.**
Sandıklı, Ballık, roadsides, 1100 m, 26 vi 2000, E.Akçicek 2973.
VU, Euro-Sib., Ph.
- Fruiting wings are 40 x 18 mm on this specimen, but it is described as c. 30 x 10-12 mm in the Flora of Turkey (II: 511) (Davis, 1966).
- A. negundo L.**
Sandıklı, Ballık, roadsides, 1100 m, 26 vi 2000, E.Akçicek 2972.
Ph.

RHAMNACEAE

Rhamnus rhodopeus Velen. subsp. *rhodopeus*

Sandıklı, Başağac village, roadsides, 1000 m, 3 viii 1996, E.Akçicek 1647.

Ph.

R. oleoides L. subsp. *graecus* (Boiss. & Reut.) Holmboe

Sandıklı, Başağac village, roadsides, 1000 m, 3 viii 1996, E.Akçicek 1654.

E. Medit., Ph.

R. thymifolius Bornm.

Sandıklı, Ballık, steppe, 1150 m, 4 viii 1997, E.Akçicek 1862.

Endemic-LC, Ph.

CELASTRACEAE

Euonymus latifolius (L.) Mill. subsp. *latifolius*

16 km from Sandıklı to Şuhut, rocky slopes, 1650 m, 23 ix 2000, E.Akçicek 3362.

Euro-Sib., Ph.

FABACEAE / LEGUMINOSAE

Cytisus procumbens (Waldst. & Kit. ex Willd.) Spreng.

Dinar, Haydarlı, Naldöken ridge, rocky slopes, 1500 m, 20 v 2000, E.Akçicek 2598.

Ch.

Chamaecytisus hirsutus (L.) Link

Şuhut, Ortapınar village, roadsides, 1100 m, 19 v 1997, E.Akçicek 1689.

Ch.

C. eriocarpus (Boiss.) Rothm.

15 km from Afyon to Şuhut, steppe, 1100 m, 18 v 2001, E.Akçicek 3638.

E. Medit., Ch.

Genista lydia Boiss. var. *lydia*

Between Sandıklı and Şuhut, N slope, 1800 m, 15 vii 1985, Y.Akman 14126.

Ch.

G. burderensis P.Gibbs

Şuhut, Başören village, Toklu hill, stony slopes, 1650 m, 25 vi 2000, E.Akçicek 2934.

Endemic-LC, Ir.-Tur., Ch.

The stem is 20 cm and pedicel up to 5 mm on the specimen, but these characters are given as c. 15 cm and c. 1mm respectively in the Flora of Turkey (III: 27) (Davis, 1969).

This plant is a regional endemic species only known from C2 Burdur and the study area. It was collected at three localities in the area. The species is rare in the area. The locality of the taxon is under threat because of human impact.

G. albida Willd.

15 km from Afyon to Şuhut, stony slopes, 1100 m, 18 v 2001, E.Akçicek 3550.

Ch.

Galega officinalis L.

Sandıklı, Taşoluk, meadows, 1100 m, 13 vii 1997, E.Akçicek 1772.

Euro-Sib., H.

Colutea cilicica Boiss. & Bal.

20 km from Afyon to Şuhut, calcareous rocks, 1250 m, 23 vi 2001, E.Akçicek 3661.

Ph.

C. melanocalyx Boiss. & Heldr. subsp. *davisciana* (Browicz) Chamb.

Dinar, Akçaköy, Saribelen Ridge, rocky slopes, 1100 m, 26 vi 2000, E.Akçicek 3007.

Endemic-LC, E. Medit., Ph.

Astragalus hamosus L.

Sincanlı, Taşoluk, waste fields, 1200 m, 24 vi 2000, E.Akçicek 2839.

Th.

A. oxytropifolius Boiss.

Şuhut, between Koçyatağı and Dadak, rocky places, 1350 m, 23 vi 2001, E.Akçicek 3731.

Ir.-Tur., H.

A. microcephalus Willd.

10 km from Sandıklı to Şuhut, Başkaya hill, steppe, 1300 m, 25 vii 2000, E.Akçicek 3105.

Ir.-Tur., Ch.

A. condensatus Ledeb.

Dinar, Akçaköy, steppe, 1000 m, 16 v 1999, E.Akçicek 2325.

Ch.

A. troleus Boiss.

Sandıklı, Dutağacı village, volcanic rocks, 1300 m, 15 vii 1985, Y.Akman 14124.

Endemic-LC, Ch.

A. thracicus Gris subsp. *thracicus*

14 km from Sandıklı to Şuhut, volcanic rocks, 1550 m, 25 vii 2000, E.Akçicek 3131.

Ch.

A. parnassi Boiss. subsp. *parnassi*

Şuhut, Başören village, Çakmaktepe pass, steppe, 1880 m, 6 vii 1996, E.Akçicek 1558.

Ch.

A. ponticus Pall.

Şuhut, field margins, 1100 m, 13 vi 1998, E.Akçicek 2008.

H.

A. odoratus Lam.

Dinar, Haydarlı, Uzunmusakırı hill, rocky slopes, 1550 m, 14 vi 1998, E.Akçicek 2126.

H.

A. lycius Boiss.

Şuhut, between Atlıhisar and Balıkhısar, rocky places, 1050 m, 20.5.2000, E.Akçicek 2659.

Endemic-LC, H.

A. sibthorpianus Boiss.

Dinar, between Haydarlı and Soğucak, rocky places, 1100 m, 20 v 2000, E.Akçicek 2642. Şuhut, between Atlıhisar and Balıkhısar, rocky places, 1050 m, 20 v 2000, E.Akçicek 2648.

Endemic-LC, H.

This taxon was previously known only from type locality A2 Ulu Dağ. It is the first time this species has ever been collected from the study area. The specimens were collected from the given two localities. There is no particular threat to this taxon in the area.

A. acmonotrichus Fenzl

Şuhut, Başören village, Toklu hill, steppe, 1650 m, 19 v 2000, E.Akçicek 2587.

Endemic-LC, E. Medit., H.

A. angustifolius Lam. subsp. *angustifolius* var. *angustifolius*

Dinar, Akçaköy, steppe, 1000 m, 16 v 1999, E.Akçicek 2307.

Ch.

A. angustifolius Lam. subsp. *pungens* (Willd.) Hayek

Şuhut, Ortapınar village, Kocatepe, steppe, 1150 m, 20 v 1998, E.Akçicek 1895.

Ch.

A. gymnolobus Fisch.

Sandıklı, Soğucak village, steppe, 1520 m, 4 viii 1997, E.Akçicek 1852.

Endemic-LC, Ir.-Tur., Ch.

- A. flavescens** Boiss.
Sincanlı, Taşoluk, Mandal hill, steppe, 1300 m, 13 vi 1997, E.Akçicek 1831.
Endemic-NT, E. Medit., Ch.
This plant is regional endemic species only known from B2 Manisa Bozdağ and the study area. The taxon forms common steppe associations of the area with *Astragalus microcephalus*. It was collected at four localities in the area. The species has been used for heating. Therefore, the species faces human pressure.
- A. vulnerariae** DC.
Dinar, Haydarlı, Uzunmusakırı hill, rocky places, 1500 m, 14 vi 1998, E.Akçicek 2222.
Endemic-LC, Ch.
Vicia cracca L. subsp. *atroviolacea* (Bornm.) Davis
Şuhut, roadsides, 1100 m, 19 v 1997, E.Akçicek 1735.
H.
V. cracca L. subsp. *stenophylla* Velen.
Şuhut, Başören village, steppe, 1400 m, 6 vii 1996, E.Akçicek 1584.
H.
V. villosa Roth subsp. *eriocarpa* (Hausskn.) P.W.Ball
Dinar, Akçaköy, fields, 900 m, 16 v 1999, E.Akçicek 2315.
Th.
V. peregrina L.
Dinar, Haydarlı, Uzunmusakırı hill, rocky places, 1600 m, 14 vi 1998, E.Akçicek 2121.
Th.
V. pannonica Crantz var. *purpurascens* (DC.) Ser.
Dinar, Denizli and Afyon crossroads, field borders, 960 m, 16 v 1999, E.Akçicek 2378/B.
Th.
V. sativa L. subsp. *nigra* (L.) Ehrh. var. *segetalis* (Thuill.) Ser. ex DC.
Between Sandıklı and Şuhut, Çıralık hill, volcanic areas, 1200 m, 18 v 2000, E.Akçicek 2479.
Th.
V. narbonensis L. var. *narbonensis*
Sincanlı, Taşoluk, field borders, 1200 m, 18 v 2001, E.Akçicek 3603.
Th.
- Lens nigricans** (M.Bieb.) Godr.
Dinar, Haydarlı, Uzunmusakırı hill, rocky places, 1500 m, 14 vi 1998, E.Akçicek 2235.
Medit., Th.
- Lathyrus digitatus** (M.Bieb.) Fiori
Şuhut, Ortapınar village, roadsides, 1100 m, 19 v 1997, E.Akçicek 1718.
E. Medit., H.
- L. pratensis** L.
Şuhut, Başören village, rocky slopes, 1500 m, 24 vi 2001, E.Akçicek 3698.
Euro-Sib., H.
- L. laxiflorus** (Desf.) Kuntze subsp. *laxiflorus*
Sincanlı, Taşoluk, Mandal hill, steppe, 1300 m, 13 vii 1997, E.Akçicek 1766.
H.
- L. cicera** L.
10 km from Sandıklı to Şuhut, volcanic areas, 1300 m, 18 vi 2000, E.Akçicek 2444.
Th.
- L. sativus** L.
Sandıklı, Balık, fallow fields, 1200 m, 26 vi 2000, E.Akçicek 3055.
Th.
- Ononis adenotricha** Boiss. var. *adenotricha*
Dinar, between Haydarlı and Örmekuyu, Naldöken ridge, steppe, 1300 m, 26 vi 2000, E.Akçicek 2997.
E. Medit., H.
- O. spinosa** L. subsp. *leiosperma* (Boiss.) Sirj.
Şuhut, Başören village, steppe, 1400 m, 6 vii 1996, E.Akçicek 1592.
H.
- Trifolium repens** L. var. *repens*
Şuhut, Kumalar yayla, steppe, 1500 m, 25 vi 2000, E.Akçicek 2929.
H.
- T. repens** L. var. *giganteum* Lag.-Foss.
20 km from Afyon to Şuhut, steppe, 1100 m, 20 v 1998, E.Akçicek 2258.
H.
- T. hybridum** L. var. *hybridum*
Sincanlı, Taşoluk, fields, 1200 m, 24 vi 2000, E.Akçicek 2842.
H.
- T. campestre** Schreb.
Sincanlı, Taşoluk, fields, 1200 m, 24 vi 2000, E.Akçicek 2768.
Th.
- T. resupinatum** L. var. *resupinatum*
Şuhut, Başören village, fields, 1400 m, 13 vi 1998, E.Akçicek 2019.
Th.
- T. pratense** L. var. *pratense*
Şuhut, Başören yayla, fields, 1500 m, 25 vi 2000, E.Akçicek 2887.
H.
The leaflets are up to 3.5 cm long on the specimen, but they are described as 1.5-3 cm in the Flora of Turkey (III: 415-416) (Davis, 1969).
- T. medium** L. var. *medium*
Sincanlı, Taşoluk, meadows, 1100 m, 13 vii 1997, E.Akçicek 1754.
H.
- T. pannonicum** Jacq. subsp. *elongatum* (Willd.) Zoh.
Sincanlı, Taşoluk, Mandal hill, steppe, 1300 m, 13 vii 1997, E.Akçicek 1835.
Endemic-LC, H.
- T. hirtum** All.
Şuhut, Başören village, Kiran hill, rocky slopes, 1400 m, 13 vi 1998, E.Akçicek 2009.
Medit., Th.
- T. arvense** L. var. *arvense*
Sincanlı, Taşoluk, Mandal hill, steppe, 1300 m, 13 vii 1997, E.Akçicek 1817.
Th.
- Melilotus officinalis** (L.) Desr.
Dinar, Bağcılar village, roadsides, 1100 m, 14 vi 1998, E.Akçicek 2174.
Th.
- M. bicolor** Boiss. & Bal.
Şuhut, Ortapınar village, meadows, 1100 m, 19 v 1997, E.Akçicek 1690.
Endemic-LC, Ir.-Tur., Th.
- Trigonella spruneriana** Boiss. var. *spruneriana*
Şuhut, Arızlı village, marshes, 1200 m, 29 x 2000, E.Akçicek 3389.
Ir.-Tur., Th.

- T. velutina** Boiss.
Dinar, Haydarlı, Uzunmusakırı hill, rocky places, 1500 m, 14 vi 1998, E.Akçicek 2236.
Ir.-Tur., Th.
- T. aurantiaca** Boiss.
Dinar, Haydarlı, Uzunmusakırı hill, rocky places, 1500 m, 14 vi 1998, E.Akçicek 2104.
Ir.-Tur., Th.
- T. fischeriana** Ser.
Şuhut, steppe, 1100 m, 20 v 1998, E.Akçicek 1924.
Ir.-Tur., Th.
- T. coerulescens** (M.Bieb.) Hal.
Şuhut, Ağızkara village, fallow fields, 1150 m, 18 v 2001, E.Akçicek 3568.
Ir.-Tur., Th.
- Medicago lupulina** L.
Sandıklı, Haydarlı, field border, 1500 m, 13 vi 1998, E.Akçicek 2048.
H.
- M. sativa** L. subsp. **sativa**
Sincanlı, Taşoluk, meadows, 1100 m, 13 vii 1997, E.Akçicek 1812.
H.
- M. rigidula** (L.) All. var. **rigidula**
10 km from Sandıklı to Şuhut, steppe, 1300 m, 18 vi 2000, E.Akçicek 2436.
Th.
- Lotus corniculatus** L. var. **corniculatus**
Sincanlı, Akören village, roadsides, 1000 m, 24 vi 2000, E.Akçicek 2700.
H.
- L. corniculatus** L. var. **alpinus** Ser.
Şuhut, Başören village, steppe, 1400 m, 6 vii 1996, E.Akçicek 1591.
H.
- L. aegaeus** (Gris) Boiss.
Sincanlı, Taşoluk, steppe, 1400 m, 24 vi 2000, E.Akçicek 2734.
Ir.-Tur., H.
- Coronilla emerus** L. subsp. **emeroidea** (Boiss. & Sprn) Hrabětova
Dinar, Akçaköy, steppe, 1000 m, 16 v 1999, E.Akçicek 3313.
Ph.
- C. varia** L. subsp. **varia**
Dinar, Haydarlı, forest, 1300 m, 14 vi 1998, E.Akçicek 2184.
H.
- Hedysarum varium** Willd.
Dinar, Haydarlı, Naldöken ridge, steppe, 1400 m, 26 vi 2000, E.Akçicek 3002.
Ir.Tur., H.
- H. cappadocicum** Boiss.
15 km from Afyon to Şuhut, rocky places, 1100 m, 18 v 2001, E.Akçicek 3550.
Endemic-LC, Ir.-Tur., H.
- Onobrychis armena** Boiss. & Huet
Şuhut, Güneytepe village, steppe, 1150 m, 25 vi 2000, E.Akçicek 2917.
Endemic-LC, H.
- O. oxyodonta** Boiss.
Sandıklı, Ballık, Deliklitaş hill, steppe, 1300 m, 4 viii 1997, E.Akçicek 1886.
H.
- O. hypargyrea** Boiss.
Dinar, Akçaköy, Saribelen ridge, rocky places, 1100 m, 26 vi 2000, E.Akçicek 3006.
H.
- Alhagi pseudalhagi** (M.Bieb.) Desv.
Between Dinar and Çay, Karamık marsh, 1000 m, 29 x 2000, E.Akçicek 3400.
Ir.-Tur., Ch.
- ROSACEAE**
- Prunus spinosa** L. subsp. **dasyphylla** (Schur) Domin
Sandıklı, Başağaç village, roadsides, 1100 m, 3 viii 1996, E.Akçicek 1656.
Euro-Sib., Ph.
- P. x domestica** L.
Şuhut, Dadak village, field borders, 1250 m, 28 x 2000, E.Akçicek 3404.
Ph.
- P. divaricata** Ledeb. subsp. **divaricata**
Şuhut, Kumalar yayla, field borders, 1800 m, 6 vii 1996, E.Akçicek 1576.
Ph.
- Cerasus prostrata** (Labill.) Ser. var. **prostrata**
Sandıklı, Ballık, rocky places, 1300 m, 4.8.1997, E.Akçicek 1885.
Ch.
- Amygdalus communis** L.
Sandıklı, Ballık, roadsides, 1250 m, 26 vi 2000, E.Akçicek 2953.
Ph.
- A. webbii** Spach
15 km from Sandıklı to Suhut, rocky places, 1550 m, 18 v 2000, E.Akçicek 2424.
E. Medit., Ph.
- Rubus discolor** Weihe & Nees
Şuhut, Kavaklı village, steppe, 1300 m, 6 vii 1996, E.Akçicek 1611.
Ph.
- R. canescens** DC. var. **canescens**
Sincanlı, Taşoluk, Mandal hill, steppe, 1300 m, 13 vii 1997, E.Akçicek 1761.
Ph.
- Potentilla rupestris** L.
Şuhut, between Taşoluk and Başarap, steppe, 1400 m, 18 v 2001, E.Akçicek 3571.
Euro-Sib., H.
- P. recta** L.
Şuhut, Kavaklı village, steppe, 1300 m, 13 vi 1998, E.Akçicek 1961.
H.
- P. supina** L.
Sincanlı, Akören village, marshes, 1050 m, 28 x 2000, E.Akçicek 3495.
H.
- P. reptans** L.
Sincanlı, Akören village, roadsides, 1000 m, 24 vi 2000, E.Akçicek 2699.
H.
- Geum urbanum** L.
Sincanlı, Taşoluk, Mandal hill, steppe, 1400 m, 13 vii 1997, E.Akçicek 1770.
Euro-Sib., H.
- Agrimonia eupatoria** L.
Sandıklı, Başağaç village, roadsides, 1000 m, 3 viii 1996, E.Akçicek 1639.
H.
- A. repens** L.
Şuhut, between Akyatak and Taşoluk, spring margins, 1480 m, 23 vi 2001, E.Akçicek 3754.
H.

<i>Sanguisorba minor</i> Scop. subsp. <i>muricata</i> (Spach) Briq.	<i>C. szovitsii</i> Pojark	LYTHRACEAE
Sincanlı, Taşoluk, Mandal hill, steppe, 1400 m, 13 vii 1997, E.Akçicek 1762.	Şuhut, Kavaklı village, rocky places, 1300 m, 6 vii 1996, E.Akçicek 1615.	<i>Lythrum salicaria</i> L.
H.	Ph.	Şuhut, Anayurt village, meadows, 1100 m, 18 viii 2000, E.Akçicek 3244.
<i>Rosa foetida</i> Herrm.	<i>C. curvisepala</i> Lindm.	Euro-Sib., H.
Şuhut, Başören village, Kiran hill, rocky places, 1600 m, 13 vi 1998, E.Akçicek 2024.	Dinar, Akçaköy, steppe, 1000 m, 16 v 1999, E.Akçicek 2343.	ONAGRACEAE
Ir.-Tur., Ph.	Ph.	<i>Epilobium angustifolium</i> L.
<i>R. hemisphaerica</i> J. Herrm.	The leaves are up to 55 mm long on the specimen, but they are described as 40 mm long in the Flora of Turkey (IV: 144) (Davis, 1972).	Şuhut, Dadak, steppe, 1330 m, 23 ix 2000, E.Akçicek 3306.
Şuhut, Kumalar yayla, steppe, 1800 m, 6 vii 1996, E.Akçicek 1574.	<i>C. monogyna</i> Jacq. subsp. <i>monogyna</i>	G.
Ir.-Tur., Ph.	Şuhut, between Balıkhisar and Yiprak, steppe, 1270 m, 24 ix 2000, E.Akçicek 3265.	<i>E. hirsutum</i> L.
<i>R. pulverulenta</i> M.Bieb.	Ph.	Şuhut, Uzunpınar village, fallow fields, 1150 m, 26 vii 2000, E.Akçicek 3198.
Şuhut, Çakmaktepe pass, volcanic rocks, 1880 m, 23 viii 1998, E.Akçicek 2282.	<i>C. monogyna</i> Jacq. subsp. <i>azarella</i> (Gris.) Franco	G.
Ch.	Şuhut, Ortapınar village, roadsides, 1000 m, 19 v 1997, E.Akçicek 1708.	<i>E. montanum</i> L.
<i>R. canina</i> L.	Ph.	Şuhut, Başören village, streamsides, 1500 m, 24 vi 2001, E.Akçicek 3716.
Sincanlı, Serban, steppe, 1200 m, 23 viii 1998, E.Akçicek 2303.	<i>C. microphylla</i> C.Koch	Euro-Sib., G.
Ph.	Şuhut, Aydin village, steppe, 1150 m, 19 v 2000, E.Akçicek 2512.	<i>E. tetragonum</i> L. subsp. <i>tetragonum</i>
<i>Mespilus germanica</i> L.	Hyrcano-Euxine, Ph.	Between Şuhut and Taşoluk, steppe, 1500 m, 24 vi 2000, E.Akçicek 2833.
Şuhut, Dadak, steppe, 1480 m, 23 ix 2000, E.Akçicek 3313.	<i>Sorbus umbellata</i> (Desf.) Fritsch var. <i>umbellata</i>	H.
Hyrcano-Euxine, Ph.	Sincanlı, Taşoluk, Mandal hill, steppe, 1400 m, 13 vii 1997, E.Akçicek 1762.	<i>E. minutiflorum</i> Hausskn.
<i>Cotoneaster integrerrimus</i> Medik.	Ph.	Şuhut, between Örmekuyu and Ballık 1350 m, 24 ix 2000, E.Akçicek 3343.
16 km from Sandıklı to Şuhut, rocky places, 1650 m, 23 ix 2000, E.Akçicek 3358.	<i>Malus sylvestris</i> Mill. subsp. <i>orientalis</i> (Uglitzk.) Browicz var. <i>orientalis</i>	Ir.-Tur., H.
Ph.	13 km from Sandıklı to Şuhut, steppe, 1500 m, 18 v 2000, E.Akçicek 2420.	CUCURBITACEAE
<i>C. nummularia</i> Fisch. & C.A.Mey.	Ph.	<i>Ecballium elaterium</i> (L.) A.Rich.
Şuhut, Başören yayla, steppe, 1600 m, 25 vi 2000, E.Akçicek 2890.	<i>Pyrus elaeagnifolia</i> Pall. subsp. <i>elaeagnifolia</i>	Sincanlı, Akören village, field margins, 1050 m, 28 x 2000, E.Akçicek 3501.
Ph.	10 km from Sandıklı to Şuhut, steppe, 1300 m, 18 vi 2000, E.Akçicek 2452.	Medit., H.
<i>Crataegus tanacetifolia</i> (Lam.) Pers.	Ph.	CRASSULACEAE
Sincanlı, Taşoluk, Mandal hill, steppe, 1400 m, 13 vii 1997, E.Akçicek 1803.	<i>Amelanchier parviflora</i> Boiss. var. <i>dentata</i> Browicz	<i>Umbilicus erectus</i> DC.
Endemic-LC, Ph.	Dinar, Akçaköy, steppe, 1000 m, 16 v 1999, E.Akçicek 2308.	Şuhut, between Koçyatağı and Başarap, volcanic rocks, 1200 m, 25 vii 2000, E.Akçicek 3087.
<i>C. x bornmuelleri</i> Zabel	Endemic-VU, E. Medit., Ph.	Ch.
Şuhut, Kumalar yayla, steppe, 1600 m, 25 vi 2000, E.Akçicek 2927.	<i>Rosularia sempervivum</i> (M.Bieb.) A.Berger subsp. <i>sempervivum</i>	Rosularia sempervivum (M.Bieb.) A.Berger subsp. <i>sempervivum</i>
Ph.	16 km from Sandıklı to Şuhut, rocky places, 1650 m, 23 ix 2000, E.Akçicek 3360.	Dinar, between Haydarlı and Örmekuyu, Direkli ridge, on rock, 1300 m, 26 vi 2000, E.Akçicek 3053.
<i>C. orientalis</i> Pall. ex M.Bieb. var. <i>orientalis</i>	Ir.-Tur., Ch.	Ir.-Tur., Ch.
Ph.	<i>Sedum amplexicaule</i> DC.	Şuhut, Akyatak, steppe, 1300 m, 23 vi 2001, E.Akçicek 3689.
16 km from Sandıklı to Şuhut, rocky places, 1650 m, 23 ix 2000, E.Akçicek 3360.	Medit., Ch.	
Ph.		

S. sartorianum Boiss. subsp.
sartorianum

Dinar, Haydarlı, Uzunmusakırı hill, rocky places, 1550 m, 14 vi 1998, E.Akçicek 2120.

Ch.

S. album L.

Şuhut, Çakmaktepe pass, volcanic rocks, 1880 m, 6 vii 1996, E.Akçicek 1601.

Ch.

S. lydium Boiss.

Şuhut, Siner village, rocky places, 1200 m, 19 v 1997, E.Akçicek 1705.

Endemic-LC, E. Medit., Ch.

S. sempervivoides M.Bieb.

Şuhut, Kavaklı village, rocky places, 1300 m, 6 vii 1996, E.Akçicek 1614.

Ch.

SAXIFRAGACEAE

Saxifraga sibirica L. subsp. **sibirica**

15 km from Sandıklı to Şuhut, volcanic rocks, 1550 m, 18 v 2000, E.Akçicek 2430.

G.

PARNASSIACEAE

Parnassia palustris L.

Şuhut, Arızlı village, meadows, 1200 m, 29 x 2000, E.Akçicek 3417.

H.

GROSSULARIACEAE

Ribes multiflorum Kit. ex Roem. & Schult.

Şuhut, Başören village, Quercus forest, 1600 m, 24 vi 2001, E.Akçicek 3720.

VU, E. Medit., Ph.

This species is known only from B2 Uşak, Murat Mountain, according to the Flora of Turkey. The species is distributed in Italy, Sardinia, the Balkans and Bulgaria. It grows in *Quercus vulcanica* forest in the area. The species is rare in the area and only two shrub specimens were seen in the given locality.

The leaves are c. 6 x 5 cm on the specimen, but they are described as c. 10 x 10 cm in the Flora of Turkey (X: 145) (Davis, 1988).

APIACEAE / UMBELLIFERAE

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

Sandıklı, Başağaç village, roadsides, 1000 m, 3 viii 1996, E.Akçicek 1633.

H.

Echinophora tournefortii Jaub. & Spach
Sandıklı, Başağaç village, roadsides, 1000 m, 3 viii 1996, E.Akçicek 1634.

Ir.-Tur., H.

Anthriscus nemorosa (M.Bieb.) Spreng.
Sincanlı, Taşoluk, rocky places, 1400 m, 24 vi 2000, E.Akçicek 2732.

H.

A. caucalis M.Bieb.

Şuhut, roadsides, 1150 m, 19 v 2000, E.Akçicek 2590.

Th.

Scandix stellata Banks & Sol.

Dinar, Haydarlı, Uzunmusakırı hill, 1500 m, 14 vi 1998, E.Akçicek 2110.

Th.

S. iberica M.Bieb.

20 km from Afyon to Şuhut, steppe, 1100 m, 20 v 1998, E.Akçicek 1948.

Th.

S. macrorhyncha C.A.Mey.

Şuhut, Güneytepe village, rocky places, 1200 m, 25 vi 2000, E.Akçicek 2937.

Th.

S. australis L. subsp. **grandiflora** (L.) Thell.

Şuhut, Ortapınar village, meadows, 1100 m, 19 v 1997, E.Akçicek 1673.

Th.

Bifora radians M.Bieb.

Şuhut, Aydın village, Angıtlağı hill, rocky slopes, 1200 m, 13 vi 1998, E.Akçicek 1963.

Th.

Smyrnium connatum Boiss. & Kotschy

Şuhut, Kumalar yayla, rocky places, 1600 m, 25 vi 2000, E.Akçicek 2923.

E. Medit., H.

Bunium ferulaceum Sm.

Sincanlı, Taşoluk, field borders, 1200 m, 18 v 2001, E.Akçicek 3602.

Medit., G.

Pimpinella tragium Vill. subsp. **lithophila** (Schischk.) Tutin

Sincanlı, Taşoluk, Mandal hill, steppe, 1300 m, 13 vii 1997, E.Akçicek 1805.

H.

P. tragium Vill. subsp. **polyclada** (Boiss. & Heldr.) Tutin

Sincanlı, Taşoluk, rocky places, 1300 m, 24 vi 2000, E.Akçicek 2733.

H.

P. tragium Vill. subsp. **pseudotragium** (DC.) Matthews

Şuhut, Başören village, streamsides, 1400 m, 25 vii 2000, E.Akçicek 3082.

Ir.-Tur., H.

Oenanthe aquatica (L.) Poir.

Sincanlı, Akören village, meadows, 1000 m, 24 vi 2000, E.Akçicek 2708.

G.

Conium maculatum L.

Sincanlı, Akören village, meadows, 1000 m, 24 vi 2000, E.Akçicek 2722.

Th.

Bupleurum rotundifolium L.

Dinar, Denizli and Afyon crossroads, field margins, 960 m, 16 v 1999, E.Akçicek 2382.

Th.

B. heldreichii Boiss. & Bal.

Dinar, Denizli and Afyon crossroads, fallow fields, 960 m, 14 vi 1998, E.Akçicek 2081.

Endemic-LC, Ir-Tur., Th.

B. affine Sadler

16 km from Sandıklı to Şuhut, volcanic rocks, 1650 m, 23 ix 2000, E.Akçicek 3258.

Th.

B. gerardii All.

Şuhut, between Koçyatağı and Dadak, volcanic rocks, 1350 m, 23 vi 2001, E.Akçicek 3742.

Th.

B. falcatum L. subsp. **persicum** (Boiss.) Koso-Pol.

Şuhut, between Koçyatağı and Başarap, volcanic rocks, 1200 m, 25 vii 2000, E.Akçicek 3062.

H.

Falcaria vulgaris Bernh.

Sandıklı, Soğucak village, steppe, 1500 m, 4 viii 1997, E.Akçicek 1887.

H.

<i>Cnidium silaifolium</i> (Jacq.) Simonk. subsp. <i>orientale</i> (Boiss.) Tutin.	<i>Daucus carota</i> L.	MORINACEAE
Sincanlı, Taşoluk, Mandal hill, steppe, 1400 m, 13 vii 1997, E.Akçicek 1771.	Sandıklı, Ballık, field margins, 1000 m, 26 vi 2000, E.Akçicek 2977.	<i>Morina persica</i> L. var. <i>persica</i>
G.	H.	Şuhut, Kumalar yayla, volcanic rocks, 1600 m, 25 vi 2000, E.Akçicek 2921.
<i>Johrenia tortuosa</i> (Fisch. & C.A.Mey.) D.F.Chamb.	CAPRIFOLIACEAE	Ir.-Tur., H.
Sandıklı, Soğucak village, rocky places, 1500 m, 4 viii 1997, E.Akçicek 1877.	<i>Sambucus ebulus</i> L.	DIPSACACEAE
H.	Şuhut, Kumalar yayla, steppe, 1800 m, 6 vii 1996, E.Akçicek 1577.	<i>Dipsacus laciniatus</i> L.
<i>Ferulago aucheri</i> Boiss.	Euro-Sib., Ch.	Sincanlı, Serban, steppe, 1200 m, 23 viii 1998, E.Akçicek 2306.
Between Taşoluk and Şuhut, rocky places, 1400 m, 24 vi 2000, E.Akçicek 2809.	<i>S. nigra</i> L.	H.
Endemic-LC, Medit., H.	Şuhut, Başören village, Kiran hill, steppe, 1400 m, 13 vi 1998, E.Akçicek 2032.	Scabiosa argentea L.
<i>Pastinaca sativa</i> L. subsp. <i>urens</i> (Req. ex Godr.) Celak.	Euro-Sib., Ph.	Sandıklı, Ballık, Deliklitaş hill, steppe, 1250 m, 4 viii 1997, E.Akçicek 1882.
Şuhut, Ortapınar village, field margins, 1100 m, 26 vii 2000, E.Akçicek 3181.	<i>Lonicera etrusca</i> Santi var. <i>etrusca</i>	H.
H.	Sandıklı, Ballık, Kızılçalın hill, rocky places, 1350 m, 26 vi 2000, E.Akçicek 2950.	<i>S. micrantha</i> Desf.
<i>Malabaila secacul</i> Banks & Sol.	Medit., Ph.	Şuhut, Demirbel village, fallow fields, 1100 m, 19 v 2001, E.Akçicek 3588.
Sincanlı, Taşoluk, Balıkkaya hill, steppe, 1350 m, 24 vi 2000, E.Akçicek 2773.	VALERIANACEAE	Th.
H.	<i>Centranthus longiflorus</i> Stev. subsp. <i>longiflorus</i>	<i>S. rotata</i> M.Bieb.
<i>Heracleum sphondylium</i> L. subsp. <i>ternatum</i> (Velen.) Brummitt	Dinar, between Karaadilli and Tatarlı, rocky places, 1130 m, 26 vii 2000, E.Akçicek 3197.	Dinar, Bağcılar village, field margins, 1100 m, 14 vi 1998, E.Akçicek 2093.
Şuhut, Güneytepe village, steppe, 1100 m, 25 vi 2000, E.Akçicek 2911.	Ir.-Tur., G.	Ir.-Tur., Th.
Euro-Sib., H.	<i>Valerianella uncinata</i> (M.Bieb.) Dufr.	ASTERACEAE / COMPOSITAE
<i>Torilis japonica</i> (Houtt.) DC.	Dinar, Akçaköy, steppe, 1000 m, 16 v 1999, E.Akçicek 2332.	<i>Bidens tripartita</i> L.
Between Taşoluk and Şuhut, roadsides, 1200 m, 24 vi 2000, E.Akçicek 2745.	Ir.-Tur., Th.	Sincanlı, Akören village, meadows, 1050 m, 23 ix 2000, E.Akçicek 3287.
Th.	<i>V. turgida</i> (Stev.) Betcke	Th.
<i>T. ucranica</i> Spreng.	Şuhut, Siner village, meadows, 1200 m, 19 v 1997, E.Akçicek 1701.	Xanthium spinosum L.
Şuhut, Tekke village, steppe, 1200 m, 6 vii 1996, E.Akçicek 1602.	Th.	Şuhut, Kumalar yayla, volcanic rocks, 1800 m, 23 viii 1998, E.Akçicek 2295.
Th.	<i>V. pumila</i> (L.) DC.	Th.
<i>T. leptophylla</i> (L.) Rchb.	Between Taşoluk and Şuhut, Sarıyar hill, rocky places, 1500 m, 24 vi 2000, E.Akçicek 2753.	<i>Inula oculus-christi</i> L.
Sandıklı, roadsides, 1000 m, 20 v 2000, E.Akçicek 2676.	Th.	Şuhut, Çakmaktepe pass, volcanic rocks, 1880 m, 6 vii 1996, E.Akçicek 1566.
Th.	<i>V. coronata</i> (L.) DC.	Euro-Sib., H.
<i>Caucalis platycarpos</i> L.	Şuhut, Demirbel village, fallow fields, 1100 m, 19 v 2001, E.Akçicek 3586.	<i>I. britannica</i> L.
Sincanlı, Taşoluk, fallow fields, 1200 m, 24 vi 2000, E.Akçicek 2868.	Th.	16 km from Sandıklı to Şuhut, volcanic rocks, 1650 m, 23 ix 2000, E.Akçicek 3256.
Th.	<i>V. vesicaria</i> (L.) Moench	Euro-Sib., H.
<i>Turgenia latifolia</i> (L.) Hoffm.	5 km from Sandıklı to Şuhut, Bektaş village, fallow fields, 1150 m, 18 v 2000, E.Akçicek 2461.	<i>I. montbretiana</i> DC.
Dinar, Bağcılar village, field margins, 1100 m, 14 vi 1998, E.Akçicek 2088.	Th.	Between Şuhut and Taşoluk, rocky places, 1400 m, 24 vi 2000, E.Akçicek 2776.
Th.		Ir.-Tur., H.
		<i>I. heterolepis</i> Boiss.
		Sandıklı, Ballık, steppe, 1150 m, 4 viii 1997, E.Akçicek 1864.
		E. Medit., H.

- I. anatolica* Boiss.
Şuhut, between Koçyatağı and Dadak, volcanic rocks, 1350 m, 23 vi 2001, E.Akçicek 3735.
Endemic-LC, H.
- Pulicaria dysenterica* (L.) Bernh.
Şuhut, between Örmekuyu and Ballık, wet places, 1300 m, 24 ix 2000, E.Akçicek 3328.
H.
- P. vulgaris* (L.) Gaertn.
Sandıklı, Başağaç village, roadsides, 1000 m, 3 viii 1996, E.Akçicek 1629.
Th.
- Helichrysum plicatum* DC. subsp. *plicatum*
Sincanlı, Taşoluk, Mandal hill, steppe, 1400 m, 13 vii 1997, E.Akçicek 1812.
H.
- Logfia arvensis* (L.) Holub
Şuhut, Başören village, stony slopes, 1500 m, 25 vi 2000, E.Akçicek 2935.
Th.
- Aster laevis* L.
Şuhut, Çakırözü village, roadsides, 1200 m, 23 ix 2000, E.Akçicek 3280.
H:
Conyza canadensis (L.) Cronquist
Sincanlı, Akören village, meadows, 1050 m, 23 ix 2000, E.Akçicek 3290.
Th.
- Senecio aquaticus* hill subsp. *erraticus* (Bertol.) Matthews
Şuhut, Ortapınar village, meadows, 1100 m, 17 viii 2000, E.Akçicek 3220.
Euro-Sib., H.
- S. pseudo-orientalis* Schischk.
Sincanlı, Taşoluk, steppe, 1300 m, 24 vi 2000, Akçicek 2728.
Ir.-Tur., H.
- S. vulgaris* L.
Şuhut, field borders, 1100 m, 23 vi 2001, E.Akçicek 3656.
Th.
- S. vernalis* Waldst. & Kit.
Şuhut, Siner village, field borders, 1200 m, 19 v 1997, E.Akçicek 1698.
Th.
- Tussilago farfara* L.
Şuhut, between Örmekuyu and Ballık, wet places, 1300 m, 24 ix 2000, E.Akçicek 3340.
Euro-Sib., G.
The leaves of the specimens are 8 cm broad, but this character is given as 10-20 cm in the Flora of Turkey (V: 168) (Davis, 1975).
- Anthemis cretica* L. subsp. *pontica* (Willd.) Grierson
Şuhut, Başören village, Çakmaktepe pass, volcanic rocks, 1880 m, 6 vii 1996, E.Akçicek 1665.
H.
The height of the specimens is up to 24 cm, but this character is given as 10-20 cm in the Flora of Turkey (V: 182-185) (Davis, 1975).
- A. cretica* L. subsp. *albida* (Boiss.) Grierson
Şuhut, Ortapınar hill, Kocatepe, steppe, 1100 m, 20 v 1998, E.Akçicek 1920.
H.
- A. cretica* L. subsp. *anatolica* (Boiss.) Grierson
Between Taşoluk and Şuhut, Koçyatağı yayla, volcanic rocks, 1400 m, 19 v 2000, E.Akçicek 2546.
H.
A. coelopoda Boiss. var. *bourgaei* Boiss.
Dinar, between Haydarlı and Örmekuyu, Naldöken ridge, steppe, 1400 m, 26 vi 2000, E.Akçicek 2993.
Th.
- A. austriaca* Jacq.
Şuhut, Başören village, volcanic rocks, 1400 m, 6 vii 1996, E.Akçicek 1588.
Th.
- A. wiedemanniana* Fisch. & C.A.Mey.
Between Taşoluk and Şuhut, Sarıyar hill, rocky places, 1400 m, 24 vi 2000, E.Akçicek 2751.
Endemic-LC, Th.
- Achillea wilhelmsii* C.Koch
Dinar, Bağcılar village, field borders, 1100 m, 14 vi 1998, E.Akçicek 2091.
Ir.-Tur., H.
- A. phrygia* Boiss. & Bal.
15 km from Afyon to Şuhut, stony slopes, 1100 m, 18 v 2001, E.Akçicek 3562.
Endemic-LC, Ir.-Tur., H.
- A. teretifolia* Willd.
Sandıklı, Soğucak village, steppe, 1525 m, 4 viii 1997, E.Akçicek 1848.
Endemic-LC, Ir.-Tur., H.
- A. setacea* Waldst. & Kit.
Sandıklı, Başağaç village, steppe, 1000 m, 3 viii 1996, E.Akçicek 1646.
Euro-Sib., H.
- A. nobilis* L. subsp. *neilreichii* (Jos. Kern.) Formánek
Sincanlı, Taşoluk, Mandal hill, steppe, 1400 m, 13 vii 1997, E.Akçicek 1782.
Euro-Sib., H.
- A. biebersteinii* Afan.
Dinar, Akçaköy, Sarıbelen ridge, rocky places, 1000 m, 26 vi 2000, E.Akçicek 3008.
Ir.-Tur., H.
- Tanacetum parthenium* (L.) Sch. Bip.
Sincanlı, Taşoluk, Mandal hill, steppe, 1400 m, 13 vii 1997, E.Akçicek 1792.
H.
- Matricaria chamomilla* L. var. *recutita* (L.) Grierson
Sandıklı, Bektaş village, Çıraklı hill, volcanic rocks, 1200 m, 18 v 2000, E.Akçicek 2478.
Th.
The stem and lower leaves are sparsely hairy on the specimen, but they are described as glabrous in the Flora of Turkey (V: 293-294) (Davis, 1975).
- Tripleurospermum sevanense* (Manden.) Pobed.
Sincanlı, Akören village, meadows, 1000 m, 24 vi 2000, E.Akçicek 2717.
H.
- T. decipiens* (Fisch. & C.A.Mey.) Bornm.
Şuhut, Aydin village, fallow fields, 1150 m, 19 v 2000, E.Akçicek 2503.
H.
- Artemisia campestris* L.
Sandıklı, Soğucak village, steppe, 1520 m, 4 viii 1997, E.Akçicek 1854.
H.

- A. scoparia** Waldst. & Kit.
Between Sandıklı and Şuhut, 2000 m, 15 vii 1985, Y.Akman
H.
- A. santonicum** L.
Between Dinar and Çay, Karamık marsh, 1000 m, 29 x 2000, E.Akçicek 3396.
Euro-Sib., Ch.
- Arctium minus** (hill) Bernh. subsp. pubens (Bab.) Arénes
Şuhut, Anayurt village, field borders, 1100 m, 26 vii 2000, E.Akçicek 3151.
Euro-Sib., H.
- Onopordum anatolicum** (Boiss.) Eig
Şuhut, Anayurt village, field borders, 1100 m, 26 vii 2000, E.Akçicek 3149.
Endemic-LC, Ir.-Tur., H.
- O. acanthium** L.
Sandıklı, Soğucak village, steppe, 1500 m, 4 viii 1997, E.Akçicek 1893.
H.
- Cirsium sintenisii** Freyn
Şuhut, Başören village, forest, 1600 m, 23 viii 1998, E.Akçicek 2292.
Endemic-NT, H.
- C. lappaceum** (M.Bieb.) Fisch. subsp. anatolicum Petr.
14 km from Sandıklı to Şuhut, volcanic rocks, 1550 m, 25 vii 2000, E.Akçicek 3115.
Ir.-Tur., H.
- C. vulgare** (Savi) Ten.
Sandıklı, Başağaç village, roadsides, 1000 m, 3 viii 1996, E.Akçicek 1662.
H.
- C. creticum** (Lam.) d'Urv. subsp. creticum
Şuhut, Arızlı village, meadows, 1200 m, 29 x 2000, E.Akçicek 3384.
E. Medit., H.
- C. alatum** (Gmelin) Bobrov subsp. pseudocreticum Davis & Parris
Sincanlı, Akören village, meadows, 1050 m, 18 x 2000, E.Akçicek 3483.
Endemic-LC, Ir.-Tur., H.
- C. libanoticum** DC. subsp. lycaonicum (Boiss. & Heldr.) Davis & Parris
Şuhut, Güneytepe village, field margins, 1150 m, 23 ix 2000, E.Akçicek 3372.
- Endemic-LC, E. Medit., H.
The height of the specimens is 63 cm, but this character is given as c. 100-150 cm in the Flora of Turkey (V: 408-409) (Davis, 1975).
- C. arvense** (L.) Scop. subsp. vestitum (Wimm. & Grab.) Petr.
Sincanlı, Akören village, roadsides, 1000 m, 24 vi 2000, E.Akçicek 2726.
- G.
Picnomon acarna (L.) Cass.
Sandıklı, Örmekuyu, steppe, 1350 m, 4 viii 1997, E.Akçicek 1850.
Medit., Th.
- Ptilostemon afer** (Jacq.) Greuter subsp. burneus Greuter
12 km from Sandıklı to Şuhut, volcanic rocks, 1400 m, 25 vii 2000, E.Akçicek 3095.
Endemic-LC, H.
- Carduus olympicus** Boiss. subsp. hypoleucus (Bornm.) Davis
Şuhut, Anayurt village, field borders, 1100 m, 26 vii 2000, E.Akçicek 3156.
Endemic-LC, Ir.-Tur., H.
- C. nutans** L. nutans sensu lato
Şuhut, Başören village, Çakmaktepe pass, volcanic rocks, 1880 m, 6 vii 1996, E.Akçicek 1580.
H.
- C. pycnocephalus** L. subsp. albidus (M.Bieb.) Kazmi
Şuhut, roadsides, 1100 m, 19 v 1997, E.Akçicek 1744.
Th.
- C. pycnocephalus** L. subsp. arabicus (Jacq. ex Murray) Nyman
Şuhut, between Koçyatağı and Başarap, volcanic rocks, 1200 m, 25 vii 2000, E.Akçicek 3064.
Medit., Th.
- Jurinea consanguinea** DC.
20 km from Afyon to Şuhut, calcareous rocks, 1250 m, 23 vi 2001, E.Akçicek 3725.
- H.
- J. pontica** Hausskn. & Freyn ex Hausskn.
Dinar, between Haydarlı and Örmekuyu, Naldöken ridge, steppe, 1300 m, 26 vi 2000, E.Akçicek 2996.
Endemic-LC, Ir.-Tur., H.
- Acroptilon repens** (L.) DC.
20 km from Afyon to Şuhut, fallow fields, 1250 m, 23 vi 2001, E.Akçicek 3678.
Ir.-Tur., H.
- Centaurea cariensis** Boiss. subsp. maculiceps (O. Schwarz) Wagenitz
Şuhut, Başören village, Çakmaktepe pass, volcanic rocks, 1880 m, 25 vii 2000, E.Akçicek 3117.
Endemic-LC, H.
- C. virgata** Lam.
Sandıklı, Ballık, Deliklitaş hill, steppe, 1300 m, 4 viii 1997, E.Akçicek 1883.
H.
- C. solstitialis** L. subsp. solstitialis
Şuhut, Tekke village, steppe, 1200 m, 6 vii 1996, E.Akçicek 1605.
Th.
- C. iberica** Trev. ex Spreng.
Şuhut, Başören village, steppe, 1400 m, 25 vii 2000, E.Akçicek 3084.
Th.
- C. urvillei** DC. subsp. stepposa Wagenitz
Dinar, Haydarlı, Uzunmusakırı hill, rocky places, 1550 m, 14 vi 1998, E.Akçicek 2132.
Endemic-LC, Ir.-Tur., H.
- C. reuterana** Boiss. var. reuterana
Şuhut, Aydın village, waste places, 1150 m, 19 v 2000, E.Akçicek 2529.
Endemic-LC, H.
- C. pichleri** Boiss. subsp. pichleri
20 km from Afyon to Şuhut, steppe, 1100 m, 20 v 1998, E.Akçicek 2260.
H.
- C. depressa** M.Bieb.
Sincanlı, Taşoluk, waste places, 1200 m, 24 vi 2000, E.Akçicek 2865.
Th.
- Crupina crupinastrum** (Moris) Vis.
Dinar, Bağcılar village, roadsides, 1000 m, 14 vi 1998, E.Akçicek 2170.
Th.
- Carthamus dentatus** Vahl
Sincanlı, Serban, steppe, 1100 m, 23 viii 1998, E.Akçicek 2305.
Th.

- Xeranthemum annuum L.**
Sandıklı, Soğucak village, steppe, 1525 m, 4 viii 1997, E.Akçicek 1845.
Th.
- Echinops pungens Trautv. var. pungens**
Sandıklı, Ballık, Deliklitaş hill, steppe, 1250 m, 4 viii 1997, E.Akçicek 1881.
Ir.-Tur., H.
- Scolymus hispanicus L.**
Sandıklı, Ballık, steppe, 1250 m, 4 viii 1997, E.Akçicek 1890.
Medit., H.
- Cichorium intybus L.**
Dinar, Haydarlı, Uzunmusakırı hill, rocky places, 1500 m, 14 vi 1998, E.Akçicek 2239.
H.
- Scorzoneroides cana (C.A.Mey.) Hoffm. var. jacquiniana (W.Koch) Chamb.**
15 km from Afyon to Şuhut, stony slopes, 1100 m, 18 v 2001, E.Akçicek 3558.
H.
- S. eriophora DC.**
Şuhut, Başören village, stony slopes, 1450 m, 24 vi 2001, E.Akçicek 3695.
Endemic-LC, G.
- Tragopogon longirostris Bisch. ex Sch. Bip. var. abbreviatus Boiss.**
10 km from Sandıklı to Şuhut, volcanic rocks, 1300 m, 18 vi 2000, E.Akçicek 2453.
H.
- T. dubius Scop.**
Şuhut, Ortapınar village, Kocatepe, steppe, 1100 m, 20 v 1998, E.Akçicek 1910.
H.
- T. bupthalmoides (DC.) Boiss. var. bupthalmoides**
Sandıklı, between Ballık and Örmekuyu, Kızılçalın hill, rocky places, 1350 m, 26 vi 2000, E.Akçicek 3026.
H.
- T. bupthalmoides (DC.) Boiss. var. latifolius Boiss.**
Şuhut, Başören village, Kiran hill, volcanic rocks, 1600 m, 13 vi 1998, E.Akçicek 2026.
Ir.-Tur., H.
- Leontodon asperimus (Willd.) Ball**
Sandıklı, between Ballık and Örmekuyu, Kızılçalın hill, rocky places, 1250 m, 26 vi 2000, E.Akçicek 2988.
Ir.-Tur., H.
- L. crispus Vill. subsp. asper (Waldst. & Kit.) Rohlena var. asper**
Sincanlı, Taşoluk, Mandal hill, steppe, 1400 m, 13 vii 1997, E.Akçicek 1815.
H.
- L. oxylepis Boiss. & Heldr. var. oxylepis**
Between Sandıklı and Şuhut, 2000 m, 15 vii 1985, Y.Akman
H.
- Picris hieracioides L.**
15 km from Sandıklı to Afyon, steppe, 1500 m, 23 ix 2000, E.Akçicek 3297.
Euro-Sib., H.
- Sonchus asper (L.) hill subsp. glaucescens (Jord.) Ball**
Şuhut, Arızılı village, steppe, 1200 m, 29 x 2000, E.Akçicek 3442.
H.
- Hieracium lasiochaetum (Bornm. et Zahn) Sell et West**
Sandıklı, Soğucak village, rocky places, 1500 m, 4 viii 1997, E.Akçicek 1867.
Endemic-LC, H.
- The basal leaves are up to 45 mm broad and the capitula number up to 7 on the specimens; however, the same basal leaves are 10-33 mm broad and the capitula number 2-6 in the Flora of Turkey (V: 720) (Davis, 1975).
- H. pannosum Boiss.**
Şuhut, Başören village, Çakmaktepe pass, volcanic rocks, 1880 m, 25 vii 2000, E.Akçicek 3126.
E. Medit., H.
- H. paphlagonicum Freyn & Sint.**
Şuhut, between Balıkhisar and Yıprak, rocky places, 1560 m, 24 ix 2000, E.Akçicek 3302.
Endemic-LC, H.
- Pilosella piloselloides (Vill.) Soják subsp. megalomastix (NP.) Sell & West**
Sincanlı, Taşoluk, Mandal hill, steppe, 1400 m, 13 vii 1997, E.Akçicek 1975.
G.
- P. x macrotricha (Boiss.) C.H. & F.W.Schultz**
10 km from Sandıklı to Şuhut, Başkaza hill, volcanic rocks, 1300 m, 25 vii 2000, E.Akçicek 3108.
H.
- Cicerbita variabilis (Bornm.) Bornm.**
Şuhut, Anayurt village, field borders, 1100 m, 26 vii 2000, E.Akçicek 3165.
Endemic-LC, G.
- Lactuca serriola L.**
Dinar, Tatarlı, waste places, 1100 m, 26 vii 2000, E.Akçicek 3139.
Euro-Sib., H.
- Scariola viminea (L.) F.W.Schmidt**
Şuhut, Başören village, Kiran hill, steppe, 1700 m, 23 viii 1998, E.Akçicek 2276.
H.
- Lapsana communis L. subsp. adenophora (Boiss.) Rech. f.**
Şuhut, Başören village, streamsides, 1400 m, 25 vii 2000, E.Akçicek 3080.
Th.
- L. communis L. subsp. intermedia (M.Bieb.) Hayek**
Şuhut, Başören village, stony slopes, 1500 m, 24 vi 2001, E.Akçicek 3696.
Th.
- Taraxacum bessarabicum (Hornem.) Hand.-Mazz. subsp. bessarabicum**
Şuhut, Başören village, Toklu hill, steppe, 1650 m, 19 v 2000, E.Akçicek 2588.
H.
- T. serotinum (Waldst. & Kit.) Poir.**
Sandıklı, Başağac village, roadsides, 1000 m, 3 viii 1996, E.Akçicek 1628.
H.
- T. syriacum Boiss.**
Between Dinar and Çay, Karamık marsh, 1000 m, 29 x 2000, E.Akçicek 3394.
Ir.-Tur., H.
- T. scaturiginosum G.Hagl.**
Şuhut, Arızılı village, steppe, 1200 m, 29 x 2000, E.Akçicek 3446.
H.

- Chondrilla juncea* L. var. *juncea*
16 km from Sandıklı to Şuhut, volcanic rocks, 1650 m, 23 ix 2000, E.Akçicek 3255.
H.
- C. juncea* L. var. *acantholepis* (Boiss.) Boiss.
Sandıklı, Başağaç village, roadsides, 1000 m, 3 viii 1996, E.Akçicek 1622.
H.
- Crepis macropus* Boiss. & Heldr.
20 km from Afyon to Şuhut, calcareous rocks, 1300 m, 23 vi 2001, E.Akçicek 3670.
Endemic-LC, H.
- C. foetida* L. subsp. *foetida*
20 km from Afyon to Şuhut, steppe, 1100 m, 20 v 1998, E.Akçicek 2262.
Th.
- C. foetida* L. subsp. *rhoeadifolia* (M.Bieb.) Čelak.
Şuhut, Aydın village, Angıtkaşı hill, rocky slopes, 1200 m, 13 vi 1998, E.Akçicek 1999.
Th.
- C. foetida* L. subsp. *commutata* (Spreng.) Babc.
Between Taşoluk and Şuhut, steppe, 1500 m, 24 vi 2000, E.Akçicek 2828.
Th.
- C. sancta* (L.) Babc.
Dinar, Akçaköy, steppe, 1000 m, 16 v 1999, E.Akçicek 2347.
Th.
- CAMPANULACEAE**
- Campanula lyrata* Lam. subsp. *lyrata*
Şuhut, Kavaklı village, steppe, 1300 m, 6 vii 1996, E.Akçicek 1621.
Endemic-LC, Medit., G.
- C. argaea* Boiss. & Bal.
10 km from Sandıklı to Şuhut, Başkaya hill, volcanic rocks, 1300 m, 25 vii 2000, E.Akçicek 3107.
Endemic-LC, Ir.-Tur., H.
- C. cymbalaria* Sm.
Şuhut, Başören village, Kırın hill, volcanic rocks, 1600 m, 13 vi 1998, E.Akçicek 2017.
E. Medit., H.
- Asyneuma limonifolium* (L.) Janch. subsp. *limonifolium*
Şuhut, Başören village, stony slopes, 1500 m, 24 vi 2001, E.Akçicek 3705.
H.
- Legousia speculum-veneris* (L.) Chaix
Şuhut, Kavaklı village, steppe, 1300 m, 6 vii 1996, E.Akçicek 1620.
Medit., Th.
- L. pentagonia* (L.) Thell.
Şuhut, Başören village, Kırın hill, volcanic rocks, 1600 m, 13 vi 1998, E.Akçicek 2011.
E. Medit., Th.
- PRIMULACEAE**
- Androsace maxima* L.
Şuhut, between Balıkkhisar and Yapıraç, Avlağı hill, rocky places, 1400 m, 20 v 2000, E.Akçicek 2608.
Th.
- Lysimachia vulgaris* L.
Şuhut, Başören village, volcanic rocks, 1400 m, 6 vii 1996, E.Akçicek 1590.
H.
- L. verticillaris* Spreng.
Between Taşoluk and Şuhut, marsh, 1200 m, 24 vi 2000, E.Akçicek 2749.
H.
- Hyrcano-Euxine*, H.
- L. atropurpurea* L.
Sincanlı, Taşoluk, meadows, 1200 m, 13 vii 1997, E.Akçicek 1776.
E. Medit., Th.
- OLEACEAE**
- Jasminum fruticans* L.
Şuhut, Ortapınar village, Kocatepe, steppe, 1100 m, 20 v 1998, E.Akçicek 1907.
Medit., Ph.
- Fraxinus angustifolia* Vahl subsp. *angustifolia*
Şuhut, roadsides, 1100 m, 17 viii 2000, E.Akçicek 3232.
Ph.
- Ligustrum vulgare* L.
Şuhut, Arızılı village, fallow fields, 1100 m, 29 x 2000, E.Akçicek 3381.
Euro-Sib., Ph.
- ASCLEPIADACEAE**
- Cynanchum acutum* L. subsp. *acutum*
Şuhut, Koçyatağı village, roadsides, 1200 m, 25 vii 2000, E.Akçicek 3146.
H.
- Vincetoxicum canescens* (Willd.) Decne. subsp. *pedunculata* Browicz
Dinar, Haydarlı, Uzunmusakırı hill, rocky places, 1500 m, 14 vi 1998, E.Akçicek 2100.
Endemic-VU, E. Medit., H.
- V. tmoicum* Boiss.
Between Taşoluk and Şuhut, steppe, 1400 m, 24 vi 2000, E.Akçicek 2851.
Ir.-Tur., H.
- Cionura erecta* (L.) Griseb.
Şuhut, İlyaslı village, steppe, 1225 m, 23 ix 2000, E.Akçicek 3264.
E. Medit., Ph.
- CONVOLVULACEAE**
- Convolvulus lineatus* L.
Between Taşoluk and Şuhut, steppe, 1400 m, 24 vi 2000, E.Akçicek 2834.
H.
- C. holosericeus* M.Bieb. subsp. *holosericeus*
Dinar, Akçaköy, Saribelen ridge, rocky places, 1100 m, 26 vi 2000, E.Akçicek 3013.
H.
- C. pulvinatus* Sa'ad
Dinar, between Haydarlı and Örmekuyu, Naldoğen ridge, steppe, 1300 m, 26 vi 2000, E.Akçicek 2995.
Endemic-NT, Ir.-Tur., Ch.
- C. arvensis* L.
Şuhut, Başören village, Kırın hill, volcanic rocks, 1600 m, 13 vi 1998, E.Akçicek 2023.
G.
- C. galaticus* Rostan ex Choisy
20 km from Afyon to Şuhut, fallow fields, 1250 m, 23 vi 2001, E.Akçicek 3680.
Endemic-LC, Ir.-Tur., G.
- CUSCUTACEAE**
- Cuscuta campestris* Yunck.
Between Dinar and Çay, Karamık marsh, on *Alhagi pseudalhagi*, 1000 m, 29 x 2000, E.Akçicek 3400.
Vp.

- C. palaestina* Boiss. subsp. *balansae* (Yunck.) Plitmann
Şuhut, Başören village, Çakmaktepe pass, volcanic rocks, on *Daphne oleoides*, 1880 m, 25 vii 2000, E.Akçicek 3125.
Vp.
- C. epithymum* (L.) L. var. *epithymum*
20 km from Afyon to Şuhut, calcareous rocks, on *Artemisia*, 1250 m, 23 vi 2001, E.Akçicek 3674.
Vp.
- C. planiflora* Ten.
Sincanlı, Taşoluk, roadsides, on *Artemisia*, 1100 m, 13 vii 1997, E.Akçicek 1757.
Vp.
- BORAGINACEAE**
Heliotropium europaeum L.
Şuhut, Arızlı village, steppe, 1200 m, 29 x 2000, E.Akçicek 3437.
Th.
- H. dolosum* De Not.
Sandıklı, Başağac village, roadsides, 1000 m, 3 viii 1996, E.Akçicek 1630.
Th.
- H. lasiocarpum* Fisch. & C.A.Mey.
23 km from Afyon to Şuhut, fallow places, 930 m, 24 ix 2000, E.Akçicek 3319.
Ir.-Tur., Th.
- H. suaveolens* M.Bieb.
Şuhut, Mahmut village, fallow places, 1100 m, 23 viii 1998, E.Akçicek 2302.
Th.
- Lappula barbata* (M.Bieb.) Gürke
Dinar, Haydarlı, Uzunmusakırı hill, rocky places, 1500 m, 14 vi 1998, E.Akçicek 2219.
Ir.-Tur., H.
- L. squarrosa* (Retz.) Dumort.
Şuhut, between Atlıhisar and Balçıkhisar, rocky places, 1050 m, 20 v 2000, E.Akçicek 2656.
H.
- Rochelia disperma* (L.f.) C.Koch var. *disperma*
Dinar, Haydarlı, Uzunmusakırı hill, rocky places, 1500 m, 14 vi 1998, E.Akçicek 2226.
Th.
- Asperugo procumbens* L.
Şuhut, steppe, 1100 m, 20 v 1998, E.Akçicek 1929
Euro-Sib., Th.
- Myosotis ramosissima* Rochel ex Schult. subsp. *ramosissima*
Şuhut, steppe, 1100 m, 20 v 1998, E.Akçicek 1932.
Th.
- M. stricta* Link ex Roem. & Schult.
Dinar, Haydarlı, Uzunmusakırı hill, rocky places, 1500 m, 14 vi 1998, E.Akçicek 2220.
Euro-Sib., Th.
- M. refracta* Boiss. subsp. *refracta*
Şuhut, Arızlı village, steppe, 1120 m, 19 v 2001, E.Akçicek 3532.
Medit., Th.
- M. alpestris* F.W.Schmidt subsp. *alpestris*
Şuhut, Kumalar yayla, Kocaçal hill, rocky places, 1950 m, 19 v 2000, E.Akçicek 2552.
H.
- M. lithospermifolia* (Willd.) Hornem.
15 km from Sandıklı to Şuhut, volcanic rocks, 1550 m, 18 v 2000, E.Akçicek 2426.
H.
- Cynoglossum montanum* L.
Between Taşoluk and Şuhut, steppe, 1400 m, 24 vi 2000, E.Akçicek 2822.
Euro-Sib., H.
- Buglossoides arvensis* (L.) Johnst.
20 km from Afyon to Şuhut, steppe, 1100 m, 20 v 1998, E.Akçicek 1949.
Th.
- B. incrassata* (Guss.) Jonhst.
Şuhut, Kumalar yayla, steppe, 1800 m, 13 vi 1998, E.Akçicek 2069.
Medit., Th.
- Echium italicum* L.
Sandıklı, Ballık, roadsides, 1060 m, 4 viii 1997, E.Akçicek 1858.
H.
- Moltkia coerulea* (Willd.) Lehm.
15 km from Afyon to Şuhut, stony slopes, 1100 m, 18 v 2001, E.Akçicek 3542.
Ir.-Tur., H.
- M. aurea* Boiss.
15 km from Afyon to Şuhut, steppe, 1100 m, 18 v 2001, E.Akçicek 3639.
Endemic-LC, Ir.-Tur., H.
- Onosma bracteosum* Hausskn. & Bornm.
Dinar, Akçaköy, steppe, 1000 m, 16 v 1999, E.Akçicek 2330.
Endemic-LC, Ir.-Tur., Ch.
- The height of the specimens is up to 38 cm, but this character is given as 15-30 cm in the Flora of Turkey (VI: 358) (Davis, 1978).
- O. tauricum* Pall. ex Willd. var. *tauricum*
Dinar, Haydarlı, Uzunmusakırı hill, stony slopes, 1640 m, 13 vi 1998, E.Akçicek 2035.
Ch.
- O. aucheranum* DC.
Sandıklı, Ballık, Deliklitaş hill, steppe, 1250 m, 4 viii 1997, E.Akçicek 1884.
E. Medit., H.
- O. armenum* DC.
Sandıklı, between Ballık and Örmekuyu, steppe, 1350 m, 26 vi 2000, E.Akçicek 2958.
Endemic-LC, H.
- Cerinthe minor* L. subsp. *auriculata* (Ten.) Domac
Şuhut, Ortapınar village, Kocatepe, steppe, 1100 m, 20 v 1998, E.Akçicek 1903.
H.
- Anchusa leptophylla* Roem. & Schult. subsp. *leptophylla*
Taşoluk to Şuhut, Koçyatağı yayla, steppe, 1300 m, 19 v 2000, E.Akçicek 2597.
H.
- A. officinalis* L.
15 km from Afyon to Şuhut, steppe, 1100 m, 18 v 2001, E.Akçicek 3632.
Euro-Sib., Ch.
- A. undulata* L. subsp. *hybrida* (Ten.) Cout.
Sincanlı, Taşoluk, field borders, 1200 m, 18 v 2001, E.Akçicek 3598.
Medit., H.
- The stem is up to 53 cm long and leaves up to 9 cm on the specimen, but these characters are given as 15-40 cm and 3-7 cm respectively in the Flora of Turkey (VI: 392-393) (Davis, 1978).

- A. azurea** Mill. var. *azurea*
Sincanlı, between Dadak and Serban, steppe, 1330 m, 23 ix 2000, E.Akçicek 3357.
H.
A. pusilla Guşul.
Dinar, Akçaköy, fallow fields, 900 m, 16 v 1999, E.Akçicek 2340.
Th.
The leaves are up to 330 x 75 mm and calyx lobes linear-lanceolate on the specimens, but leaves are 50-200 x 6-40 mm and calyx lobes linear in the Flora of Turkey (VI: 398) (Davis, 1978).
- A. arvensis** (L.) M.Bieb. subsp. *orientalis* (L.) Nordh.
Dinar, Akçaköy, field borders, 1050 m, 2 iv 2000, E.Akçicek 2412.
Th.
Nonea macrosperma Boiss. & Heldr.
Dinar, Haydarlı, Uzunmusakırı hill, rocky places, 1500 m, 14 vi 1998, E.Akçicek 2195.
Endemic-LC, Ir.-Tur., H.
Alkanna tinctoria (L.) Tausch subsp. *anatolica* Hub.-Mor.
10 km from Sandıklı to Şuhut, volcanic rocks, 1300 m, 18 vi 2000, E.Akçicek 2451.
E. Medit., H.
A. areolata Boiss. var. *areolata*
Şuhut, Arızlı village, on shady rocks, 1120 m, 19 v 2001, E.Akçicek 3534.
Endemic-LC, E. Medit., H.
- SOLANACEAE**
Solanum nigrum L. subsp. *nigrum*
Şuhut, Ortapınar village, field borders, 1100 m, 17 viii 2000, E.Akçicek 3223.
Th.
S. nigrum L. subsp. *schultesii* (Opiz) Wessely
15 km from Sandıklı to Şuhut, volcanic rocks, 1600 m, 25 vii 2000, E.Akçicek 3069.
Th.
S. alatum Moench
Between Dadak and Serban, steppe, 1330 m, 23 ix 2000, E.Akçicek 3305.
Th.
- Datura stramonium** L.
Şuhut, Koçyatağı village, roadsides, 1200 m, 25 vii 2000, E.Akçicek 3142.
Th.
Hyoscyamus niger L.
Şuhut, field borders, 1100 m, 19 v 1997, E.Akçicek 1746.
H.
SCROPHULARIACEAE
Verbascum armenum Boiss. & Kotschy var. *occidentale* Hub.-Mor.
16 km from Sandıklı to Şuhut, volcanic rocks, 1650 m, 23 ix 2000, E.Akçicek 3254.
Endemic-LC, Ir.-Tur., H.
V. phrygium Bornm.
14 km from Sandıklı to Şuhut, volcanic rocks, 1550 m, 25 vii 2000, E.Akçicek 3138.
Endemic-LC, Ir.-Tur., H.
V. krauseanum Murb.
Sandıklı, Bektaş village, Çıralık hill, volcanic rocks, 1200 m, 18 v 2000, E.Akçicek 2476.
Endemic-NT, Ir.-Tur., H.
V. cappadocicum Bornm.
Dinar, Doğanlı village, field borders, 1180 m, 24 ix 2000, E.Akçicek 3249.
Endemic-LC, Ir.-Tur., H.
V. tossiene Freyn & Sint.
Şuhut, Başören village, Kiran hill, volcanic rocks, 1600 m, 13 vi 1998, E.Akçicek 2028.
Endemic-LC, Ir.-Tur., H.
V. lasianthum Boiss. ex Benth.
Şuhut, Koçyatağı village, roadsides, 1200 m, 25 vii 2000, E.Akçicek 3147.
H.
V. insulare Boiss. & Heldr.
Şuhut, Başören village, Kiran hill, rocky slopes, 1500 m, 13 vi 1998, E.Akçicek 2054.
Endemic-LC, Ir.-Tur., H.
The basal leaves are 28 x 13.5 cm; capsule up to 10 mm long, ovate-oblong or pyramide-ovate on the specimens, but basal leaves are 6-20 x 2-11 cm; capsule 5-8 mm and broadly ovate in the Flora of Turkey (VI: 578-579) (Davis, 1978).
- V. cheiranthifolium** Boiss. var. *cheiranthifolium*
Şuhut, Kilimatan hill, rocky places, 2200 m, 25 vi 2000, E.Akçicek 2907.
H.
V. cheiranthifolium Boiss. var. *pisidicum* (Boiss. & Heldr.) Murb.
Şuhut, Kumalar yayla, volcanic rocks, 1800 m, 25 vi 2000, E.Akçicek 2946.
Endemic-LC, H.
Scrophularia scopolii [Hoppe ex] Pers. var. *scopolii*
Şuhut, Başören village, Kiran hill, volcanic rocks, 1400 m, 13 vi 1998, E.Akçicek 2033.
H.
S. umbrosa Dum.
Şuhut, Başören village, streamsides, 1400 m, 25 vi 2000, E.Akçicek 3078.
Euro-Sib., H.
S. libanotica Boiss. subsp. *libanotica* var. *libanotica*
Şuhut, Aydın village, Angılıkaşı hill, rocky slopes, 1200 m, 13 vi 1998, E.Akçicek 1979.
E. Medit., H.
S. xanthoglossa Boiss. var. *decipiens* (Boiss. & Kotschy) Boiss.
Dinar, Haydarlı, waste places, 1250 m, 14 vi 1998, E.Akçicek 2156.
Ir.-Tur., H.
S. canina L. subsp. *bicolor* (Sm.) Greuter
Şuhut, Başören village, damp places, 1500 m, 24 vi 2001, E.Akçicek 3718.
E. Medit., H.
S. floribunda Boiss. & Bal.
Şuhut, Aydın village, steppe, 1200 m, 18 v 2001, E.Akçicek 3612.
Endemic-NT, E. Medit., H.
Chaenorhinum minus (L.) Lange subsp. *minus*
Şuhut, Arızlı village, marsh, 1200 m, 29 x 2000, E.Akçicek 3388.
Th.
Linaria genistifolia (L.) Mill. subsp. *genistifolia*
Dinar, Bağcılar village, field borders, 1100 m, 14 vi 1998, E.Akçicek 2084.
Euro-Sib., H.

L. genistifolia (L.) Mill. subsp.
confertiflora (Boiss.) Davis

15 km from Afyon to Şuhut, calcareous rocks, 1100 m, 18 v 2001, E.Akçicek 3623.

Endemic-LC, Ir.-Tur., H.

L. genistifolia (L.) Mill. subsp. *linifolia* (Boiss.) Davis

Şuhut, Başören village, Kiran hill, volcanic rocks, 1600 m, 13 vi 1998, E.Akçicek 2013.

H.

L. grandiflora Desf.

Şuhut, Arızlı village, fallow fields, 1150 m, 18 v 2001, E.Akçicek 3565.

Ir.-Tur., H.

L. corifolia Desf.

Şuhut, Demirbel village, fallow fields, 1100 m, 19 v 2001, E.Akçicek 3584.

Endemic-LC, Ir.-Tur., H.

L. kurdica Boiss. & Hohen. subsp. *kurdica*

Dinar, Doğanlı village, field margins, 1180 m, 24 ix 2000, E.Akçicek 3246.

Ir.-Tur., H.

The bracts are shorter than the pedicels on the specimen, but the bracts are longer than the pedicels in the Flora of Turkey (VI: 666,667) (Davis, 1978).

Gratiola officinalis L.

Sincanlı, between Dadak and Serban, streamsides, 1330 m, 23 ix 2000, E.Akçicek 3355.

Euro-Sib., G.

Digitalis ferruginea L. subsp. *ferruginea*

Şuhut, Kumalar yayla, volcanic rocks, 1850 m, 23 viii 1998, E.Akçicek 2270.

Euro-Sib., G.

Veronica bozakmanii M.A.Fischer

Şuhut, Başören village, Toklu hill, 1650 m, 19 v 2000, E.Akçicek 2501.

Ir.-Tur., Th.

V. grisebachii S.M.Walters

Şuhut, Başören village, Kiran hill, volcanic rocks, 1600 m, 13 vi 1998, E.Akçicek 2021.

E.Medit., Th.

V. triphyllus L.

Şuhut, Başören village, Toklu hill, steppe, 1650 m, 19 v 2000, E.Akçicek 2584.

Th.

V. bornmuelleri Hausskn.

Dinar, Akçaköy, fallow fields, 900 m, 16 v 1999, E.Akçicek 2373.

Ir.-Tur., Th.

V. polita Fr.

Dinar, Akçaköy, rocky places, 1025 m, 2 iv 2000, E.Akçicek 2404.

Th.

V. triloba (Opiz) Kerner

Şuhut, Kumalar yayla, volcanic rocks, 1800 m, 19 v 2000, E.Akçicek 2592.

Th.

V. hederifolia L.

Şuhut, roadsides, 1100 m, 7 iii 2001, E.Akçicek 3509.

Th.

V. anagallis-aquatica L. subsp. *anagallis-aquatica*

Dinar, Haydarlı, fallow fields, 1250 m, 14 vi 1998, E.Akçicek 2162.

H.

V. anagaloides Guss. subsp. *anagaloides*

Şuhut, between Örmekuyu and Ballık, 1300 m, 24 ix 2000, E.Akçicek 3347.

Th.

V. beccabunga L. subsp. *beccabunga*

Dinar, Akçaköy, wet places, 950 m, 20 v 2000, E.Akçicek 2632.

G.

V. caespitosa Boiss. var. *caespitosa*

Şuhut, Başören village, Çakmaktepe pass, steppe, 1880 m, 13 vi 1998, E.Akçicek 2076.

Endemic-LC, E. Medit., Ch.

V. cuneifolia D. Don subsp. *cuneifolia*

Dinar, Bağcılar village, field borders, 1200 m, 14 vi 1998, E.Akçicek 2114.

Endemic-LC, E. Medit., H.

V. multifida L.

Şuhut, steppe, 1100 m, 20 v 1998, E.Akçicek 1925.

Endemic-LC, Ir.-Tur., Ch.

Euphrasia pectinata Ten.

Sincanlı, Taşoluk, field borders, 1100 m, 13 vii 1997, E.Akçicek 1760.

Euro-Sib., Th.

Parentucellia latifolia (L.) Caruel subsp. *latifolia*

Şuhut, between Taşoluk and Başarap, steppe, 1500 m, 18 v 2001, E.Akçicek 3578.

Medit., Th.

Lathraea squamaria L.

Şuhut, damp places, 1000 m, 7 iii 2001, E.Akçicek 3506.

Euro-Sib., Th.

OROBANCHACEAE

Phelypaea coccinea (M.Bieb.) Poir.

Dinar, between Haydarlı and Soğucak, rocky places, 1100 m, 20 v 2000, E.Akçicek 2684.

Ir.-Tur., Vp.

Orobanche rechingeri Gilli

Dinar, Haydarlı, Uzunmusakırı hill, rocky places, 1500 m, 14 vi 1998, E.Akçicek 2238.

Vp.

O. cernua Loefl.

Şuhut, Ortapınar village, waste places, 1100 m, 17 viii 2000, E.Akçicek 3228.

Vp.

O. minor Sm.

Dinar, between Haydarlı and Örmekuyu, Naldoken ridge, steppe, 1300 m, 26 vi 2000, E.Akçicek 3004.

Vp.

O. caryophyllacea Sm.

Sandıklı, between Ballık and Örmekuyu, Kızılçalın hill, rocky places, 1350 m, 26 vi 2000, E.Akçicek 2959.

Vp.

O. anatolica Boiss. & Reut.

Sandıklı, between Örmekuyu and Soğucak, rocky places, 1400 m, 26 vi 2000, E.Akçicek 2966.

Vp.

ACANTHACEAE

Acanthus hirsutus Boiss.

Dinar, Haydarlı, Uzunmusakırı hill, stony places, 1640 m, 13 vi 1998, E.Akçicek 2037.

Endemic-LC, H.

GLOBULARIACEAE

Globularia orientalis L.

Sandıklı, Ballık, steppe, 1150 m, 4 viii 1997, E.Akçicek 1865.

Ir.-Tur., Ch.

- G. trichosantha** Fisch. & C.A.Mey. subsp. *trichosantha*
Dinar, Akçaköy, steppe, 1000 m, 16 v 1999, E.Akçicek 2311.
Ch.
- VERBENACEAE**
Verbena officinalis L.
Sincanlı, Taşoluk, meadows, 1200 m, 13 vii 1997, E.Akçicek 1777.
- H.
- LAMIACEAE / LABIATAE**
Ajuga salicifolia (L.) Schreb.
Şuhut, Akyatak, volcanic rocks, steppe, 1300 m, 23 vi 2001, E.Akçicek 3756.
- H.
A. chamaepitys (L.) Schreb. subsp. *chia* (Schreb.) Arcang. var. *chia*
Dinar, between Haydarlı and Yıprak, 1100 m, 20 v 2000, E.Akçicek 2619.
- H.
A. chamaepitys (L.) Schreb. subsp. *palaestina* (Boiss.) Bornm.
Şuhut, Ortapınar village, Kocatepe, steppe, 1100 m, 20 v 1998, E.Akçicek 1905.
E. Medit., H.
- A. chamaepitys** (L.) Schreb. subsp. *mesogitana* (Boiss.) Bornm.
Şuhut, Arızlı village, steppe, 1200 m, 29 x 2000, E.Akçicek 3433.
E. Medit., H.
- Teucrium orientale** L. var. *orientale*
Sincanlı, Taşoluk, Mandal hill, steppe, 1400 m, 13 vii 1997, E.Akçicek 1800.
Ir.-Tur., H.
- T. scordium** L. subsp. *scordioides* (Schreb.) Maire & Petitm.
Sandıklı, Ballık, meadows, 1150 m, 4 viii 1997, E.Akçicek 1863.
Euro-Sib., H.
- T. chamaedrys** L. subsp. *lydium* O.Schwarz
Şuhut, Kavaklı village, steppe, 1300 m, 6 vii 1996, E.Akçicek 1613.
E. Medit., Ch.
- T. chamaedrys** L. subsp. *syspirense* (C.Koch) Rech. f.
- Sandıklı, between Ballık and Örmekuyu, Kızılçalın hill, rocky places, 1250 m, 26 vi 2000, E.Akçicek 3031.
Ir.-Tur., Ch.
- T. polium** L.
Dinar, between Karaadilli and Tatarlı, rocky places, 1130 m, 26 vii 2000, E.Akçicek 3183.
Ch.
- Scutellaria orientalis** L. subsp. *pinnatifida* J.R.Edm.
Şuhut, Akyatak, steppe, 1300 m, 23 vi 2001, E.Akçicek 3755.
Ch.
- Phlomis pungens** Willd. var. *hispida* Hub.-Mor.
Sandıklı, between Ballık and Örmekuyu, steppe, 1250 m, 26 vi 2000, E.Akçicek 2954.
H.
- P. armeniaca** Willd.
Sincanlı, Taşoluk, Mandal hill, steppe, 1400 m, 13 vii 1997, E.Akçicek 1830.
Endemic-LC, Ir.-Tur., H.
- P. nissolii** L.
Sandıklı, Başağaç village, steppe, 1000 m, 3 viii 1996, E.Akçicek 1660.
Endemic-LC, Ir.-Tur., H.
- Lamium garganicum** L. subsp. *reniforme* (Montbret & Aucher ex Benth.) R.Mill
Şuhut, Başören village, Kocaçal hill, rocky places, 1950 m, 19 v 2000, Akçicek 2550.
H.
- L. garganicum** L. subsp. *laevigatum* Arcang.
Şuhut, Başören village, steppe, 1400 m, 19 v 2001, E.Akçicek 3515.
Euxine, H.
- L. amplexicaule** L.
Şuhut, Siner village, field borders, 1200 m, 19 v 1997, E.Akçicek 1697.
Euro-Sib., Th.
- L. macrodon** Boiss. & Huet
Dinar, Akçaköy, rocky places, 1025 m, 2 iv 2000, E.Akçicek 2409.
Ir.-Tur., Th.
- L. purpureum** L. var. *purpureum*
Şuhut, field borders, 1100 m, 19 v 1997, E.Akçicek 1740.
Euro-Sib., Th.
- Wiedemannia orientalis** Fisch. & C.A.Mey.
5 km from Sandıklı to Şuhut, Bektaş village, fallow fields, 1150 m, 18 v 2000, E.Akçicek 2460.
Endemic-LC, Ir.-Tur., Th.
- Ballota nigra** L. subsp. *anatolica* P.H.Davis
Sincanlı, Taşoluk, field borders, 1100 m, 13 vii 1997, E.Akçicek 1791.
Endemic-LC, Ir.-Tur., H.
- Marrubium vulgare** L.
20 km from Afyon to Şuhut, calcareous rocks, 1300 m, 23 vi 2001, E.Akçicek 3665.
H.
- M. parviflorum** Fisch. & C.A.Mey. subsp. *oligodon*
Dinar, between Karaadilli and Tatarlı, rocky places, 1130 m, 26 vii 2000, E.Akçicek 3196.
Ir.-Tur., H.
- M. parviflorum** Fisch. & C.A.Mey. subsp. *parviflorum* (Boiss.) Seybold
25 km from Afyon to Şuhut, stony slopes, 1350 m, 23 vi 2001, E.Akçicek 3753.
Endemic-LC, H.
- M. trachyticum** Boiss.
Şuhut, Başören village, Kilimatan hill, rocky places, 2200 m, 25 vi 2000, E.Akçicek 2896.
Endemic-NT, Ir.-Tur., H.
- M. peregrinum** L.
Şuhut, Ortapınar village, field borders, 1100 m, 17 viii 2000, E.Akçicek 3224.
Ch.
- M. astracanicum** Jacq. subsp. *astracanicum*
Şuhut, Kumalar yayla, steppe, 1820 m, 24 vi 2001, E.Akçicek 3721.
Ch.
- Sideritis lanata** L.
Şuhut, Ortapınar village, steppe, 1100 m, 19 v 1997, E.Akçicek 1709.
E. Medit., Th.

- S. akmanii** Z.Aytaç, M.Ekici & A.Dönmez
Şuhut, Başören village, Çakmaktepe pass, steppe, 1880 m, 6 vii 1996, E.Akçicek 1577. 15 km from Sandıklı to Şuhut, Kumalar yayla, steppe, 1600 m, 25 vii 2000, E.Akçicek 3066.
- Endemic-VU, H.
The species is known only from the type collection in the study area (Duman et al., 1995). It was collected only from two given localities in the area. The habitat of the species are under threat from over grazing.
- S. galatica** Bornm.
Şuhut, Başören village, stony slopes, 1950 m, 28 x 2000, E.Akçicek 3474.
- Endemic-NT, H.
S. libanotica Labill. subsp. *linearis* (Benth.) Bornm.
Sandıklı, Soğucak village, rocky places, 1500 m, 4 viii 1997, E.Akçicek 1868.
- Endemic-LC, E. Medit., H.
S. cretica L. subsp. *anatolica* Rech. f.
12 km from Sandıklı to Şuhut, volcanic rocks, 1400 m, 25 vii 2000, E.Akçicek 3097.
- Endemic-LC, H.
S. byzantina C.Koch
Şuhut, Aydin village, Angılıkaşı hill, rocky slopes, 1200 m, 13 vi 1998, E.Akçicek 1981.
- Euro-Sib., H.
S. iberica M.Bieb. subsp. *iberica* var. *densipilosa* Bhattacharjee
Sincanlı, Taşoluk, Mandal hill, steppe, 1400 m, 13 vii 1997, E.Akçicek 1767.
- Endemic-LC, Ir.-Tur., H.
S. iberica M.Bieb. subsp. *stenostachya* (Boiss.) Rech. f.
Şuhut, Güneytepe village, steppe, 1100 m, 25 vi 2000, E.Akçicek 2909.
- Ir.-Tur., H.
S. annua (L.) L. subsp. *annua* var. *lycaonica* Bhattacharjee
4 km from Şuhut to Afyon, steppe, 1300 m, 18 v 2001, E.Akçicek 3653.
- Ir.-Tur., H.
- Nepeta italicica** L.
Dinar, between Haydarlı and Örmekuyu, Direkli ridge, rocky places, 1200 m, 26 vi 2000, E.Akçicek 3040.
- H.
N. nuda L. subsp. *nuda*
Sincanlı, Taşoluk, rocky places, 1300 m, 24 vi 2000, E.Akçicek 2739.
- H.
N. heliotropifolia Lam. var. *heliotropifolia*
Şuhut, Ağızkara village, fallow fields, 1150 m, 18 v 2001, E.Akçicek 3564.
- Ir.-Tur., H.
This taxon was previously reported from A9, B8 and B9 in Turkey. It is the first time this species has ever been collected from the study area. It is distributed in the Irano-Turanian area, north-west and west Iran. It is possible that this taxon is distributed in other parts of the Turkish/Irano-Turanian region.
- Prunella vulgaris** L.
Sincanlı, Taşoluk, meadows, 1100 m, 13 vii 1997, E.Akçicek 1774.
- Euro-Sib., H.
P. laciniata (L.) L.
Between Taşoluk and Şuhut, wet places, 1400 m, 24 vi 2000, E.Akçicek 2855.
- Euro-Sib., H.
Satureja cuneifolia Ten.
Sandıklı, Soğucak village, rocky places, 1500 m, 4 viii 1997, E.Akçicek 1874.
- Medit., Ch.
S. wiedemanniana (Lall.) Velen.
15 km from Sandıklı to Afyon, steppe, 1500 m, 23 ix 2000, E.Akçicek 3296.
- Endemic-LC, Ch.
Clinopodium vulgare L. subsp. *vulgare*
Sandıklı, between Ballık and Örmekuyu, Kızılçalın hill, rocky places, 1350 m, 26 vi 2000, E.Akçicek 2949.
- Euro-Sib., H.
Acinos rotundifolius Pers.
Şuhut, Siner village, road margins, 1200 m, 19 v 1997, E.Akçicek 1706.
- Th.
- Micromeria myrtifolia** Boiss. & Hohen.
Şuhut, between Koçyatağı and Dadak, volcanic rocks, 1350 m, 23 vi 2001, E.Akçicek 3737.
- E. Medit., Ch.
M. cristata (Hampe) Griseb. subsp. *phrygia* P.H.Davis
Dinar, between Haydarlı and Örmekuyu, Direkli ridge, rocky places, 1200 m, 26 vi 2000, E.Akçicek 3051.
- Endemic-LC, E. Medit., Ch.
Thymus zyggioides Griseb. var. *zyggioides*
Şuhut, Başören village, Kırın hill, volcanic rocks, 1600 m, 13 vi 1998, E.Akçicek 2022.
- E. Medit., Ch.
T. zyggioides Griseb. var. *lycaonicus* (Celak.) Ronniger
Sincanlı, Taşoluk, steppe, 1300 m, 24 vi 2000, E.Akçicek 2741.
- Endemic-LC, E. Medit., Ch.
T. leucostomus Hausskn. & Velen. var. *leucostomus*
4 km from Şuhut to Afyon, steppe, 1300 m, 18 v 2001, E.Akçicek 3652.
- Endemic-LC, Ch.
T. thracicus Velen. var. *longidens* (Velen.) Jalas
Şuhut, Başören village, Çakmaktepe pass, volcanic rocks, 1880 m, 25 vii 2000, E.Akçicek 3121.
- Ch.
T. longicaulis C.Presl subsp. *longicaulis* var. *subisophyllus* (Borbás) Jalas
Dinar, Haydarlı, Uzunmusakırı hill, rocky places, 1500 m, 14 vi 1998, E.Akçicek 2103.
- Ch.
T. longicaulis C.Presl subsp. *chaubardii* (Boiss. & Heldr. ex Rchb. f.) Jalas var. *chaubardii*
Sandıklı, Dutağacı village, volcanic areas, 1300 m, 15 vii 1985, Y.Akman 14114.
- Ch.
Mentha pulegium L.
Sincanlı, Taşoluk, steppe, 1450 m, 28 x 2000, E.Akçicek 3470.
- H.
M. longifolia (L.) Huds. subsp. *typhoides* (Briq.) Harley var. *typhoides*
Sincanlı, Taşoluk, field margins, 1100 m, 13 vii 1997, E.Akçicek 1786.
- H.

- M. spicata** L. subsp. *spicata*
Şuhut, Başören village, streamsides, 1400 m, 25 vii 2000, E.Akçicek 3074.
H.
- M. spicata** L. subsp. *tomentosa* (Briq.) Harley
Şuhut, between Örmekuyu and Ballık, wet places, 1300 m, 24 ix 2000, E.Akçicek 3342.
H.
- Ziziphora tenuior** L.
Şuhut, Akyatak, volcanic areas, 1300 m, 23 vi 2001, E.Akçicek 3757.
Ir.-Tur., Th.
- Salvia tomentosa** Mill.
Dinar, Haydarlı, waste places, 1250 m, 14 vi 1998, E.Akçicek 2149.
Medit., Ch.
- S. bracteata** Banks & Sol.
25 km from Afyon to Şuhut, stony slopes, 1350 m, 23 vi 2001, E.Akçicek 3745.
H.
- S. cadmica** Boiss.
Dinar, between Haydarlı and Soğucak, Naldöken ridge, rocky places, 1400 m, 20 v 2000, E.Akçicek 2603.
Endemic-LC, H.
- S. cryptantha** Montbret & Aucher ex Benth.
20 km from Afyon to Şuhut, steppe, 1100 m, 20 v 1998, E.Akçicek 1952.
Endemic-LC, Ir.-Tur., H.
- S. syriaca** L.
Dinar, Bağcılar village, roadsides, 1100 m, 14 vi 1998, E.Akçicek 2089.
Ir.-Tur., G.
- S. sclarea** L.
Şuhut, Güneytepe village, steppe, 1100 m, 25 vi 2000, E.Akçicek 2910.
H.
- S. aethiopis** L.
Dinar, Bağcılar village, field margins, 1100 m, 14 vi 1998, E.Akçicek 2171.
H.
- S. frigida** Boiss.
Şuhut, Başören village, Çakmaktepe pass, steppe, 1880 m, 13 vi 1998, E.Akçicek 2071.
Ir.-Tur., H.
- S. candidissima** Vahl subsp. *occidentalis*
Hedge
20 km from Afyon to Şuhut, calcareous rocks, 1300 m, 23 vi 2002, E.Akçicek 3669.
H.
- S. cyanescens** Boiss. & Bal.
Dinar, between Karaadilli and Tatarlı, rocky places, 1130 m, 26 vii 2000, E.Akçicek 3188.
Endemic-LC, Ir.-Tur., H.
- S. virgata** Jacq.
Şuhut, Güneytepe village, steppe, 1100 m, 25 vi 2000, E.Akçicek 2918.
Ir.-Tur., H.
- S. dichroantha** Stapf
Sandıklı, Soğucak village, steppe, 1525 m, 4 viii 1997, E.Akçicek 1847.
Endemic-LC, Ir.-Tur., H.
- S. verticillata** L. subsp. *amasiaca* (Freyn & Bornm.) Bornm.
Şuhut, Başören village, volcanic areas, 1400 m, 6 vii 1996, E.Akçicek 1595.
Ir.-Tur., H.
The petiol is sessile on the specimen, but it is 2-4.5 cm long in the Flora of Turkey (VII: 456-457) (Davis, 1982)
- PLUMBAGINACEAE**
- Plumbago europaea** L.
Sandıklı, Başağac village, roadsides, 1100 m, 3 viii 1996, E.Akçicek 1623.
Euro-Sib., H.
- Acantholimon acerosum** (Willd.) Boiss. var. *acerosum*
Sandıklı, Örmekuyu, steppe, 1450 m, 4 viii 1997, E.Akçicek 1851.
Ir.-Tur., Ch.
- A. glumaceum** (Jaub. & Spach) Boiss.
10 km from Sandıklı to Şuhut, Başkaya hill, volcanic areas, 1300 m, 25 vii 2000, E.Akçicek 3102.
Ir.-Tur., Ch.
- A. caesareum** Boiss. & Bal.
14 km from Sandıklı to Şuhut, volcanic rocks, 1550 m, 25 vii 2000, E.Akçicek 3130.
Endemic-LC, Ir.-Tur., Ch.
- A. puberulum** Boiss. & Bal. var. *puberulum*
Şuhut, Başören village, Çakmaktepe pass, volcanic rocks, 1880 m, 23 viii 1998, E.Akçicek 2284.
Ir.-Tur., Ch.
- A. puberulum** Boiss. & Bal. var. *longiscapum* Bokhari
Şuhut, Başören yayla, Kiran hill, volcanic areas, 1700 m, 23 viii 1998, E.Akçicek 2278.
Endemic-VU, Ch.
- A. ulicinum** (Willd. ex Schult.) Boiss. subsp. *ulicinum* var. *ulicinum*
Şuhut, Başören village, Çakmaktepe pass, volcanic areas, 1880 m, 6 vii 1996, E.Akçicek 1553.
E. Medit., Ch.
- PLANTAGINACEAE**
- Plantago major** L. subsp. *major*
Şuhut, Başören village, streamsides, 1400 m, 25 vii 2000, E.Akçicek 3075.
H.
- P. major** L. subsp. *intermedia* (Gilib.) Lange
Between Dinar and Çay, Karamık marsh, 1000 m, 29 x 2000, E.Akçicek 3480.
H.
- P. holosteum** Scop.
Sincanlı, Taşoluk, Mandal hill, steppe, 1300 m, 13 vii 1997, E.Akçicek 1804.
Medit., H.
- P. lanceolata** L.
Dinar, Haydarlı, waste places, 1250 m, 14 vi 1998, E.Akçicek 2163.
H.
- THYMELAEACEAE**
- Daphne oleoides** Schreb. subsp. *oleoides*
Şuhut, Başören village, Çakmaktepe pass, volcanic areas, steppe, 1880 m, 6 vii 1996, E.Akçicek 1573.
Ch.
- Thymelaea passerina** (L.) Coss. & Germ.
Sandıklı, Dutağıç village, volcanic areas, 1300 m, 15 vii 1985, Y.Akman
Th.

ELAEAGNACEAE	E. herniarifolia Willd. var. <i>herniarifolia</i>	U. minor Mill. subsp. <i>minor</i>
<i>Elaeagnus angustifolia</i> L.	Dinar, Haydarlı, Uzunmusakırı hill, rocky places, 1600 m, 14 vi 1998, E.Akçicek 2134.	Sincanlı, Taşoluk, field margins, 1200 m, 24 vi 2000, E.Akçicek 2837.
Dinar, Akçaköy, field margins, 900 m, 16 vi 1999, E.Akçicek 2339.	H.	Ph.
Ph.	E. anacampseros Boiss. var. <i>anacampseros</i>	The leaves are glandular on both surfaces on the specimen, but they are glandular only on the underside in the Flora of Turkey (VII: 647) (Davis, 1982).
LORANTHACEAE	Sandıklı, Başağaç village, steppe, 1000 m, 3 viii 1996, E.Akçicek 1626.	Celtis tournefortii Lam.
<i>Viscum album</i> L. subsp. <i>album</i>	Endemic-LC, H.	Şuhut, between Koçyatağı and Dadak, volcanic rocks, 1350 m, 23 vi 2001, E.Akçicek 3734.
Şuhut, İlyaslı village, steppe, 1500 m, 25 vi 2000, E.Akçicek 2875.	E. macroclada Boiss.	Ph.
Vp.	E. sequieriana Neck. subsp. <i>sequieriana</i>	JUGLANDACEAE
ARISTOLOCHIACEAE	Şuhut, Tekke village, steppe, 1200 m, 6 vii 1996, E.Akçicek 1604.	<i>Juglans regia</i> L.
<i>Aristolochia maurorum</i> L.	Euro.-Sib., H.	Şuhut, Aydın village, field margins, 1150 m, 19 v 2000, E.Akçicek 2514.
Dinar, Bağcılar village, field margins, 1100 m, 14 vi 1998, E.Akçicek 2095.	E. kotschyana Fenzl	Ph.
Ir.-Tur., H.	Sandıklı, Soğucak village, steppe, 1525 m, 4 viii 1997, E.Akçicek 1843.	PLATANACEAE
EUPHORBIACEAE	E. Medit., H.	<i>Platanus orientalis</i> L.
<i>Andrachne telephioides</i> L.	URTICACEAE	Şuhut, Arızlı village, wet places, 1120 m, 19 v 2001, E.Akçicek 3579.
20 km from Afyon to Şuhut, calcareous rocks, 1300 m, 23 vi 2001, E.Akçicek 3722.	<i>Urtica urens</i> L.	Ph.
H.	Şuhut, Ortapınar village, field margins, 1100 m, 17 viii 2000, E.Akçicek 3231.	FAGACEAE
<i>Chrozophora tinctoria</i> (L.) Raf.	Th.	<i>Castanea sativa</i> Mill.
23 km from Afyon to Şuhut, fallow fields, 930 m, 24 ix 2000, E.Akçicek 3321.	<i>U. dioica</i> L.	Şuhut, Kavaklı village, wet places, 1300 m, 13 vi 1998, E.Akçicek 1962.
Th.	Şuhut, Kumalar yayla, steppe, 1800 m, 6 vii 1996, E.Akçicek 1570.	Euro.-Sib., Ph.
<i>Mercurialis annua</i> L.	Euro.-Sib., H.	<i>Quercus vulcanica</i> [Boiss. & Heldr. ex] Kotschy
Şuhut, Ortapınar village, fallow fields, 1100 m, 17 viii 2000, E.Akçicek 3230.	<i>Parietaria judaica</i> L.	Şuhut, Başören village, forest, 1600 m, 23 viii 1998, E.Akçicek 2291.
Th.	Şuhut, Arızlı village, rock crevices, 1220 m, 19 v 2001, E.Akçicek 3528.	Endemic-NT, E. Medit., Ph.
<i>Euphorbia stricta</i> L.	H.	<i>Q. pubescens</i> Willd.
Sincanlı, Taşoluk, Mandal hill, steppe, 1300 m, 13 vii 1997, E.Akçicek 1789.	MORACEAE	Şuhut, Aydın village, forest, 1150 m, 19 v 2000, E.Akçicek 2510.
Euro-Sib., Th.	<i>Ficus carica</i> L. subsp. <i>carica</i>	Ph.
<i>E. rhabdotisperma</i> Radcl.-Sm.	Şuhut, İlyaslı village, steppe, 1225 m, 23 ix 2000, E.Akçicek 3263.	<i>Q. cerris</i> L. var. <i>cerris</i>
Dinar, Haydarlı, Uzunmusakırı hill, rocky places, 1500 m, 14 vi 1998, E.Akçicek 2112.	Ph.	Sincanlı, Serban, forest, 1200 m, 23 viii 1998, E.Akçicek 2271.
Ir.-Tur., H.	ULMACEAE	Medit., Ph.
<i>E. helioscopia</i> L.	<i>Ulmus glabra</i> Huds.	SALICACEAE
Şuhut, Sinerköy, field margins, 1200m, 19 v 1997, E.Akçicek 1699.	Sincanlı, Taşoluk, field margins, 1200 m, 18 v 2001, E.Akçicek 3605.	<i>Salix alba</i> L.
Th.	Euro.-Sib., Ph.	Sandıklı, Başağaç village, streamsides, 1000 m, 3 viii 1996, E.Akçicek 1658.
<i>E. aleppica</i> L.		Euro-Sib., Ph.
Dinar, Bağcılar village, field margins, 1100 m, 14 vi 1998, E.Akçicek 2092.		
Th.		

<i>Populus alba</i> L.	<i>G. floribundum</i> Sm. subsp. <i>floribundum</i>	LEMNACEAE
Sandıklı, roadsides, 1100 m, 28 x 2000, E.Akçicek 3449.	Şuhut, between Koçyatağı and Dadak, volcanic rocks, 1350 m, 23 vi 2001, E.Akçicek 3741.	<i>Lemna minor</i> L.
Euro-Sib., Ph.	Th.	Between Taşoluk and Şuhut, water, 1200 m, 24 vi 2000, E.Akçicek 2774.
<i>P. tremula</i> L.	<i>Cruciata taurica</i> (Pall. ex Willd.) Ehrend.	Hd.
Sincanlı, Taşoluk, wet places, 1450 m, 28 x 2000, E.Akçicek 3465.	Şuhut, Ortapınar village, Kocatepe, steppe, 1100 m, 20 v 1998, E.Akçicek 1906.	LILIACEAE
Euro-Sib., Ph.	Ir.Tur., H.	<i>Asphodeline taurica</i> (Pall.) Kunth
RUBIACEAE	<i>C. pedemontana</i> (Bellardii) Ehrend.	15 km from Afyon to Şuhut, stony places, 1100 m, 18 v 2001, E.Akçicek 3543.
<i>Putoria calabrica</i> (L. f.) DC.	Between Taşoluk and Şuhut, steppe, 1400 m, 24 vi 2000, E.Akçicek 2819.	E. Medit., G.
Dinar, Akçaköy, Saribelen ridge, on rocks, 1100 m, 26 vi 2000, E.Akçicek 3012.	Th.	<i>Allium cepa</i> L.
Medit., Ch.	<i>C. articulata</i> (L.) Ehrend.	Sincanlı, Taşoluk, waste places, 1200 m, 24 vi 2000, E.Akçicek 2867.
<i>Asperula lilaciflora</i> Boiss. subsp. <i>phrygia</i> (Bornm.) Schönb.-Tem.	Between Taşoluk and Şuhut, Koçyatağı Yayla, volcanic areas, 1400 m, 19 v 2000, E.Akçicek 2548.	G.
Sandıklı, between Ballık and Örmekuyu, Kızılıçalın hill, rocky places, 1350 m, 26 vi 2000, E.Akçicek 3020.	Ir.-Tur., Th.	<i>A. paniculatum</i> L. subsp. <i>paniculatum</i>
Endemic-LC, Ch.	<i>Rubia tinctorum</i> L.	Şuhut, Başören village, rocky slopes, 1950 m, 28 x 2000, E.Akçicek 3475.
<i>A. arvensis</i> L.	Şuhut, Anayurt village, field margins, 1100 m, 26 vii 2000, E.Akçicek 3211.	Medit., G.
20 km from Afyon to Şuhut, steppe, 1100 m, 20 v 1998, E.Akçicek 1950.	Ir.-Tur., H.	<i>A. pseudoflavum</i> Vved.
Medit., Th.	MONOCOTYLEDONES	Dinar, Akçaköy, Saribelen ridge, rocky places, 1100 m, 26 vii 2000, E.Akçicek 3175.
<i>Galium verum</i> L. subsp. <i>verum</i>	BUTOMACEAE	Ir.-Tur., G.
Sandıklı, Ballık, field margins, 1100 m, 26 vi 2000, E.Akçicek 2978.	<i>Butomus umbellatus</i> L.	<i>A. phrygium</i> Boiss.
Euro-Sib., H.	Sincanlı, Akören village, marsh, 1000 m, 24 vi 2000, E.Akçicek 2701.	Şuhut, between Koçyatağı and Dadak, volcanic rocks, 1350 m, 23 vi 2001, E.Akçicek 3740.
<i>G. asparagifolium</i> Boiss. & Heldr.	Euro-Sib., G.	Endemic-LC, Ir.-Tur., G.
Sandıklı, Dutağacı village, volcanic areas, 1300 m, 15 vii 1985, Y.Akman.	ALISMATACEAE	<i>A. atrovirens</i> Boiss.
E. Medit., H.	<i>Alisma lanceolatum</i> With.	20 km from Afyon to Şuhut, calcareous rocks, 1300 m, 23 vi 2001, E.Akçicek 3664.
<i>G. incanum</i> Sm. subsp. <i>elatius</i> (Boiss.) Ehrend.	Between Taşoluk and Şuhut, marsh, 1200 m, 24 vi 2000, E.Akçicek 2746.	G.
Şuhut, Arızlı village, rocky places, 1120 m, 19 v 2001, E.Akçicek 3519.	G.	<i>A. scorodoprasum</i> L. subsp. <i>rotundum</i> (L.) Stearn
Ir.-Tur., Ch.	JUNCAGINACEAE	Dinar, Haydarlı, Uzunmusakırı hill, rocky places, 1500 m, 14 vi 1998, E.Akçicek 2102.
<i>G. dumosum</i> Boiss.	<i>Triglochin palustris</i> L.	Medit., G.
Şuhut, Arızlı village, rocky places, 1120 m, 19 v 2001, E.Akçicek 3527.	Şuhut, Arızlı village, wet places, 1200 m, 29 x 2000, E.Akçicek 3440.	<i>A. vineale</i> L.
Endemic-LC, Ch.	G.	Şuhut, Tekke village, steppe, 1200 m, 6 vii 1996, E.Akçicek 1606.
<i>G. spurium</i> L. subsp. <i>spurium</i>	ARACEAE	G.
Sandıklı, roadsides, 1000 m, 20 v 2000, E.Akçicek 2674.	<i>Arum maculatum</i> L.	<i>Scilla bifolia</i> L.
Euro-Sib., Th.	Dinar, Akçaköy, rocky places, 1025 m, 2 iv 2000, E.Akçicek 2401.	Şuhut, Başören village, Toklu hill, steppe, 1650 m, 19 v 2000, E.Akçicek 2578.
<i>G. tricornutum</i> Dandy	G.	G.
Dinar, Çay and Denizli crossroads, fallow fields, 960 m, 19 v 1999, E.Akçicek 2352.	<i>A. elongatum</i> Steven subsp. <i>elongatum</i>	
Medit., Th.	Şuhut, Kumalar yayla, volcanic rocks, 1800 m, 19 v 2000, E.Akçicek 2594.	

<i>Ornithogalum narbonense</i> L.	Endemic-LC, E. Medit., G.	<i>C. pallasii</i> Goldb. subsp. <i>pallasii</i>
Dinar, Bağcılar village, field margins, 1100 m, 14 vi 1998, E.Akçicek 2096.	The pedicels are longer than the perianth on the specimen, but they are as long as the perianth in the Flora of Turkey (VIII: 268) (Davis, 1984).	Between Dinar and Çay, Karamık marsh, 1000 m, 29 x 2000, E.Akçicek 3392.
Medit., G.		G.
<i>O. oligophyllum</i> E.D.Clarke	<i>Hyacinthella lineata</i> (Steud.) Chouard	<i>Gladiolus anatolicus</i> (Boiss.) Stapf
Şuhut, Başören village, Toklu hill, steppe, 1650 m, 19 v 2000, E.Akçicek 2576.	Dinar, Akçaköy, rocky places, 1025 m, 2 iv 2000, E.Akçicek 2401.	4 km from Şuhut to Afyon, steppe, 1300 m, 18 v 2001, E.Akçicek 3647.
G.	Endemic-LC, E. Medit., G.	VU, E. Medit., G.
<i>O. montanum</i> Cirillo	<i>H. acutiloba</i> K.M.Perss. & Wendelbo	<i>G. atroviolaceus</i> Boiss.
Dinar, Akçaköy, steppe, 1000 m, 16 v 1999, E.Akçicek 2323.	Dinar, Akçaköy, rocky places, 1025 m, 2 iv 2000, E.Akçicek 2402.	Sandıklı, Haydarlı, marsh, 1640 m, 13 vi 1998, E.Akçicek 2038.
E. Medit., G.	Endemic-LC, Ir-Tur., G.	Ir.-Tur., G.
<i>O. ulophyllum</i> Hand.-Mazz.	<i>Tulipa orphanidea</i> Boiss. ex Heldr.	SPARGANIACEAE
Şuhut, Aydın village, waste places, 1150 m, 19 v 2000, E.Akçicek 2519.	Şuhut, Başören village, steppe, 1400 m, 19 v 2001, E.Akçicek 3514.	<i>Sparganium erectum</i> L. subsp. <i>erectum</i>
G.	E. Medit., G.	Sincanlı, Akören village, marsh, 1050 m, 23 ix 2000, E.Akçicek 3292.
The leaves are 2 mm broad on the specimen, but they are (5-) 7-9 mm broad in the Flora of Turkey (VIII: 237-238) (Davis, 1984).	<i>Gagea granatellii</i> (Parl.) Parl.	Euro-Sib., G.
<i>O. armeniacum</i> Baker	10 km from Şuhut to Afyon, steppe, 1300 m, 2 iv 2000, E.Akçicek 2397.	TYPHACEAE
Sandıklı, Bektaş village, Çıralık hill, volcanic rocks, 1200 m, 18 v 2000, E.Akçicek 2473.	Medit., G.	<i>Typha latifolia</i> L.
E. Medit., G.	The basal leaves are 4 in number and up to 18 cm long on the specimen, but they are 2 in number and 6-16 cm long respectively in the Flora of Turkey (VIII: 325-326) (Davis, 1984).	20 km from Sandıklı to Afyon, marsh, 1150 m, 26 vii 2000, E.Akçicek 3189.
<i>Muscari comosum</i> (L.) Mill.	<i>Colchicum burttii</i> Meikle	Hd.
Sincanlı, Taşoluk, fallow fields, 1200 m, 24 vi 2000, E.Akçicek 2866.	10 km from Şuhut to Afyon, steppe, 1300 m, 2 iv 2000, E.Akçicek 2396.	The lamina is up to 20 mm broad on the specimen, but it is described as 6-16 mm broad in the Flora of Turkey (VIII: 559-560) (Davis, 1984).
Medit., G.	Endemic-LC, E. Medit., G.	<i>T. angustifolia</i> L.
<i>M. tenuiflorum</i> Tausch	IRIDACEAE	Between Dinar and Çay, Karamık marsh, 1000 m, 29 x 2000, E.Akçicek 3479.
Şuhut, Başören yayla, steppe, 1600 m, 25 vi 2000, E.Akçicek 2892.	<i>Crocus biflorus</i> Mill. subsp. <i>isauricus</i> (Siehe ex Bowles) B.Mathew	Hd.
G.	Sincanlı, Taşoluk, fallow fields, 1200 m, 2 iv 2000, E.Akçicek 2398.	<i>T. domingensis</i> Pers.
<i>M. armeniacum</i> Leichtlin ex Baker	Endemic-LC, E. Medit., G.	Şuhut, Güneytepe village, marsh, 1150 m, 23 ix 2000, E.Akçicek 3370.
20 km from Afyon to Şuhut, steppe, 1100 m, 20 v 1998, E.Akçicek 1947.	<i>C. biflorus</i> Mill. subsp. <i>tauri</i> (Maw) B.Mathew	Hd.
G.	Şuhut, Başören village, Toklu hill, steppe, 1650 m, 19 v 2000, E.Akçicek 2577.	JUNCACEAE
<i>M. neglectum</i> Guss.	Ir.-Tur., G.	<i>Juncus inflexus</i> L.
Şuhut, between Ortapınar and Sinerköy, stony places, 1100 m, 19 v 1997, E.Akçicek 1683.	The leaves are 3 in number on the specimens, but they are given as 4-9 in number in the Flora of Turkey (VIII: 421-424) (Davis, 1984).	15 km from Sandıklı to Afyon, marsh, 1050 m, 23 ix 2000, E.Akçicek 3293.
G.	<i>C. olivieri</i> Gay subsp. <i>olivieri</i>	G.
<i>Bellevalia tauri</i> Feinbrun	10 km from Şuhut to Afyon, steppe, 1300 m, 2 iv 2000, E.Akçicek 2395.	<i>J. effusus</i> L.
Dinar, Akçaköy, waste places, 900 m, 16 v 1999, E.Akçicek 2353.	G.	Between Taşoluk and Şuhut, spring margins, 1400 m, 24 vi 2001, E.Akçicek 2806.

- J. articulatus L.**
Between Taşoluk and Akyatak, spring margins, 1500 m, 23 vi 2001, E.Akçicek 3659.
Euro.-Sib., G.
- CYPERACEAE**
- Eleocharis palustris** (L.) Roem. & Schult.
Sincanlı, Akören village, marsh, 1000 m, 24 vi 2000, E.Akçicek 2706.
- G.
E. mitracarpa Steud.
Dinar, Haydarlı, spring margins, 1500 m, 14 vi 1998, E.Akçicek 2108.
- G.
Schoenoplectus lacustris (L.) Palla
subsp. *lacustris*
Sincanlı, Akören village, marsh, 1050 m, 28 x 2000, E.Akçicek 3483.
- Hd.
S. litoralis (Schrad.) Palla
Sincanlı, Akören village, marsh, 1000 m, 24 vi 2000, E.Akçicek 2702.
- Hd.
Bolboschoenus maritimus (L.) Palla var. *maritimus*
Sincanlı, Akören village, marsh, 1000 m, 24 vi 2000, E.Akçicek 2703.
- G.
Scirpoides holoschoenus (L.) Soják
Şuhut, Anayurt village, meadows, 1200 m, 24 ix 2000, E.Akçicek 3367.
- G.
Carex spicata Huds.
Dinar, Haydarlı, damp places, 1500 m, 14 vi 1998, E.Akçicek 2201.
Euro-Sib., G.
- C. divulsa** Stokes subsp. *leersii* (Kneuck.) W.Koch.
Sincanlı, Taşoluk, meadows, 1450 m, 28 x 2000, E.Akçicek 3466.
Euro-Sib., G.
- C. flacca** Schreb. subsp. *serrulata* (Biv.) Greuter
Şuhut, Arızlı village, meadows, 1200 m, 29 x 2000, E.Akçicek 3416.
Medit., G.
- C. distans** L.
Dinar, Haydarlı, meadows, 1500 m, 14 vi 1998, E.Akçicek 2200.
Euro-Sib., G.
- POACEAE / GRAMINEAE**
- Elymus panormitanus** (Parl.) Tzvelev
Dinar, Haydarlı, Uzunmusakırı hill, steppe, 1550 m, 14 vi 1998, E.Akçicek 2146.
Medit., H.
- E. lazicus** (Boiss.) Melderis subsp. *divaricatus* (Boiss. & Bal.) Melderis
Şuhut, Arızlı village, steppe, 1120 m, 19 v 2001, E.Akçicek 3530.
Endemic-LC, Ir.-Tur., G.
- E. elongatus** (Host) Runemark subsp. *ponticus* (Popov.) Melderis
Between Dinar and Çay, Karamık marsh, 1000 m, 29 x 2000, E.Akçicek 3398.
H.
- E. repens** (L.) Gould subsp. *elongatiformis* (Drobow) Melderis
Şuhut, Anayurt village, steppe, 1100 m, 26 vii 2000, E.Akçicek 3163.
Ir.-Tur., G.
- E. hispidus** (Opiz) Melderis subsp. *hispidus*
Şuhut, Anayurt village, field margins, 1100 m, 26 vii 2000, E.Akçicek 3153.
G.
- E. hispidus** (Opiz) Melderis subsp. *podpyerae* (Nábelék) Melderis
Dinar, Tatarlı, roadsides, 1100 m, 26 vii 2000, E.Akçicek 3195.
Ir.-Tur., G.
- E. hispidus** (Opiz) Melderis subsp. *barbulatus* (Schur) Melderis
Şuhut, between Kocyatağı and Dadak, volcanic rocks, 1350 m, 23 vi 2001, E.Akçicek 3738.
G.
- Aegilops cylindrica** Host
15 km from Afyon to Şuhut, stony slopes, 1100 m, 18 v 2001, E.Akçicek 3541.
Ir.-Tur., Th.
- A. umbellulata** Zhuk. subsp. *umbellulata*
Dinar, Akçaköy, steppe, 950 m, 20 v 2000, E.Akçicek 2629.
Ir.-Tur., Th.
- A. triuncialis** L. subsp. *triuncialis*
Şuhut, between Kocyatağı and Dadak, volcanic rocks, 1350 m, 23 vi 2001, E.Akçicek 3732.
Th.
- A. biuncialis** Vis.
Sandıklı, between Ballık and Örmekuyu, Kızılçalın hill, rocky places, 1250 m, 26 vi 2000, E.Akçicek 3021/B.
Th.
- A. columnaris** Zhuk.
Sandıklı, between Ballık and Örmekuyu, Kızılçalın hill, rocky places, 1250 m, 26 vi 2000, E.Akçicek 3021/A.
Ir.-Tur., Th.
- Triticum baeoticum** Boiss. subsp. *baeoticum*
Sandıklı, Ballık, field margins, 1000 m, 26 vi 2000, E.Akçicek 2980.
Th.
- T. baeoticum** Boiss. subsp. *thaoudar* (Reut. ex Hausskn.) Schiem.
Sandıklı, Ballık, roadsides, 1100 m, 26 vi 2000, E.Akçicek 2970.
- Hordeum marinum** Huds. var. *marinum*
Şuhut, Aydın village, field margins, 1150 m, 19 v 2000, E.Akçicek 2515.
Th.
- H. murinum** L. subsp. *glaucum* (Steud.) Tzvelev
Sincanlı, Taşoluk, field margins, 1100 m, 24 vi 2000, E.Akçicek 2691.
Th.
- H. bulbosum** L.
Şuhut, Aydın village, field margins, 1200 m, 13 vi 1998, E.Akçicek 1974.
G.
- Taeniatherum caput-medusae** (L.) Nevski subsp. *crinitum* (Schreb.) Melderis
20 km from Afyon to Şuhut, calcareous rocks, 1250 m, 23 vi 2001, E.Akçicek 3660.
Ir.-Tur., Th.
- Bromus hordeaceus** L. subsp. *hordeaceus*
Between Taşoluk and Şuhut, steppe, 1500 m, 24 vi 2000, E.Akçicek 2816.
Th.

- B. japonicus** Thunb. subsp. *japonicus*
Sincanlı, Taşoluk, field borders, 1100 m, 24 vi 2000, E.Akçicek 2685.
Th.
- B. squarrosum** L.
Between Taşoluk and Şuhut, Sarıyar hill, steppe, 1500 m, 24 vi 2000, E.Akçicek 2757.
Th.
- B. scoparius** L.
Dinar, Haydarlı, steppe, 1250 m, 14 vi 1998, E.Akçicek 2167.
Th.
- B. danthoniae** Trin.
Şuhut, İlyaslı village yayla, steppe, 1400 m, 25 vi 2000, E.Akçicek 2874.
Th.
- The height of the specimens is up to 58 cm, but it is 25-45 cm in the Flora of Turkey (IX: 287) (Davis, 1985).
- B. tectorum** L.
Dinar, Akçaköy, steppe, 950 m, 20 v 2000, E.Akçicek 2630.
Th.
- B. sterilis** L.
Between Şuhut and Sandıklı, field borders, 1100 m, 19 v 1997, E.Akçicek 1742.
H.
- B. cappadocicus** Boiss. & Bal. subsp. *cappadocicus*
Sandıklı, between Ballık and Örmekuyu, Kızılçalın hill, steppe, 1250 m, 26 vi 2000, E.Akçicek 3027.
H.
- B. tomentellus** Boiss.
Şuhut, Kumalar yayla, steppe, 1800 m, 6 vii 1996, E.Akçicek 1568.
Ir.-Tur., H.
- Avena sterilis** L. subsp. *Iudoviciana* (Durieu) Gillet et Magne
Şuhut, Güneytepe village, steppe, 1300 m, 25 vi 2000, E.Akçicek 2943.
Th.
- Arrhenatherum elatius** (L.) P.Beauv. ex J. & C. Presl subsp. *elatius*
Şuhut, Başören village, stony slopes, 1500 m, 24 vi 2001, E.Akçicek 3714.
Euro-Sib., H.
- A. palaestinum** Boiss.
Şuhut, Aydın village, Angıtlaşçı hill, rocky slopes, 1200 m, 13 vi 1998, E.Akçicek 1965.
E. Medit., H.
- Koeleria nitidula** Velen.
Dinar, Haydarlı, Uzunmusakırı hill, rocky places, 1550 m, 14 vi 1998, E.Akçicek 2139.
G.
- K. cristata** (L.) Pers.
Şuhut, Aydın village, Angıtlaşçı hill, rocky slopes, 1200 m, 13 vi 1998, E.Akçicek 1982.
H.
- Deschampsia flexuosa** (L.) Trin.
Between Sandıklı and Şuhut, N slope, volcanic areas, 1600 m, 15 vii 1985, Y.Akman 14100.
H.
- Calamagrostis pseudophragmites** (Haller f.) Koeler
Şuhut, between Başören and Y. İlyaslı, rocky places, 1300 m, 23 ix 2000, E.Akçicek 3333.
Euro-Sib., G.
- Apera intermedia** Hack. apud Zederb.
Sincanlı, Taşoluk, field margins, 1100 m, 24 vi 2000, E.Akçicek 2695.
Ir.-Tur., Th.
- Agrostis stolonifera** L.
Sincanlı, Taşoluk, steppe, 1450 m, 28 x 2000, E.Akçicek 3468.
Euro-Sib., H.
- Polypogon viridis** (Gouan) Breistr.
Şuhut, Arızlı village, steppe, 1200 m, 29 x 2000, E.Akçicek 3436.
Euro-Sib., H.
- P. monspeliensis** (L.) Desf.
Between Dinar and Çay, Karamık marsh, 1000 m, 29 x 2000, E.Akçicek 3482.
Th.
- Phalaris arundinacea** L.
Sincanlı, Akören village, marsh, 1000 m, 24 vi 2000, E.Akçicek 2709.
G.
- Alopecurus arundinaceus** Poir.
20 km from Afyon to Şuhut, steppe, 1100 m, 20 v 1998, E.Akçicek 2259.
Euro-Sib., G.
- Phleum pratense** L.
Şuhut, Aydın village, Angıtlaşçı hill, rocky slopes, 1200 m, 13 vi 1998, E.Akçicek 1969.
Euro-Sib., H.
- P. bertolonii** DC.
Dinar, Akçaköy, Saribelen ridge, rocky places, 1100 m, 26 vii 2000, E.Akçicek 3170.
H.
- P. montanum** C.Koch subsp. *montanum*
Şuhut, Başören yayla, steppe, 1600 m, 25 vi 2000, E.Akçicek 2893.
H.
- P. phleoides** (L.) Karsten
Between Taşoluk and Şuhut, steppe, 1400 m, 24 vi 2000, E.Akçicek 2800.
Euro-Sib., H.
- P. exaratum** Hochst. ex Griseb. subsp. *exaratum*
Sincanlı, Taşoluk, Balıkkaya hill, in *Quercus*, 1200 m, 24 vi 2000, E.Akçicek 2767.
Th.
- P. boissieri** Bornm.
Dinar, Haydarlı, Uzunmusakırı hill, rocky places, 1500 m, 14 vi 1998, E.Akçicek 2190.
Ir.-Tur., Th.
- Festuca arundinacea** Schreb. subsp. *arundinacea*
Şuhut, Anayurt village, meadows, 1100 m, 18 viii 2000, E.Akçicek 3236.
H.
- F. cyllenica** Boiss. & Heldr. subsp. *uluana* Markgr.-Dann.
Şuhut, Kilimatan hill, rocky slopes, 2200 m, 26 vi 2000, E.Akçicek 2904.
Endemic-NT, Euxine, H.
- F. pinifolia** (Hack. ex Boiss.) Bornm. var. *pinifolia*
Şuhut, Başören village, Çakmaktepe pass, steppe, 1880 m, 13 vi 1998, E.Akçicek 2064.
E. Medit., H.
- F. valesiaca** Schleich. ex Gaudin
Şuhut, Kumalar yayla, steppe, 1600 m, 14 vi 1998, E.Akçicek 2217.
H.

- F. callieri* (Hack. ex St.-Yves) Markgr.
apud Hayek subsp. *callieri*
Şuhut, Kilimatan hill, rocky slopes, 2200
m, 25 vi 2000, E.Akçicek 2900.
- H.
- F. paphlagonica* (St.-Yves) Markgr.-
Dann. subsp. *paphlagonica*
Between Şuhut and Afyon, NW slope,
volcanic areas, 1450 m, 15 vii 1985,
Y.Akman 14102.
- Euxine, H.
- Lolium perenne* L.
Dinar, Haydarlı, steppe, 1250 m, 14 vi
1998, E.Akçicek 2166.
- Euro-Sib., H.
- L. temulentum* L. var. *temulentum*
15 km from Afyon to Şuhut, roadsides,
1100 m, 18 v 2001, E.Akçicek 3541.
- Th.
- Vulpia ciliata* Dumort. subsp. *ciliata*
Şuhut, Aydın village, steppe, 1150 m, 19
v 2000, E.Akçicek 2517.
- Th.
- Poa trivialis* L.
Şuhut, Aydın village, steppe, 1150 m, 19
v 2000, E.Akçicek 2518.
- H.
- P. pratensis* L.
Dinar, Haydarlı, steppe, 1250 m, 14 vi
1998, E.Akçicek 2165.
- G.
- P. sterilis* M.Bieb.
Şuhut, Arızlı village, steppe, 1120 m, 19 v
2001, E.Akçicek 3517.
- H.
- P. bulbosa* L.
Şuhut, Başören village, Toklu hill, rocky
places, 1650 m, 25 vi 2000, E.Akçicek 2932.
- G.
- Eremopoa persica* (Trin.) Roshev.
Between Taşoluk and Şuhut, rocky places,
1500 m, 24 vi 2000, E.Akçicek 2812.
- Ir.-Tur., Th.
- Catabrosa aquatica* (L.) P.Beauv.
Dinar, Haydarlı, marsh, 1230 m, 13 vi
1998, E.Akçicek 2055.
- G.
- Dactylis glomerata* L. subsp. *hispanica*
(Roth) Nyman
Sincanlı, Taşoluk, field margins, 1100 m,
13 vii 1997, E.Akçicek 1756.
- G.
- Cynosurus cristatus* L.
Between Taşoluk and Akyatak, spring
margins, 1500 m, 23 vi 2001, E.Akçicek
3658.
- Euro-Sib., H.
- C. echinatus* L.
Dinar, Akçaköy, steppe, 1000 m, 16 v
1999, E.Akçicek 2367.
- Medit., Th.
- Briza media* L.
Şuhut, Arızlı village, field margins, 1200
m, 29 x 2000, E.Akçicek 3411.
- G.
- B. humilis* M.Bieb.
Şuhut, Başören village, stony slopes, 1500
m, 24 vi 2001, E.Akçicek 3711.
- Th.
- Echinaria capitata* (L.) Desf.
15 km from Afyon to Şuhut, stony slopes,
1100 m, 18 v 2001, E.Akçicek 3554.
- Th.
- Melica ciliata* L. subsp. *ciliata*
Şuhut, Başören village, Çakmaktepe pass,
volcanic rocks, 1880 m, 25 vii 2000,
E.Akçicek 3123.
- H.
- M. persica* Kunth subsp. *inaequiglumis*
(Boiss.) Bor
Dinar, between Karaadilli and Tatarlı,
rocky places, 1130 m, 26 vii 2000, E.Akçicek
3182.
- H.
- M. persica* Kunth subsp. *canescens*
(Regel) P.H.Davis
20 km from Afyon to Şuhut, calcareous
rocks, 1300 m, 23 vi 2001, E.Akçicek 3667.
- Ir.-Tur., H.
- Glyceria plicata* (Fr.) Fr.
Between Taşoluk and Akyatak, spring
margins, 1500 m, 23 vi 2001, E.Akçicek
3657.
- G.
- Stipa holosericea* Trin.
Şuhut, Aydın village, Angıtlaşı hill, rocky
slopes, 1200 m, 13 vi 1998, E.Akçicek 1966.
- H.
- S. arabica* Trin. & Rupr.
Sandıklı, between Ballık and Örmekuyu,
Kızılçalın hill, rocky places, 1250 m, 26 vi
2000, E.Akçicek 3023.
- Ir.-Tur., H.
- S. ehrenbergiana* Trin. & Rupr.
Dinar, Akçaköy, Sarbelen ridge, rocky
places, 1000 m, 26 vi 2000, E.Akçicek 3015.
- Ir.-Tur., H.
- S. pulcherrima* C.Koch subsp.
crassicalymis (P.A.Smirn.) Tzvelev
Dinar, Akçaköy, Sarbelen ridge, rocky
places, 1000 m, 26 vi 2000, E.Akçicek 3016.
- H.
- S. pulcherrima* C.Koch subsp. *epilosa*
(Martinovské) Tezvelev
Sandıklı, between Ballık and Örmekuyu,
Kızılçalın hill, rocky places, 1250 m, 26 vi
2000, E.Akçicek 2982.
- H.
- Phragmites australis* (Cav.) Trin. ex
Steud.
Şuhut, Güneytepe village, marsh, 1150 m,
23 ix 2000, E.Akçicek 3371.
- Euro-Sib., Hd.
- Cynodon dactylon* (L.) Pers. var. *vilosus*
Regel
Şuhut, between Başören and Y. İlyaslı,
rocky slopes, 1300 m, 23 ix 2000, E.Akçicek
3330.
- G.
- Echinochloa crus-galli* (L.) P.Beauv.
Şuhut, Ortapınar village, field margins,
1100 m, 17 viii 2000, E.Akçicek 3229.
- Th.
- Digitaria sanguinalis* (L.) Scop.
Şuhut, Çakırözü village, roadsides, 1200
m, 23 ix 2000, E.Akçicek 3281.
- Th.
- Spodiopogon pagonanthus* (Boiss. &
Bal. ex Bal.) Boiss.
Şuhut, between Balçıkhisar and Yapıraç,
rocky slopes, 1560 m, 24 ix 2000, E.Akçicek
3303.
- E. Medit., G.

<i>Chrysopogon gryllus</i> (L.) Trin. subsp. <i>gryllus</i>	<i>Cicer arietinum</i> L. E.Akçicek 3190.	SOLANACEAE <i>Solanum tuberosum</i> L.
Şuhut, between Koçyatağı and Dadak, volcanic rocks, 1350 m, 23 vi 2001, E.Akçicek 3739.	Th.	E.Akçicek 2860.
H.	ROSACEAE	G.
<i>Bothriochloa ischaemum</i> (L.) Keng	<i>Cerasus avium</i> (L.) Moench E.Akçicek 2669.	MORACEAE <i>Morus alba</i> L.
Sandıklı, Ballık, steppe, 1150 m, 4 viii 1997, E.Akçicek 1859.	Ph.	Akçicek 2668.
G.	<i>C. vulgaris</i> Mill.	Ph.
Cultivated taxa in the study area	E.Akçicek 2861.	<i>M. rubra</i> L.
CUPRESSACEAE	Ph.	Akçicek 2287.
<i>Cupressus sempervirens</i> L.	<i>Persica vulgaris</i> Mill.	Ph.
E.Akçicek 3349.	E.Akçicek 3216.	SALICACEAE
Ph.	Ph.	<i>Salix babylonica</i> L.
PAPAVERACEAE	<i>Fragaria x ananassa</i> Duchesne E.Akçicek 3655.	Akçicek 3502.
<i>Papaver somniferum</i> L.	H.	Ph.
E.Akçicek 2338.	<i>Pyracantha coccinea</i> Roem. E.Akçicek 3430.	<i>Populus thevestina</i> Dode
Th.	Ph.	Dinar, Haydarlı, wet places, 1250 m, 14 vi 1998, Akçicek 2154.
BRASSICACEAE / CRUCIFERAЕ	Ph.	Ph.
<i>Lepidium sativum</i> L. subsp. <i>sativum</i> E.Akçicek 3654.	<i>Malus sylvestris</i> Mill. subsp. <i>mitis</i> (Wallr.) Mansf.	POACEAE / GRAMINEAE
Th.	E.Akçicek 2497.	<i>Triticum aestivum</i> L.
PORTULACACEAE	Ph.	Akçicek 2981.
<i>Portulaca oleracea</i> L.	<i>Pyrus communis</i> L. subsp. <i>sativa</i> (DC.) Hegi	Th.
E.Akçicek 1870.	E.Akçicek 1624.	<i>Secale cereale</i> L. var. <i>cereale</i>
Th.	Ph.	Akçicek 2862.
SIMAROUBACEAE	<i>APIACEAE / UMBELLIFERAЕ</i>	<i>Hordeum distichon</i> L.
<i>Ailanthus altissima</i> (Mill.) Swingle E.Akçicek 3348.	<i>Anethum graveolens</i> L.	Akçicek 2388.
Ph.	E.Akçicek 3200.	Th.
FABACEAE / LEGUMINOSAE	Th.	<i>Avena sativa</i> L.
<i>Gleditsia triacanthos</i> L.	<i>Apium graveolens</i> L.	Akçicek 2097.
E.Akçicek 3382.	E.Akçicek 3202.	Th.
Ph.	H.	<i>Sorghum bicolor</i> (L.) Moench
<i>Robinia pseudoacacia</i> L.	<i>ASTERACEAE / COMPOSITAE</i>	Akçicek 3371.
E.Akçicek 2974.	<i>Helianthus tuberosus</i> L.	Th.
Ph.	E.Akçicek 3276.	<i>Zea mays</i> L. subsp. <i>mays</i>
<i>Amorpha fruticosa</i> L.	H.	Akçicek 3214.
E.Akçicek 3454.	<i>CONVOLVULACEAE</i>	Th.
Ph.	<i>Ipomoea purpurea</i> (L.) Roth	
<i>Phaseolus vulgaris</i> L.	Şuhut, Başören, around village, 1400 m, 23 ix 2000, E.Akçicek 3311.	
E.Akçicek 3215.	H.	
Th.		