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Flora of Kızıldağ Mountain (Isparta) and Environs

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Abstract: This paper describes a floristic study of Kızıldağ (Isparta/Turkey) and its environs. The study was carried out during 1993-1996 and 1515 vascular plant samples were collected. After the identification of the specimens, the total flora has been determined as 786 taxa belonging to 770 species, 371 genera and 84 families. The endemism rate of the area is 15.5% for the 122 taxa. The largest 3 families are *Asteraceae* (89 species), *Fabaceae* (65 species) and *Poaceae* (62 species). The largest genera are *Ranunculus* L. (13 species), *Allium* L. (13 species) and *Veronica* L. (12 species). The phytogeographical spectrum of the species is as follows: Irano-Turanian elements 143 (18.19%), Mediterranean elements 140 (17.81%) and Euro-Siberian elements 40 (5.08%). One hundred and seventy-three species are new records from B3 and C3 squares. Similarities between the taxa of Kızıldağ and those of 11 other studies performed near our study area were compared using clustering analysis.

Key Words: Flora, Kızıldağ, Isparta, Turkey

Kızıldağ (Isparta) ve Çevresinin Florası

Özet: Bu çalışmada, Kızıldağ (Isparta) ve yakın çevresinin florası araştırılmıştır. Araştırma alanında 1993-1996 yıllarında 1515 bitki örneği toplanmış, çalışmalar sonucunda 84 familya, 371 cins ve 770 türe ait 786 takson saptanmıştır. Alandaki endemizm oranı 122 taxon için % 15.5' dir. En büyük 3 familya *Asteraceae* (89 tür), *Fabaceae* (65 tür) ve *Poaceae* (62 tür)'dir. En büyük cinsler *Ranunculus* (13 tür), *Allium* (13 tür) ve *Veronica* (12 tür) dir. Türlerin fitocoğrafik bölgelere dağılımı ve oranları sırasıyla şöyledir: İran-Turan elementleri 143 (% 18.19); Akdeniz elementleri 140 (% 17.81) ve Avrupa-Sibirya elementleri 40 (% 5.08). 173 tür B3 ve C3 karelerine ait yeni kare kaydı olarak bulunmuştur. Kızıldağ ve yakınında bulunan diğer 11 çalışma arasındaki takson benzerlikleri küme analizi ile kıyaslanmıştır.

Anahtar Sözcükler: Flora, Kızıldağ, Isparta, Türkiye

Introduction

Kızıldağ Mountain is located in the eastern part of Isparta province in the northern part of the Kızıldağ National Park, which is situated in the Irano-Turanian phytogeographic region. The main part of the study area is located in B3 and the rest in C3 according to the grid system adopted in the Flora of Turkey (Davis, 1965-1985). The northern and eastern borders of the area are the Isparta roads, the south-western border is the Kurucuova road, and southern border is Lake Beyşehir (Figure 1). The Kızıldağ area is dominated by small mountain ranges lying in a SW-NE direction. The altitude of the area is between 1100 m at Lake Beyşehir and 1900 m at the summit of Kızıldağ Mountain. There have been no other specific studies related to the flora of the area. Most part of the area is isolated from its environs and situated in the national park.

Limestone rocks constitute the main type in the area. In addition to this, alluvium is present. Mesozoic series are the oldest rocks around the village of Belceğiz and Homat Hill. The youngest geological unit of the area belongs to the Quaternary period. The alluvial layer extends to the lakesides and streambeds, whose depths reach 10 m in some locations (Atalay, 1982).

The climate of the area was examined using data from the Meteorology Station in Şarkikaraağaç (DMİGM, 1984). The meteorological data were obtained from 1965 to 1984. The main annual precipitation in the area is 453.4 mm, and the precipitation type is W.Sp.A.S. The most arid and hottest months are June and July, with a mean temperature of 28.4 °C. The mean temperature for the year is 11.2 °C. When the climatic data was used in Emberger's formula of rain and temperature factors (Q:

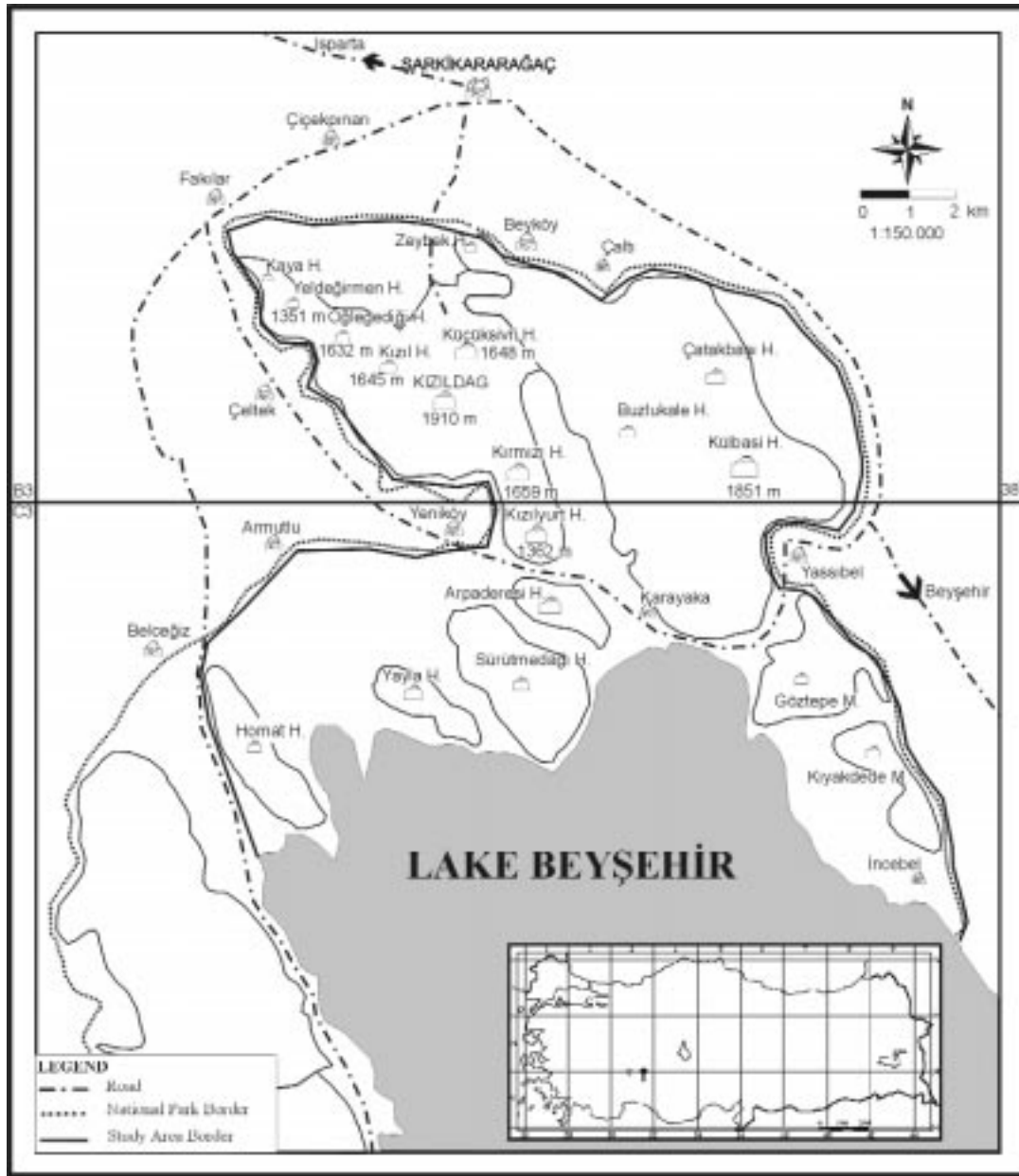


Figure 1. Geographic map of the study area.

49.46), it was determined that the research area has a Mediterranean semi-dry climate (Akman, 1990).

Shrub, forest, rocky, steppe, and hydrophyte are the main vegetation types in the area. Shrub formation is found from Zeybek Hill to the village of Karayaka. *Quercus coccifera* L. is the dominant species in this vegetation at altitudes of 1100-1200 m. *Juniperus oxycedrus* L. subsp. *oxycedrus*, *Pistacia terebinthus* L. subsp. *palaestina* (Boiss.) Engl., *Crataegus monogyna*

Jacq. subsp. *monogyna*, *Daphne oleoides* Schreb. subsp. *oleoides* and *Cistus laurifolius* L. are the other characteristic species of the formation.

Forest vegetation is distributed commonly between 1150 and 1850 m. *Cedrus libani* A.Rich. is dominant only on the northern side of Kızıldağ in this area. *Juniperus excelsa* M.Bieb. is a subdominant species widely distributed in the area, but especially between the Zeybek and Külbasi hills.

Hydrophytic vegetation is found in the streamside and lakeside formations. For instance, *Populus alba* L. members are found at the streamside as a dominant vegetation type at 1100-1150 m. This formation is distributed between Yassibel and İncebel. *Salix alba* L., *Rosa canina* L., *Rubus sanctus* Schreb., *Galium verum* L. subsp. *glabrescens* Ehrend., *Geranium sylvaticum* L., *Ranunculus ficaria* L. subsp. *ficariiformis* Rouy & Foucaud, *Lythrum hyssopifolia* L., *Carex distans* L., *Cyperus longus* L. and *Veronica anagallis-aquatica* L. are commonly found in this formation. The lakeside formation is distributed on the northern side of Lake Beyşehir especially at 1100 m. *Phragmites australis* (Cav.) Trin. ex Steud., *Scirpioides holoschoenus* (L.) Sojak, *Barbarea intermedia* Bor, *Rumex crispus* L., *Potentilla supina* L., *Carex muricata* L. and *Epilobium minutiflorum* Hausskn. dominate in this formation.

The southern parts of Kızıldağ Mountain are covered by rocky vegetation. The upper and lower limits of this vegetation are 1100 to 1900 m. *Arenaria leptoclados* (Rchb.) Guss., *Dianthus elegans* d'Urv. var. *elegans*, *Campanula stricta* L. var. *stricta*, *Rosularia chrysantha* (Boiss.) Takht., *Sedum amplexicaule* DC., *Sedum album* L., *Saxifraga tridactylites* L. and *Umbilicus erectus* DC. are the characteristic species of this vegetation type.

The altitude of the research area ranges from 1100 to 1400 m. The area is covered by steppes, which can be divided into 2 groups: grass steppes and tragacanthic steppes. Grass steppes are found at 1100 m on the southern side of the research area. *Ranunculus repens* L., *Lamium amplexicaule* L., *Crepis foetida* L. subsp. *rheoadifolia* (M.Bieb.) Čelak. and *Crepis setosa* Hallier f. are distributed in rather damp areas in this vegetation type. *Aegilops cylindrica* Host, *Aegilops triuncialis* L. subsp. *triuncialis*, *Bromus* L. spp., *Cynodon dactylon* (L.) Pers. var. *villosus* Regel, *Taeniatherum caput-medusae* (L.) Nevski subsp. *asper* (Simonk.) Melderis, *Poa bulbosa* L. and *Festuca heterophylla* Lam. are also found in semi-dry habitats in this formation. The northern side of the study area is mainly covered by tragacanthic steppes, which are composed of *Astragalus plumosus* Willd. subsp. *krugianus* (Frey & Bornm.) Chamb. & Matthews, *A. tmoleus* Boiss. var. *bouanacanthus* (Boiss.) Chamberlain, *A. angustifolius* Lam. subsp. *angustifolius* var. *angustifolius*, *Acantholimon acerosum* (Willd.) Boiss. var. *acerosum* and *A. caesareum* Boiss. & Bal.

Materials and Methods

The materials of this study are 1515 vascular plant specimens collected from Kızıldağ Mountain and its environs between 1993 and 1996. These specimens were identified basically by using the Flora of Turkey (Davis, 1965-1985; Davis et al., 1988; Güner et al., 2000), other floras (Boissier, 1867-1888; Rechinger et al., 1965-1977; Tutin & Heywood, 1964-1980; Zohary, 1966-1986; Komarov & Shishkin, 1933-1964; Townsend & Evan, 1966-1985; Bor, 1968; Meikle, 1977-1985; Pignatti, 1982) and revisions (Leblebici, 1990; Doğan, 1999; Aytaç, 1997; Dönmez & Yıldırım, 2000). In the floristic list, whether the plant is endemic or not, and which phytogeographical region and threatened categories it belongs to are mentioned at the end. Cultivated plants are also indicated in parentheses at the end of the locality. Since all the plants were collected from the study area in Şarkikaraağaç, Isparta, this information is not repeated. Author's abbreviations follow Brummitt and Powell (1992). Threatened categories are proposed for endemic and some non-endemic taxa according to IUCN risk categories (IUCN, 2001; Ekim et al., 2000). The phytogeographical regions of the taxa were evaluated according to Davis (1965-85, 1988) and other related studies (Sümbül & Erik, 1988; Duman, 1991), but mainly Davis' records are taken into consideration. The results were compared with floras of neighbouring areas (Küçüködük, 1989; Kargioğlu & Ertuğrul, 1995; Dural et al., 1995; Sorger, 1978; Serin & Çetik, 1982; Küçüködük & Çetik, 1984; Ocakverdi, 1982; Peşmen & Güner, *pers. com.*; Savran et al., 1995; Özçelik & Öztürk, 1999; Fakir & Dutkuner, 1999). The abbreviations used in the text and the floristic list are as follows: Ir.-Tur.: Irano-Turanian; Medit.: Mediterranean; E. Medit.: East Mediterranean; E. Medit. (mt.): East Mediterranean (mountain); Euro-Sib.: Euro-Siberian; En.: Endemic; CR: Critically endangered; EN: Endangered; VU: Vulnerable; NT: Near threatened; LC: Least concern; Mutlu: Birol Mutlu; HUB: Hacettepe University Department of Botany Herbarium in Ankara. At least one sample for each taxon is deposited at HUB.

Similarities between the taxa from Kızıldağ and those from 11 other studies were compared using clustering analysis. The NTSYS program written for the IBM PC by Rohlf (2000) for clustering and ordination analysis was used. The SIMQUAL similarity and COMPLETE clustering are used because of their practical value within the

context of the philosophy of numerical taxonomy (Sneath & Sokal, 1973).

Discussion

At the end of this study, 1515 vascular plant specimens were collected from the area, and 770 species (786 taxa) and 371 genera belonging to 84 families were established. Seven species are non-flowering vascular plants. Seven species belong to *Gymnospermae*, while the other 756 were *Angiospermae*. *Dicotyledones* and *Monocotyledones* consist of 636 and 120 species respectively. A summary of the numerical data is presented in Table 1.

In the area, 122 taxa are endemic to Turkey and the ratio of endemism is 15.5%. Most of the endemic taxa in the area grow on Kızıldağ Mountain. Therefore, Kızıldağ Mountain appears to be important for the conservation of these endemic taxa.

A total of 125 taxa, all endemics, and 3 non-endemics were evaluated according to IUCN risk categories (IUCN, 2001; Ekim et al., 2000). The results are summarised in Table 1. The distribution of the threat categories of these taxa are as follows: 2 taxa CR, 5 taxa EN, 10 taxa VU, 14 taxa NT and 94 taxa LC. The species in the CR and EN risk categories are given in Table 2.

A comparison of some basic numbers from the other 11 floristic studies taken into consideration with those from Kızıldağ is given in Table 3. This table includes the numbers of total taxa, taxa not existing in other areas, endemic taxa and endemic taxa not existing in other areas. As seen in Table 3, Kızıldağ ranks second, third, fourth and third for the properties above, respectively. Kızıldağ, Dedegöl, West of Lake Beyşehir and Aksu are the most important areas according to these properties compared with the other areas.

The largest families based on their species number in

Table 1. Floristic properties of the research area.

	Ferns	Gymno.	Dicots	Monocots	Total
Families	5	3	67	9	84
Genera	5	4	301	61	371
Species	7	7	636	120	770
Subspecies			8	2	10
Varieties			6		6
<hr/>					
Endemic taxa			110	12	122
<hr/>					
Medit.		1	36	19	56
E.Medit.			48	18	66
E. Medit.(mt)		1	14	3	18
Ir.-Tur.			126	17	143
Euro.-Sib.			28	9	37
Hycr.-Euxine			1		1
Euxine				2	2
Others	7	5	397	54	463
<hr/>					
EX					
EW					
CR			2		2
EN			5		5
VU			5	5	10
NT			14		14
LC			85	9	94
DD					
NE					

Table 2. Species in CR and EN categories.

Red Data Categories	Species	Endemism
CR	<i>Isatis glauca</i> subsp. <i>galatica</i>	Endemic
	<i>Viola kizildaghensis</i>	Endemic
EN	<i>Centaurea anthemifolia</i>	Endemic
	<i>Cirsium cassium</i>	Endemic
	<i>Colutea melanocalyx</i> subsp. <i>melanocalyx</i>	Endemic
	<i>Onopordum bracteatum</i> var. <i>arachnoideum</i>	Endemic
	<i>Verbascum leptocladum</i>	Endemic

Table 3. Comparisons of floristic studies (abbreviations are below the table).

	Compared Studies											
	Kız.	Bey.	Yan.	Yil.	Wbey.	YK.	Ak.	Sul.	Ded.	Dök.	Aks.	Göl.
Total taxa	786	340	729	474	785	516	126	461	849	392	658	227
Taxa not existing in other areas	156	24	67	69	104	51	22	40	190	39	196	62
Total endemic taxa	122	32	113	86	168	65	5	66	146	68	166	64
(%)	(15.5)	(9.41)	(15.50)	(18.14)	(21.40)	(12.59)	(3.96)	(14.31)	(17.19)	(17.34)	(25.2)	(28.2)
Endemic not existing taxa in other areas	34	6	13	21	29	13	2	13	37	18	73	25
Irano-Turanian	143	38	112	87	114	64	6	56	76	64	75	43
(%)	(18.19)	(11.17)	(15.36)	(18.35)	(14.52)	(12.4)	(4.76)	(12.14)	(8.95)	(16.32)	(11.4)	(17.6)
Mediterranean	140	51	127	106	122	89	5	69	187	90	152	47
(%)	(17.81)	(15.00)	(17.42)	(22.36)	(15.54)	(17.54)	(3.96)	(14.96)	(22.02)	(22.95)	(23.1)	(21.1)
Euro-Siberian	40	20	27	14	43	37	19	37	66	22	60	15
(%)	(5.08)	(5.88)	(3.70)	(2.95)	(5.47)	(7.17)	(15.07)	(8.02)	(7.77)	(5.61)	(9.2)	(6.2)
Multi-regional elements or those of unknown phytogeographic region	463	231	462	266	506	326	96	299	519	216	287	58
(%)	(58.90)	(67.94)	(63.37)	(56.11)	(64.45)	(63.17)	(76.19)	(64.85)	(61.13)	(55.1)	(43.6)	(49.3)

Abbreviations:

- Kız. Flora of Kızıldağ Mountain (Isparta) and Environs
 Bey. Beyşehir Gölü Florası (Küçüközü, 1989).
 Yan. Yandağ (Isparta) Florasına Katkılar (Kargioğlu & Ertuğrul, 1995).
 Yil. Yıldızlı Dağı (Akseki-Antalya) Florasına Katkılar (Dural et al., 1995).
 Wbey. Die Ergebnisse Meiner Sammelreisen im Bergland Westlich des Beyşehirsees (Sorger, 1978)
 YK. Yeşildağ-Kurucuova (Beyşehir) Florası (Serin & Çetik, 1982).
 Ak. Akşehir Gölü ve Kıyılarının Flora ve Vejetasyonu (Küçüközü & Çetik, 1984).
 Sul. Sultan Dağları-Doğanhisar Bölgesinin (Konya) Florası (Ocakverdi, 1982).
 Ded. Dedegöl Dağı (Isparta) Florası (Peşmen & Güner, pers.com.).
 Dök. Dökükdag (Beyşehir-Konya) Florasına Katkılar (Savran et al., 1995).
 Aks. Contributions to the Flora of Aksu (Isparta) (Özçelik & Öztürk, 1999).
 Göl. Isparta Gölü Tabiat Parkı Florası Üzerine Araştırmalar (Fakir & Dutkuner, 1999).

the area are *Asteraceae* (89 spp.), *Fabaceae* (65 spp.), *Poaceae* (62 spp.), *Brassicaceae* (51 spp.) and *Lamiaceae* (41 spp.) respectively (Table 4.). In comparison with the Flora of Turkey (Davis et al., 1988), the order of the families is approximately the same in this study. Yandağ is more similar to Kızıldağ in this respect than the others. The reason for this is surely the closeness of this area to Kızıldağ Mountain.

The largest genera in terms of species number in the area are *Ranunculus* L. (13 spp.), *Allium* L. (13 spp.), *Veronica* L. (12 spp.), *Astragalus* L. (11 spp.) and *Silene* L. (11 spp.), respectively. These genera are also relatively widespread throughout Turkey. The largest genera are compared with those of nearby areas (Table 5). As seen in Table 5, *Astragalus* exists in all areas except for Lake Akşehir. This genus is also relatively widespread in Turkey. *Ranunculus* is the largest genus in Kızıldağ and

Lake Akşehir. *Ranunculus* is especially spread in humid and wet places, which are very abundant in these regions.

The distributions of taxa with respect to phytogeographical regions are as follows: Ir.-Tur. elements 143 species (18.19%), Medit. elements 140 species (17.90%) and Euro.-Sib. elements 40 species (5.08%). The rest of the taxa are either multi-regional or phytogeographically unknown (Table 1). The dominance of the Ir.-Tur. elements is expected because the study area is in the Ir.-Tur. region. Ir.-Tur. elements are mostly *Dicotyledones*, while Medit. elements are mostly *Monocotyledones*. The number of Medit. and Ir.-Tur. elements being very close to each other can be explained by the location of the area in the transition zone of both phytogeographical regions. Therefore, Medit. elements gradually increase. Euro.-Sib. elements are the least common in the area because it is very far from the Euro.-Sib. region.

Table 4. Comparison of the 10 families containing the most species in studies conducted in nearby regions (abbreviations are below Table 3).

	Compared Studies (%)											
	Kız.	Bey.	Yan.	Yıl.	Wbey.	YK.	Ak.	Sul.	Ded.	Dök.	Aks.	Göl.
<i>Asteraceae</i>	11.56	7.65	11.24	9.65	12.02	8.98	14.29	11.36	10.47	9.94	13.0	22.0
<i>Fabaceae</i>	8.44	15.00	12.39	10.08	9.15	12.09	9.52	10.47	9.48	8.16	7.9	19.4
<i>Poaceae</i>	8.05	10.88	8.07	7.72	3.79	11.71	8.73	10.02	4.24	3.31	2.27	2.64
<i>Brassicaceae</i>	6.49	3.24	7.78	5.57	5.35	7.03	3.2	4.45	6.36	4.84	7.0	14.0
<i>Lamiaceae</i>	5.19	7.06	7.20	6.86	7.45	5.46	4.76	7.57	5.86	9.94	9.8	18.0
<i>Liliaceae</i>	4.94	3.82	5.76	8.36	2.42	5.85	-	5.79	3.62	4.33	3.03	0.44
<i>Caryophyllaceae</i>	4.68	3.82	3.03	4.29	7.32	2.73	1.58	3.56	7.23	4.33	8.8	14.1
<i>Scrophulariaceae</i>	4.42	3.23	3.17	2.95	5.62	2.23	0.79	3.79	2.99	3.82	4.8	6.0
<i>Apiaceae</i>	4.03	2.65	3.89	3.86	3.92	3.32	3.97	3.79	4.99	3.06	3.3	7.0
<i>Rosaceae</i>	3.38	3.82	2.74	3.86	3.39	2.92	-	3.12	3.62	4.08	3.9	2.2

Table 5. Comparison of the 10 genera containing the most species in studies conducted in nearby regions (abbreviations are below Table 3).

	Compared Studies											
	Kız.	Bey.	Yan.	Yıl.	Wbey.	YK.	Ak.	Sul.	Ded.	Dök.	Aks.	Göl.
<i>Ranunculus</i>	13	5	7	6	9	5	7	5	16	2	11	3
<i>Allium</i>	13	1	3	8	3	2	-	-	8	6	-	-
<i>Veronica</i>	12	2	10	4	15	6	1	6	8	3	14	2
<i>Astragalus</i>	11	7	13	12	16	11	-	11	18	5	12	13
<i>Silene</i>	11	3	11	16	14	9	-	9	19	6	17	8
<i>Euphorbia</i>	10	5	10	7	13	6	1	6	6	2	5	-
<i>Salvia</i>	10	2	14	4	12	6	1	6	8	4	7	1
<i>Verbascum</i>	9	3	3	4	11	3	-	4	2	3	6	1
<i>Centaurea</i>	9	4	10	7	10	6	2	7	8	6	11	4
<i>Trifolium</i>	9	9	11	5	11	11	2	8	12	4	3	5

The ratios of phytogeographical elements were compared with those of other studies carried out in the same region (Table 3). The ratio of Ir.-Tur. elements in our study is higher than those of other areas. This result is explained by the fact that only Kızıldağ lies in the Ir.-Tur. region. Owing to Lake Akşehir being wholly an aquatic habitat different from others and in accordance with its climatic conditions, the Euro.-Sib. elements are dominant (a very humid microclimate).

Some morphological characters different from those given in the Flora of Turkey (Davis, 1965-1988) were observed in some specimens. Although *Viola sandracea* has been recorded with "stipules eglandular fimbriate" in the description in the Flora of Turkey (Coode & Cullen, 1965), we determined that glandular fimbriate stipules are present in the samples from the study area. The glandular specimens were collected from Kızıldağ during other research and revision studies of *Viola* and it was published as a new species (*V. kizildaghensis*) with some other differences (Dinç & Yıldırım, 2002). Currently, the new species is only found in this study area and it occupies less than 10 km². Therefore, it should be assessed in the "critically endangered" (CR) category (criteria B1 and B1a). We also observed that *Erodium amanum* specimens collected from the study area have long sepals (11 mm) and tuberous roots. These structures are not mentioned in the description of this species in the Flora of Turkey (Davis, 1967). The seed number in fruits of *Lathyrus saxatilis* was recorded as 3-6 in the description in the Flora of Turkey but in our study the seed number was 7 (Davis, 1970).

A COMPLETE-derived clustering of similarity matrix for the 12 studies is presented in Figure 2. Yandağ-Kızıldağ (0.69), W. Lake Beyşehir-Dedegöl (0.65), Yeşildağ-Sultan-Dökük (0.76) and Lake Beyşehir-Akşehir Lake-Isparta Gölcük (0.78) are more similar than the other study areas. Yıldız is between the Lake Beyşehir-Lake Akşehir-Isparta Gölcük and the Yeşildağ-Sultan-Dökük studies. In the same way, Aksu is between the Yeşildağ-Sultan-Dökük and W. Lake Beyşehir-Dedegöl studies. These results were closely related with closeness, altitude and similarities of habitat.

Two species, *Fritillaria carica* Rix subsp. *serpanticola* Rix and *Cirsium dirmilense* R.M.Burton (Burton, 1996), are known only from the type localities and were collected for the second time from the study area.

One hundred and fifty-eight species out of 786 taxa are new records for the square B3 and 15 are new for C3 (Donner, 1990). These new records have been published previously (Mutlu & Erik, 1996, 1999).

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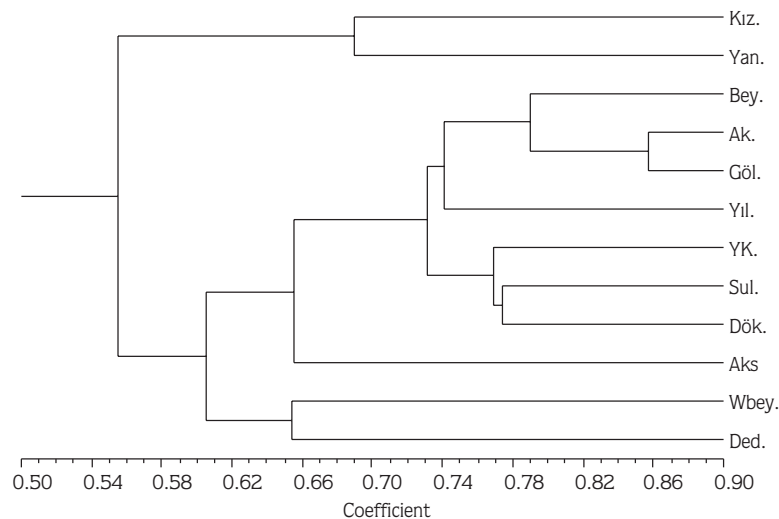


Figure 2. Taxon similarities between Kızıldağ and other studies (abbreviations are below Table 3).

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APPENDIX
THE FLORISTIC LIST

PTERIDOPHYTA

EQUISETACEAE

Equisetum ramosissimum Desf.

C3: Between Kiyakdede and Göztepe Mountains, edges of fields, 1150 m, 11 v 1995, Mutlu 1327.

E. arvense L.

C3: Between Kiyakdede and Göztepe Mountains, edges of fields, 1200 m, 11 v 1995, Mutlu 1340.

SINOPTERIDACEAE

Chelianthes persica (Bory) Kuhn

B3: Road edge at park entrance, *Cedrus libani* forest, 1200-1300 m, 17 xi 1993, Mutlu 163.

C. marantae (L.) Domin

B3: Road edge at park entrance, *Cedrus libani* clearings, 1200-1400 m, 18 xi 1993, Mutlu 180.

GYMNOGRAMNACEAE

Anogramma leptophylla (L.) Link

B3: Kuzgun Hill, rocky crevices, 1350 m, 24 vii 1994, Mutlu 1084.

ASPLENIACEAE

Ceterach officinarum DC.

B3: Road edge at park entrance, *Cedrus libani* forest, rocky places, 1200-1300 m, 17 xi 1993, Mutlu 159.

ASPIDIACEAE

Dryopteris filix-mas (L.) Schott

B3: Road edge at park entrance, *Cedrus libani* forest, 1200-1300 m, 17 xi 1993, Mutlu 158.

SPERMATOPHYTA

GYMNOSPERMAE

PINACEAE

Cedrus libani A.Rich.

B3: Northern slopes of Kızıldağ, *Cedrus libani* forest, 1200-1300 m, 17 xi 1993, Mutlu 168. Medit. (mt.).

Pinus nigra J.F.Arnold subsp. *pallasiana* (Lamb.) Holmboe

B3: Road edge at park entrance, *Cedrus libani* forest, 1200-1300 m, 17 xi 1993, Mutlu 166. (Culture).

CUPRESSACEAE

Juniperus oxycedrus L. subsp. *oxycedrus*

B3: Between forest houses and park entrance, *Cedrus libani* forest, 1200-1300 m, 17 xi 1993, Mutlu 162.

J. foetidissima Willd.

B3: Road edge at park entrance, *Cedrus libani* forest, 1200-1300 m, 17 xi 1993, Mutlu 167.

J. sabina L.

B3: Road edge at park entrance, *Cedrus libani* forest, 1200-1300 m, 17 xi 1993, Mutlu 152.

J. excelsa M.Bieb.

B3: Northern slopes of Zeybek Hill, *Cedrus libani* forest, 1200-1300 m, 17 xi 1993, Mutlu 150.

EPHEDRACEAE

Ephedra major Host

B3: N of Küçüksivri Hill, rocky slopes in *Cedrus libani* forest, 1250-1300 m, 25 iii 1994, Mutlu 207. Medit.

ANGIOSPERMAE

DICOTYLEDONAE

RANUNCULACEAE

Nigella arvensis L. var. *glauca* Boiss.

B3: Between Sazlıpınar and Külbaşı Hill, 1150-1250 m, 24 vi 1994, Mutlu 776. C3: Kiyakdede Mountain, field, 1100 m, *Cedrus libani* forest, 1200-1300 m, 23 vii 1994, Mutlu 983.

N. sativa L.

B3: Çatakbaşı Hill, edges of gardens, 1150-1300 m, 8 ix 1996, Mutlu 1779-1780.

N. lancifolia Hub.-Mor.

B3: Çatakbaşı Hill, edges of gardens, 1150 m, 16 vii 1995, Mutlu 1524.

Delphinium peregrinum L.

C3: Kiyakdede Mountain, edges of fields, 1100 m, 23 vii 1994, Mutlu 971.

Consolida orientalis (Gay) Schrödinger

B3: Park entrance, on road, 1200 m, 2 vi 1995, Mutlu 1388.

C. regalis Gray subsp. *paniculata* (Host) Soó var. *paniculata*

C3: Çatakbaşı Hill, edges of gardens, 1150 m, 16 vii 1995, Mutlu 1580.

C. raveyi (Boiss.) Schrödinger

B3: Buzlukale Hill, *Quercus coccifera* brushwoods, 1150-1250 m, 25 vi 1994, Mutlu 889. En.-LC. Ir.-Tur.

C. hellespontica (Boiss.) Chater

B3: Between Sazlıpınar and Külbaşı Hill, 1150-1200 m, 24 vi 1994, Mutlu 680.

Anemone blanda Schott & Kotschy

B3: Northern slopes of Zeybek Hill, *Cedrus libani*-*Juniperus excelsa* mixed forest, 1250-1300 m, 25 iii 1994, Mutlu 213. VU.

Adonis aestivalis L. subsp. *aestivalis*

B3: Buzlukale Hill, *Quercus coccifera* brushwoods, limestone, 1250-1300 m, 23 iv 1994, Mutlu 372.

Ranunculus repens L.

B3: Between forest houses and park entrance, 1100-1250 m, 27 v 1994, Mutlu 504.

R. constantinopolitanus (DC.) d'Urv.

C3: Eastern slopes of Kiyakdede Mountain, edges of fields, 1150 m, 11 v 1995, Mutlu 1303.

R. argyreus Boiss.

B3: Buzlukale Hill, *Quercus coccifera* brushwoods, limestone, 1250-1300 m, 23 iv 1994, Mutlu 378. C3: Opposite slopes of Karayaka village, Taşlı Hill, lake shore, 1100 m, 23 iv 1995, Mutlu 1270.

R. cuneatus Boiss.

B3: Eastern slopes of Kiyakdede Mountain, 1150 m, 11 v 1995, Mutlu 1314.

R. cadmicus Boiss.

B3: Çatak Mountain, edges of fields, 1150-1300 m, 22 iv 1995, Mutlu 1236. E. Med. (mt.).

R. heterorhizus Boiss. & Bal.

B3: Küçüksivri Hill, South of water depot, *Cedrus libani* forest, 1300 m, 23 iv 1994, Mutlu 336. En.-NT.

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

C3: Karakaya village, Taşlı Hill, lake shore, 1100 m, 23 iv 1995, Mutlu 1272.

R. marginatus d'Urv. var. *trachycarpus* (Fisch. & Mey.) Azn.

B3: Northern slopes of Külbaşı Hill, 1200 m, 3 vi 1995, Mutlu 1511.

R. arvensis L.

B3: Ulusazlıpınar, edges of fields, 1100-1150 m, 23 iv 1994, Mutlu 355.

R. sceleratus L.

B3: Road edge at park entrance, 1200 m, 2 vi 1995, Mutlu 1390.

R. ficaria L. subsp. *ficariiformis* Rouy & Foucaud

B3: Külbaşı Hill, meadow, 1150 m, 22 iv 1995, Mutlu 1255. C3: Eastern slopes of Kiyakdede Mountain, edges of fields, 1150 m, 11 v 1995, Mutlu 1326.

R. sphaerospermus Boiss. & Blanche

C3: Slopes opposite Karakaya village, Taşlı Hill, Lake Beyşehir shore, 1100 m, 23 iv 1995, Mutlu 1275.

R. trichophyllus Chaix

B3: Northern slopes of Külbaşı Hill, 1200 m, 3 vi 1995, Mutlu 1502. C3: Eastern slopes of Kiyakdede Mountain, 1150 m, 23 iv 1994, Mutlu 1307.

Ceratocephalus falcatus (L.) Pers.

B3: Çatak Mountain, edges of fields, 1150 m, 22 iv 1995, Mutlu 1216.

C. testiculatus (Crantz) Roth

B3: Beşkardeşler ravine, macchie, 1200 m, 25 iii 1994, Mutlu 215.

Thalictrum isopyroides C.A.Mey.

C3: Eastern slopes of Kiyakdede Mountain, edges of fields, 1300 m, 23 iv 1994, Mutlu 1329.

BERBERIDACEAE

Berberis crataegina DC.

B3: Northern slopes of Kızıldağ, 1250 m, 23 iv 1994, Mutlu 1041. Ir.-Tur.

Leontice leontopetalum L. subsp. *leontopetalum*

C3: Eastern slopes of Kiyakdede Mountain, edges of fields, 1150 m, 23 iv 1994, Mutlu 1328.

PAPAVERACEAE

Glaucium flavum Crantz

B3: Road edge at park entrance, 1200 m, 2 vi 1995, Mutlu 1405.

G. leiocarpum Boiss.

B3: Between forest houses and park entrance, 1100-1250 m, 27 v 1994, Mutlu 525.

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

C3: Eastern slopes of Kiyakdede Mountain, edges of fields, 1150 m, 11 v 1995, Mutlu 1298-1318.

Papaver apokrinomenon Fedde

B3: Between Sazlıpınar and Külbaşı Hill, 1150-1250 m, 24 vi 1994, Mutlu 743. En.-LC.

P. somniferum L.

B3: Armutlu village, field, 1200 m, 3 vi 1995, Mutlu 1519. (Culture).

P. macrostomum Boiss. & Huet ex Boiss.

B3: Road edge at park entrance, 1200 m, 2 vi 1995, Mutlu 1371-1412. Ir.-Tur.

P. rhoeas L.

B3: Between forest houses and park entrance, *Cedrus libani* forest, 1100-1250 m, 27 v 1994, Mutlu 481.

P. commutatum Fisch. & Mey.

B3: Buzlukale Hill, *Quercus coccifera* brushwoods, 1250-1300 m, 23 iv 1994, Mutlu 360.

P. postii Fedde

B3: Bedikpınarı, next to fountain, 1000-1100 m, 23 iv 1994, Mutlu 1095. E. Medit.

P. dubium L.

B3: Between forest houses and park entrance, 1100-1250 m, 27 v 1994, Mutlu 541. C3: Eastern slopes of Kiyakdede Mountain, edges of fields, 1150 m, 11 v 1995, Mutlu 1300.

P. argemone L.

C3: Eastern slopes of Kiyakdede Mountain, edges of fields, 1150 m, 11 v 1995, Mutlu 1297.

Hypocoum procumbens L.

B3: Ulusazlıpınar, 1000-1100 m, 23 iv 1994, Mutlu 351. Medit.

H. imberbe Sibth. & Sm.

C3: Karakaya village, edges of fields, 900-1000 m, 25 iii 1994, Mutlu 232.

H. pendulum L.

B3: Road edge at park entrance, 1200 m, 2 vi 1995, Mutlu 1404.

Corydalis solida (L.) Sw. subsp. *solida*

B3: Northern slopes of Küçükşivri Hill, 1250-1300 m, 24 iii 1994, Mutlu 200.

Fumaria officinalis L.

C3: Slopes opposite Karakaya village, Taşlı Hill, lake shore, 1100 m, 23 iv 1995, Mutlu 1273.

F. vailantii Loisel

B3: Buzlukale Hill, 1250-1300 m, 23 iv 1994, Mutlu 371.

F. parviflora Lam.

B3: Road edge at park entrance, 1200 m, 2 vi 1995, Mutlu 1409.

F. asepalae Boiss.

B3: Between forest houses and hospital buildings, 1250-1300 m, 23 iv 1994, Mutlu 269. Ir.-Tur.

BRASSICACEAE

Sinapis arvensis L.

B3: Çatakbaşı Hill, edges of gardens, 1150 m, 8 ix 1996, Mutlu 1782. C3: Eastern slopes of Kiyakdede Mountain, 1150 m, 11 v 1995, Mutlu 1320.

Eruca sativa Mill.

C3: Göztepe Mountain, edges of fields, 1200 m, 23 iv 1995, Mutlu 1278. (Culture).

Raphanus raphanistrum L.

B3: Road edge at park entrance, 1200 m, 11 v 1995, Mutlu 1386. (Culture).

Rapistrum rugosum (L.) All.

B3: Road edge at park entrance, 1200 m, 2 vi 1995, Mutlu 1387. C3: Eastern slopes of Kiyakdede Mountain, edges of fields, 1100 m, 23 vii 1994, Mutlu 980.

Conringia orientalis (L.) Andr.

C3: Göztepe Mountain, edges of fields, 1200 m, 23 iv 1995, Mutlu 1282.

C. perfoliata (C.A.Mey.) N.Busch

B3: Çatak Mountain, 1150-1300 m, 22 iv 1995, Mutlu 1242. C3: Göztepe Mountain, edges of fields, 1200 m, 23 iv 1995, Mutlu 1280.

Lepidium sativum L. subsp. *sativum*

B3: Road edge at park entrance, 1200 m, 22 iv 1995, Mutlu 1374. (Culture).

L. perfoliatum L.

B3: Road edge at park entrance, 1200 m, 22 iv 1995, Mutlu 1373.

Cardaria draba (L.) Desv. subsp. *draba*

B3: Between Külbaşı Hill and Uzunburun Hill, 1150-1250 m, 24 vi 1994, Mutlu 666.

Isatis glauca Aucher ex Boiss.

subsp. *glauca*

B3: Çatakbaşı Hill, 1200 m, 16 vii 1995, Mutlu 1606. Ir.-Tur.

subsp. *galatica* Yild.

C3: Opposite slopes of Akçeşme, water canal, 1200 m, 2 vi 1995, Mutlu 1023. En.-CR

Aethionema arabicum (L.) Andr. ex DC.

B3: Buzlukale Hill, serpentine, 1250-1300 m, 23 iv 1994, Mutlu 365.

A. cordatum (Desf.) Boiss.

B3: Between forest houses and park entrance, *Cedrus libani-Quercus coccifera* forest, 1150-1250 m, 27 v 1994, Mutlu 610. NT. Ir.-Tur.

A. iberideum (Boiss.) Boiss.

B3: Between Sazlıpınar and Külbaşı Hill 1150-1250 m, 24 vi 1994, Mutlu 773.

Thlaspi arvense L.

C3: Between Kiyakdede and Göztepe Mountains, edges of fields, 1200 m, 11 v 1995, Mutlu 1343.

T. perfoliatum L.

B3: Küçük sivri N slope, macchie, 1250-1300 m, 24 iii 1994, Mutlu 201.

T. ochroleucum Boiss. & Heldr.

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1250-1300 m, 22 iv 1994, Mutlu 266-443.

Capsella bursa-pastoris (L.) Medik.

B3: Between forest houses and water pump, *Cedrus libani* forest, 1150-1250 m, 23 iv 1994, Mutlu 340.

Boraeva orientalis Jaub. & Spach

B3: Northern slopes of Külbaşı Hill, edges of fields, 1200 m, 3 vi 1994, Mutlu 1518.

Euclidium syriacum (L.) R.Br.

B3: Road edge at park entrance, 1200 m, 2 vi 1995, Mutlu 1392.

Fibigia eriocarpa (DC.) Boiss.

B3: Road edge at park entrance, *Cedrus libani* forest, serpentine, 1200-1300 m, 17 xi 1993, Mutlu 161.

Alyssum dasycarpum Steph. ex Willd.

B3: Southern slopes of Kırmızı Hill, 1200 m, 25 iii 1994, Mutlu 223.

A. desertorum Stapf. var. *desertorum*

B3: Buzkale Hill, *Quercus coccifera* macchie, serpentine, 1250-1300 m, 23 iv 1994, Mutlu 366.

A. minus (L.) Rothm. var. *micranthium* (E.Mey.) T.R.Dudley

B3: Northern slopes of Çatak Mountain, edges of fields, 1150-1300 m, 22 iv 1995, Mutlu 1217.

A. mouradicum Boiss. & Bal.

B3: Park entrance, *Cedrus libani* clearings, 1200-1300 m, 18 xi 1993, Mutlu 175.

A. pateri Nyár. subsp. *pateri*

B3: Kuzgun Hill, 1350 m, 24 vii 1994, Mutlu 1086. En.-LC. Ir.-Tur

A. condensatum Boiss. & Hausskn. subsp. *flexibile* (Nyár.) T.R.Dudley

B3: Beltaşı Mountain, 1250-1350 m, 25 vi 1994, Mutlu 896.

A. filiforme Nyár.

B3: Between Sazlıpınar and Külbaşı Hill, 1150-1250 m, 24 vi 1994, Mutlu 673. En.-LC. Ir.-Tur.

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

B3: Northern slopes of Kızıldağ, 1300 m, 24 vii 1994, Mutlu 1058.

A. peltarioides Boiss. subsp. *virgatiforme* (Nyár.) T.R.Dudley

B3: Northern slopes of Küçüksivri Hill, 1250-1300 m, 25 vi 1994, Mutlu 865. En.-LC.

Clypeola jonthlaspi L.

B3: Çatak Mountain, 1150-1300 m, 22 iv 1995, Mutlu 1241.

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

B3: Northern slopes of Küçüksivri, 1250-1300 m, 24 iii 1994, Mutlu 203.

Arabis aubrietoides Boiss.

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1250-1300 m, 22 iv 1994, Mutlu 274. En.-LC.

A. caucasica Willd. subsp. *caucasica*

B3: Northern slopes of Kırmızı Hill, 1200 m, 25 iii 1994, Mutlu 218. C3: Beltaşı Mountain, *Quercus coccifera-Juniperus excelsa* forest, 1300-1400 m, 25 iii 1994, Mutlu 244.

A. nova Vill.

B3: Buzkale Hill, *Quercus coccifera* macchie, serpentine, 1250-1300 m, 23 iv 1994, Mutlu 375.

Barbarea intermedia Bor

C3: Eastern slopes of Kiyakdede Mountain, edges of fields, edges of water canal, 1150 m, 11 v 1995, Mutlu 1333.

B. plantaginea DC.

C3: Slopes opposite Karakaya village, lake shore, 1100 m, 23 iv 1995, Mutlu 1276.

Drabopsis verna K.Koch

B3: Külbaşı Hill, 1150 m, 22 iv 1995, Mutlu 1252. Ir.-Tur.

Aubrieta canescens (Boiss.) Bornm. subsp. *cilicica* (Boiss.) Cullen

B3: Kuzgun Hill, 1350 m, 24 vii 1994, Mutlu 1085. En.-LC. Ir.-Tur.

A. pinardii Boiss.

B3: Beltaşı Mountain, *Quercus coccifera-Juniperus excelsa* forest, 1300-1400 m, 25 iii 1994, Mutlu 243. En.-LC. Ir.-Tur.

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

C3: Between Kiyakdede and Göztepe Mountains, edges of fields, 1200 m, 11 v 1995, Mutlu 1339. B3: Çatakbaşı Hill, 1150 m, 16 vii 1995, Mutlu 1564.

Chorispora syriaca Boiss.

B3: Northern slopes of Çatak Mountain, edges of fields, 1150-1300 m, 22 iv 1995, Mutlu 1219. C3 Göztepe Mountain, 1200 m, 23 iv 1995, Mutlu 1286. Ir.-Tur.

Hesperis kotschyi Boiss.

B3: Zeybek Hill, 1250-1300 m, 25 vi 1994, Mutlu 838. En.-LC. Ir.-Tur.

H. balansae Fourn. subsp. *mytilensis* Dvořák

B3: Between camping area and hospital buildings, *Cedrus libani* forest, 1350-1400 m, 5 vi 1999, A. Duran 4583. En.-VU. E. Medit.

Malcolmia africana (L.) R.Br.

B3: Road edge at park entrance, 1200 m, 2 vi 1995, Mutlu 1428.

Erysimum crassipes Fisch. & Mey.

B3: Northern slopes of Kızıldağ, *Cedrus libani* forest, 1400-1500 m, 23 vi 1996, Mutlu 1688.

Erysimum repandum L.

C3: Göztepe Mountain, edges of fields, 1200 m, 23 iv 1995, Mutlu 1284.

Alliaria petiolata (M.Bieb.) Cavara & Grande

B3: Northern slopes of Kızıldağ, *Cedrus libani* forest, 1400-1500 m, 23 vi 1996, Mutlu 1716.

Sisymbrium loeselii L.

B3: Çatakbashi Hill, edges of gardens, 1150 m, 8 ix 1996, Mutlu 1788.

S. altissimum L.

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1250-1300 m, 22 iv 1994, Mutlu 283. C3: Between Kiyakdede and Göztepe Mountains, edges of fields, 1200 m, 11 v 1995, Mutlu 1345.

Descurainia sophia (L.) Webb ex Prantl

C3: Between Kiyakdede and Göztepe Mountains, edges of fields, 1200 m, 11 v 1995, Mutlu 1336.

Camelina rumelica Velen.

B3: Ulusazlıpınar, 1000-1100 m, 23 iv 1994, Mutlu 356. C3: Göztepe Mountain, 1000-1100 m, 23 iv 1995, Mutlu 1285.

CAPPARACEAE

Cleome ornithopodioides L.

B3: Northern slopes of Zeybek Hill, 1150-1300 m, 7 x 1995, Mutlu 1629.

RESEDACEAE

Reseda lutea L. var. *lutea*

B3: Between forest houses and park entrance, 1100-1250 m, 27 vi 1994, Mutlu 507.

R. luteola L.

B3: Between Sazlıpınar and Külbaşı Hill, 1150-1250 m, 24 vi 1994, Mutlu 703.

CISTACEAE

Cistus laurifolius L.

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1150-1250 m, 26 v 1994, Mutlu 472. Medit.

Helianthemum kotschyannum Boiss.

B3: Between forest houses and park entrance, 1150-1250 m, 27 v 1994, Mutlu 214. Ir.-Tur.

H. canum (L.) Baumg.

B3: Northern slopes of Kızıldağ, *Cedrus libani* forest, 1400-1500 m, 23 vi 1996, Mutlu 1709.

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

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1150-1250 m, 26 v 1994, Mutlu 467.

H. salicifolium (L.) Mill.

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1150-1250 m, 26 v 1994, Mutlu 468.

Fumana procumbens (Dun.) Gren. & Godr.

B3: Between forest houses and park entrance, 1100-1250 m, 27 v 1994, Mutlu 554.

F. paphlagonica Bornm. & Janch.

B3: Between Külbaşı Hill and Uzunburun Hill, 1150-1250 m, 24 vi 1994, Mutlu 634. En.-LC. Ir.-Tur.

F. aciphylla Boiss.

B3: Kızıldağ, 1600-1700 m, 25 vi 1994, Mutlu 925. Ir.-Tur.

VIOLACEAE

Viola odorata L.

B3: Park entrance, meadow, 1250 m, 22 iv 1995, Mutlu 1257.

V. kizildaghensis M.Dinç & Yild.

B3: Northern slopes of Kızıldağ, 1400-1500 m, 11 v 1995, Mutlu 1360. En.-CR.

V. occulta Lehm.

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1250-1300 m, Mutlu 289.

V. kitaibeliana Roem. & Schult.

C3: Southern slopes of Arpaderesi Hill, 1100-1250 m, 25 iii 1994, Mutlu 230.

V. heldreichiana Boiss.

C3: Beltaşı Mountain, *Quercus coccifera-Juniperus excelsa* forest, 1300-1400 m, 25 iii 1994, Mutlu 241. B3: Alaardıç Hill, 1200-1300 m, 3 iii 1995, Mutlu 1197. E. Medit.

POLYGALACEAE

Polygala pruinosa Boiss. subsp. *megaptera* Cullen

B3: Park entrance, 1300-1500 m, 3 vi 1995, Mutlu 1462.

P. anatolica Boiss. & Heldr.

B3: Kızıldağ, *Cedrus libani* clearings, 1600-1700 m, 25 vi 1994, Mutlu 921.

PORTULACACEAE

Portulaca oleraceae L.

B3: Çatakbashi Hill, edges of gardens, 1150 m, 8 ix 1996, Mutlu 1790.

CARYOPHYLLACEAE

Arenaria leptocladus (Rchb.) Guss.

B3: Fakılar village, Kaya Hill, limestone, 1250 m, 3 vi 1995, Mutlu 1485.

A. ledebouriana Frenzl var. *parviflora* Boiss.

B3: Kızıldağ, 1100-1250 m, 25 vi 1994, Mutlu 940. En.-LC. Ir.-Tur.

A. acerosa Boiss. & Heldr.

B3: Between Sazlıpınar and Külbaşı Hill, 1150-1250 m, 24 vi 1994, Mutlu 744. En.-LC.

Minuartia hirsuta (M.Bieb.) Hand.-Mazz. subsp. *falcata* (Griseb.) Mattf.

C3: Eastern slopes of Kiyakdede Mountain, 1150 m, 11 v 1995, Mutlu 1323.

M. hamata (Hausskn.) Mattf.

B3: Buzlukale Hill, 1250-1300 m, 23 iv 1994, Mutlu 359. Medit.

M. anatolica (Boiss.) Woronow var. *arachnoidea* McNeill

B3: Between Sazlıpınar and Külbaşı Hill, 1150-1250 m, 24 vi 1994, Mutlu 749. En.-LC. Ir.-Tur.

M. erythrosepala (Boiss.) Hand.-Mazz. var. *erythrosepala*

B3: Zeybek Hill, 1250-1300 m, 25 vi 1994, Mutlu 843.

M. leucocephaloides (Bornm.) Bornm.

B3: Between forest houses and park entrance, 1100-1250 m, 27 v 1995, Mutlu 527. En.-LC.

Cerastium dichotomum L. subsp. **dichotomum**

B3: Buzlukale Hill, 1250-1300 m, 23 iv 1994, Mutlu 377.

C. brachypetalum Pers. subsp. **roeseri** (Boiss. & Heldr.) E.Nyman

B3: Northern slopes of Küçükşivri Hill, *Cedrus libani* forest, 1250 m, 23 iv 1994, Mutlu 339. C3: Göztepe Mountain, 1200 m, 23 iv 1995, Mutlu 1287.

C. gracile Dufour.

B3: Külbaşı Hill, 1150 m, 22 iv 1995, Mutlu 1251.

Holosteum umbellatum L. var. **umbellatum**

B3: Between forest houses and water pump, *Cedrus libani* forest, 1250-1300 m, 23 iv 1994, Mutlu 325. C3: Eastern slopes of Kiyakdede Mountain, 1150 m, 11 v 1995, Mutlu 1335.

Moenchia mantica (L.) Bartl. subsp. **caerulea** (Boiss.) A.R.Clapham

B3: Northern slopes of Külbaşı Hill, 1200 m, 11 v 1995, Mutlu 1351.

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

B3: Buzlukale Hill, 1150-1250 m, 25 vi 1994, Mutlu 891.

Dianthus anatolicus Boiss.

B3: Northern slopes of Küçükşivri Hill, 1250-1300 m, 25 vi 1994, Mutlu 863. En.-LC. Ir.-Tur.

D. crinitus Sm. var. **crinitus**

B3: Northern slopes of Küçükşivri Hill, *Cedrus libani* forest, 1250-1300 m, 25 vi 1994, Mutlu 824.

D. elegans d'Urv. var. **elegans**

B3: Çatakbaşı Hill, edges of fields, 16 x 1994, Mutlu 1125.

Velezia rigida L.

B3: Beltaşı Mountain, 1150-1250 m, 25 vi 1994, Mutlu 898.

Saponaria pamphylica Boiss. & Heldr.

B3: Northern slopes of Kızıldağ, 1300 m, 24 vii 1994, Mutlu 1048. En.-LC.

S. orientalis L.

B3: Northern slopes of Zeybek Hill, edges of gardens, 1150-1300 m, 7 x 1995, Mutlu 1627.

S. kotschyi Boiss.

B3: Northern slopes of Kızıldağ, *Cedrus libani* forest, 1400-1500 m, 23 vi 1996, Mutlu 1690. En.-LC.

Gypsophila arrosti Guss. var. **nebulosa** (Boiss. & Heldr.) Bark.

B3: Çatakbaşı Hill, edges of fields, 1150 m, 16 vii 1995, Mutlu 1565. En.-NT. Ir.-Tur.

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

B3: Between Sazlıpınar and Külbaşı Hill, edges of fields, 1150-1250 m, 24 vi 1994, Mutlu 793.

Silene italica (L.) Pers.

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1250-1300 m, 26 v 1994, Mutlu 447.

S. bupleuroides L.

B3: Northern slopes of Kızıldağ, *Cedrus libani* forest, 1300 m, 24 vii 1994, Mutlu 1071.

S. otites (L.) Wibel

B3: Fakılar village, Kaya Hill, 1250 m, 3 vi 1995, Mutlu 1483.

S. cappadocica Boiss. & Heldr.

B3: Northern slopes of Kızıldağ, 1400-1500 m, 11 v 1995, Mutlu 1361. Ir.-Tur.

S. spergulifolia (Desf.) M.Bieb.

B3: Northern slopes of Kızıldağ, 1400-1500 m, 11 v 1995, Mutlu 1356. Ir.-Tur.

S. vulgaris (Moench) Garcker var. **vulgaris**

B3: Road edge at park entrance, edges of fields, 1200 m, 2 vi 1995, Mutlu 1423.

S. fabaria (L.) Sibth & Sm.

B3: Kızıldağ, 1600-1700 m, 25 vi 1994, Mutlu 908.

S. tunicoides Boiss.

B3: Northern slopes of Kızıldağ, *Cedrus libani* forest, 1400-1500 m, 23 vi 1996, Mutlu 1695. En.-NT. E. Medit.

S. alba (Mill.) E.H.L.Krause subsp. **ericalcyna** (Boiss.) Walters

B3: Between Sazlıpınar and Külbaşı Hill, 1150-1250 m, 24 vi 1994, Mutlu 741.

S. subconica Friv.

C3: Armutlu village, 1250 m, 3 vi 1995, Mutlu 1473.

S. conoidea L.

C3: Kiyakdede Mountain, 1150 m, 11 v 1995, Mutlu 1295.

Cucubalus baccifer L.

C3: Dörtsöğütler, edges of gardens, 1150 m, 16 x 1994, Mutlu 1171.

Agrostemma githago L.

B3: Between forest houses and park entrance, 1100-1250 m, 27 v 1994, Mutlu 546.

ILLECEBRACEAE

Herniaria glabra L.

B3: Northern slopes of Zeybek Hill, 1150-1300 m, 7 x 1995, Mutlu 1616.

H. micrantha A.K.Jacks. & Turrill.

B3: Çatakbaşı Hill, edges of gardens, 1150 m, 8 ix 1996, Mutlu 1787. E. Medit. (mt.).

Paronychia argyroloba Stapf.

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1150-1250 m, 26 v 1994, Mutlu 433. En.-NT.

POLYGONACEAE

Atraphaxis billardieri Jaub. & Spach var. **billardieri**

B3: Between Sazlıpınar and Külbaşı Hill, 1150-1250 m, 24 vi 1994, Mutlu 777. Ir.-Tur.

Polygonum lapathifolium L.

B3: Northern slopes of Küçükşivri Hill, 1150-1300 m, 7 x 1995, Mutlu 1640.

P. setosum Jacq. subsp. **setosum**

B3: Park entrance, *Cedrus libani* forest, clearings, 1200 m, 2 vi 1995, Mutlu 172. Ir.-Tur.

P. cognatum Meisn.

C3: Kiyakdede Mountain, edges of fields, 1100 m, 23 vii 1994, Mutlu 1006.

P. arenastrum Bor

B3: Northern slopes of Küçükşivri Hill, 1150-1300 m, *Cedrus libani* forest, 1250 m, 7 x 1995, Mutlu 1640.

P. bellardii All.

B3: Northern slopes of Kızıldağ, *Cedrus libani* forest, 1250 m, 23 vii 1994, Mutlu 1044.

P. convolvulus L.

C3: Opposite slopes of Akçeşme, Watering canal, edges of fields, 1150 m, 23 vii 1994, Mutlu 1030.

Rumex acetosella L.

B3: Between Sazlıpınar and Külbaşı Hill, 1150-1250 m, 24 vi 1994, Mutlu 683.

R. patientia L.

B3: Road edge at park entrance, 1200 m, 2 vi 1995, Mutlu 1396.

R. crispus L.

B3: Road edge at park entrance, 1200 m, 18 xi 1993, Mutlu 170. C3: Kiyakdede Mountain, 1100 m, 23 vii 1994, Mutlu 1014.

R. conglomeratus Murray

B3: Çatakbaşı Hill, edges of gardens, 1150 m, 8 ix 1996, Mutlu 1781.

R. pulcher L.

B3: Çatakbaşı Hill, edges of gardens, 1150 m, 16 vii 1995, Mutlu 1560.

CHENOPODIACEAE

Beta lomatogona Fisch. & Mey.

B3: Ulusazlıpınar, 1000-1100 m, 25 vi 1994, Mutlu 943. Ir.-Tur.

B. vulgaris L.

B3: Çatakbaşı Hill, edges of gardens, 1150 m, 8 ix 1996, 1796. (Culture)

Chenopodium botrys L.

B3: Northern slopes of Kızıldağ, 1300 m, 24 vii 1994, Mutlu 1075.

C. foliosum (Moench) Aschers.

B3: Northern slopes of Küçükşivri Hill, *Cedrus libani* forest, 1250-1300 m, 25 vi 1994, Mutlu 821.

C. vulvaria L.

B3: Northern slopes of Kızıldağ, 1300 m, 24 vii 1994, Mutlu 1066.

C. album L. subsp. *album* var. *microphyllum* (Boenn.) Aellen

C3: Kiyakdede Mountain, edges of fields, 1100 m, 23 vii 1994, Mutlu 982.

C. ficifolium Sm.

C3: Kiyakdede Mountain, edges of fields, 1100 m, 23 vii 1994, Mutlu 979.

Atriplex patula L.

B3: Road edge at park entrance, 1100-1250 m, 7 ix 1996, Mutlu 1756.

Kochia scoparia (L.) Schrad.

B3: Northern slopes of Zeybek Hill, 1150-1300 m, 7 x 1995, Mutlu 1642.

Salsola ruthenica Iljin

B3: Northern slopes of Zeybek Hill, 1150-1300 m, 7 x 1995, Mutlu 1637.

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

B3: Road edge at park entrance, 1200-1400 m, 18 xi 1993, Mutlu 181.

AMARANTHACEAE

Amaranthus retroflexus L.

B3: Northern slopes of Zeybek Hill, edges of fields, 1150 m, 7 x 1995, Mutlu 1626.

A. chlorostachys Willd.

B3: Northern slopes of Zeybek Hill, edges of fields, 1150 m, 7 x 1995, Mutlu 1168.

A. albus L.

B3: Northern slopes of Zeybek Hill, edges of fields, 1150 m, 7 x 1995, Mutlu 1617.

HYPERICACEAE

Hypericum heterophyllum Vent.

B3: Between Sazlıpınar and Külbaşı Hill, 1150-1250 m, 24 vi 1994, Mutlu 761. En.-LC.

H. hyssopifolium Chaix. subsp. *elongatum* (Ledeb.) Woronow var. *microcalycinum* (Boiss.& Heldr.) Boiss.

B3: Between forest houses and park entrance, 1100-1250 m, 27 v 1994, Mutlu 558. Ir.-Tur.

H. scabrum L.

B3: Between Sazlıpınar and Külbaşı Hill, 1150-1250 m, 24 vi 1994, Mutlu 638. Ir.-Tur.

H. confertum Choisy subsp. *confertum*

B3: Northern slopes of Kızıldağ, *Cedrus libani* forest, 1300-1500 m, 3 vi 1996, Mutlu 1467.

H. aviculariifolium Jaub. & Spach

subsp. *aviculariifolium* var. *aviculariifolium*

B3: Northern slopes of Kızıldağ, *Cedrus libani* forest, 1400-1500 m, 23 vi 1996, Mutlu 1710. En.-LC. E. Medit.

subsp. *depilatum* (Freyn & Bornm.) N.Robson var. *depilatum*

B3: Northern slopes of Kızıldağ, *Cedrus libani* forest, 1300 m, 24 vii 1994, Mutlu 1067. En.-LC. Ir.-Tur.

H. perforatum L.

B3: Road edge at park entrance, 1100-1200 m, 25 vi 1994, Mutlu 955.

MALVACEAE

Malva sylvestris L.

B3: Armutlu village, field, 1200 m, 3 vi 1995, Mutlu 1500.

M. neglecta Wallr.

C3: Dörtsöğütler, edges of gardens, 1150 m, 16 x 1994, Mutlu 1180. B3: Road edge at park entrance, 1200 m, 2 vi 1995, Mutlu 1375.

Alcea apterocarpa (Fenzl) Boiss.

B3: Road edge at park entrance, 1100 m, 25 vi 1994, Mutlu 958. En.-LC. Ir.-Tur.

A. pallida Waldst. & Kit.

B3: Northern slopes of Zeybek Hill, 1150-1300 m, 7 x 1995, Mutlu 1632.

LINACEAE

Linum nodiflorum L.

B3: Between forest houses and park entrance, *Quercus coccifera* brushwoods, 1100-1250 m, 27 v 1994, Mutlu 549. Medit.

L. hirsutum L. subsp. *anatolicum* (Boiss.) Hayek var. *anatolicum*

B3: Between forest houses and park entrance, *Quercus coccifera* 1100-1250 m, 27 v 1994, Mutlu 484. En.-LC. Ir.-Tur.

GERANIACEAE

Geranium lasiopus Boiss. & Heldr.

B3: Eastern slope of Küçükşivri Hill, rocky crevices, 1250-1300 m, 25 vi 1994, Mutlu 848. En.-VU. Ir.-Tur.

G. lucidum L.

B3: Northern slopes of Küçükşivri Hill,

Cedrus libani forest, 1300 m, 5 v 1995, Mutlu 1249.

G. rotundifolium L.

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1150-1250 m, 26 v 1994, Mutlu 421. C3: Dörsöğütler, edges of gardens, 1150 m, 16 x 1994, Mutlu 1181.

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

C3: Göztepe Mountain, edges of fields, 1200 m, 23 iv 1995, Mutlu 1277.

G. macrostylum Boiss.

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1150-1250 m, 26 v 1994, Mutlu 288. E. Medit. (mt.).

G. sylvaticum L.

C3: Kıyakdede Mountain, edges of fields, 1100 m, 23 vii 1994, Mutlu 966. Euro-Sib.

G. pyrenaicum Burm.f.

B3: Çatakbaşı Hill, edges of fields, 1150 m, 16 vii 1995, Mutlu 1542.

Erodium amanum Boiss. & Kotschy

B3: Northern slopes of Kırmızı Hill, 1200 m, 25 iii 1994, Mutlu 222 (male). B3: Western slopes of Küçüksivri Hill, 1500-1550 m, 23 iv 1994, Mutlu 343 (female). En.-LC.

E. cicutarium (L.) L'Hér.

subsp. **cicutarium**

B3: Between forest houses and water pump, *Cedrus libani* forest, 1150-1250 m, 23 iv 1994, Mutlu 310.

subsp. **bipinnatum** (Cav.) Tourlet

B3: Beltaşı Mountain, *Cedrus libani*-*Juniperus excelsa* forest, 1300-1400 m, 25 iii 1994, Mutlu 235.

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

C3: Opposite slopes of Göcek Fountain, 900-1000 m, 25 iii 1994, Mutlu 227. Medit.

Pelargonium endlicherianum Fenzl

B3: Northern slopes of Kızıldağ, *Cedrus libani* forest, 1300 m, 24 vii 1994, Mutlu 1065.

ZYGOPHYLLACEAE

Tribulus terrestris L.

B3: Çatakbaşı Hill, edges of fields, 1150 m, 16 vii 1995, Mutlu 1528.

Peganum harmala L.

C3: Between Kıyakdede and Göztepe Mountains, edges of fields, 1100-1150 m, 23 vii 1994, Mutlu 991.

VITACEAE

Vitis vinifera L.

B3: Çatakbaşı Hill, edges of fields, 1150 m, 16 vii 1995, Mutlu 1534.

RHAMNACEAE

Frangula alnus Mill. subsp. **alnus**

B3: Between forest houses and Road edge at park entrance, 1150-1250 m, 24 vii 1994, Mutlu 1096. Euro.-Sib.

Rhamnus rhodopeus Velen.

C3: Akçeşme, beside water canal, edges of fields, 1150 m, 23 vii 1994, Mutlu 1037.

R. thymifolius Bornm.

B3: Northern slopes of Küçüksivri Hill, rocky crevices, *Cedrus libani* forest, 1250-1300 m, 25 vi 1994, Mutlu 803. En.-LC.

ANACARDIACEAE

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

B3: Tencerepınarı, 1300-1400 m, 3 vi 1995, Mutlu 1470. E. Medit.

FABACEAE

Chamaecytisus pygmaeus (Willd.) Rothm.

B3: Between forest houses and Road edge at park entrance, 1100-1250 m, 25 vi 1994, Mutlu 588. Euro.-Sib.

Genista involucreta Spach

B3: Zeybek Hill, 1250-1300 m, 25 vi 1994, Mutlu 844. En.-LC. Ir.-Tur.

Lotononis genistoides (Fenzl) Benth.

B3: Between Sazlıpınar and Külbaşı Hill, 1150-1250 m, 24 vi 1994, Mutlu 679. Ir.-Tur.

Robinia pseudoacacia L.

B3: Between forest houses and Road edge at park entrance, 1100-1250 m, 27 v 1994, Mutlu 536. (Culture).

Galega officinalis L.

B3: Çatakbaşı Hill, edges of fields, 1150 m, 16 vii 1995, Mutlu 1550. Euro.-Sib.

Colutea melanocalyx Boiss. & Heldr. subsp. **melanocalyx**

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1150-1250 m, 26 v 1994, Mutlu 411. En.-EN. E. Medit.

Astragalus hamosus L.

B3: Park entrance, edges of fields, 1200 m, 27 v 1994, Mutlu 1452.

A. oxytropifolius Boiss.

B3: Between forest houses and park entrance, *Cedrus libani* forest, 1100-1250 m, 27 v 1994, Mutlu 591. Ir.-Tur.

A. plumosus Willd. subsp. **krugianus** (Freyne & Bornm.) D.F.Chamb. & V.A.Matthews

B3: Between forest houses and park entrance, 1150-1250 m, 27 v 1994, Mutlu 533. Ir.-Tur.

A. sitrictifolius Boiss. var. **kutepovii** Sirj.

C3: Akçeşme, beside water canal, edges of fields, 1150 m, 23 vii 1994, Mutlu 1038. Ir.-Tur.

A. micropterus Fisch.

B3: Between Sazlıpınar and Külbaşı Hill, 1150-1250 m, 24 vi 1994, Mutlu 715. En.-LC. Ir.-Tur.

A. brachypterus Fisch.

B3: Northern slopes of Külbaşı Hill, 1200 m, 3 iv 1995, Mutlu 1508. Ir.-Tur.

A. tmoleus Boiss. var. **bounacanthus** (Boiss.) D.F.Chamb.

C3: Between Kıyakdede and Göztepe Mountains, 1200-1300 m, 23 vii 1996, Mutlu 995. B3: Between Sazlıpınar and Külbaşı Hill, 1150-1250 m, 24 vi 1994, Mutlu 649. En.-LC.

A. mesogitanus Boiss.

B3: Kızıldağ, 1500 m, 25 vi 1994, Mutlu 906. En.-LC.

A. elongatus Willd. subsp. **elongatus**

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1150-1250 m, 26 v 1994, Mutlu 447.

A. angustifolius Lam.

subsp. **angustifolius** var. **angustifolius**

B3: Buzlukale Hill, 1250-1300 m, 23 iv 1994, Mutlu 363.

subsp. **pungens** (Willd.) Hayek

B3: Between forest houses and hospital

buildings, *Cedrus libani* forest, 1150-1250 m, 26 v 1995, Mutlu 431.

A. gymnolobus Fisch.

B3: Külbaşı Hill, road edge, 1150-1300 m, 3 vi 1995, Mutlu 1506. En.-LC. Ir.-Tur.

A. vulnerariae DC.

B3: Between forest houses and park entrance, *Cedrus libani* forest, 1100-1250 m, 27 v 1994, Mutlu 538. En.-LC.

Cicer arietinum L.

B3: Fakılar village, Kaya Hill, 1250 m, 3 vi 1995, Mutlu 1495. (Culture)

Vicia cracca L. subsp. *stenophylla* Velen.

B3: Between forest houses and park entrance, *Cedrus libani* forest, 1100-1250 m, 27 v 1994, Mutlu 543.

V. villosa Roth subsp. *eriocarpa* (Hauskn.) P.W.Ball

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1150-1250 m, 26 v 1994, Mutlu 427. C3: Akçeşme, beside water canal, edges of fields, 1150 m, 23 vii 1994, Mutlu 1033.

V. ervilia (L.) Willd.

B3: Northern slopes of Kızıldağ, *Cedrus libani* forest, 1400-1500 m, 23 vi 1996, Mutlu 1712.

V. hybrida L.

B3: Road edge at park entrance, 1200 m, 2 vi 1995, Mutlu 1411.

V. lathyroides L.

B3: Between forest houses and park entrance, *Cedrus libani* forest, 1100-1250 m, 27 v 1994, Mutlu 555.

V. sativa L. subsp. *sativa*

B3: Road edge at park entrance, 1200 m, 2 vi 1995, Mutlu 1383.

V. narbonensis L. subsp. *narbonensis*

C3: Between Kiyakdede and Göztepe Mountains, edges of fields, 1200 m, 11 v 1995, Mutlu 1338.

Lathyrus digitatus (M.Bieb.) Fiori

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1250-1300 m, 22 iv 1994, Mutlu 272. C3: Göztepe Mountain, edges of fields, 1200 m, 23 iv 1996, Mutlu 1279. E. Medit.

L. saxatilis (Vent.) Vis.

B3: Buzlukale Hill, *Quercus coccifera* brushwoods, 1250-1300 m, 23 iv 1994, Mutlu 364. Medit.

L. setifolius L.

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1150-1250 m, 26 v 1994, Mutlu 459. Medit.

L. sativus L.

C3: Eastern slopes of Kiyakdede Mountain, edges of fields, 1150 m, 11 v 1995, Mutlu 1312.

L. aphaca L. var. *pseudoaphaca* (Boiss.) P.H.Davis

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1150-1250 m, 26 v 1994, Mutlu 457. E. Medit.

Pisum sativum L. subsp. *brevipedunculatum* (P.H.Davis & Meikle) Ponert

B3: Road edge at park entrance, 1200 m, 2 vi 1995, Mutlu 1419.

Ononis pusilla L.

B3: Between Sazlıpınar and Külbaşı Hill, 1150-1250 m, 24 vi 1994, Mutlu 696. Medit.

O. spinosa L. subsp. *leiosperma* (Boiss.) Şirj.

B3: Northern slopes of Küçükşivri Hill, road edge, 1150 m, 16 x 1994, Mutlu 1158.

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

B3: Between forest houses and park entrance, *Cedrus libani* forest, 1100-1250 m, 27 v 1994, Mutlu 500.

T. speciosum Willd.

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1150-1250 m, 26 v 1994, Mutlu 460.

T. campestre Schreb.

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1150-1250 m, 26 v 1994, Mutlu 456.

T. pratense L. var. *pratense*

B3: Between forest houses and park entrance, *Cedrus libani-Quercus coccifera* clearings, 1100-1250 m, 27 v 1994, Mutlu 561. C3: Dörtsoğütler, edges of gardens, 1150 m, 16 x 1994, Mutlu 1178.

T. pannonicum Jacq. subsp. *elongatum* (Willd.) Zohary

B3: Northern slopes of Küçükşivri Hill, *Cedrus libani* forest, 1250-1300 m, 25 vi 1994, Mutlu 869. En.-LC.

T. sylvaticum Gérard ex Loisel

B3: Tencerepınarı, edges of fields, 1250 m, 3 vi 1995, Mutlu 1482.

T. lucanicum Gasp.

B3: Northern slopes of Kızıldağ, *Cedrus libani* forest, 1400-1500 m, 23 vi 1996, Mutlu 1722. Medit.

T. hirtum All.

B3: Northern slopes of Külbaşı Hill, 1200 m, 3 vi 1995, Mutlu 1514. Medit.

T. arvense L. var. *arvense*

B3: Tencerepınarı, edges of fields, 1250 m, 3 vi 1995, Mutlu 1480.

Melilotus officinalis (L.) Desr.

B3: Çatakbaşı Hill, road edge, 1150-1300 m, 16 x 1994, Mutlu 1121.

M. alba Desr.

B3: Road edge at park entrance, *Cedrus libani* clearings, 1100-1200 m, 25 vi 1994, Mutlu 957.

Trigonella brachycarpa (Fisch.) Moris

B3: Between forest houses and park entrance, *Cedrus libani* forest, 1100-1250 m, 27 v 1994, Mutlu 511. Ir.-Tur.

T. velutina Boiss.

B3: Between forest houses and park entrance, *Cedrus libani* forest, 1100-1250 m, 27 v 1994, Mutlu 499. Ir.-Tur.

T. strangulata Boiss.

B3: Northern slopes of Kızıldağ, *Cedrus libani* forest, 1400-1500 m, 23 vi 1996, Mutlu 1726. Ir.-Tur.

T. fischeriana Ser.

B3: Northern slopes of Kızıldağ, *Cedrus libani* forest, 1400-1500 m, 23 vi 1996, Mutlu 1725. Ir.-Tur.

T. tenuis Fisch. ex Bieb.

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1150-1250 m, 27 v 1994, Mutlu 462. Ir.-Tur.

Medicago radiata L.

B3: Fakılar village, Kaya Hill, edges of

fields, 1250 m, 3 vi 1995, Mutlu 1492. Ir.-Tur. element.

M. orbicularis (L.) Bartal.

B3: Park entrance, edges of fields, 1200 m, 2 vi 1995, Mutlu 1454.

M. x varia Martyn

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1150-1250 m, 26 v 1994, Mutlu 417. C3: Lake Beyşehir shore, 1000 m, 23 vii 1994, Mutlu 1021.

M. minima (L.) L. ex Bartal.

var. **minima**

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1150-1250 m, 26 v 1994, Mutlu 463.

var. **brevispina** Benth.

B3: Northern slopes of Kızıldağ, *Cedrus libani* forest, 1400-1500 m, 23 vi 1996, Mutlu 1721.

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

B3: Road edge at park entrance, 1200 m, 2 vi 1995, Mutlu 170. C3: Akçeşme, slope of water canal, road edge, 1200 m, 2 vi 1996, Mutlu 1420.

Dorycnium pentaphyllum Scop. subsp. **anatolicum** (Boiss.) Gams

B3: Between forest houses and park entrance, *Cedrus libani* forest, 1100-1250 m, 27 v 1994, Mutlu 506.

Lotus corniculatus L. subsp. **corniculatus**

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1150-1250 m, 26 v 1994, Mutlu 418.

L. aegaeus (Griseb.) Boiss.

B3: Kızıldağ, 1600-1700 m, 25 vi 1994, Mutlu 901. Ir.-Tur.

Coronilla scorpioides (L.) Koch

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1150-1250 m, 26 v 1994, Mutlu 458.

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

B3: Between Sazlıpınar and Külbaşı Hill, 1150-1250 m, 24 vi 1994, Mutlu 686.

Hedysarum varium Willd.

B3: Northern slopes of Kızıldağ, *Cedrus libani* clearings, 1300 m, 24 vii 1994, Mutlu 1054. Ir.-Tur.

Onobrychis fallax Freyn & Sint.

B3: Northern slopes of Külbaşı Hill, 1500-1600 m, 3 vi 1995, Mutlu 1505. En.-LC. Ir.-Tur.

O. pisidica Boiss.

B3: Between forest houses and park entrance, *Cedrus libani* forest, 1300 m, 27 v 1994, Mutlu 600. En.-NT. Ir.-Tur.

O. oxydontha Boiss. subsp. **armena** (Boiss. & Huet) Aktoklu

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1150-1250 m, 26 v 1994, Mutlu 454. En.-LC.

Alhagi pseudoalhagi (M.Bieb.) Desv.

C3: Kiyakdede Mountain, edges of fields, 1100 m, 24 vi 1994, Mutlu 978. Ir.-Tur.

ROSACEAE

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

B3: Çatakbaşı Hill, edges of fields, 1150-1300 m, 16 x 1994, Mutlu 1133. Euro.-Sib.

P. x domestica L.

C3: Dörtsögütler, edges of gardens, 1150 m, 16 x 1994, Mutlu 1172. (Culture)

P. divaricata Ledeb. subsp. **divaricata**

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1150-1250-1300 m, 22 iv 1994, Mutlu 262.

P. cocomilia Ten var. **cocomilia**

C3: Kiyakdede Mountain, edges of fields, 1100 m, 24 vi 1994, Mutlu 961. VU.

Cerasus vulgaris Mill.

B3: Between forest houses and park entrance, *Cedrus libani* forest, 1100-1250 m, 27 v 1994, Mutlu 545. (Culture)

Amygdalus communis L.

C3: Dörtsögütler, edges of gardens, 1150 m, 16 x 1994, Mutlu 1169.

A. graeca Lindl.

B3: Park entrance-hospital buildings between, 1200 m, 2 vi 1995, Mutlu 1441. E. Medit.

Rubus sanctus Schreb.

C3: Dörtsögütler, edges of gardens, 1150 m, 16 x 1994, Mutlu 1175.

Potentilla recta L.

B3: Between forest houses and park entrance, *Cedrus libani* clearings, 1100-1250 m, 27 v 1994, Mutlu 566.

P. supina L.

C3: Lake Beyşehir shore, 1000 m, 23 vii 1994, Mutlu 1017.

P. reptans L.

B3: Armutlu village, edges of fields, 1200 m, 3 vi 1995, Mutlu 1498.

Geum urbanum L.

B3: Between forest houses and park entrance, *Cedrus libani* forest, 1100-1250 m, 27 v 1994, Mutlu 584. Euro.-Sib.

Orthurus heterocarpus (Boiss.) Juz.

B3: Between Sazlıpınar and Külbaşı Hill, 1150-1250 m, 24 vi 1994, Mutlu 1170.

Agrimonia eupatoria L.

C3: Dörtsögütler, edges of gardens, 1150 m, 16 x 1994, Mutlu 1171. B3: Çatakbaşı Hill, edges of fields, 1150 m, 16 vii 1995, Mutlu 1548.

Sanguisorba minor Scop. subsp. **muricata** (Spach) Briq.

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1150-1250 m, 26 v 1994, Mutlu 432.

Rosa canina L.

B3: Between forest houses and park entrance, *Cedrus libani* forest, 1150-1250 m, 26 v 1994, Mutlu 482.

Mespilus germanica L.

B3: Park entrance, 1150 m, 16 x 1994, Mutlu 1157. (Culture)

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

B3: Çatakbaşı Hill, edges of fields, 1150-1300 m, 16 x 1994, Mutlu 1117.

C. szovitsii Pojark.

C3: Kiyakdede Mountain, edges of fields, 1100 m, 23 vii 1994, Mutlu 976. Ir.-Tur.

C. monogyna Jacq. subsp. **azarella** (Griseb) Franco

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1150-1250 m, 26 v 1994, Mutlu 410.

C. microphylla K.Koch

B3: Road edge at park entrance, *Cedrus*

libani clearings, 1200 m, 18 xi 1993, Mutlu 171. C3: Akçeşme, slope of water canal, edges of fields, 1150 m, 23 vii 1994, Mutlu 1034. Hyrcano-Euxine

Cydonia oblonga Mill.

B3: Between forest houses and park entrance, *Cedrus libani* forest, 1100-1250 m, 27 v 1994, Mutlu 535. (Culture).

Malus sylvestris Mill. subsp. **orientalis** (Uglitzk.) Browicz var. **orientalis**

B3: forest houses, road edge, *Cedrus libani* forest, 1150-1250 m, 23 iv 1994, Mutlu 301. (Culture).

Pyrus communis L. subsp. **sativa** (DC.) Hegi

B3: Between forest houses and water pump, *Cedrus libani* forest, 1150-1250 m, 23 iv 1994, Mutlu 319. C3: Eastern slopes of Kiyakdede Mountain, edges of fields, 1150 m, 11 v 1995, Mutlu 1313. (Culture).

P. elaeagnifolia Pall.

subsp. **eleagnifolia**

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1150-1250-1300 m, 22 iv 1994, Mutlu 265. C3: Akçeşme, slope of water canal, edges of fields, 1100 m, 23 vii 1994, Mutlu 1031.

subsp. **kotschyana** (Boiss.) Browicz

B3: Between Sazlıpınar and Külbaşı Hill , 1150-1250 m, 24 vi 1994, Mutlu 757.

Amelanchier parviflora Boiss.

var. **parviflora**

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1150-1250 m, 26 v 1994, Mutlu 419.

var. **dentata** Browicz

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1150-1250 m, 26 v 1994, Mutlu 420. E. Medit.

LYTHRACEAE

Lythrum hyssopifolia L.

B3: Çatakbaşı Hill, edges of fields, 1150 m, 16 vii 1995, Mutlu 1602.

ONOGRACEAE

Epilobium hirsutum L.

B3: Park entrance, next to fountains, 1150-1200 m, 16 x 1994, Mutlu 1137. C3: Kiyakdede Mountain, 1100 m, 23 vii 1994, Mutlu 970.

E. minutiflorum Hausskn.

B3: Between Sazlıpınar and Külbaşı Hill , 1150-1250 m, 24 vi 1994, Mutlu 707. Ir.-Tur.

CUCURBITACEAE

Cucurbita pepo L.

B3: Çatakbaşı Hill, edges of fields, 1150 m, 16 vii 1995, Mutlu 1582. (Culture).

CRASSULACEAE

Umbilicus erectus DC.

B3: Kuzgun Hill, 1350 m, 24 vii 1994, Mutlu 1081.

Rosularia chrysantha (Boiss.) Takht.

B3. Kızıldağ, 1600-1700 m, 25 vi 1994, Mutlu 933. En.-LC. E. Medit. (mt.).

Sedum amplexicaule DC.

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1150-1250 m, 26 v 1994, Mutlu 450. Medit.

S. sartorianum Boiss. subsp. **sartorianum**

B3: Between Sazlıpınar and Külbaşı Hill , 1150-1250 m, 24 vi 1994, Mutlu 753.

S. album L.

B3: Western slopes of Küçüksivri Hill, 1250-1300 m, 25 vi 1994, Mutlu 946.

SAXIFRAGACEAE

Saxifraga tridactylites L.

B3: Çatak Mountain, 1150-1300 m, 22 iv 1995, Mutlu 1246.

APIACEAE

Actinolema macrolema Boiss.

B3: Çatakbaşı Hill, edges of fields, 1150 m, 16 vii 1995, Mutlu 1567. Ir.-Tur.

Eryngium kotschy Boiss.

B3: Kızıldağ, 1600-1700 m, *Cedrus libani* forest, 25 vi 1994, Mutlu 927. En.-LC. E. Medit. (mt.).

E. campestre L. var. **virens** Link

B3: Çatakbaşı Hill, edges of fields, 1150-1300 m, 16 x 1994, Mutlu 1122.

Echinophora tournefortii Jaub. & Spach.

C3: Kiyakdede Mountain, 1100 m, 23 vii 1994, Mutlu 975. B3: Çatakbaşı Hill, edges of fields, 1150 m, 16 vii 1995, Mutlu 1583. Ir.-Tur.

E. tenuifolia L. subsp. **sibthorpiana** (Guss.) Tutin

C3: Dörtsögütler, edges of gardens, 1150 m, 16 x 1994, Mutlu 1182. Ir.-Tur.

Antriscus nemorosa (M.Bieb.) Spreng.

B3: Beşkardeşler ravine, *Cedrus libani*-*Juniperus excelsa* forest, 1250 m, 16 x 1994, Mutlu 1151.

Scandix stellata Banks & Sol.

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1250-1300 m, 22 iv 1994, Mutlu 275.

S. iberica M.Bieb.

C3: Between Kiyakdede and Göztepe Mountains, edges of fields, 1200 m, 11 v 1995, Mutlu 1334.

S. pecten-veneris L.

B3: Ulusazlıpınar, edges of fields, 1000-1100 m, 23 iv 1994, Mutlu 353.

S. macrorhyncha C.A.Mey.

B3: Between forest houses and park entrance, *Cedrus libani* forest, 1100-1250 m, 27 v 1994, Mutlu 496.

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

B3: Road edge at park entrance, 1200 m, 2 vi 1995, Mutlu 1416.

Bifora radians M.Bieb.

B3: Road edge at park entrance, 1200 m, 2 vi 1995, Mutlu 1385.

Smyrniium connatum Boiss. & Kotschy

B3: Between Sazlıpınar and Külbaşı Hill , 1150-1250 m, 24 vi 1994, Mutlu 781. E. Medit.

Bunium microcarpum (Boiss.) Freyn subsp. **microcarpum**

B3: Northern slopes of Kızıldağ, *Cedrus libani* forest, 1400-1500 m, 23 vi 1996, Mutlu 1720. E. Medit.

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

B3: Kızıldağ, 1600-1700 m, 25 vi 1994, Mutlu 910.

Prangos meliocarpoides Boiss. var. **meliocarpoides**

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1250-1300 m, 26 v 1994, Mutlu 413. En.-LC. Ir.-Tur.

- P. ferulacea* (L.) Lindl.
B3: Between Sazlıpınar and Külbaşı Hill , 1150-1250 m, 24 vi 1994, Mutlu 791.
- Bupleurum croceum* Fenzl
B3: Çatakbaşı Hill, edges of fields, 1150 m, 2 vi 1995, Mutlu 1557. Ir.-Tur.
- B. sulphureum* Boiss. & Bal.
B3: Between Sazlıpınar and Külbaşı Hill , 1150-1250 m, 24 vi 1994, Mutlu 758. B3: Road edge at park entrance, 1200 m, 2 vi 1995, Mutlu 1417. En.-LC. Ir.-Tur.
- Falcaria vulgaris* Bernh.
B3: Northern slopes of Kızıldağ, *Cedrus libani* forest, 1250-1300 m, 23 vii 1994, Mutlu 1045.
- Johrenia tortuosa* (Fisch. & Mey) D.F.Chamb.
B3: Western slopes of Küçükşivri Hill, 1250-1300 m, 25 vi 1994, Mutlu 948. C3: Between Kiyakdede and Göztepe Mountains, 1200-1300 m, 23 vii 1994, Mutlu 996.
- Ferula rigidula* Fisch. ex DC.
B3: Çatakbaşı Hill, edges of fields, 1150 m, 16 vii 1995, Mutlu 1591. Ir.-Tur.
- Ferulago plathycarpa* Boiss. & Bal.
B3: Kızıldağ, 1600-1700 m, 25 vi 1994, Mutlu 934. En.-LC. Ir.-Tur.
- Opopanax hispidus* (Friv.) Griseb
B3: Beşkardeşler ravine, *Cedrus libani-Juniperus excelsa* forest, 1250 m, 16 x 1994, Mutlu 1152.
- Malabaila secacul* Banks & Sol.
B3: Between forest houses and park entrance, *Cedrus libani* forest, 1100-1250 m, 27 v 1994, Mutlu 601.
- Torilis ucranica* Spreng.
B3: Beltaşı Mountain, 1250-1350 m, 25 vi 1994, Mutlu 894.
- T. leptophylla* (L.) Rchb.
B3: Between forest houses and park entrance, *Cedrus libani* forest, 1100-1250 m, 27 v 1994, Mutlu 493.
- Caucalis platycarpus* L.
B3: Northern slopes of Kızıldağ, *Cedrus libani* forest, 1250 m, 23 vii 1994, Mutlu 1042. Medit.
- Turgenia latifolia* (L.) Hoffm.
B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1150-1250 m, 26 v 1994, Mutlu 414.
- Lisaea strigosa* (Banks. & Sol.) Eig.
B3: Çatakbaşı Hill, edges of fields, 1150 m, 16 vii 1995, Mutlu 1553. Ir.-Tur.
- Daucus carota* L.
C3: Kiyakdede Mountain, edges of fields, 1100 m, 23 vii 1994, Mutlu 1004.
- CAPRIFOLIACEAE**
- Lonicera etrusca* Santi var. *etrusca*
B3: Between Sazlıpınar and Külbaşı Hill , 1150-1250 m, 24 vi 1994, Mutlu 672-738. Medit.
- RUBIACEAE**
- Crucianella bithynica* Boiss.
B3: Tencerepınarı, edges of fields, 1250 m, 3 vi 1995, Mutlu 1472. E. Medit.
- C. macrostachya* Boiss.
B3: Çatakbaşı Hill, road edge, 1150-1300 m, 16 vii 1995, Mutlu 1521. E. Medit.
- C. angustifolia* L.
B3: Northern slopes of Kızıldağ, *Cedrus libani* forest, 1400-1500 m, 23 vi 1996, Mutlu 1708. Medit.
- Asperula stricta* Boiss. subsp. *monticola* Ehrend.
B3: Çatakbaşı Hill, edges of fields, 1150 m, 16 vii 1995, Mutlu 1799. En.-LC. E. Medit. (mt.).
- A. orientalis* Boiss. & Hohen.
B3: Northern slopes of Külbaşı Hill, 1200 m, 11 v 1995, Mutlu 1330. Ir.-Tur.
- A. arvensis* L.
B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1150-1250 m, 26 v 1994, Mutlu 455. Medit.
- A. brevifolia* Vent.
B3: Bedikpınarı, 1100 m, 25 vi 1994, Mutlu 890. En.-LC. E. Medit.
- Galium verum* L. subsp. *glabrescens* Ehrend.
B3: Between Sazlıpınar and Külbaşı Hill , 1150-1250 m, 24 vi 1994, Mutlu 682. Ir.-Tur.
- G. dumosum* Boiss.
B3: Between Sazlıpınar and Külbaşı Hill, 1250-1300 m, 24 vi 1994, Mutlu 837. En.-LC.
- G. spurium* L. subsp. *spurium*
B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1150-1250 m, 26 v 1994, Mutlu 449. Ir.-Tur.
- G. tricornutum* Dandy
B3: Between Sazlıpınar and Külbaşı Hill , 1150-1250 m, 24 vi 1994, Mutlu 794. Medit.
- G. setaceum* Lam.
B3: Fakılar village, Kaya Hill, 1250 m, 3 vi 1995, Mutlu 1487.
- G. peplidifolium* Boiss.
B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1150-1250 m, 26 v 1994, Mutlu 470. E. Medit.
- G. floribundum* Sm. subsp. *floribundum*
B3: Between Sazlıpınar and Külbaşı Hill , 1150-1250 m, 24 vi 1994, Mutlu 747.
- G. verticillatum* Danthoine. ex Lam.
B3: Zeybek Hill, 1250-1300 m, 25 vi 1994, Mutlu 830. Medit.
- Cruciata taurica* (Pall. ex Willd.) Ehrend.
B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1250-1300 m, 22 iv 1994, Mutlu 293. Ir.-Tur.
- Rubia tinctorum* L.
B3: Çatakbaşı Hill, edges of fields, 1150 m, 16 vii 1995, Mutlu 1540. Ir.-Tur.
- VALERIANACEAE**
- Valeriana phu* L.
B3: Buzlukale Hill, 1250-1300 m, 23 iv 1994, Mutlu 373.
- V. dioscoridis* Sm.
B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1250-1300 m, 22 iv 1994, Mutlu 270. E. Medit.
- Valerianella carinata* Loisel
B3: Northern slopes of Kırmızı Hill, 1200 m, 25 iii 1994, Mutlu 221.
- V. coronata* (L.) DC.
B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1150-1250 m, 26 v 1994, Mutlu 452.

V. vesicaria (L.) Moench

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1150-1250 m, 26 v 1994, Mutlu 451.

MORINACEAE

Morina persica L.

B3: Northern slopes of Zeybek Hill, edges of fields, 1150 m, 7 x 1995, Mutlu 1621. Ir.-Tur.

DIPSACACEAE

Dipsacus fullonum L.

C3: Kiyakdede Mountain, edges of fields, 1100 m, 23 vii 1994, Mutlu 1005.

Cephalaria transsylvanica (L.) Schrad.

B3: Çatakbaşı Hill, edges of fields, 1150 m, 16 vii 1995, Mutlu 1549.

C. syriaca (L.) Schrad.

B3: Çatakbaşı Hill, edges of fields, 1150 m, 16 vii 1995, Mutlu 1540.

Scabiosa argentea L.

B3: Between Sazlıpınar and Külbaşı Hill , 1150-1250 m, 24 vi 1994, Mutlu 689.

S. rotata M.Bieb.

B3: Between Sazlıpınar and Külbaşı Hill , edges of fields, 1250 m, 24 vi 1994, Mutlu 683. Ir.-Tur.

Pteroccephalus plumosus (L.) Coult.

B3: Fakılar village, Kaya Hill, edges of fields, 1250 m, 3 vi 1995, Mutlu 1491.

ASTERACEAE

Helianthus annuus L.

B3: Çatakbaşı Hill, edges of fields, 1150 m, 16 vii 1995, Mutlu 1536. (Culture).

Xanthium spinosum L.

B3: Northern slopes of Zeybek Hill, edges of water canal, 1150-1300 m, 7 x 1995, Mutlu 1635.

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

B3: Northern slopes of Zeybek Hill, 1150-1300 m, 7 x 1995, Mutlu 1628.

Inula montbertiana DC.

B3: Kızıldağ, 1600-1700 m, 25 vi 1994, Mutlu 903. Ir.-Tur.

I. heterolepis Boiss.

C3: Kiyakdede Mountain, edges of fields, 1100 m, 23 vii 1994, Mutlu 973. E. Medit.

Pulicaria dysenterica (L.) Bernh.

B3: Northern slopes of Zeybek Hill, 1150-1300 m, 7 x 1995, Mutlu 1619.

Helichrysum arenarium (L.) Moench subsp. *aucherii* (Boiss.) P.H.Davis & Kupicha

B3: Between forest houses and park entrance, *Cedrus libani* forest, 1100-1250 m, 27 v 1994, Mutlu 577. En.-LC. Ir.-Tur.

Logfia arvensis (L.) Holub

B3: Kızıldağ, 1600-1700 m, 25 vi 1994, Mutlu 916.

Bombycilaena erecta (L.) Smoljan.

B3: Northern slopes of Külbaşı Hill, 1500-1600 m, 3 vi 1995, Mutlu 1507.

Aster laevis L.

B3: Road edge at park entrance, 1100-1250 m, 7 ix 1996, Mutlu 1750. (Culture).

Bellis perennis L.

C3: Göztepe Mountain, meadow, 1200 m, 23 iv 1995, Mutlu 1290. B3: Northern slopes of Kiyakdede Mountain, meadow, 1150 m, 11 v 1995, Mutlu 1305. Euro.-Sib.

Senecio mollis Willd.

B3: Northern slopes of Kızıldağ, 1250 m, 23 vii 1994, Mutlu 1046. Ir.-Tur.

S. vernalis Waldst. & Kit.

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1150-1250 m, 26 v 1994, Mutlu 285-437. C3: Between Kiyakdede and Göztepe Mountains, edges of fields, 1200 m, 11 v 1995, Mutlu 509.

Anthemis cretica L. subsp. *albida* (Boiss.) Grierson

B3: Between Sazlıpınar and Külbaşı Hill , 1150-1250 m, 24 vi 1994, Mutlu 678-783.

Anthemis cotula L.

B3: Northern slopes of Zeybek Hill, 1150-1300 m, 7 x 1995, Mutlu 1630.

A. tinctoria L.

var. *tinctoria*

B3: Kızıldağ, 1600-1700 m, 25 vi 1994, Mutlu 914.

var. *discoidea* (All.) DC.

B3: Road edge at park entrance, 1300 m, 2 vi 1995, Mutlu 1442.

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

B3: Road edge at park entrance, 1200 m, 2 vi 1995, Mutlu 1377-1435.

A. wiedemanniana Fisch. & Mey.

B3: Between forest houses and park entrance, *Cedrus libani* forest, 1100-1250 m, 27 v 1994, Mutlu 526. En.-LC.

Leucocyclus formosus Boiss. subsp. *formosus*

B3: Northern slopes of Külbaşı Hill, 1600 m, 3 vi 1995, Mutlu 1515. En.-NT. E. Medit.

Achillea wilhelmsii K.Koch

B3: Between Sazlıpınar and Külbaşı Hill , 1150-1250 m, 24 vi 1994, Mutlu 651. Ir.-Tur.

A. nobilis L. subsp. *neilreichii* (Jos.Kern.) Formánek

B3: Eastern slope of Küçüksivri Hill, 1250-1300 m, 25 vi 1994, Mutlu 849. Euro.-Sib.

A. coarctata Poir.

B3: Kızıldağ, 1600-1700 m, 25 vi 1994, Mutlu 915.

A. Biebersteinii Afan.

B3: Between Sazlıpınar and Külbaşı Hill , 1150-1250 m, 24 vi 1994, Mutlu 662. Ir.-Tur.

Tanacetum cadmeum (Boiss.) Heywood subsp. *cadmeum*

B3: Between Sazlıpınar and Külbaşı Hill , 1150-1250 m, 24 vi 1994, Mutlu 656. B3: Çatakbaşı Hill, 1150-1300 m, 16 vii 1995, Mutlu 1595. En.- LC.

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

B3: Çatakbaşı Hill, 1150-1300 m, 16 vii 1995, Mutlu 1590. En.- LC. Ir.-Tur.

Matricaria chamomilla L. var. *chamomilla*

B3: Park entrance, 1200 m, 2 vi 1995, Mutlu 1802.

Tripleurospermum callosum (Boiss. & Heldr.) E.Hossain

B3: Between forest houses and park entrance, *Cedrus libani* forest, 1100-1250 m, 27 v 1994, Mutlu 548. En.-LC.

Cousinia iconica Hub.-Mor.

C3: Kiyakdede Mountain, 1100 m, 23 vii 1994, Mutlu 972. En.-NT. Ir.-Tur.

Arctium minus (Hill) Bernh. subsp. *pubens* (Bab.) Arènes

B3: Çatakbaşı Hill, edges of gardens, 1150 m, 8 ix 1996, Mutlu 1783. Euro.-Sib.

Onopordum bracteatum Boiss. & Heldr.

var. *bracteatum*

C3: Between Kiyakdede and Göztepe Mountains, 1200-1300 m, 23 vii 1994, Mutlu 998. E. Medit.

var. *arachnoideum* Erik & Sümbül.

C3: Between Kiyakdede and Göztepe Mountains, 1200-1300 m, 23 vii 1994, Mutlu 995. En.-EN. E. Medit.

Cirsium sintenisii Freyn

C3: Between Kiyakdede and Göztepe Mountains, 1200-1300 m, 23 vii 1994, Mutlu 989. En.-NT.

C. cassium P.H.Davis & Parris

B3: Kızıldağ, road edge, 1400 m, 7 ix 1996, Mutlu 1777. En.-EN. E. Medit.

C. vulgare (Savi) Ten.

B3: Çatakbaşı Hill, edges of gardens, 1150-1300 m, 8 ix 1996, Mutlu 1784.

C. canum (L.) All.

B3: Çatakbaşı Hill, 1150 m, 8 ix 1996, Mutlu 1590. Euro.-Sib.

C. arvense (L.) Scop. subsp. *vestitum* (Wimm. & Grab.) Petr.

B3: Between Sazlıpınar and Külbaşı Hill, 1150-1250 m, 24 vi 1994, Mutlu 752.

C. dirmilense R.M.Burton

B3: Northern slopes of Kızıldağ, 1250-1300 m, 7 ix 1996, Mutlu 1777. En.-NT.

Picnomon acarna (L.) Cass.

B3: Northern slopes of Küçükşivri Hill, *Cedrus libani* forest, 1250-1300 m, 16 x 1994, Mutlu 1154. C3: Between Kiyakdede and Göztepe Mountains, 1200-1300 m, 23 vii 1994, Mutlu 998. Medit.

Carduus nutans L. subsp. *nutans*

B3: Between forest houses and park entrance, *Cedrus libani* forest, 1100-1250 m, 27 v 1994, Mutlu 539.

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

B3: Between forest houses and park entrance, *Cedrus libani* forest, 1100-1250 m, 27 v 1994, Mutlu 568.

Jurinea consanguinea DC.

B3: Northern slopes of Kızıldağ, *Cedrus libani* forest, 1300 m, 24 vii 1994, Mutlu 1070.

Acroptilon repens (L.) DC.

B3: Between Sazlıpınar and Külbaşı Hill, 1150-1250 m, 24 vi 1994, Mutlu 704. C3: Kiyakdede Mountain, edges of fields, 1100 m, 23 vii 1994, Mutlu 1003. Ir.-Tur.

Centaurea cariensis Boiss. subsp. *longipapposa* Wagenitz

B3: Between Sazlıpınar and Külbaşı Hill, 1150-1250 m, 24 vi 1994, Mutlu 642-697. En.-LC. E. Medit.

C. anthemifolia Hub.-Mor.

B3: Beltaşı Mountain, 1150-1250 m, 25 vi 1994, Mutlu 900. En.-EN.

C. drabifolia Sm. subsp. *detonsa* (Bornm.) Wagenitz

B3: Eastern slope of Küçükşivri Hill, 1250-1300 m, 25 vi 1994, Mutlu 846.

C. solstitialis L. subsp. *solstitialis*

B3: Beşkardeşler ravine, 1250-1300 m, 25 vi 1994, Mutlu 856.

C. iberica Trevir. ex Spreng.

C3: Kiyakdede Mountain, edges of fields, 1100 m, 23 vii 1994, Mutlu 1009. B3: Çatakbaşı Hill, edges of fields, 1100 m, 23 vii 1994, Mutlu 1556.

C. urvillei DC. subsp. *stepposa* Wagenitz

B3: Between forest houses and park entrance, *Cedrus libani* forest, 1100-1250 m, 27 v 1994, Mutlu 567. Ir.-Tur.

C. pichleri Boiss. subsp. *pichleri*

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1250-1300 m, 22 iv 1994, Mutlu 277.

C. triumfettii All.

B3: Between Sazlıpınar and Külbaşı Hill, 1150-1250 m, 24 vi 1994, Mutlu 658.

C. depressa M.Bieb.

B3: Between Sazlıpınar and Külbaşı Hill, 1150-1250 m, 24 vi 1994, Mutlu 652. C3: Kiyakdede Mountain, edges of fields, 1100 m, 23 vii 1994, Mutlu 962-1016.

Crupina crupinastrum (Moris) Vis.

B3: Road edge at park entrance, 1300 m, 2 vi 1995, Mutlu 1443.

Cnicus benedictus L. var. *benedictus*

B3: Road edge at park entrance, 1200 m, 2 vi 1995, Mutlu 1370.

Carlina oligocephala Boiss. & Kotschy subsp. *oligocephala*

C3: Between Kiyakdede and Göztepe Mountains, 1200-1300 m, 23 vii 1994, Mutlu 999.

Xeranthemum annuum L.

B3: Between Sazlıpınar and Külbaşı Hill, 1150-1250 m, 24 vi 1994, Mutlu 770. C3: Kiyakdede Mountain, 1100 m, 23 vii 1994, Mutlu 1011.

X. longipapposum Fisch. & Mey.

B3: Between Sazlıpınar and Külbaşı Hill, 1150-1250 m, 24 vi 1994, Mutlu 725. C3: Eastern slopes of Kiyakdede Mountain, 1150 m, 11 v 1995, Mutlu 1316. Ir.-Tur.

Echinops viscosus DC. subsp. *bithynicus* (Boiss.) Rech.f.

C3: Between Kiyakdede and Göztepe Mountains, edges of fields, 1200-1300 m, 23 vii 1994, Mutlu 986.

Cichorium intybus L.

B3: Çatakbaşı Hill, edges of fields, 1150-1300 m, 16 x 1994, Mutlu 1120.

Scorzonera cana (C.A.Mey.) Hoffm. var. *jacquiniana* (W.Koch) D.F.Chamb.

B3: Northern slopes of Küçükşivri Hill, *Cedrus libani* forest, 1250-1300 m, 25 iv 1994, Mutlu 867.

S. suberosa K. Koch. subsp. *cariensis* (Boiss.) D.F.Chamb.

B3: Western slopes of Küçükşivri Hill, *Cedrus libani* forest, 1250-1300 m, 26 iii 1994, Mutlu 249. En.-LC. Ir.-Tur.

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

B3: Northern slopes of Küçükşivri Hill, *Cedrus libani* forest, 1300 m, 3 iv 1994, Mutlu 334. Ir.-Tur.

S. semicana DC.

B3: Kızıldağ, *Cedrus libani* forest, 1600-1700 m, 3 vi 1995, Mutlu 1460. En.-LC. Ir.-Tur.

- S. eriophora* DC.
B3: Northern slopes of Külbaşı Hill, 1200 m, 3 vi 1995, Mutlu 1512. En.-LC.
- S. pseudolanata* Grossh.
C3: Eastern slopes of Kiyakdede Mountain, edges of fields, 1150 m, 16 x 1994, Mutlu 1325. Ir.-Tur.
- Tragopogon longirostris* Bisch. ex Sch. Bip. var. *abbreviatus* Boiss.
B3: Between forest houses and park entrance, *Cedrus libani* forest, 1100-1250 m, 27 v 1994, Mutlu 506b.
- T. latifolius* Boiss. var. *angustifolius* Boiss.
C3: Kiyakdede Mountain, edges of fields, 1100 m, 23 vii 1994, Mutlu 1008. B3: Road edge at park entrance, 1200 m, 2 vi 1995, Mutlu 1380. Ir.-Tur.
- T. buphthalmoides* (DC.) Boiss. var. *buphthalmoides*
B3: Between forest houses and park entrance, *Cedrus libani* forest, 1100-1250 m, 27 v 1994, Mutlu 510. Ir.-Tur.
- Leontodon asperrimus* (Willd.) Ballet.
B3: Zeybek Hill, 1250-1300 m, 25 vi 1994, Mutlu 829. Ir.-Tur.
- L. crispus* Vill. subsp. *asper* (Waldst. & Kit.) Rohl. var. *asper*
B3: Between forest houses and park entrance, *Cedrus libani* forest, 1100-1250 m, 27 v 1994, Mutlu 509.
- Picris hieracioides* L.
B3: Kiyakdede Mountain, edges of fields, 1100 m, 23 vii 1994, Mutlu 1007. Euro.-Sib.
- P. strigosa* M.Bieb.
C3: Between Kiyakdede and Göztepe Mountains, edges of fields, 1200-1300 m, 23 vii 1994, Mutlu 987-1001. Ir.-Tur.
- Rhagadiolus angulosus* (Jaub. & Spach) Kupicha
C3: Eastern slopes of Kiyakdede Mountain, 1150 m, 11 v 1995, Mutlu 1317. Ir.-Tur.
- Sonchus asper* (L.) Hill subsp. *glaucescens* (Jord.) Ball
B3: Road edge at park entrance, 1200 m, 2 vi 1995, Mutlu 1414.
- Hieracium pannosum* Boiss.
B3: Between Sazlıpınar and Külbaşı Hill, 1150-1250 m, 24 vi 1994, Mutlu 677. C3: Akçeşme, slope of water canal, edges of fields, 1500 m, 16 x 1994, Mutlu 1040. E. Medit. (mt.).
- Pilosella hoppeana* (Sch.Bip.) SchultzSch. & F.W.Schultz
subsp. *troica* (Zahn) P.D.Sell & C.West
B3: Beşkardeşler ravine, *Cedrus libani* forest, 1250-1300 m, 25 vi 1994, Mutlu 850.
subsp. *cilicica* (NP) P.D.Sell & C.West
B3: Northern slopes of Kızıldağ, *Cedrus libani* forest, 1400-1500 m, 23 vi 1996, Mutlu 1714.
- P. piloselloides* (Vill.) Soják. subsp. *megalomatrix* (Naeg. & Peter) P.D.Sell & C.West
B3: Northern slopes of Kızıldağ, *Cedrus libani* forest, 1300-1500 m, 3 vi 1995, Mutlu 1466.
- P. cymosa* (L.) SchultzSch. & F.W.Schultz
B3: Northern slopes of Küçüksivri Hill, *Cedrus libani* forest, 1250 m, 25 vi 1994, Mutlu 810. Euro.-Sib.
- Cephalorrhynchus tuberosus* (Stev.) Schchian
B3: Between forest houses and park entrance, *Cedrus libani* forest, 1100-1250 m, 27 v 1994, Mutlu 583.
- Lactuca serriola* L.
B3: Çatakbaşı Hill, edges of gardens, 1150-1300 m, 16 vii 1995, Mutlu 1584. C3: Kiyakdede Mountain, edges of fields, 1100 m, 23 vii 1994, Mutlu 1012. Euro.-Sib.
- L. sativa* L.
B3: Northern slopes of Zeybek Hill, edges of fields, 1150-1300 m, 7 x 1995, Mutlu 1618. (Culture).
- Scariola viminea* (L.) F.W.Schmidt
C3: Between Kiyakdede and Göztepe Mountains, 1200-1300 m, 23 vii 1994, Mutlu 993.
- Taraxacum serotinum* (Waldst. & Kit.) Poir.
B3: Çatakbaşı Hill, edges of fields, 1150-1300 m, 16 x 1994, Mutlu 1128.
- T. buttleri* Soest
B3: Yörük graveyard, edges of fields, 900-1000 m, 25 iii 1994, Mutlu 247.
- T. turcicum* Soest
B3: Between forest houses and park entrance, *Cedrus libani* forest, 1150-1250 m, 23 iv 1994, Mutlu 307. En.-LC.
- Chondrilla juncea* L. var. *juncea*
B3: Northern slopes of Kızıldağ, *Cedrus libani* forest, 1300 m, 24 vii 1994, Mutlu 1073.
- Crepis macropus* Boiss. & Heldr.
B3: Between Sazlıpınar and Külbaşı Hill, 1150-1250 m, 24 vi 1994, Mutlu 665-693. En.-LC. Ir.-Tur.
- C. pulchra* L. subsp. *pulchra*
B3: Northern slopes of Külbaşı Hill, 1250-1300 m, 25 vi 1994, Mutlu 859.
- C. foetida* L. subsp. *rhoeadifolia* (M. Bieb.) Çelak.
B3: Northern slopes of Kızıldağ, *Cedrus libani* forest, 1300 m, 25 vi 1994, Mutlu 808.
- C. sancta* (L.) Babç.
B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1150-1250 m, 26 v 1994, Mutlu 469.
- C. setosa* Hallier f.
B3: Between Sazlıpınar and Külbaşı Hill, 1150-1250 m, 24 vi 1994, Mutlu 691. Euro.-Sib.

CAMPANULACEAE

- Campanula involucrata* Aucher ex A. DC.
B3: Northern slopes of Külbaşı Hill, 1500-1600 m, 3 vi 1995, Mutlu 1504. Ir.-Tur.
- C. argaea* Boiss. & Bal.
B3: Northern slopes of Küçüksivri Hill, *Cedrus libani* forest, 1250 m, 25 vi 1994, Mutlu 1160. En.-LC. Ir.-Tur.
- C. stricta* L. var. *stricta*
B3: Kızıldağ, 1600-1700 m, 25 vi 1994, Mutlu 932. Ir.-Tur.
- Asyneuma linifolium* (Boiss. & Heldr.) Bornm. subsp. *linifolium*
B3: Zeybek Hill, 1250-1300 m, 25 vi 1994, Mutlu 836. En.-LC. E. Medit. (mt).

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

B3: Kızıldağ, 1600-1700 m, 25 vi 1994, Mutlu 909. En.-LC.

A. virgatum (Labill.) Bornm. *cichoriiforme* (Boiss.) Damboldt

B3: Zeybek Hill, 1250-1300 m, 25 vi 1994, Mutlu 831. En.-LC. E. Medit.

Legousia falcata (Ten.) Fritsch

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1150-1250 m, 26 v 1994, Mutlu 466. Medit.

L. pentagonia (L.) Thell.

B3: Between forest houses and park entrance, *Cedrus libani* forest, 1100-1250 m, 27 v 1994, Mutlu 521. E. Medit.

PRIMULACEAE

Androsace maxima L.

B3: Beltaşı Mountain, 900-1000 m, 25 iii 1994, Mutlu 233.

Lysimachia atropurpurea L.

B3: Road edge at park entrance, 1100 m, 25 vi 1994, Mutlu 956. E. Medit.

Anagallis arvensis L. var. *caerulea* (L.) Gouan

B3: Çatakbaşı Hill, edges of fields, 1150 m, 16 vii 1995, Mutlu 1553.

A. foemina Mill.

C3: Akçeşme, slope of water canal, edges of fields, 1150 m, 16 x 1994, Mutlu 1150. Medit.

OLEACEAE

Jasminum fruticans L.

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1150-1250 m, 26 v 1994, Mutlu 430. Medit.

Fraxinus angustifolia Vahl subsp. *angustifolia*

B3: Between forest houses and park entrance, *Cedrus libani* forest, 1150-1250 m, 23 iv 1994, Mutlu 321. Euro.-Sib.

APOCYNACEAE

Vinca herbacea Waldst. & Kit.

B3: Western slopes of Küçüksivri Hill, *Cedrus libani* forest, 1500-1550 m, 23 iv 1994, Mutlu 348.

ASCLEPIDACEAE

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

B3: Northern slopes of Küçüksivri Hill, *Cedrus libani* forest, 1250-1300 m, 25 vi 1994, Mutlu 819. Ir.-Tur.

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

B3: Kuzgun Hill, 1350 m, 24 vii 1994, Mutlu 1083.

GENTIANACEAE

Centaurium tenuiflorum (Hoffmanns. & Link) Fritsch ex E.Jansen subsp. *tenuiflorum*

B3: Ulusazlıpınar, edges of fields, 1000-1100 m, 25 vi 1994, Mutlu 884.

CONVOLVULACEAE

Convolvulus lineatus L.

B3: Between forest houses and park entrance, *Cedrus libani* forest, 1100-1250 m, 27 v 1994, Mutlu 494.

C. compactus Boiss.

B3: Between forest houses and park entrance, *Cedrus libani* forest, 1100-1250 m, 27 v 1994, Mutlu 503.

C. arvensis L.

B3: Between Sazlıpınar and Külbaşı Hill, 1150 m, 22 iv 1994, Mutlu 661. C3: Dörsöğütler, edges of gardens, 1150 m, 16 x 1994, Mutlu 1174.

C. galaticus Rostan ex Choisy

B3: Road edge at park entrance, 1200 m, 2 vi 1995, Mutlu 1406. En.-LC. Ir.-Tur.

C. betonicifolius Mill. subsp. *betonicifolius*

B3: Çatakbaşı Hill, edges of fields, 1150 m, 16 vii 1995, Mutlu 1581.

CUSCUTACEAE

Cuscuta palaestina Boiss. subsp. *balansae* (Boiss. & Reuter ex Yuncker) Plitmann

B3: Kızıldağ, on *Campanula*, 1700 m, 25 vi 1994, Mutlu 935.

BORAGINACEAE

Heliotropium europaeum L.

B3: Kiyakdede Mountain, edges of fields, 1150 m, 11 v 1995, Mutlu 981. Medit.

Rochelia disperma (L.f.) K.Koch var. *disperma*

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1150-1250 m, 26 v 1994, Mutlu 290.

Asperugo procumbens L.

B3: Kiyakdede Mountain, edges of fields, 1150 m, 11 v 1995, Mutlu 1302. Euro.-Sib.

Myosotis ramosissima Rochel ex Schult. subsp. *ramosissima*

B3: Çatak Mountain, 1150-1300 m, 22 iv 1995, Mutlu 1248.

M. stricta Link ex Roem. & Schult.

B3: Between forest houses and park entrance, *Cedrus libani* forest, 1100-1250 m, 27 v 1994, Mutlu 492. Euro.-Sib.

M. refracta Boiss. subsp. *refracta*

B3: Buzlukale Hill, 1250-1300 m, 23 iv 1994, Mutlu 368. Medit.

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

B3: Northern slopes of Külbaşı Hill, 1200 m, 11 v 1995, Mutlu 1349.

M. lithospermifolia (Willd.) Hornem.

B3: Between forest houses and park entrance, *Cedrus libani* forest, 1100-1250 m, 27 v 1994, Mutlu 581.

M. sicula Guss.

B3: Northern slopes of Külbaşı Hill, 1200 m, 3 vi 1995, Mutlu 1510.

Cynoglossum creticum Mill.

C3: Dörsöğütler, edges of gardens, 1150 m, 16 x 1994, Mutlu 1176.

C. montanum L.

B3: Northern slopes of Kızıldağ, *Cedrus libani* forest, 1400-1500 m, 23 vi 1996, Mutlu 1717. Euro.-Sib.

Buglossoides arvensis (L.) I.M.Johnst.

B3: Northern slopes of Küçüksivri Hill, 1250-1300 m, 24 iii 1994, Mutlu 204. C3: Beltaşı Mountain, *Quercus coccifera-Juniperus excelsa* forest, 1300-1400 m, 25 iii 1994, Mutlu 234-239.

B. incrassata (Guss.) I.M.Johnst.

B3: Northern slopes of Küçüksivri Hill, *Cedrus libani* forest, 1250 m, 25 vi 1994, Mutlu 805. Medit.

Echium italicum L.

B3: Between forest houses and park

entrance, *Cedrus libani* forest, 1100-1250 m, 27 v 1994, Mutlu 537. *Medit.*

Moltkia aurea Boiss.

C3: Kiyakdede Mountain, 1150 m, 11 v 1995, Mutlu 1311. En.-LC. Ir.-Tur.

Onosma cappadocicum Siehe ex Riedl

B3: Between forest houses and park entrance, *Cedrus libani* forest, 1100-1250 m, 27 v 1994, Mutlu 540. En.-NT. E. *Medit.* (mt.).

O. bracteosum Hausskn. & Bornm.

B3: Park entrance, 1300 m, 2 vi 1995, Mutlu 1446. En.-LC. Ir.-Tur.

O. aucheranum DC.

B3: Northern slopes of Küçüksivri Hill, *Cedrus libani* forest, 1250-1300 m, 25 vi 1994, Mutlu 866. E. *Medit.*

Cerintho minor L. subsp. *auriculata* (Ten.) Domac

B3: Between forest houses and park entrance, *Cedrus libani* forest, 1100-1250 m, 27 v 1994, Mutlu 528.

Anchusa undulata L. subsp. *hybrida* (Ten.) Cout.

B3: Ulusazlıpınar, edges of fields, 1000-1100 m, 23 iv 1994, Mutlu 358. C3: Akçeşme, slope of water canal, edges of fields, 1150 m, 23 vii 1994, Mutlu 1027. *Medit.*

A. azurea Mill. var. *azurea*

B3: Çatakbaşı Hill, edges of fields, 1150 m, 16 vii 1995, Mutlu 1554.

A. pusilla Guşul.

C3: Kiyakdede Mountain, 1150 m, 11 v 1995, Mutlu 1308.

Alkanna incana Boiss.

B3: Between forest houses and park entrance, *Cedrus libani* forest, 1100-1250 m, 27 v 1994, Mutlu 587. En.-NT. E. *Medit.*

A. areolata Boiss. var. *areolata*

B3: Alaardıç Hill, 1200-1300 m, 3 iii 1995, Mutlu 1196. C3: Beltaşı Mountain, *Cedrus libani-Juniperus excelsa* forest, 1300-1400 m, 25 iii 1994, Mutlu 236. En.-LC. E. *Medit.*

SOLANACEAE

Solanum nigrum L. subsp. *schultesii* (Opiz) Wessely

C3: Lake Beyşehir shore, 1000 m, 23 vii 1994, Mutlu 1022. B3: Çatakbaşı Hill, edges of fields, 1150 m, 16 vii 1995, Mutlu 1546.

S. dulcamara L.

B3: Northern slopes of Kızıldağ, *Cedrus libani* forest, 1400-1500 m, 23 vi 1996, Mutlu 1072. Euro.-Sib.

Lycopersicon esculentum Mill.

B3: Çatakbaşı Hill, edges of fields, 1150 m, 16 vii 1995, Mutlu 1546. (Culture)

Datura stramonium L.

C3: Akçeşme, slope of water canal, edges of fields, 1150 m, 16 x 1994, Mutlu 1026.

Hyoscyamus niger L.

B3: Northern slopes of Kızıldağ, *Cedrus libani* forest, 1300 m, 24 vii 1994, Mutlu 1072. C3: Eastern slopes of Kiyakdede Mountain, edges of fields, 1150 m, 11 v 1995, Mutlu 1334.

SCROPHULARIACEAE

Verbascum flavidum (Boiss.) Freyn & Bornm.

B3: Northern slopes of Kızıldağ, *Cedrus libani* forest, 1400-1500 m, 23 vi 1996, Mutlu 1704. Euro.-Sib.

V. adenophorum Boiss. & Bal.

B3: Kızıldağ, 1600-1700 m, 25 vi 1994, Mutlu 917. En.-NT. E. *Medit.*

V. pycnostachyum Boiss. & Heldr.

B3: Kuzgun Hill, 1350 m, 24 vii 1994, Mutlu 1090. En.-LC. E. *Medit.*

V. glomeratum Boiss.

B3: Kuzgun Hill, 1350 m, 24 vii 1994, Mutlu 1088. Ir.-Tur.

V. symes Murb. & Rech.f.

B3: Road edge at park entrance, 1100-1250 m, 7 ix 1996, Mutlu 1753. En.-VU. E. *Medit.*

V. lasianthum Boiss. ex Benth.

B3: Çatakbaşı Hill, 1150-1300 m, 16 x 1994, Mutlu 1123.

V. insulare Boiss. & Heldr.

B3: Tencerepınarı, edges of fields, 1250 m, 3 vi 1995, Mutlu 1478. En.-LC. Ir.-Tur.

V. leptocladum Boiss. & Heldr.

B3: Kuzgun Hill, 1350 m, 24 vii 1994, Mutlu 1089. En.-EN. E. *Medit.*

V. cheiranthifolium Boiss. var. *cheiranthifolium*

B3: Between Sazlıpınar and Külbaşı Hill, 1150-1250 m, 24 vi 1994, Mutlu 698.

Scrophularia cryptophila Boiss. & Heldr.

B3: Kuzgun Hill, 1350 m, 24 vii 1994, Mutlu 1087. En.-LC. E. *Medit.*

S. catariifolia Boiss. & Heldr.

B3: Zeybek Hill, rocky crevices, 1250-1300 m, 25 vi 1994, Mutlu 835. Ir.-Tur.

S. xanthoglossa Boiss. var. *decipiens* (Boiss. & Kotschy) Boiss.

B3: Eastern slopes of Kiyakdede Mountain, 1150 m, 11 v 1995, Mutlu 1332. Ir.-Tur.

S. canina L. subsp. *bicolor* (Sibth. & Sm.) Greuter

B3: Fakılar village, Kaya Hill, edges of fields, 1250 m, 3 vi 1995, Mutlu 1489. E. *Medit.*

Misopates orontium (L.) Raf.

B3: Çatakbaşı Hill, edges of fields, 1150 m, 16 vii 1995, Mutlu 1526.

Linaria genistifolia (L.) Mill. subsp. *confertiflora* (Boiss.) P.H.Davis

B3: Between forest houses and park entrance, *Cedrus libani* forest, 1100 m, 26 v 1994, Mutlu 412. C3: Kiyakdede Mountain, edges of fields, 1100 m, 23 vii 1994, Mutlu 1010. En.-LC. Ir.-Tur.

L. corifolia Desf.

B3: Between Sazlıpınar and Külbaşı Hill, 1150-1250 m, 24 vi 1994, Mutlu 748. En.-LC. Ir.-Tur.

L. simplex (Willd.) DC.

B3: Between forest houses and park entrance, *Cedrus libani* forest, 1100-1250 m, 26 v 1994, Mutlu 557. *Medit.*

Kickxia elatine (L.) Dumort. subsp. *crinita* (Mabille) Greuter

B3: Çatakbaşı Hill, edges of gardens, 1150 m, 8 ix 1996, Mutlu 1789. *Medit.*

Veronica bozakmani M.A.Fisch.

C3: Eastern slopes of Kiyakdede Mountain, edges of fields, 1150 m, 11 v 1995, Mutlu 1299. Ir.-Tur.

V. praecox All.

B3: Western slopes of Zeybek Hill, 1200 m, 25 iii 1994, Mutlu 224.

V. triphyllus L.

B3: Between forest houses and water pump, *Cedrus libani* forest, 1150-1250 m, 23 iv 1994, Mutlu 318.

V. campylopoda Boiss.

B3: Çatak Mountain, 1150-1300 m, 22 iv 1995, Mutlu 1222.

V. hederifolia L.

B3: Between forest houses and water pump, *Cedrus libani* forest, 1150-1250 m, 23 iv 1994, Mutlu 305.

V. anagallis-aquatica L.

B3: Road edge at park entrance, 1200 m, 2 vi 1995, Mutlu 1391.

V. scardia Griseb.

B3: Ulusazlıpınar, edges of fields, 1000-1100 m, 25 vi 1994, Mutlu 880.

V. anagalloides Guss.

B3: Lake Beyşehir shore, grass, 1000 m, 23 vii 1994, Mutlu 1018.

V. macrostachya Vahl subsp. *macrostachya*

B3: Between Sazlıpınar and Külbaşı Hill , 1150-1250 m, 24 vi 1994, Mutlu 1118. E. Medit.

V. cuneifolia D.Don subsp. *cuneifolia*

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1250-1300 m, 22 iv 1994, Mutlu 292. En.-LC. E. Medit. (mt.).

V. orientalis Mill. subsp. *orientalis*

B3: Beşkardeşler ravine, *Cedrus libani* forest, 1250-1300 m, 16 x 1994, Mutlu 1165.

V. multifida L.

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1250-1300 m, 22 iv 1994, Mutlu 294. En.-LC. Ir.-Tur.

Odontites aucheri Boiss.

B3: Kızıldağ, 1600-1700 m, 25 vi 1994, Mutlu 924. Ir.-Tur.

O. verna (Bellardi) Dumort. subsp. *serotina* (Dumort.) Corb.

B3: Road edge at park entrance, 1100-1250 m, 7 ix 1996, Mutlu 1751. Euro.-Sib.

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

C3: Eastern slopes of Kiyakdede Mountain, edges of fields, 1150 m, 11 v 1995, Mutlu 1324. Medit.

Pedicularis comosa L. var. *sibthorpii* (Boiss.) Boiss.

B3: Between Sazlıpınar and Külbaşı Hill , 1150-1250 m, 24 vi 1994, Mutlu 716.

OROBANCHACEAE

Orobanche caucasica Beck

B3: Fakılar village, Kaya Hill, on *Lamiaceae*, 1250 m, 3 vi 1995, Mutlu 1493.

O. minor Sm.

B3: Külbaşı Hill, on *Asteraceae*, 1200 m, 3 vi 1995, Mutlu 1501.

O. caryophyllacea Sm.

B3: Northern slopes of Kırmızı Hill, on *Thymus*, 1200 m, 25 iii 1994, Mutlu 219.

ACANTHACEAE

Acanthus hirsutus Boiss.

B3: Road edge at park entrance, 1200 m, 2 vi 1995, Mutlu 1427. En.-LC.

GLOBULARIACEAE

Globularia orientalis L.

B3: Between Sazlıpınar and Külbaşı Hill , *Quercus coccifera-Cistus laurifolius*, 1150-1250 m, 24 vi 1994, Mutlu 668. Ir.-Tur.

G. trichosantha Fisch. & Mey.

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1250-1300 m, 22 iv 1994, Mutlu 287.

VERBENACEAE

Verbena officinalis L.

B3: Western slopes of Zeybek Hill, 1150-1300 m, 7 x 1995, Mutlu 1620.

LAMIACEAE

Ajuga chamaepitys (L.) Schreb.

subsp. *chia* (Schreb.) Arcang. var. *chia*

B3: Road edge at park entrance, 1200 m, 2 vi 1995, Mutlu 1415.

subsp. *mesogitana* (Boiss.) Bornm.

B3: Buzlukale Hill, 1250 m, 23 iv 1994, Mutlu 352. C3: Beltaşı Mountain, *Quercus coccifera-Juniperus excelsa* forest, 1300-1400 m, 25 iii 1994, Mutlu 237. E. Medit. (mt.).

Teucrium chamaedrys L. subsp. *chamaedrys*

B3: Northern slopes of Kızıldağ, *Cedrus libani* forest, 1300 m, 24 vii 1994, Mutlu 1061. Euro-Sib.

T. polium L.

B3: Çatakbaşı Hill, 1150-1300 m, 16 vii 1995, Mutlu 1597.

Scutellaria galericulata L.

B3: Northern slopes of Kızıldağ, *Cedrus libani* forest, 1300 m, 24 vii 1999, H.Şağban 2831.

S. salviifolia Benth.

B3: Park entrance, edges of fields, 1200 m, 2 vi 1995, Mutlu 1450. En.-LC.

Phlomis pungens Willd. var. *hirta* Valen.

B3: Between Sazlıpınar and Külbaşı Hill , 1150-1250 m, 24 vi 1994, Mutlu 712.

P. armeniaca Willd.

B3: Kızıldağ, 1600-1700 m, 25 vi 1994, Mutlu 926. En.-LC. Ir.-Tur.

Lamium pisidicum R.R.Mill

B3: Between forest houses and park entrance, *Cedrus libani-Quercus coccifera* forest, 1300 m, 27 v 1994, Mutlu 599. En.-NT. E. Medit. (mt.).

L. garganicum L. subsp. *reniforme* (Montbret & Aucher ex Benth.) R.R.Mill

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1250-1300 m, 22 iv 1994, Mutlu 280.

L. amplexicaule L.

B3: Southern slopes of Arpaderesi Hill, 1100-1250 m, 25 iii 1994, Mutlu 229. C3: Beltaşı Mountain, *Cedrus libani-Juniperus excelsa* forest, 1300-1400 m, 26 iii 1994, Mutlu 242. Euro.-Sib.

Wiedemannia orientalis Fisch. & Mey.

B3: Ulusazlıpınar, edges of fields, 1000-1100 m, 23 iv 1994, Mutlu 357. En.-LC. Ir.-Tur.

Ballota nigra L. subsp. *anatolica* P.H.Davis

B3: Road edge at park entrance, *Cedrus libani* forest, 1200-1300 m, 17 xi 1993, Mutlu 149. C3: Dörtsögütler, edges of gardens, 1150 m, 16 x 1994, Mutlu 1179. En.-LC. Ir.-Tur.

Marrubium parviflorum Fisch. & Mey.
subsp. *parviflorum*

B3: Between Sazlıpınar and Külbaşı Hill ,
1150-1250 m, 24 vi 1994, Mutlu 719. Ir.-
Tur.

Sideritis montana L. subsp. *montana*

B3: Between Sazlıpınar and Külbaşı Hill ,
1150-1250 m, 24 vi 1994, Mutlu 674.
Medit.

S. serratifolia Hub.-Mor.

B3: Çatakbaşı Hill, edges of gardens,
1150-1300 m, 16 vii 1995, Mutlu 1589.
En.-VU. E. Medit.

Stachys cretica L. subsp. *anatolica*
Rech.f.

B3: Between Sazlıpınar and Külbaşı Hill ,
1150-1250 m, 24 vi 1994, Mutlu 706. En.-
LC. Ir.-Tur.

S. iberica M.Bieb. subsp. *iberica* var.
densipilosa R.Bhattacharjee

B3: Between Sazlıpınar and Külbaşı Hill ,
1150-1250 m, 24 vi 1994, Mutlu 733. En.-
LC. Ir.-Tur.

S. annua (L.) L. subsp. *annua* var.
annua

B3: Road edge at park entrance, 1200
m, 2 vi 1995, Mutlu 1430.

Nepeta cadmea Boiss.

B3: Zeybek Hill, *Juniperus excelsa*-
Cedrus libani forest, 1250-1300 m, 25 vi
1994, Mutlu 870. En.-LC. E. Medit.

Origanum sipyleum L.

B3: Between Sazlıpınar and Külbaşı Hill ,
1150-1250 m, 24 vi 1994, Mutlu 641. C3:
Eastern slopes of Kiyakdede Mountain, edges
of fields, 1000 m, 23 vii 1994, Mutlu 974.
En.-LC. E. Medit.

O. onites L.

B3: Buzlukale Hill, 1250-1300 m, 25 vi
1994, Mutlu 892. E. Medit.

Satureja cuneifolia Ten.

B3: Northern slopes of Zeybek Hill,
1150-1300 m, 7 x 1995, Mutlu 1628.
Medit.

Acinos rotundifolius Pers.

B3: Buzlukale Hill, 1250-1300 m, 23 iv
1994, Mutlu 369.

Micromeria myrtifolia Boiss. & Hohen.

C3: Beltaşı Mountain, 1150-1250 m, 26
iii 1994, Mutlu 897. E. Medit.

Thymus zygoides Griseb. subsp.
lycaonicus (Celak.) Ronniger

B3: Northern slopes of Küçüksivri Hill,
Cedrus libani forest, 1250-1300 m, 25 vi
1994, Mutlu 820. En.-LC. E. Medit.

T. sipyleus Boiss. subsp. *sipyleus* var.
sipyleus

B3: Zeybek Hill, 1250-1300 m, 25 vi
1994, Mutlu 840. En.-LC.

T. longicaulis C.Persl subsp. *chaubardii*
(Boiss. & Heldr. ex Reich.f.) Jalas

var. *subisophyllus* (Borbás) Jalas

B3: Road edge at park entrance, 1200
m, 2 vi 1995, Mutlu 1397.

var. *antalyanus* (Klokov) Jalas

B3: Between Sazlıpınar and Külbaşı Hill ,
1150-1250 m, 24 vi 1994, Mutlu 735. En.-
NT.

var. *chaubardii*

B3: Between Sazlıpınar and Külbaşı Hill ,
1150-1250 m, 24 vi 1994, Mutlu 766.

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

B3: Kiyakdede Mountain, 1100 m, 23 vii
1994, Mutlu 1002.

Ziziphora persica Bunge

B3: Between forest houses and hospital
buildings, *Cedrus libani* forest, 1150-1250
m, 26 v 1994, Mutlu 464. Ir.-Tur.

Z. tenuior L.

B3: Between forest houses and hospital
buildings, *Cedrus libani* forest, 1150-1250
m, 26 v 1994, Mutlu 1111. Ir.-Tur.

Salvia tomentosa Mill.

B3: Between Sazlıpınar and Külbaşı Hill ,
1150-1250 m, 24 vi 1994, Mutlu 631.
Medit.

S. bracteata Banks & Sol.

B3: Armutlu village, field, 1200 m, 3 vi
1995, Mutlu 1496. Ir.-Tur.

S. heldreichiana Boiss. ex Benth.

B3: Zeybek Hill, 1250-1300 m, 25 vi
1994, Mutlu 841. En.-LC. E. Medit.

S. cadmica Boiss.

B3: Between forest houses and park

entrance, *Cedrus libani* forest, 1100-1250 m,
27 v 1994, Mutlu 486. En.-LC.

S. cryptantha Montbret & Aucher ex
Benth.

B3: Between forest houses and hospital
buildings, *Cedrus libani* forest, 1150-1250
m, 26 v 1994, Mutlu 415. En.-LC. Ir.-Tur.

S. syriaca L.

B3: Road edge at park entrance, 1200
m, 2 vi 1995, Mutlu 1422. Ir.-Tur.

S. frigida Boiss.

B3: Between forest houses and park
entrance, *Cedrus libani* forest, 1100-1250 m,
27 v 1994, Mutlu 586. Ir.-Tur.

S. cyanescens Boiss. & Bal.

B3: Ulusazlıpınar, edges of fields, 1000-
1100 m, 25 vi 1994, Mutlu 874. En.-LC. Ir.-
Tur.

S. virgata Jacq.

B3: Between Sazlıpınar and Külbaşı Hill ,
1150-1250 m, 24 vi 1994, Mutlu 663. Ir.-
Tur.

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

B3: Between Sazlıpınar and Külbaşı Hill ,
1150-1250 m, 24 vi 1994, Mutlu 708.

Ocimum basilicum L.

B3: Çatakbaşı Hill, edges of fields, 1150-
1300 m, 16 vii 1995, Mutlu 1537. (Culture).

PLUMBAGINACEAE

Plumbago europaea L.

C3: Between Kiyakdede and Göztepe
Mountains, edges of fields, 1200-1300 m, 11
v 1995, Mutlu 992. Euro.-Sib.

Acantholimon acerosum (Willd.) Boiss.
var. *acerosum*

B3: Çatakbaşı Hill, edges of fields, 1150-
1300 m, 16 vii 1995, Mutlu 1608. Ir.-Tur.

A. caesareum Boiss. & Bal.

B3: Northern slopes of Küçüksivri Hill,
Cedrus libani forest, 1250 m, 25 vi 1994,
Mutlu 814. En.-LC. Ir.-Tur.

A. ulicinum (Willd. ex Sch. Bip.) Boiss.
var. *ulicinum*

B3: Tencerepınarı, edges of fields, 1250
m, 3 vi 1995, Mutlu 1474. E. Medit.

Armeria cariensis Boiss. var. *cariensis*

B3: Park entrance, clearings of *Cedrus libani* forest, 1200-1300 m, 18 xi 1993, Mutlu 174. E. Medit. (mt.).

PLANTAGINACEAE

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

C3: Kiyakdede Mountain, 1100 m, 25 vi 1994, Mutlu 965.

P. holosteam Scop.

B3: Between Sazlıpınar and Külbaşı Hill, 1150-1250 m, 24 vi 1994, Mutlu 768. Medit.

P. lanceolata L.

B3: Northern slopes of Küçükşivri Hill, *Cedrus libani* forest, 1250 m, 25 vi 1994, Mutlu 807.

THYMELAEACEAE

Daphne oleoides Schreb. subsp. *oleoides*

B3: Between forest houses and park entrance, *Cedrus libani* forest, 1100-1250 m, 27 v 1994, Mutlu 564.

ELAEAGNACEAE

Elaeagnus angustifolia L.

B3: Çatakbaşı Hill, edges of fields, 1150-1300 m, 16 x 1994, Mutlu 1114.

SANTALACEAE

Thesium billardieri Boiss.

B3: Between forest houses and park entrance, *Cedrus libani* forest, 1100-1250 m, 27 v 1994, Mutlu 497. Ir.-Tur.

LORANTHACEAE

Arceuthobium oxycedri (DC.) M. Bieb.

B3: Road edge at park entrance, 1200-1400 m, 18 xi 1993, Mutlu 177.

Viscum album L. subsp. *album*

B3: Çatakbaşı Hill, on *Crataegus*, 1150-1300 m, 16 x 1994, Mutlu 1119.

ARISTOLOCHIACEAE

Aristolochia maurorum L.

C3: Akçeşme, slope of water canal, edges of fields, 1100 m, 16 x 1994, Mutlu 1039. Ir.-Tur.

EUPHORBIACEAE

Andrachne telephioides L.

B3: Buzlukale Hill, 1250-1300 m, 23 iv 1994, Mutlu 376.

Chrozophora tinctoria (L.) Raf.

C3: Akçeşme, slope of water canal, edges of fields, 1100 m, 16 x 1994, Mutlu 1024.

Mercurialis annua L.

B3: Çatakbaşı Hill, edges of fields, 1150 m, 16 vii 1995, Mutlu 1538-1573.

Euphorbia stricta L.

B3: Road edge at park entrance, clearings of *Cedrus libani* forest, 1100-1200 m, 25 viii 1994, Mutlu 954. Euro.-Sib.

E. eriophora Boiss.

B3: Çatakbaşı Hill, edges of fields, 1150 m, 16 vii 1995, Mutlu 1568. Ir.-Tur.

E. phymatosperma Boiss. & Gaill. subsp. *phymatosperma*

B3: Buzlukale Hill, 1250-1300 m, 23 iv 1994, Mutlu 361. C3: Beltaşı Mountain, 1300-1400 m, 26 iii 1994, Mutlu 240. Ir.-Tur.

E. aleppica L.

B3: Çatakbaşı Hill, edges of fields, 1150 m, 16 vii 1995, Mutlu 1531.

E. arvalis Boiss. & Heldr.

B3: Çatakbaşı Hill, edges of fields, 1150 m, 16 vii 1995, Mutlu 1539-1577. Ir.-Tur.

E. taurinensis All.

C3: Kiyakdede Mountain, 1100 m, 23 vii 1994, Mutlu 1013. B3: Northern slopes of Zeybek Hill, 1150-1300 m, 7 x 1995, Mutlu 1633.

E. falcata L.

subsp. *falcata* var. *falcata*

B3: Bedikpınarı, edges of fields, 1000-1100 m, 25 vi 1994, Mutlu 854.

subsp. *macrostegia* (Bornm.) O.Schwarz

C3: Kiyakdede Mountain, 1100 m, 23 vii 1994, Mutlu 1015. B3: Zeybek Hill, 1150-1300 m, 7 x 1995, Mutlu 1646. En.-LC. E. Medit.

E. herniariifolia Willd. var. *herniariifolia*

B3: Zeybek Hill, rocky crevice, 1250-1300 m, 25 vi 1994, Mutlu 842.

E. anacampseros Boiss. var. *anacampseros*

B3: Çatak Mountain, 1150-1300 m, 22 iv 1995, Mutlu 1227. En.-LC.

E. kotschyana Fenzl

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1150-1250 m, 26 v 1994, Mutlu 421. E. Medit. (mt.).

URTICACEAE

Parietaria judaica L.

B3: Beşkardeşler ravine, rocky crevices, 1250-1300 m, 25 vi 1994, Mutlu 857.

P. lusitanica L.

B3: Between Sazlıpınar and Külbaşı Hill, 1150-1250 m, 24 vi 1994, Mutlu 739. Medit.

MORACEAE

Morus nigra L.

B3: Road edge at park entrance, 1100-1250 m, 7 ix 1996, Mutlu 1743. (Culture).

ULMACEAE

Celtis tournefortii Lam.

B3: Fakılar village, Kaya Hill, 1250 m, 3 vi 1995, Mutlu 1488.

JUGLANDACEAE

Juglans regia L.

C3: Between Kiyakdede and Göztepe Mountains, edges of fields, 1200 m, 11 v 1995, Mutlu 1346. (Culture).

FAGACEAE

Quercus pubescens Willd.

B3: Road edge at park entrance, *Cedrus libani* forest, 1200-1300 m, 17 xi 1993, Mutlu 157.

Q. cerris L. var. *cerris*

B3: Northern slopes of Kızıldağ, *Cedrus libani* forest, 1250-1350 m, 7 ix 1996, Mutlu 1776. Medit.

Q. trojana Webb

B3: Zeybek Hill, edges of fields, 1250-1300 m, 25 vi 1994, Mutlu 832. C3: Akçeşme, slope of water canal, edges of fields, 1150 m, 23 vii 1994, Mutlu 1035. E. Medit.

Q. coccifera L.

B3: Road edge at park entrance, *Cedrus libani* forest, 1200-1300 m, 17 xi 1993, Mutlu 165. Medit.

SALICACEAE

Salix alba L.

B3: Between forest houses and water

pump, *Cedrus libani* forest, 1150-1250 m, 23 iv 1994, Mutlu 308. Euro.-Sib.

Populus alba L.

B3: Road edge at park entrance, 1150 m, 16 x 1994, Mutlu 1156. Euro.-Sib.

MONOCOTYLEDONAE

ALISMATACEAE

Alisma lanceolatum With.

C3: Kiyakdede Mountain, edges of fields, 1100 m, 23 vii 1994, Mutlu 963.

ARACEAE

Arum orientale M.Bieb. subsp. *orientale*

B3: Between forest houses and park entrance, *Cedrus libani* forest, 1100-1250 m, 27 v 1994, Mutlu 593. Euxine.

LILIACEAE

Asphodeline damascena (Boiss.) Baker subsp. *damascena*

B3: Beltaşı Mountain, 1150-1250 m, 25 vi 1994, Mutlu 899. Ir.-Tur.

Allium cepa L.

B3: Çatakbaşı Hill, edges of fields, 1150 m, 16 vii 1995, Mutlu 1535. (Culture).

A. paniculatum L. subsp. *paniculatum*

C3: Between Kiyakdede and Göztepe Mountains, edges of fields, 1200-1300 m, 23 vii 1994, Mutlu 997. Medit.

A. flavum L. subsp. *tauricum* (Besser ex Rchb.) Stearn var. *tauricum*

B3: Kızıldağ, 1600-1700 m, 25 vi 1994, Mutlu 904. C3: Between Kiyakdede and Göztepe Mountains, edges of fields, 1200-1300 m, 24 vii 1994, Mutlu 1076. Medit.

A. stamineum Boiss.

B3: Between Sazlıpınar and Külbaşı Hill, 1150-1250 m, 24 vi 1994, Mutlu 702. E. Medit.

A. ampeloprasum L.

B3: Road edge at park entrance, 1200 m, 2 vi 1995, Mutlu 1410. Medit.

A. atroviolaceum Boiss.

B3: Between Sazlıpınar and Külbaşı Hill, 1150-1250 m, 24 vi 1994, Mutlu 714.

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

B3: Between forest houses and park

entrance, *Cedrus libani* forest, 1100-1250 m, 27 v 1994, Mutlu 516. Medit.

A. sphaerocephalon L. subsp. *sphaerocephalon*

B3: Between Sazlıpınar and Külbaşı Hill, 1150-1250 m, 24 vi 1994, Mutlu 799. Euro.-Sib.

A. phanerantherum Boiss. & Hausskn. subsp. *phanerantherum*

B3: Çatakbaşı Hill, edges of fields, 1150 m, 16 vii 1995, Mutlu 1575. E. Medit.

A. vineale L.

B3: Northern slopes of Külbaşı Hill, 1200 m, 3 vi 1995, Mutlu 1517.

A. guttatum Steven subsp. *sardoum* (Moris) Stearn

B3: Between Sazlıpınar and Külbaşı Hill, 1150-1250 m, 24 vi 1994, Mutlu 751. Medit.

A. scabriflorum Boiss.

B3: Çatakbaşı Hill, 1150 m, 16 vii 1995, Mutlu 1596. En.-LC. Ir.-Tur.

A. orientale Boiss.

B3: Northern slopes of Külbaşı Hill, 1200 m, 11 v 1995, Mutlu 1348. E. Medit.

Scilla autumnalis L.

B3: Zeybek Hill, 1300 m, 7 x 1995, Mutlu 1643. Medit.

Ornithogalum narbonense L.

B3: Northern slopes of Küçükşivri Hill, *Cedrus libani* forest, 1250-1300 m, 25 vi 1994, Mutlu 864. Medit.

O. oligophyllum E.D.Clarke

B3: Northern slopes of Küçükşivri Hill, *Cedrus libani* forest, 1250 m, 23 iv 1994, Mutlu 347. C3: Beltaşı Mountain, *Quercus coccifera-Juniperus excelsa* forest, 1300-1400 m, 25 iii 1994, Mutlu 246.

O. ulophyllum Hand.-Mazz.

B3: Between forest houses and park entrance, *Cedrus libani* forest, 1100-1250 m, 27 v 1994, Mutlu 608.

O. wiedemannii Boiss.

C3: Kiyakdede Mountain, 1150 m, 23 vii 1994, Mutlu 1310.

O. armeniacum Baker

B3: Northern slopes of Külbaşı Hill, 1200 m, 11 v 1995, Mutlu 1350. E. Medit.

Muscari armeniacum Leichtlin ex Baker

B3: Öğlelediği Hill, 1200-1300 m, 3 iii 1995, Mutlu 1187. C3: Eastern slopes of Kiyakdede Mountain, edges of fields, 1150 m, 11 v 1995, Mutlu 1301.

M. neglectum Guss.

B3: Northern slopes of Küçükşivri Hill, 1250-1300 m, 23 iii 1994, Mutlu 199. C3: Beltaşı Mountain, 1300-1400 m, 27 v 1994, Mutlu 238.

Bellevialia tauri Feinbrun

B3: Northern slopes of Küçükşivri Hill, *Cedrus libani* forest, 1300 m, 24 iii 1994, Mutlu 595. En.-LC. E. Medit.

Fritillaria whittallii Baker

B3: Northern slopes of Kızıldağ, *Cedrus libani* forest, 1400-1500 m, 11 v 1995, Mutlu 1357. En.-VU. E. Medit. (mt.).

F. hermonis Fenzl subsp. *amana* Rix

B3: Western slopes of Küçükşivri Hill, *Cedrus libani* forest, 1500-1550 m, 24 iii 1994, Mutlu 342. E. Medit. VU.

F. sibthorpiana (Sm.) Baker subsp. *sibthorpiana*

B3: Northern slopes of Küçükşivri Hill, *Cedrus libani* forest, 1300-1500 m, 23 iv 1994, Mutlu 1129. En.-VU. E. Medit.

F. carica Rix. subsp. *carica*

B3: Northern slopes of Küçükşivri Hill, *Cedrus libani* forest, 1300-1500 m, 23 iv 1994, Mutlu 1269. En.-LC. E. Medit.

F. pinardii Boiss.

B3: Western slopes of Kızıl Hill, 1400-1500 m, 26 iii 1994, Mutlu 248. Ir.-Tur.

Tulipa sylvestris L.

B3: Road edge at park entrance, 1250-1300 m, 22 iv 1994, Mutlu 299.

T. armena Boiss. var. *lycica* (Baker) Marais

B3: Northern slopes of Külbaşı Hill, 1600 m, 11 v 1995, Mutlu 1355. En.- LC.

Gagea bohemica (Zauschn.) Sch. Bip. & Schult. f.

B3: Sazlıpınar, 1150-1250 m, 4 iii 1995, Mutlu 1206.

G. peduncularis (J. & C.Presl) Pascher

B3: Northern slopes of Külbaşı Hill,

Cedrus libani forest, 1250-1300 m, 24 iii 1994, Mutlu 206. C3: Beltaş Mountain, *Quercus coccifera-Juniperus excelsa* forest, 1300-1400 m, 25 iii 1994, Mutlu 245. Medit.

G. granatelli (Parl.) Parl.

C3: Karakaya village, edges of fields, 900-1000 m, 25 iii 1994, Mutlu 231. Medit.

Colchicum burttii Meikle

B3: Northern slopes of Küçükşivri Hill, *Cedrus libani* forest, 1250-1300 m, 24 iii 1994, Mutlu 196. C3: Arpadere Hill, Opposite slopes of Yarıkkaya, 1100-1250 m, 25 iii 1994, Mutlu 228. En.-LC. E. Medit.

C. variegatum L.

B3: Külbaşı Hill, road edge, 1150 m, 7 x 1995, Mutlu 1647. E. Medit.

Merendera sobolifera C.A.Mey. apud Fisch. & Mey.

B3: Northern slopes of Kırmızı Hill, 1200 m, 25 iii 1994, Mutlu 220. Ir.-Tur.

AMARYLLIDACEAE

Galanthus elwesii Hook.f.

B3: Northern slopes of Kızıldağ, *Cedrus libani* forest, 1350 m, 4 iii 1995, Mutlu 1210. E. Medit. (mt.).

G. gracilis Çelak.

B3: Western slopes of Kızıldağ, 1400 m, 4 iii 1995, Mutlu 1212. E. Medit.

IRIDACEAE

Iris schactii Markgraf

B3: Western slopes of Kızıldağ, 1400 m, 4 iii 1995, Mutlu 1213. En.-LC. Ir.-Tur.

I. stenophylla Hausskn. & Siehe ex Baker subsp. *stenophylla*

B3: Northern slopes of Küçükşivri Hill, 1250-1300 m, 24 iii 1994, Mutlu 198. En.-VU. Medit.

Crocus chrysanthus (Herb.) Herb.

B3: Northern slopes of Küçükşivri Hill, *Cedrus libani* forest, 1250-1300 m, 24 iii 1994, Mutlu 195-197.

C. danfordiae Maw

B3: Sazlıpınar, 1150-1250 m, 4 iii 1995, Mutlu 1205. En.-LC.

C. pallasii Goldb. subsp. *pallasii*

B3: Northern slopes of Küçükşivri Hill,

Cedrus libani forest, 1250 m, 16 x 1994, Mutlu 1134.

Gladiolus anatolicus (Boiss.) Stapf

B3: Northern slopes of Kızıldağ, *Cedrus libani* forest, 1400-1500 m, 23 vi 1996, Mutlu 1700. En.-LC. E. Medit.

ORCHIDACEAE

Cephalanthera longifolia (L.) Fritsch

C3: Between Kiyakdede and Göztepe Mountains, edges of fields, 1200 m, 11 v 1995, Mutlu 1342. Euro.-Sib.

Orchis mascula (L.) L. subsp. *pineterum* (Boiss. & Kotschy) E.G.Camus

B3: Between forest houses and water pump, *Cedrus libani-Juniperus excelsa* forest, 1150-1250 m, 23 iv 1994, Mutlu 326. E. Medit.

JUNCACEAE

Juncus heldreichianus T.Marsson ex Parl.

subsp. *heldreichianus*

B3: Ulusazlıpınar, edges of fields, 1000-1100 m, 25 vi 1994, Mutlu 882. E. Medit.

subsp. *orientalis* Snog.

B3: Road edge at park entrance, 1200-1300 m, 18 xi 1993, Mutlu 178. Ir.-Tur.

J. inflexus L.

B3: Çatakbaşı Hill, edges of fields, 1150-1300 m, 16 vii 1995, Mutlu 1598.

J. sparganiifolius Boiss. & Kotschy ex Buchenau

B3: Ulusazlıpınar, edges of fields, 1000-1100 m, 25 vi 1994, Mutlu 873. En.-LC. E. Medit.

CYPERACEAE

Cyperus longus L.

C3: Kiyakdede Mountain, 1100 m, 23 vii 1994, Mutlu 968.

Bolboschoenus maritimus (L.) Palla var. *maritimus*

B3: Çatakbaşı Hill, 1150 m, 16 vii 1995, Mutlu 1607.

Scirpoides holoschoenus (L.) Sojak

B3: Between Sazlıpınar and Külbaşı Hill, 1150-1250 m, 24 vi 1994, Mutlu 732.

Carex muricata L.

B3: Northern slopes of Zeybek Hill, 1150-1300 m, 7 x 1995, Mutlu 1624. C3: Kiyakdede Mountain, 1100 m, 23 vii 1994, Mutlu 967. Euro.-Sib.

C. flacca Schreb. subsp. *serrulata* (Biv.) Greuter

B3: Between forest houses and park entrance, *Cedrus libani* forest, 1100-1250 m, 27 v 1994, Mutlu 501. Medit.

C. distans L.

B3: Ulusazlıpınar, 1000-1100 m, 25 vi 1994, Mutlu 883. Euro.-Sib.

C. halleriana Asso

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1150-1250 m, 26 v 1994, Mutlu 442. Medit.

POACEAE

Trachynia distachya (L.) Link

B3: Northern slopes of Kızıldağ, *Cedrus libani* forest, 1400-1500 m, 23 vi 1996, Mutlu 1728. Medit.

Elymus repens (L.) Gould subsp. *elogatiformis* (Drobov) Melderis

B3: Çatakbaşı Hill, edges of fields, 1150 m, 16 vii 1995, Mutlu 1575. Ir.-Tur.

E. hispidus (Opiz) Melderis subsp. *barbulatus* (Schur) Melderis

B3: Northern slopes of Kızıldağ, *Cedrus libani* forest, 1400-1500 m, 23 vi 1996, Mutlu 1696.

E. farctus (Viv.) Runemark ex Melderis subsp. *farctus* var. *farctus*

B3: Between Sazlıpınar and Külbaşı Hill, 1150-1250 m, 24 vi 1994, Mutlu 755. Medit.

Aegilops cylindrica Host

B3: Road edge at park entrance, 1200 m, 2 vi 1995, Mutlu 1376. Ir.-Tur.

A. triuncialis L. subsp. *triuncialis*

B3: Road edge at park entrance, 1200 m, 2 vi 1995, Mutlu 1389.

A. biuncialis Vis.

B3: Between Sazlıpınar and Külbaşı Hill, 1150-1250 m, 24 vi 1994, Mutlu 727.

A. geniculata Roth

B3: Road edge at park entrance, 1200 m, 2 vi 1995, Mutlu 1401. Medit.

Triticum baeoticum Boiss. subsp. *baeoticum*

B3: Çatakbaşı Hill, edges of fields, 1150 m, 16 vii 1995, Mutlu 1523.

T. aestivum L.

B3: Park entrance, edges of fields, 1200 m, 2 vi 1995, Mutlu 1384-1436. (Culture).

Hordeum murinum L. subsp. *glaucom* (Steud.) Tzvelev

B3: Between Sazlıpınar and Külbaşı Hill , 1150-1250 m, 24 vi 1994, Mutlu 729.

H. bulbosum L.

B3: Northern slopes of Küçükşivri Hill, *Cedrus libani* forest, road edge, 1250 m, 25 vi 1994, Mutlu 804.

Taeniatherum caput-medusae (L.) Nevski subsp. *asper* (Simonk.) Melderis

B3: Between Sazlıpınar and Külbaşı Hill , edges of fields, 1150-1250 m, 24 vi 1994, Mutlu 796.

Bromus intermedius Guss.

B3: Between Sazlıpınar and Külbaşı Hill , 1150-1250 m, 24 vi 1994, Mutlu 640

B. japonicus Thunb. subsp. *japonicus*

B3: Northern slopes of Küçükşivri Hill, *Cedrus libani* forest, road edge, 1250 m, 25 vi 1994, Mutlu 806.

B. scoparius L.

B3: Between Sazlıpınar and Külbaşı Hill , 1150-1250 m, 24 vi 1994, Mutlu 782.

B. danthoniae Trin.

B3: Between Sazlıpınar and Külbaşı Hill , 1150-1250 m, 24 vi 1994, Mutlu 694.

B. sterilis L.

B3: Northern slopes of Küçükşivri Hill, *Cedrus libani* forest, road edge, 1250-1300 m, 25 vi 1994, Mutlu 822.

B. tomentellus Boiss.

B3: Northern slopes of Kızıldağ, *Cedrus libani* forest, 1400-1500 m, 11 v 1995, Mutlu 1359. Ir.-Tur.

B. benekenii (Lange) Trimen

B3: Kızıldağ, 1600-1700 m, 25 vi 1994, Mutlu 918. NT.

Avena barbata Pott ex Link subsp. *barbata*

B3: Fakılar village, Kaya Hill, 1250 m, 3 vi 1995, Mutlu 1484. Medit.

A. sativa L.

B3: Road edge at park entrance, 1200 m, 2 vi 1995, Mutlu 1424. (Culture).

Arrhatherum palaestinum Boiss.

B3: Fakılar village, Kaya Hill, 1250 m, 3 vi 1995, Mutlu 1490. E. Medit.

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

B3: Armutlu village, field, 1200 m, 3 vi 1995, Mutlu 1499. Ir.-Tur.

Koeleria brevis Steven

B3: Northern slopes of Kızıldağ, *Cedrus libani* forest, 1400-1500 m, 23 vi 1996, Mutlu 1703. Euxine.

Apera intermedia Hack. apud Zederb.

B3: Between Sazlıpınar and Külbaşı Hill , 1150-1250 m, 24 vi 1994, Mutlu 782. Ir.-Tur.

Agrostis stolonifera L.

B3: Between Sazlıpınar and Külbaşı Hill , 1150-1250 m, 24 vi 1994, Mutlu 643. Euro.-Sib.

Polypogon monspeliensis (L.) Desf.

C3: Kiyakdede Mountain, edges of fields, 1100 m, 23 vii 1994, Mutlu 964.

Milium vernale M.Bieb.

subsp. *vernale*

B3: Between forest houses and park entrance, *Cedrus libani* forest, 1100-1250 m, 27 v 1994, Mutlu 573. Medit.

subsp. *montianum* (Parl.) Al.Jah. & Maire

B3: Between forest houses and water pump, *Cedrus libani* forest, 1150-1250 m, 23 iv 1994, Mutlu 313. Medit.

Alopecurus arundinaceus Poir.

B3: Road edge at park entrance, 1200 m, 2 vi 1995, Mutlu 1425. Euro.-Sib.

A. textilis Boiss. subsp. *textilis*

B3: Westher slope of Küçükşivri Hill, 1500-1550 m, 23 iv 1994, Mutlu 345. Ir.-Tur.

A. myosuroides Huds. var. *myosuroides*

C3: Göztepe Mountain, 1200 m, 23 iv 1995, Mutlu 1283. Euro.-Sib.

Phleum montanum C.Koch subsp. *serrulatum* (Boiss.) Dogan

B3: Kızıldağ, 1600-1700 m, 25 vi 1994, Mutlu 942. E. Medit.

P. boissieri Bornm.

B3: Between forest houses and park entrance, *Cedrus libani* forest, 1100-1250 m, 27 v 1994, Mutlu 580. Ir.-Tur.

Festuca heterophylla Lam.

B3: Between Sazlıpınar and Külbaşı Hill , 1150-1250 m, 24 vi 1994, Mutlu 648. Euro.-Sib.

Lolium subulatum Vis.

B3: Northern slopes of Kızıldağ, *Cedrus libani* forest, 1400-1500 m, 23 vi 1996, Mutlu 1689. VU. E. Medit.

Vulpia fasciculata (Forssk.) Fritsch

B3: Between forest houses and park entrance, *Cedrus libani* forest, 1100-1250 m, 27 v 1994, Mutlu 520. Medit.

V. ciliata Dumort subsp. *ciliata*

C3: Göztepe Mountain, edges of fields, 1200 m, 23 iv 1995, Mutlu 1650-1805.

Lolium subulatum (Banks & Sol.) Eig.

B3: Northern slopes of Kızıldağ, *Cedrus libani* forest, 1400-1500 m, 23 vi 1996, Mutlu 1689. Ir.-Tur.

Poa annua L.

C3: Opposite slopes of Karayaka village, Taşlı Hill, lake shore, 1100 m, 23 iv 1995, Mutlu 1274.

P. pratensis L.

B3: Between forest houses and park entrance, *Cedrus libani* forest, 1100-1250 m, 27 v 1994, Mutlu 529.

P. diversifolia (Boiss. & Bal.) Hack. ex Boiss.

B3: Between Sazlıpınar and Külbaşı Hill , 1150-1250 m, 24 vi 1994, Mutlu 688. E. Medit. (mt.).

P. alpina L. subsp. *fallax* F.Herm.

B3: Çatakbaşı Hill, edges of fields, 1150 m, 22 iv 1995, Mutlu 1224. C3: Göztepe Mountain, edges of fields, 1200 m, 23 iv 1995, Mutlu 1288.

P. timoleontis Heldr. ex Boiss.

B3: Buzlukale Hill, 1250-1300 m, 23 iv 1994, Mutlu 367. E. Medit.

P. bulbosa L.

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1150-1250 m, 22 iv 1994, Mutlu 267.

Catabrosa aquatica (L.) P.Beauv.

B3: Road edge at park entrance, 1200 m, 2 vi 1995, Mutlu 1381.

Dactylis glomerata L. subsp. *hispanica* (Roth) E.Nyman

B3: Around forest houses, *Cedrus libani* forest, 1250-1300 m, 27 v 1994, Mutlu 612.

Briza humilis M.Bieb.

B3: Northern slopes of Kızıldağ, *Cedrus libani* forest, 1300-1500 m, 3 vi 1996, Mutlu 1465.

Echinaria capitata (L.) Desf.

C3: Göztepe Mountain, edges of fields, 1200 m, 23 iv 1995, Mutlu 1289.

Melica penicillaris Boiss. & Bal.

B3: Zeybek Hill, 1250-1300 m, 25 vi 1994, Mutlu 834. Ir.-Tur.

M. ciliata L. subsp. *ciliata*

B3: Kızıldağ, 1600-1700 m, 25 vi 1994, Mutlu 911-937.

Stipa holosericea Trin.

B3: Road edge at park entrance, 1200 m, 2 vi 1995, Mutlu 1429. Ir.-Tur.

Piptatherum coerulescens (Desf.) P.Beauv.

B3: Between forest houses and hospital buildings, *Cedrus libani* forest, 1150-1250 m, 26 v 1994, Mutlu 429.

Phragmites australis (Cav.) Trin. ex Steud.

B3: Çatakbaşı Hill, beside water canal, 1150 m, 16 x 1994, Mutlu 1112. Euro.-Sib.

Eragrostis cilianensis (All.) Vign.-Lut. ex Janch.

B3: Çatakbaşı Hill, edges of gardens, 1150 m, 8 ix 1996, Mutlu 1792. Euro.-Sib.

E. collina Trin.

B3: Northern slopes of Kızıldağ, *Cedrus libani* forest, 1300 m, 24 vii 1994, Mutlu 1079.

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

C3: Bedikpınarı, edges of fields, 1000-1100 m, 24 vii 1994, Mutlu 1 093.

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

B3: Çatakbaşı Hill, edges of gardens, 1150 m, 8 ix 1996, Mutlu 1795.

Seteria viridis (L.) P.Beauv.

B3: Northern slopes of Zeybek Hill, field, 1150 m, 7 x 1995, Mutlu 1634.

Pennisetum orientale Rich.

B3: Northern slopes of Kızıldağ, *Cedrus libani* forest, 1300 m, 24 vii 1994, Mutlu 1053-1057-1059. Ir.-Tur.

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

B3: Northern slopes of Küçüksivri Hill, *Cedrus libani* forest, 1250-1300 m, 23 iv 1994, Mutlu 952.

Zea mays L. subsp. *mays*

B3: Çatakbaşı Hill, edges of fields, 1150 m, 16 vii 1995, Mutlu 1529. (Culture).