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HASAN KORKMAZ

ALİ ENGİN

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## The Flora of the Boyabat (Sinop) Dam and Its Environs\*

Hasan KORKMAZ

Ondokuz Mayıs University, Faculty of Arts-Science, Department of Biology, Kurupelit, 55139 Samsun - TURKEY

Ali ENGİN

Ondokuz Mayıs University, Faculty of Education, Department of Biology, Atakum, 55100 Samsun - TURKEY

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**Abstract:** This study was carried out over three years, from 1990 to 1993. The study area is situated between Kepez gorge and Devrez stream of Kızılırmak valley. In the study area, 1016 species belonging to 441 genera and 99 families were identified. Distribution rates of the species in terms of phytogeographic regions are as follows: 12.40% Euro-Siberian, 3.83% Euxine, 0.68% Hyrcano-Euxine, 11.31% Irano-Turanian and 9.74% Mediterranean. The number of endemic species is 106 and the rate of endemism is 10.43%.

**Key Words:** Flora, The Boyabat Dam, The Black Sea Region.

### Boyabat (Sinop) Barajı ve Çevresinin Florası

**Özet:** Bu çalışma Kızılırmak vadisinin Kepez boğazı ile Devrez çayı kavşağı arasında kalan kesiminde, 1990-1993 yıllarında yürütülmüştür. Çalışma sonucu araştırma alanının vasküler florasında, 99 familya ve 441 cinse dahil, 1016 tür belirlenmiştir. Türlerin floristik bölgelere dağılımı şöyledir: %12,40 Avrupa-Sibirya, %3,83 Öksin, %0,68 Hirkano-Öksin, %11,31 İran-Turan ve %9,74 Akdeniz. Endemik taksonların sayısı ise 106 olup, endemizm oranı %10,43 dür.

**Anahtar Sözcükler:** Flora, Boyabat barajı, Karadeniz Bölgesi.

### Introduction

The main aim of this study is to examine the floristic structure of some parts of Kızılırmak valley, between Kepez gorge and Devrez stream (Figure 1). No specific studies have previously been conducted in this area in terms of floristic aspects, other than collecting some plant samples (Davis, 1965-1985). However, some floristic studies have been carried out in the vicinity of the study area (Kılınç, 1985; Kılınç and Özen, 1988; Engin and Korkmaz, 1990; Kılınç, 1990; Engin and Korkmaz, 1991; Karaer and Kılınç, 1993; Özen and Kılınç 1995; Kutbay and Kılınç, 1995).

The research area is said to be rich in terms of flora due to having a Mediterranean climate (Emberger, 1952; Akman, 1990) and being a transition zone between the Middle Black Sea and Central Anatolia. Unfortunately, a remarkable number of the Mediterranean enclaves spread

widely within the region will be flooded after the construction of the Boyabat Dam.

### General Properties of the Study Area

The important heights in the rough area of the study are Eğinönü plateau (1650 m), as an extension of Ilgaz Mountains, and the mountains of Saraycık (1687 m), Yoncalı (1293 m), Meşe (1493 m), Çal (1732 m), Ada (1128 m) and Ala (955 m). There are numerous streams in the study area which flow into the Kızılırmak, and which dry in the summer. These streams include the Darıçay, the Ovacık and the Kocaçay (Figure 1).

The geological structure of the study area is formed by palaeozoic and partly mesozoic schist, palaeozoic crystallised calcareous, upper cretaceous serpentine-gabbro and diabase, paleocene limestone, eocene marn, claystone, tufa and quaternary alluvions (Ketin, 1962).

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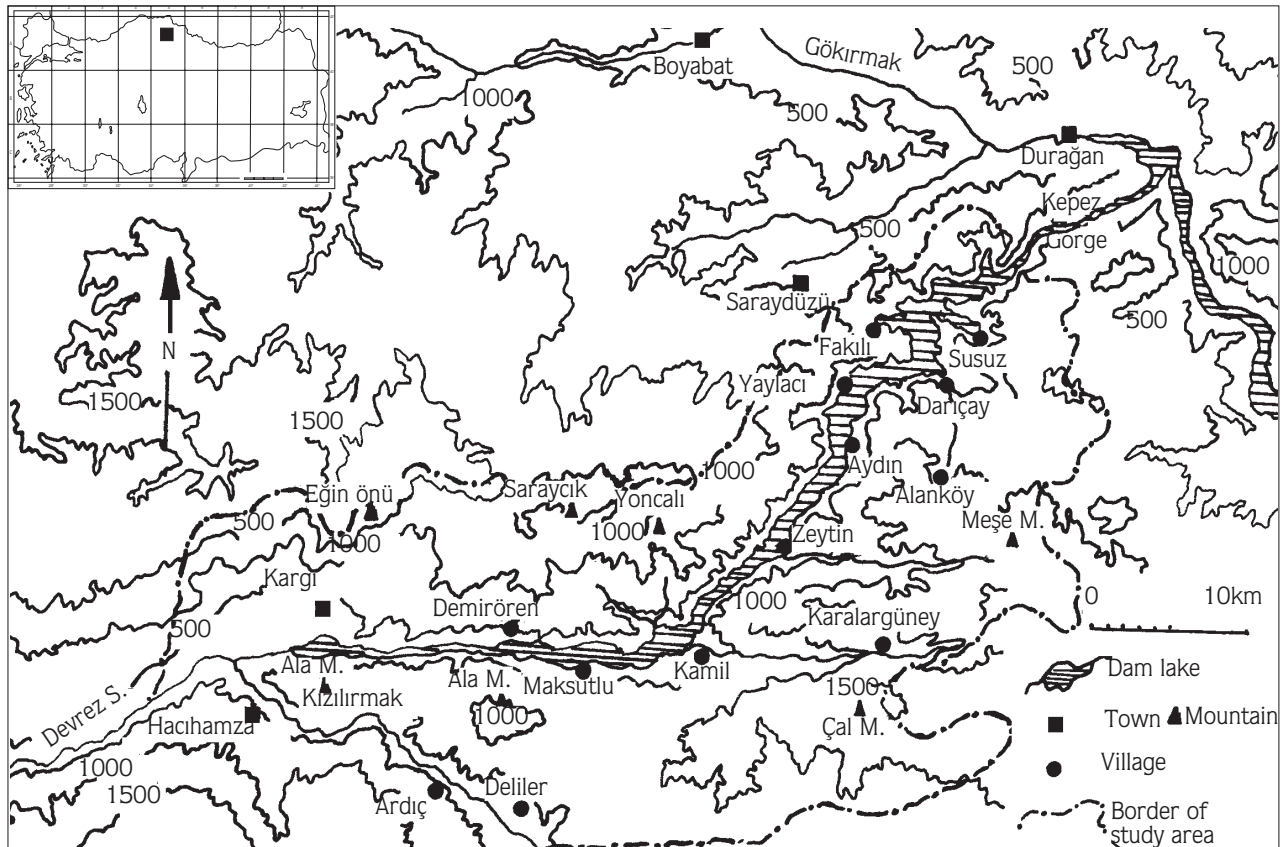


Figure 1. Topographical map of study area

The most widespread soil groups in the area are brown-forest, limeless brown-forest, red-yellow podzolic, colluvial and alluvial soils (Topraksu Genel Md., 1974).

In the climatic diagrams of the five meteorology stations (Vezirköprü, Durağan, Boyabat, Kargı and Osmaniç) in the research area drawn by the Walter (1956) method, summer aridity, the duration and intensity of which showed differences, was observed (Figure 2).

The formulae of Emberger (1952) and Akman (1990) were used to determine the Mediterranean bioclimatic zones and general aridity levels. Vezirköprü, Durağan, Boyabat, Kargı and Osmaniç were considered to be semi-arid Mediterranean, according to "Q" values. Durağan was cool Mediterranean, and Vezirköprü, Boyabat, Kargı and Osmaniç were cold-winter Mediterranean according to "m" values. The records of the local meteorology stations showed that the rain regime was Sp. Wi. Au. Su. in Vezirköprü and Osmaniç,

Sp. Au. Su. Wi. in Durağan, Sp. Su. Au. Wi. in Boyabat and Sp. Wi. Su. Au. in Kargı.

The whole study area is situated in the A5 square according to the grid system of Davis and in the Euxine province of the Euro-Siberian region phytogeographically (Davis, 1965-1985). There are areas of forest, degraded forest, macchie, steppe and dried-stream vegetation in the study area.

### Materials and Methods

The study material comprised 2150 plant samples, collected from the research area weekly in 1991-1993. The plant samples were prepared according to herbarium techniques (Seçmen et al., 1986). The identification of the plants samples was done with reference to the Flora of Turkey (Davis, 1965-1985) and other sources (Tutin et al., 1965-1980; Dalcı, 1986; Davis et al., 1988; Leblebici, 1990). Furthermore, most plant samples were checked at the herbaria of the Biology Departments of

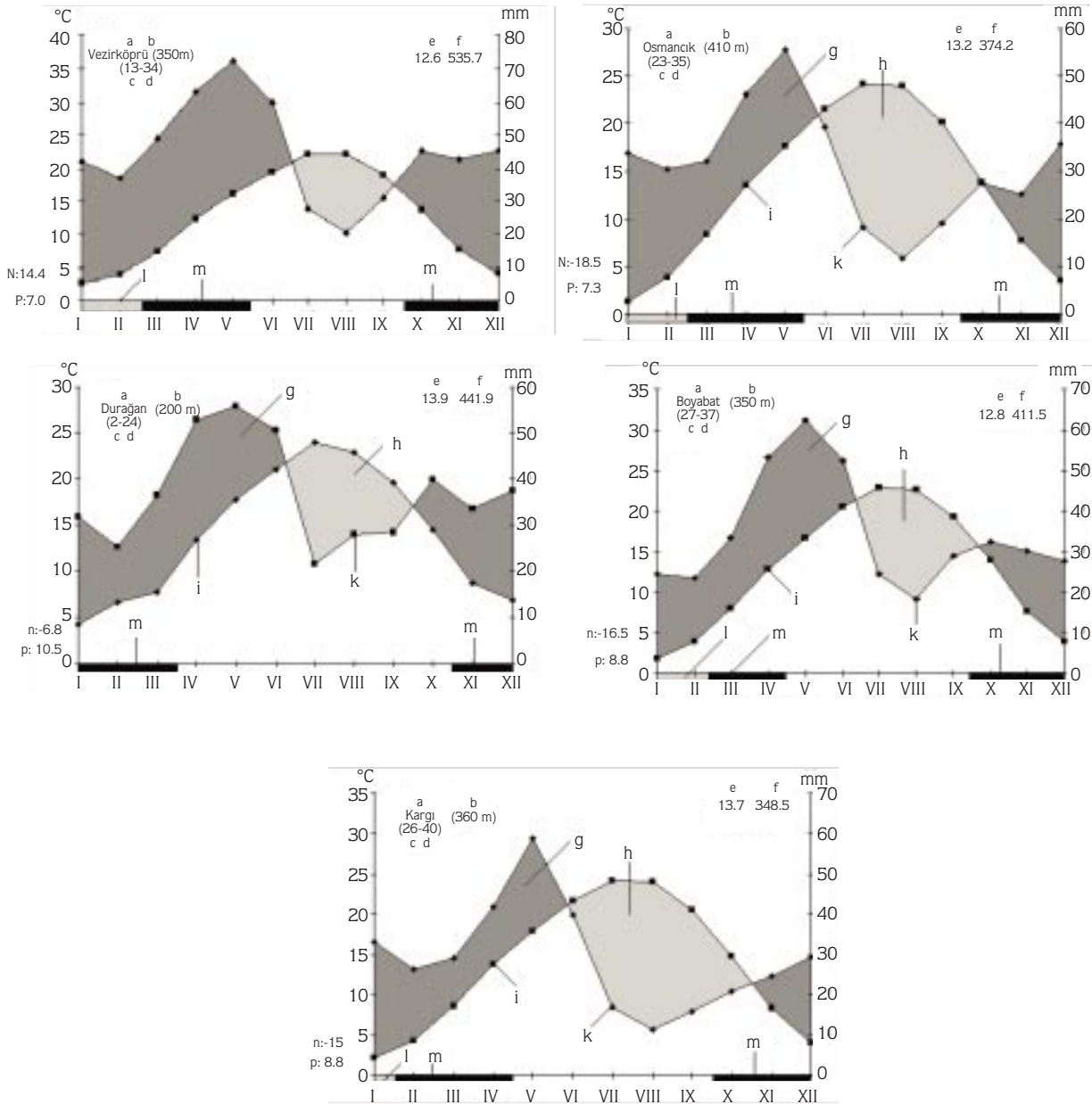


Figure 2. Ombrothermic diagrams of the meteorological stations in the study area  
**a.** Name of meteorological station, **b.** Altitude of meteorological station, **c.** Duration of temperature measurement, **d.** Duration of rain measurement, **e.** Annual average of temperature, **f.** Annual average of rain, **g.** Rainy period, **h.** Arid period, **i.** Temperature curve, **k.** Rain curve, **l.** Freezing months, **m.** Probable freezing months, **n.** The minimum average temperature of the coldest month, **p.** Absolute minimum temperature

Ankara (ANK), Gazi (GAZI) and Hacettepe (HUB) Universities, by consulting scientists experienced in the subject.

The list of plants is presented according to the sequence given in the Flora of Turkey (Davis, 1965-1985). Some plant species which were cited in the Flora of Turkey were also included in the list. The cultivated

plants are marked with an asterisk in front of the species names. Since the research area was wholly situated within the A5 grid square, it was not repeated after the taxa names. The phytogeographic positions, threatened categories of species and whether they were endemic or not were determined according to the Flora of Turkey (Davis, 1965-1985) and Ekim et al. (1989). After the

name of every species in the list, the geographical location, habitat, collection date, collection number, phytogeographical regions and threatened categories of the endangered species (bold in brackets) are given. Author abbreviations of species names are given according to Brummitt and Powell (1992). Our floristic results were compared with those of studies carried out in nearby regions (Kılınç, 1985; Kılınç and Özen, 1988; Engin and Korkmaz, 1990; Kılınç, 1990; Engin and Korkmaz, 1991; Karaer and Kılınç, 1993; Özen and Kılınç, 1995; Kutbay and Kılınç, 1995). The plants are listed in the Appendix and some abbreviations used in the text are given below.

All plant samples were preserved in the Herbarium of the Faculty of the Arts-Science of Ondokuz Mayıs University (O.M.U.B.).

**Abbreviations**

Cosmp.: Cosmopolitan; el.: Element; E. Medit.: East Mediterranean; End.: Endemic; Euro-Sib.: Euro-Siberian; Eux.: Euxine; H.K.: Hasan Korkmaz (collector); Hyr.-Eux.: Hyrcano-Euxine; Medit.: Mediterranean; Y.: yaylası (Turkish for summer pasture); D.: P.H. Davis, Threat Categories: E, Endangered; V, Vulnerable; R, Rare; K, Insufficiently Known; nt, not threatened.

**Results and Discussion**

One thousand and sixteen species belonging to 441 genera and 99 families were identified in the study area. Eleven of these species belonged to *Pteridophyta*. Eight species belonged to *Gymnospermae*, while the other 997 were *Angiospermae*. *Dicotyledones* and *Monocotyledones* consisted of 871 and 126 species respectively, and 68 of these taxa were published as new records for the A5 square (Korkmaz et al., 1996). It was identified that

12.40% of the species in the study area belonged to the Euro-Siberian, 3.83% to the Euxine, 0.68% to the Hyrcano-Euxine, 11.31% to the Irano-Turanian and 9.74% to the Mediterranean floristic regions. In addition, it was found that 0.98% of the species were cosmopolitan and 50.29% pluriregional. The endemic species were determined to be 106, and the rate of endemism was 10.43% (Table 1).

It is seen that the floristic elements of the Euro-Siberian region in the study area were mostly distributed in the humid and cool localities of the northern valley slopes and the high parts under the effects of the humid climate. Furthermore, the Irano-Turanian elements were distributed in the southern parts that have the character of a steppe-forest transition zone. The Mediterranean elements were mostly spread on the lower valley slopes as enclave populations. *Pinus brutia* Ten. (*Pinaceae*), *Olea europaea* L. var. *syvestris* (Mill.) Lehr (*Oleaceae*), *Phyllirea latifolia* L. (*Oleaceae*), *Arbutus unedo* L. (*Ericaceae*), *Arbutus andrachne* L. (*Ericaceae*) and *Cistus creticus* L. (*Cistaceae*) are said to be dominant species in the enclave groups and are known as Tertiary relicts, and the reason for their presence in the study area is changes in the climatologic geomorphologic and topographic structure of Turkey (Davis, 1965-1985; Gemici, 1993; Pignatti, 1978).

Since the study area is included in the Euxine province of the Euro-Siberian floristic region, Euro-Siberian elements were most common. Irano-Turanian elements have become widespread because of forest degradation (Korkmaz and Engin, 1997). The reason for the relatively high appearance of Mediterranean taxa is that the lower valley slopes are affected by a local Mediterranean climate. Thus, according to Emberger's (1952) and Akman's (1990) rain-temperature formulae, a local Mediterranean climate was observed in the research area.

Table 1. A comparative representation of the distribution and endemism rates (%) of species over the floristic regions in the study area with some studies performed in nearby areas.

Name of Studies	Number	Pytogeographical Positions							Endemism
		Euro-Sib.	Euxine	Hyr.-Eux.	Medit.	Ir.-Tur.	Cosmp.	Pluriregional	
Present study	1016	12.40	3.83	0.68	9.74	11.31	0.98	50.29	10.43
Kılınç (85,90)	850	32.04	3.90	1.50	11.77	23.88	1.50	45.30	2.00
Kılınç, Özen (88)	330	17.10	-	-	15.00	1.20	-	66.80	-
Engin, Korkmaz (90,91)	452	15.31	5.85	0.90	13.06	4.05	-	55.43	5.40
Karaer (93)	654	14.37	3.82	0.45	19.57	1.68	-	57.31	2.80
Özen (95)	696	20.75	-	-	13.79	4.32	1.01	54.95	5.18
Kutbay (95)	611	17.02	7.52	0.65	9.65	2.29	0.81	58.63	3.43

Furthermore, the presence of *Pinus brutia* was considered to be an indicator of the Mediterranean climate in the study area, as previously suggested by Zohary (1973).

The rates of taxa in each floristic region were compared to those in other studies carried out in the vicinity (Kılınç, 1985; Kılınç and Özen, 1988; Engin and Korkmaz, 1990; Kılınç, 1990; Engin and Korkmaz, 1991; Karaer and Kılınç, 1993; Özen and Kılınç, 1995; Kutbay and Kılınç, 1995).

Table 1 reveals that there is a great similarity between the studies carried out by Kılınç (1985, 1990) and the present study. The main reason for the agreement with Kılınç's work is the closeness of study areas and the similar climatologic, edaphic and topographic factors.

Although the endemism rate in the study area is lower than the rate of Turkey, it is twice as high as that of the Black Sea region (Ekim, 1993). Moreover, compared with floristic studies carried out nearby (Kılınç, 1985; Kılınç and Özen, 1988; Engin and Korkmaz, 1990; Kılınç, 1990; Engin and Korkmaz, 1991; Karaer and Kılınç, 1993; Özen and Kılınç, 1995; Kutbay and Kılınç, 1995), the rate of endemism is also more than double. The reason might be that this area has special microclimatic conditions, and that they have provided an advantage to the many species in geological periods for protection (Pignatti, 1978; Gemici, 1993; Kılınç and Korkmaz, 1997). The endemic species in the study area are especially distributed on calcareous bedrocks as mentioned in the literature (Gemici et al., 1992; Ekim, 1993). Furthermore, *Onosma subulifolium* Riedl (*Boraginaceae*) and *Acanthalimon caryophyllaceum* Boiss. subsp. *parviflorum* Bokhari (*Plumbaginaceae*) are local

endemics and are threatened due to flooding by the construction of the Boyabat Dam on the Kızılırmak (Korkmaz and Engin, 1995).

The rates of species and infraspecific taxa in each family in the flora of the study area and the comparison with other studies of nearby regions are represented in Table 2.

The richest families in terms of species and infraspecific taxa are *Fabaceae* (133), *Asteraceae* (108), *Poaceae* (67), *Lamiaceae* (63) and *Brassicaceae* (60). These are also the families including the largest numbers of species and infraspecific taxa in the Flora of Turkey. Table 2 also shows that the rates of the species in each family have the greatest agreement with Kılınç's study (1985, 1990).

The genera which have the richest species composition are represented in Table 3. *Astragalus* L. is the largest genus, with 28 species.

This genus is the richest one with regard to species number in Turkey, and is generally widespread in the steppic areas. In fact, the steppe vegetation develops on the deforested parts of *Pinus brutia*, *Pinus nigra* Arn. subsp. *pallasiana* (Lamb.) Holmboe and *Pinus sylvestris* L. (*Pinaceae*) forest (Korkmaz and Engin, 1997). However, *Trifolium* L. and *Galium* L. (17), *Verbascum* L. (16), *Lathyrus* L. (14), and *Centaurea* L. (13) are also represented by many species.

Some morphological characters different from those in the description given in the Flora of Turkey (Davis, 1965-1985) were observed in some plant specimens collected from the study area. The names of the species involved and their properties are given below (Table 4).

Table 2. A comparative representation of the rank of the major family by species number and rate (%) in the study area with some studies performed in nearby areas.

Families	Present study	Studies					
		Kılınç (85,90)	Kılınç,Özen (88)	Engin,Korkmaz (90,91)	Karaer (93)	Özen (95)	Kutbay (95)
<i>Fabaceae</i>	133/13.09	97/11.15	40/12.12	39/8.78	63/9.62	68/9.78	62/10.14
<i>Asteraceae</i>	108/10.62	95/10.92	42/12.72	60/13.51	68/10.39	72/10.35	71/11.62
<i>Poaceae</i>	67/6.59	69/7.93	14/4.24	28/6.30	54/8.25	49/7.04	42/6.87
<i>Lamiaceae</i>	63/6.20	50/5.74	24/7.27	22/4.95	34/5.19	40/5.75	41/6.87
<i>Brassicaceae</i>	60/5.90	52/5.97	9/2.72	24/5.40	22/3.36	27/3.88	22/3.60
<i>Caryophyllaceae</i>	43/4.23	40/4.59	12/3.63	15/3.37	25/3.82	23/3.30	16/2.61
<i>Rosaceae</i>	39/3.84	40/4.59	9/2.72	11/2.48	25/3.82	31/4.45	24/4.09
<i>Apiaceae</i>	38/3.74	35/4.02	11/3.33	10/2.25	22/3.36	24/3.45	20/3.27
<i>Scrophularia</i>	37/3.64	40/4.59	7/2.12	16/3.60	24/3.66	25/3.59	29/4.41
<i>Boraginaceae</i>	33/3.25	25/2.87	9/2.72	11/2.48	22/3.36	19/2.73	19/3.10

Genera	Number of Species	Genera	Number of Species
<i>Astragalus</i>	28	<i>Alyssum</i>	9
<i>Trifolium</i>	17	<i>Dianthus</i>	9
<i>Galium</i>	17	<i>Medicago</i>	9
<i>Verbascum</i>	16	<i>Allium</i>	9
<i>Lathyrus</i>	14	<i>Ranunculus</i>	8
<i>Centaurea</i>	13	<i>Minuartia</i>	8
<i>Campanula</i>	13	<i>Polygonum</i>	8
<i>Vicia</i>	13	<i>Hypericum</i>	8
<i>Euphorbia</i>	11	<i>Geranium</i>	8
<i>Silene</i>	10	<i>Trigonella</i>	8
<i>Stachys</i>	10	<i>Cirsium</i>	8

Table 3. Species totals of the large genera in the study area.

Species Name	Flora of Turkey	Present Study
<i>Hippocrepis ciliata</i>	petiolar glands absent	Petiolar and pedicelar glands present
<i>Lysimachia vulgaris</i>	stolon absent	Stolon present
<i>Linaria corifolia</i>	calyx lobes acute, glabrous	Calyx lobes obtuse, scabrid (especially on the margin and midrib)

Table 4. Different Morphological Characters of Some Species in the Study Area from the Flora of Turkey

Although it has been recorded with “petiolar glands absent” in the description of *Hippocrepis ciliata* Willd. (*Fabaceae*) in the Flora of Turkey (Davis, 1965-1985), we determined that the petiolar glands are present in the samples from the study area, and also pedicelar glands are observed on the base of pedicels. Therefore, the description of this species in the Flora of Turkey (Davis, 1965-1985) should be revised as “petiolar and pedicelar glands present or absent” or the population having petiolar and pedicelar glands should be considered a new taxon (subspecies or variety).

We also observed that while *Lysimachia vulgaris* L. (*Primulaceae*) collected from the study area has long stolons (approximately 45-50 cm), these structures are not mentioned in the description of this species in the Flora of Turkey (Davis, 1965-1985). As those structures are functional in the asexual reproduction of this species, the description must be rewritten as “plant erect, perennial and stoloniferous”.

In addition, the calyx lobes of *Linaria corifolia* Desf. (*Scrophulariaceae*) samples from the study area are obtuse and scabrid, especially on the margin of calyx lobes and midrib but calyx lobes have been described as “acute, glabrous” in the description of the species in the Flora of Turkey (Davis, 1965-1985). This species is widespread in Turkey, and such local morphological variations may be observed. Thus, the description of species must be

rewritten as “calyx lobes acute or obtuse, glabrous or scabrid, especially margin and midrib”.

The calyx length of *Ballota glandulosissima* Hub.-Mor.& Patzak (*Lamiaceae*) was recorded as “10-14 mm” in the description in the Flora of Turkey (Davis, 1965-1985), but the calyx length was given as “12-15 mm” in the species identification key of the genus *Ballota* L. (Davis, 1965-1985). These different measurements cause some difficulties in the identification of the species. In fact, calyx length of the samples from the study area was 10 mm. Thereby the measurements belonging to the calyx length have to be rearranged in the identification key.

In conclusion, this study area is floristically important due the fact that it is located at the transition zone between the Middle Black Sea and Central Anatolia, where Mediterranean enclave groups are also widely distributed. Unfortunately, the majority of the study area will be flooded due to the construction of the Boyabat Dam on the Kızılırmak. Therefore, it is believed that this study will document the floristic structure before the flood and it will allow us to observe how ecological differentiation will occur close the dam lake area in the future. Furthermore, this study may make up for the lack of descriptions of some species cited in the Flora of Turkey.

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## APPENDIX

The list of the vascular plant species, (nt) found on Boyabat (Sinop) Dam and its vicinity. The sequence of families, genera and species in the following list follows the system adopted in the Flora of Turkey (Davis, 1965-1985).

### PTERIDOPHYTA

#### EQUISETACEAE

*Equisetum hyemale* L.

Sinop: Saraydüzü, Fakılı village, Kışla district, 250 m, 20.6.1992, H.K 2476.

*E. arvense* L.

Çorum: Osmancık, Karalargüney village, Göbel, edge of pond, 1500 m, 25.9.1991, H.K 2134.

#### SINOPTERIDACEAE

*Cheilanthes persica* (Bory) Kuhn

Çorum: Osmancık, İnal village, Güvercinkaya gorge, on rocky slopes, 600 m, 7.5.1992, H.K 2290.

#### ADIANTACEAE

*Adiantum capillus-veneris* L.

Samsun: Vezirköprü, vicinity of Alan village, 1100 m, 27.6.1993, H.K 3148.

#### GYMNOGRAMMACEAE

*Anogramma leptophylla* (L.) Link

Samsun: Vezirköprü, Aşağısusuz village, Ardıçtepe, 450 m, 18.7.1991, H.K 1808.

#### ASPLENIACEAE

*Asplenium trichomanes* L.

Samsun: Vezirköprü, Aşağısusuz village, Ardıçtepe, 350 m, 26.6.1993, H.K 3065.

*A. ruta-muraria* L.

Sinop: Durağan, Kepez gorge, on rocky slopes, 300 m, 19.6.1991, H.K 1767.

*Ceterach officinarum* DC.

Çorum: Osmancık, İnal village, Güvercinkaya gorge, on rocky slopes, 600 m, 7.5.1992, H.K 2294.

*Phyllitis scolopendrium* (L.) Newman

Sinop: Durağan, Kepez gorge, on rocky slopes, 300 m, 23.6.1993, H.K 2773.

### ATHYRIACEAE

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

Samsun: Vezirköprü, vicinity of Yukarıdarıçay village, 800 m, 15.7.1992, H.K 2659.

### POLYPODIACEAE

*Polypodium vulgare* L. subsp. *vulgare*.

Çorum: Kargı, vicinity of Gölet village, 1200 m, 28.6.1993, H.K 3274.

### SPERMATOPHYTA

#### GYMNOSPERMAE

#### PINACEAE

*Abies nordmanniana* (Stev.) Spach subsp. *bornmuelleriana* (Mattf.) Coode & Cullen

Çorum: Kargı, Eğinönü Y., vicinity of Koğucak stream, 1400 m, 28.6.1993, H.K 3247.

End.; Eux. el. (nt).

*Pinus sylvestris* L.

Çorum: Kargı, Eğinönü Y., 1500 m, 28.6.1993, H.K 3245.

Euro-Sib. el.

*P. nigra* Arn. subsp. *pallasiana* (Lamb.) Holmboe

Samsun: Vezirköprü, vicinity of Alan village, 1200 m, 27.6.1993, H.K 3139.

*P. brutia* Ten.

Çorum: Osmancık, vicinity of İnal village, 750 m, 31.7.1991, H.K 1913.

E. Medit. el.

#### CUPRESSACEAE

*Juniperus communis* L. subsp. *alpina* Syme

Çorum: Kargı, Eğinönü Y., in *P. sylvestris* forest, 1600 m, 28.6.1993, H.K 3340.

*J. oxycedrus* L. subsp. *oxycedrus*.

Samsun: Vezirköprü, vicinity of Aşağıdarıçay village, 350 m, 18.7.1991, H.K 1801.

*J. excelsa* M.Bieb.

Sinop: Saraydüzü, Fakılı village, Kışla district 300 m, 20.6.1992, H.K 2471.

#### EPHEDRACEAE

*Ephedra major* Host

Samsun: Vezirköprü, vicinity of Aşağıdarıçay village, 400 m, 18.7.1991, H.K 1821.

### ANGIOSPERMAE

#### DICOTYLEDONES

#### RANUNCULACEAE

*Helleborus orientalis* L.

Samsun: Vezirköprü, vicinity of Yukarıdarıçay village, 700 m, 15.7.1992, H.K 2684.

Eux. el.

*Nigella orientalis* L.

Samsun: Vezirköprü, vicinity of Yukarıdarıçay village, 600 m, 15.7.1992, H.K 2649.

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

Samsun: Vezirköprü, vicinity of Aşağıdarıçay village, 400 m, 18.7.1991, H.K 1846.

*Consolida orientalis* (Gay) Schröd.

Sinop: Boyabat, vicinity of Kelperen village, 450 m, 28.6.1993, H.K 3228.

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

Sinop: Durağan, Kepez gorge, western slopes, 400 m, 23.6.1993, H.K 2820.

*C. hellespontica* (Boiss.) Chater

Çorum: Osmancık, vicinity of Deliler village, 500 m, 31.7.1991, H.K 1934.

*Clematis vitalba* L.

Çorum: Osmancık, vicinity of Karalargüney village, 1250 m, 4.8.1993, H.K 3831.

*C. orientalis* L.

Sinop: Durağan, Kepez gorge, western slopes, 400 m, 23.6.1993, H.K 2889.

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

Çorum: Osmancık, vicinity of İnal village, 600 m, 29.6.1993, H.K 3460.

*Ranunculus caucasicus* M.Bieb. subsp. *subleiocarpus* (Somers & Lév.) P.H.Davis

Çorum: Osmancık, Karalargüney village, Göbel, in *Fagus orientalis* Lipsky (*Fagaceae*) forest, 1400 m, 30.6.1993, H.K 3647.

*R. repens* L.

Çorum: Osmancık, Karalargüney village, Göbel, on moist grass, 1500 m, 4.6.1992, H.K 2405.

- R. illyricus* L. subsp. *illyricus*.  
Çorum: Kargı, Eğinönü Y., in *P. sylvestris* forest, 1600 m, 28.6.1993, H.K 3343.
- R. muricatus* L.  
Sinop: Durağan, Kepez gorge, damp place, 300 m, 24.6.1993, H.K 2956.
- R. chius* DC.  
Sinop: Durağan, vicinity of Kepez gorge, dry stream bed, 300 m, 22.4.1992, H.K 2175.
- R. arvensis* L.  
Çorum: Osmancık, vicinity of Karalargüney village, in *F. orientalis* forest, 1500 m, 4.6.1992, H.K 2446.
- R. lateriflorus* DC.  
Çorum: Osmancık, Karalargüney village, Gölbel, on moist grass, 1500 m, 2.7.1992, H.K 2556.
- R. trichophyllus* Chaix  
Çorum: Kargı, Eğinönü Y., edge of pools, 1500 m, 28.6.1993, H.K 3257.
- Thalictrum minus* L. var. *minus*.  
Çorum: Osmancık, Alibeyköy village, Akdeşdere, in *Quercus cerris* L. var. *cerris* forest, 800 m, 29.6.1993, H.K 3541.  
var. *majus* (Crantz) Crép.  
Sinop: Saraydüzü, Fakılı village, Zeytintürbe, in macchie, 400 m, 18.7.1991, H.K 1782.
- T. flavum* L.  
Çorum: Osmancık, İnal village, Güvercinkaya gorge, northern rocky slopes, 600 m, 7.5.1992, H.K 2279.
- BERBERIDACEAE**  
*Berberis crataegina* DC.  
Çorum: Kargı, vicinity of Maksutlu bridge, open ground, 300 m, 19.7.1991, H.K 1861.
- PAPAVERACEAE**  
*Chelidonium majus* L.  
Sinop: Durağan, vicinity of Kepez gorge, 300 m, 23.6.1993, H.K 2725.  
Euro-Sib. el.  
*Glaucium corniculatum* (L.) Rud. subsp. *corniculatum*.  
Çorum: Osmancık, vicinity of Deliler village, on fieldside, 500 m, 7.5.1992, H.K 2261.
- \*Papaver somniferum** L.  
Çorum: Osmancık, Karalargüney village, Gölbel, on fieldside, 1500 m, 2.7.1992, H.K 2559.
- P. lacerum* Popov  
Sinop: Durağan, Kepez gorge, 300 m, 24.6.1993, H.K 2950.
- P. commutatum* Fisch. & E.Mey.  
Çorum: Osmancık, Karalargüney village, in *Astragalus* steppe, 1200 m, 30.6.1993, H.K 3737.
- P. postii* Fedde  
Çorum: Kargı, Maksutlu village, Haftın, in *Astragalus* steppe, 600 m, 29.6.1993, H.K 3529.  
E. Medit. el.,(R).
- P. hybridum* L.  
Çorum: Osmancık, İnal village, Güvercinkaya gorge, 600 m, 29.6.1993, H.K 3147.
- Hypocoum imberbe* Sibth. & Sm.  
Çorum: Osmancık, vicinity of Ardiç village, dry stream bed, 500 m, 7.5.1992, H.K 2239.
- Fumaria officinalis* L.  
Sinop: Durağan, Kepez gorge, 300 m, 23.6.1993, H.K 2714.
- CRUCIFERAE (Brassicaceae)**  
*Sinapis arvensis* L.  
Çorum: Osmancık, Alibeyköy village, Akdeşdere, 800 m, 29.6.1993, H.K 3768.
- Hirschfeldia incana* (L.) Lag.-Foss.  
Sinop: Saraydüzü, Fakılı village, vicinity of Kışla district, 300 m, 20.6.1992, H.K 2525.
- Diploaxis muralis* (L.) DC.  
Çorum: Osmancık, İnal village, Güvercinkaya gorge, 600 m, 7.5.1992, H.K 2283.  
(V).
- Raphanus raphanistrum* L.  
Çorum: Kargı, vicinity of Maksutlu bridge, 300 m, 19.7.1991, H.K 1883.
- Calepina irregularis* (Asso) Thell.  
Çorum: Osmancık, vicinity of İnal village, 600 m, 7.5.1992, H.K 2267.
- Rapistrum rugosum* (L.) All.  
Çorum: Osmancık, vicinity of İnal village, 600 m, 4.8.1993, H.K 3811.
- Conringia orientalis* (L.) Andrz.  
Sinop: Saraydüzü, Fakılı village, Zeytintürbe, in macchie, 350 m, 20.5.1992, H.K 2334.
- C. planisiliqua* Fisch. & C.A.Mey.  
Sinop: Durağan, vicinity of Kepez gorge, in *P. brutia* forest, 400 m, H.K 2825.  
Ir.-Tur. el.
- C. perfoliata* (C.A.Mey.) Busch  
Çorum: Osmancık, vicinity of İnal village, in *J. excelsa* woods, 600 m, 29.6.1993, H.K 3448.
- Lepidium campestre* L.  
Çorum: Osmancık, Karalargüney village, 1200 m, 4.6.1992, H.K 2387.
- L. sativum* L. subsp. *sativum*.  
Samsun: Vezirköprü, Alan village, on fieldside, 1100 m, 27.6.1993, H.K 3147.
- L. ruderales* L.  
Samsun: Vezirköprü, Aşağısusuz village, on roadside, 350 m, 26.6.1993, H.K 3068.
- Cardaria draba* (L.) Desv. subsp. *draba*.  
Samsun: Vezirköprü, Yukarıdarıçay village, Dere district, on fieldside, 600 m, 26.6.1993, H.K 3118.
- Iberis taurica* DC.  
Sinop: Durağan, Kepez gorge, in macchie, 300 m, 24.6.1993, H.K 2938.
- Aethionema arabicum* (L.) Andrz. ex DC.  
Çorum: Osmancık, Karalargüney village, Gölbel, 1450 m, 2.7.1992, H.K 2557.
- Thlaspi perfoliatum* L.  
Sinop: Durağan, vicinity of Kepez gorge, in *P. brutia* forest, 300 m, 22.4.1992, H.K 2226
- T. annuum* Koch  
Sinop: Durağan, Kepez gorge, open ground, 300 m, 23.6.1993, H.K 2715.
- T. violascens* Boiss.  
Samsun: Vezirköprü, Alan village, in fallow fields, 1200 m, 27.6.1993, H.K 3144.  
End., (nt).

- Hutchinsia petraea** (L.) R.Braga  
Sinop: Durağan, vicinity of Kepez gorge, 250 m, 19.6.1993, H.K 1750.
- Capsella bursa-pastoris** (L.) Medik.  
Samsun: Vezirköprü, Alan village, on roadside, 1100 m, 27.6.1993, H.K 3160.  
Cosmp.
- Neslia apiculata** Fisch.  
Çorum: Osmancık, İnal village, in *J. excelsa* woods, 600 m, 29.6.1993, H.K 3450.
- Fibigia eriocarpa** (DC.) Boiss.  
Çorum: Osmancık, graveyard of Aşağızeytin village, 400 m, 14.8.1991, H.K 2105.
- Berteroa mutabilis** (Vent.) DC.  
Çorum: Osmancık, Karalargüney village, on fieldside, 1300 m, 4.6.1992, H.K 2336.
- Alyssum linifolium** Steph. ex Willd. var. *linifolium*.  
Sinop: Saraydüzü, Fakılı village, Kışla district, open ground, 550 m, 25.6.1993, H.K 2990.
- A. alyssoides** (L.) L.  
Sinop: Saraydüzü, Fakılı village, Kışla district, 500 m, 25.6.1993, H.K 3008.
- A. desertorum** Stapf. var. *desertorum*.  
Çorum: Osmancık, Karalargüney village, southern slopes, in *Astragalus* steppe, 1200 m, 30.6.1993, H.K 3699.
- A. minus** (L.) Rothm. var. *micranthum* (E.Mey.) Dudley  
Sinop: Durağan, vicinity of Kepez gorge, 250 m, 23.6.1993, H.K 2815.
- A. hirsutum** M.Bieb. var. *hirsutum*.  
Çorum: Kargı, Demirören village, in *J. excelsa* woods, 350 m, 28.6.1993, H.K 3395.
- A. armenum** Boiss.  
Çorum: Osmancık, Karalargüney village, Göbel, open ground, 1400 m, 30.6.1993, H.K 3622.
- A. pateri** Nyár. subsp. *pateri*.  
Çorum: Osmancık, vicinity of Deliler village, in *P. brutia* woods, 500 m, 7.5.1992, H.K 2335.  
End.; Ir.-Tur. el.
- A. sibiricum** Willd.  
Sinop: Durağan, Kepez gorge, southern rocky slopes, 300 m, 24.6.1993, H.K 2937.
- A. murale** Waldst. & Kit. var. *murale*.  
Çorum: Osmancık, Karalargüney village, 1400 m, 4.6.1992, H.K 2400.
- Clypeola jonthlasi** L.  
Sinop: Saraydüzü, Fakılı village, Kışla district, open ground, 300 m, 20.6.1992, H.K 2496.
- Draba rigida** Willd. var. *rigida*.  
Çorum: Osmancık, İnal village, Güvercinkaya gorge, on rocky slopes, 600 m, 7.5.1992, H.K 2278.  
End., (nt).
- Erophila verna** (L.) Chevall. subsp. *verna*.  
Çorum: Kargı, Eğinönü Y., in *P. sylvestris* forest, 1500 m, 28.6.1993, H.K 3314.
- Arabis turrita** L.  
Samsun: Vezirköprü, vicinity of Yukarıdarıçay village, 800 m, 15.7.1992, H.K 2678.
- A. caucasica** Willd. subsp. *caucasica*.  
Sinop: Durağan, vicinity of Kepez gorge, in *P. brutia* forest, 300 m, 22.4.1992, H.K 2179.
- A. sagittata** (Bertol.) DC.  
Çorum: Osmancık, Karalargüney village, Göbel, 1500 m, 4.6.1992, H.K 2420.
- A. nova** Vill.  
Çorum: Kargı, Eğinönü Y., in *Astragalus* steppe, 1600 m, 28.6.1993, H.K 3374.
- A. verna** (L.) DC.  
Çorum: Osmancık, Karalargüney village, in *Astragalus* steppe, 1250 m, 30.6.1993, H.K 3695.  
Medit.el.
- Nasturtium officinale** R.Braga  
Sinop: Durağan, Kepez gorge, southern slopes, damp place, 300 m, 24.6.1993, H.K 2933.
- Rorippa sylvestre** (L.) Bessey  
Çorum: Kargı, vicinity of Kargı village, Haftın, on damp ground, 550 m, 29.6.1993, H.K 3516.
- Barbarea plantaginea** DC.  
Çorum: Osmancık, vicinity of Karalargüney village, 1400 m, 4.6.1992, H.K 2398.
- Cardamine bulbifera** (L.) Crantz  
Çorum: Osmancık, Karalargüney village, Göbel, in *F. orientalis* forest, 1500 m, 4.6.1992, H.K 2385.  
Euro-Sib. el.
- C. uliginosa** M.Bieb.  
Çorum: Osmancık, Karalargüney village, Göbel, on moist grass, 1500 m, 4.6.1992, H.K 2373.
- C. impatiens** L. var. *pectinata* (Palla) Trautv.  
Çorum: Kargı, Eğinönü Y., in *Abies* & *Fagus* forest, 1300 m, 28.6.1993, H.K 3249.  
Euro-Sib. el.
- C. hirsuta** L.  
Çorum: Osmancık, vicinity of Karalargüney village, in *Astragalus* steppe, 1250 m, 30.6.1993, H.K 3697.  
Cosmp.
- Aubrieta canescens** (Boiss.) Bornm. subsp. *cilicica* (Boiss.) Cullen  
Sinop: Durağan, Kepez gorge, in *P. brutia* forest, 300 m, 22.4.1992, H.K 2202.  
End., (nt).
- Hesperis bicuspidata** (Willd.) Poir.  
Çorum: Osmancık, vicinity of Alibeyköy village, open ground, 800 m, 29.6.1993, H.K 3533.
- Erysimum cuspidatum** (M.Bieb.) DC.  
Çorum: Osmancık, Alibeyköy village, Akdeşdere, in *Q. cerris* var. *cerris* forest, 850 m, 29.6.1993, H.K 3532.
- E. goniocaulon** Boiss.  
Çorum: Osmancık, Karalargüney village, Göbel, 1400 m, 30.6.1993, H.K 3621.
- E. pulchellum** (Willd.) Gay  
Çorum: Osmancık, Alibeyköy village, Akdeşdere, in *Q. cerris* var. *cerris* forest, 850 m, 29.6.1993, H.K 3535.
- E. crassipes** Fisch. & C.A.Mey.  
Çorum: Kargı, Maksutlu village, Haftın, in *Astragalus* steppe, 600 m, 29.6.1993, H.K 3517.

**E. eginense** Hausskn. ex Bornm.

Sinop: Durağan, vicinity of Kepez gorge, 300 m, 19.6.1991, H.K 1755. End., (nt).

**E. smyrnaeum** Boiss. & Bal.

Çorum: Osmancık, Karalargüney village, southern slopes, 30.6.1993, H.K 3698.

**Alliaria petiolata** (M.Bieb.) Cavara & Grande

Samsun: Vezirköprü, Yukarıdarıçay village, Doğanıyvası, in *Carpinus orientalis* Mill. subsp. *orientalis* (Corylaceae) forest, 850 m, 27.6.1993, H.K 3203.

**Sisymbrium orientale** L.

Çorum: Osmancık, vicinity of İnal village, in *J. excelsa* woods, 600 m, 29.6.1993, H.K 3449.

**S. loeselii** L.

Çorum: Osmancık, vicinity of Deliler village, on roadside, 500 m, 7.5.1992, H.K 2259.

**Arabidopsis thaliana** Heynh.

Çorum: Kargı, Eğinönü Y., in *P. sylvestris* forest, 1500 m, 28.6.1993, H.K 3315.

**Camelina microcarpa** Crantz

Çorum: Osmancık, vicinity of Deliler village, on roadside, 500 m, 7.5.1992, H.K 2258.

**CAPPARACEAE****Capparis ovata** Desf. var. *herbacea* (Willd.) Zohary

Samsun: Vezirköprü, vicinity of Aşağıdarıçay village, base of valley, 250 m, 18.7.1991, H.K 1849.

**Cleome steveniana** Schult.

Çorum: Osmancık, vicinity of Deliler village, on dry stream bed, 500 m, 31.7.1991, H.K 1912.

**RESEDACEAE****Reseda inodora** Reichb.

Çorum: Kargı, vicinity of Maksutlu bridge, open ground, 300 m, 19.7.1991, H.K 1867.

**Reseda lutea** L. var. *lutea*.

Çorum: Osmancık, vicinity of Karalargüney village, on roadside, 1350 m, 1.8.1991, H.K 1977.

**CISTACEAE****Cistus creticus** L.

Sinop: Durağan, vicinity of Kepez gorge, in *P. brutia* forest, 350 m, 19.6.1991, H.K 1745.

Omni-Medit. el.

**C. salviifolius** L.

Samsun: Vezirköprü, Yukarıdarıçay village, in *P. brutia* forest, 500 m, 20.5.1992, H.K 2329.

**C. laurifolius** L.

Samsun: Vezirköprü, Alan village, in *P. nigra* subsp. *pallasiana* forest, 1200 m, 27.6.1993, H.K 3171.

Medit. el.

**Helianthemum nummularium** (L.) Mill. subsp. *nummularium*.

Çorum: Osmancık, vicinity of İnal village, open ground, 600 m, 7.5.1992, H.K 2266.

subsp. *tomentosum* (Scop.) Schinz. & Thell.

Samsun: Vezirköprü, Aşağıdarıçay village, in *P. brutia* forest, 450 m, 20.5.1992, H.K 2346.

**H. canum** (L.) Baumg. Group C

Çorum: Osmancık, vicinity of İnal village, open ground, 600 m, 7.5.1992, H.K 2264.

**H. salicifolium** (L.) Mill.

Çorum: Osmancık, vicinity of İnal village, in *J. excelsa* woods, 600 m, 29.6.1993, H.K 3470.

**Fumana arabica** (L.) Spach var. *arabica*.

Samsun: Vezirköprü, vicinity of Yukarıdarıçay village, in *P. brutia* forest, 700 m, 15.7.1992, H.K 2683.

**F. paphlagonica** Bornm. & Janch.

Çorum: Osmancık, İnal village, open ground, 600 m, 7.5.1992, H.K 2243.

Ir.-Tur. el.

**F. thymifolia** (L.) Verlot var. *thymifolia*.

Sinop: Durağan, Kepez gorge, southern slopes, in macchie, 300 m, 24.6.1993, H.K 2919.

Medit. el.

var. *viridis* (Ten.) Boiss.

Sinop: Saraydüzü, Fakılı village, Zeytintürbe, in macchie, 300 m, 18.7.1991, H.K 1829.

Medit.el

**VIOLACEAE****Viola odorata** L.

Sinop: Durağan, Kepez gorge, damp place, 300 m, 24.6.1993, H.K 2955.

**V. sieheana** Becker

Çorum: Osmancık, Karalargüney village, Gölbel, in *F. orientalis* forest, 1500 m, 4.6.1992, H.K 2367.

**V. parvula** Tineo

Çorum: Kargı, Eğinönü Y., in *P. sylvestris* forest, 1500 m, 28.6.1993, H.K 3339.

**V. kitaibeliana** Roem. & Schult.

Çorum: Osmancık, İnal village, Güvercinkaya gorge, 600 m, 7.5.1992, H.K 2289.

**POLYGALACEAE****Polygala supina** Schreib.

Çorum: Osmancık, Karalargüney village, Gölbel, in *F. orientalis* forest, 1500 m, 4.6.1992, H.K 2413.

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

Sinop: Durağan, vicinity of Kepez gorge, in *P. brutia* forest, 300 m, 19.6.1991, H.K 1739.

**P. anatolica** Boiss. & Heldr.

Çorum: Osmancık, Karalargüney village, open ground, 1450 m, 4.6.1992, H.K 2427.

**P. comosa** Schkuhr

Sinop: Durağan, Kepez gorge, in *P. brutia* forest, 350 m, 23.6.1993, H.K 2840.

**P. alpestris** Reichb.

Çorum: Kargı, Eğinönü Y., southern slopes, 1600 m, 28.6.1993, H.K 3372.

Euro-Sib. el.

**PORTULACACEAE****Portulaca oleraceae** L.

Çorum: Osmancık, vicinity of Deliler village, on fieldside, 600 m, 24.9.1991, H.K 2162.

**CARYOPHYLLACEAE****Arenaria filicaulis** Fenzl subsp. *filicaulis*.

Çorum: Osmancık, İnal village, Güvercinkaya gorge, on rocky slopes, 650 m, 7.5.1992, H.K 2284.

(V).

- A. serpyllifolia** L.  
Çorum: Kargı, Eğinönü Y., in *P. sylvestris* forest, 1500 m, 28.6.1993, H.K 3291.
- Minuartia hirsuta** (M.Bieb.) Hand.-Mazz. subsp. *falcata* (Gris) Mattf.  
Çorum: Kargı, Eğinönü Y., in *P. sylvestris* forest, 1600 m, 28.6.1993, H.K 3292.
- M. juniperina** (L.) Maire & Petitm.  
Çorum: Osmancık, İnal village, Güvercinkaya gorge, on rocky slopes, 600 m, 7.5.1992, H.K 2276.
- M. multinervis** (Boiss.) Bornm.  
Çorum: Kargı, Demirören village, in *J. excelsa* woods, 300 m, 28.6.1993, H.K 3392.
- M. intermedia** (Boiss.) Hand.-Mazz.  
Sinop: Saraydüzü, Fakılı village, Kışla district, in *P. brutia* forest, 400 m, 25.6.1993, H.K 3391.
- M. sclerantha** (Fisch. & C.A.Mey.) Thell.  
Çorum: Osmancık, İnal village, Güvercinkaya gorge, on rocky slopes, 600 m, 7.5.1992, H.K 2298.  
Ir.-Tur. el.
- M. anatolica** (Boiss.) Woron. var. *arachnoidea* McNeill  
Çorum: Kargı, vicinity of Maksutlu bridge, open ground, 300 m, 19.7.1991, H.K 1875.  
End.; Ir.-Tur. el., (nt).
- M. erythrosepala** (Boiss.) Hand.-Mazz. var. *erythrosepala*.  
Çorum: Kargı, Eğinönü Y., in *Astragalus* steppe, 1600 m, 28.6.1993, H.K 3351.
- M. micrantha** Schischk.  
Çorum: Osmancık, İnal village, Güvercinkaya gorge, on rocky slopes, 600 m, 7.5.1992, H.K 2275.
- Moehringia trinervia** (L.) Clairv.  
Sinop: Saraydüzü, Fakılı village, Kışla district, 300 m, 25.6.1993, H.K 2964.
- Stellaria media** (L.) Vill. subsp. *media*.  
Çorum: Osmancık, Karalargüney village, Göbel, in *F. orientalis* forest, 1500 m, 30.6.1993, H.K 3662.
- S. holostea** L.  
Çorum: Osmancık, İnal village, Güvercinkaya gorge, 600 m, 3.7.1992, H.K 2628.  
Euro-Sib. el.
- Cerastium glomeratum** Thuill.  
Samsun: Vezirköprü, vicinity of Alan village, 1100 m, 27.6.1993, H.K 3162.  
Cosmp.
- C. brachypetalum** Pers. subsp. *roeseri* (Boiss. & Heldr.) Nyman  
Çorum: Osmancık, Alibeyköy village, Akdeşdere, 850 m, 29.6.1993, H.K 3534.
- Holosteum marginatum** C.A.Mey.  
Çorum: Osmancık, vicinity of İnal village, 650 m, 29.6.1993, H.K 3484.
- Moenchia mantica** (L.) Bartl. subsp. *mantica*.  
Çorum: Osmancık, Karalargüney village, Göbel, in *F. orientalis* forest, 1500 m, 2.7.1992, H.K 2569.
- Telephium imperati** L. subsp. *orientale* (Boiss.) Nyman  
Çorum: Osmancık, vicinity of Deliler village, dry stream bed, 500 m, 7.5.1992, H.K 2262.
- Dianthus leucophaeus** Sibth. & Sm. var. *leucophaeus*.  
Çorum: Osmancık, vicinity of Aşağızeytin village, in *P. brutia* forest, 400 m, 14.8.1991, H.K 2100.  
End., (nt).
- D. balansae** Boiss.  
Sinop: Durağan, vicinity of Kepez gorge, on rocky slopes, 400 m, 24.6.1993, H.K 2917.  
End., (nt).
- D. floribundus** Boiss.  
Sinop: Saraydüzü, Fakılı village, Kışla district, 350 m, 25.6.1993, H.K 2963.  
Ir.-Tur. el.
- D. orientalis** Adams  
Çorum: Kargı, Maksutlu village, Haftın, in *Astragalus* steppe, 600 m, 29.6.1993, H.K 3523.
- D. kastembeluensis** Freyn & Sint.  
Çorum: Kargı, Demirören village, in *J. excelsa* wood, 300 m, 28.6.1993, H.K 3390.  
End.; Eux. el., (nt).
- D. zonatus** Fenzl var. *aristatus* (Boiss.) Reeve  
Çorum: Osmancık, vicinity of İnal village, in *P. brutia* forest, 600 m, 3.7.1992, H.K 2608.
- D. carmelitarum** Reut. ex Boiss.  
Çorum: Osmancık, vicinity of Karalargüney village, 1450 m, 4.6.1992, H.K 2365.  
End.; Eux. el., (nt).
- D. calocephalus** Boiss.  
Çorum: Osmancık, vicinity of Alibeyköy village, 800 m, 29.6.1993, H.K 3560.
- D. capitatus** Balb. ex DC.  
Sinop: Durağan, vicinity of Kepez gorge, in *P. brutia* forest, 400 m, 23.6.1993, H.K 2891.  
Euro-Sib. el., (V).
- Petrorhagia cretica** (L.) Ball & Heywood  
Çorum: Kargı, Demirören village, in *J. excelsa* wood, 300 m, 28.6.1993, H.K 3393.
- P. alpina** (Habl.) Ball & Heywood subsp. *olympica* (Boiss.) Ball & Heywood.  
Çorum: Kargı, Eğinönü Y., in *P. sylvestris* forest, 1500 m, 28.6.1993, H.K 3293.
- P. prolifera** (L.) Ball & Heywood  
Samsun: Vezirköprü, Aşağısusuz village, Ardiçtepe, in macchie, 350 m, 26.6.1993, H.K 3062.
- Velezia rigida** L.  
Çorum: Osmancık, vicinity of İnal village, in *J. excelsa* wood, 600 m, 29.6.1993, H.K 3433.
- Saponaria prostrata** Willd. subsp. *prostrata*.  
Çorum: Kargı, Maksutlu village, Haftın, open ground, 550 m, 29.6.1993, H.K 3486.  
End; Ir.-Tur. el., (nt).
- Vaccaria pyramidata** Medik. var. *grandiflora* (Fisch. ex DC.) Cullen  
Sinop: Boyabat, vicinity of Kelperen village, open ground, 450 m, 28.6.1993, H.K 3226.
- Silene italica** (L.) Pers.  
Samsun: Vezirköprü, Alan village, in *P. nigra* subsp. *pallasiana* forest, 1100 m, 27.6.1993, H.K 3161.
- S. olympica** Boiss.  
Çorum: Kargı, Eğinönü Y., in *P. sylvestris* forest, 1500 m, 28.6.1993, H.K 3290.  
End., (nt).

**S. otites** (L.) Wibel

Sinop: Durağan, vicinity of Kepez gorge, in *P. brutia* forest, 300 m, 22.4.1992, H.K 2189

**S. supina** M.Bieb. subsp. **pruinosa** (Boiss.) Chowdhuri

Çorum: Osmancık, vicinity of Karalargüney village, 1400 m, 1.8.1991, H.K 2070.

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

Çorum: Kargı, Eğinönü Y., in mixed forest of *Abies* & *Fagus*, 1500 m, 30.6.1993, H.K 3251.

**S. rhynchocarpa** Boiss.

Çorum: Osmancık, İnal village, Güvercinkaya gorge, on rocky slopes, 650 m, 29.6.1993, H.K 3423.

**S. caryophylloides** (Poir.) Otth subsp. **subulata** (Boiss.) Coode & Cullen

Çorum: Osmancık, İnal village, Güvercinkaya gorge, on rocky slopes, 600 m, 3.7.1992, H.K 2609.

**S. alba** (Mill.) Krause subsp. **ericalycina** (Boiss.) Walters

Çorum: Osmancık, vicinity of İnal village, open ground, 600 m, 7.5.1992, H.K 2255.

**S. dichotoma** Ehrend. subsp. **dichotoma**.

Sinop: Durağan, Kepez gorge, in *P. brutia* forest, 300 m, 19.6.1991, H.K 1769.

**S. subconica** Friv.

Çorum: Kargı, Maksutlu village, Haftın, in *Astragalus* steppe, 600 m, 29.6.1993, H.K 3485.

## ILLECEBRACEAE

**Herniaria hirsuta** L.

Çorum: Osmancık, vicinity of Deliler village, dry stream bed, 500 m, 7.5.1992, H.K 2245.

**H. incana** Lam.

Çorum: Kargı, İnal village, in *J. excelsa* wood, 600 m, 29.6.1993, H.K 3476.

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

Samsun: Vezirköprü, Aşağısusuz village, Ardiçtepe, in macchie, 350 m, 26.6.1993, H.K 3061.

## POLYGONACEAE

**Polygonum bistorta** L. subsp. **bistorta**.

Çorum: Osmancık, Karalargüney village, open ground, 1500 m, 4.6.1992, H.K 2438.

Euro-Sib. el.

**P. amphibium** L.

Çorum: Osmancık, Karalargüney village, Gölbel, in pasture, 1500 m, 25.9.1991, H.K 2126.

**P. salicifolium** Brouss. ex Willd.

Çorum: Osmancık, Karalargüney village, Gölbel, in swamp, 1500 m, 2.7.1992, H.K 2554.

**P. lapathifolium** L.

Çorum: Kargı, Eğinönü Y., on streamside, 1500 m, 28.6.1993, H.K 3346.

**P. setosum** Jacq.

Çorum: Osmancık, Karalargüney village, on roadside, 1500 m, 1.8.1991, H.K 1954.

Ir.-Tur. el.

**P. aviculare** L.

Çorum: Kargı, vicinity of Maksutlu bridge, open ground, 300 m, 19.7.1991, H.K 1864.

Cosmp.

**P. bellardii** All.

Çorum: Kargı, Maksutlu village, Haftın, open ground, 600 m, 29.6.1993, H.K 3529.

**P. convolvulus** L.

Samsun: Vezirköprü, Aşağısusuz village, Ardiçtepe, in macchie, 350 m, 26.6.1993, H.K 3081.

**Rumex acetosella** L.

Çorum: Osmancık, vicinity of Karalargüney village, in fallow fields, 1400 m, 2.7.1992, H.K 2595.

Cosmp.

**R. scutatus** L.

Çorum: Osmancık, vicinity of Karalargüney village, open ground, 1400 m, 1.8.1991, H.K 2049.

**R. tuberosus** L. subsp. **tuberosus**.

Çorum: Osmancık, Karalargüney village, 1500 m, 1.8.1991, H.K 2048

**R. obtusifolius** L. subsp. **obtusifolius**.

Sinop: Saraydüzü, Fakılı village, Kışla district, edges of rice field, 300 m, 20.6.1992, H.K 2477.

## CHENOPODIACEAE

**Beta trigyna** Waldst. & Kit.

Çorum: Osmancık, vicinity of Alibeyköy village, in fallow field, 850 m, 29.6.1993, H.K 3546.

**Chenopodium foliosum** (Moench) Asch.

Çorum: Osmancık, Karalargüney village, on fieldside, 1500 m, 1.8.1991, H.K 1978.

**C. murale** L.

Samsun: Vezirköprü, vicinity of Aşağıdarıçay village, 350 m, 20.5.1992, H.K 2320.

Cosmp.

**Camphorosma monspeliaca** L. subsp. **monspeliaca**.

Çorum: Kargı, vicinity of Sinanözü village, open ground, 400 m, 4.8.1993, H.K 3778.

**Salsola ruthenica** Iljin

Çorum: Osmancık, vicinity of Deliler village, on roadside, 600 m, 24.9.1991, H.K 2161.

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

Çorum: Kargı, Sinanözü village, open ground, 400 m, 4.8.1993, H.K 3798.

## AMARANTHACEAE

**Amaranthus deflexus** L.

Çorum: Osmancık, Alibeyköy village, 800 m, 29.6.1993, H.K 3543.

## MOLLUGINACEAE

**Mollugo cerviana** (L.) Ser.

Çorum: Osmancık, vicinity of Deliler village, dry stream bed, 400 m, 31.7.1991, H.K 1914,

(K).

## TAMARICACEAE

**Tamarix tetrandra** Pall. ex M.Bieb.

Çorum: Osmancık, Aşağızeytin village, in *P. brutia* forest, 400 m, 14.8.1991, H.K 2096.

**Myricaria germanica** (L.) Desv.

Çorum: Osmancık, vicinity of Karalargüney village, on streamside, 950 m, 1.8.1991, H.K 1970.

**GUTTIFERAE (Clusiaceae)**

**Hypericum linarioides** Bosse

Çorum: Kargı, Eğinönü Y., in *P. sylvestris* forest, 1600 m, 28.6.1993, H.K 3342.

**H. perforatum** L.

Samsun: Vezirköprü, Aşağısusuz village, Ardıçtepe, in macchie, 400 m, 26.6.1993, H.K 3079.

Medit. el.

**H. montbretii** Spach

Samsun: Vezirköprü, Yukarıdarıçay village, Doğanıyvası, 800 m, 27.6.1993, H.K 3199.

**H. orientale** L.

Çorum: Kargı, Eğinönü Y., in mixed forest of Abies & Fagus, 1300 m, 28.6.1993, H.K 3382.

**H. origanifolium** Willd.

Çorum: Osmancık, vicinity of İnal village, 650 m, 7.5.1992, H.K 2265.

**H. aviculariifolium** Jaub. & Spach subsp. **depilatum** (Freyn & Bornm.) Robson var. **depilatum**.

Sinop: Durağan, Kepez gorge, in macchie, 350 m, 24.6.1993, H.K 2907.

End.; Ir.-Tur. el., (nt).

**H. tetrapterum** Friesen

Çorum: Osmancık, vicinity of Deliler village, 500 m, 7.5.1992, H.K 2236.

**H. perforatum** L.

Çorum: Osmancık, Karalargüney village, open ground, 1400 m, 1.8.1991, H.K 1994.

**MALVACEAE**

**Malva sylvestris** L.

Çorum: Osmancık, Aşağızeytin village, 350 m, 14.8.1991, H.K 2112.

**M. neglecta** Wallr.

Çorum: Kargı, vicinity of Maksutlu bridge, open ground, 300 m, 19.7.1991, H.K 1865.

**Alcea apterocarpa** (Fenzl) Boiss.

Sinop: Durağan, vicinity of Kepez gorge, 300 m, 3.8.1993, H.K 3773.

End.; Ir.-Tur. el., (nt).

**Althaea cannabina** L.

Samsun: Vezirköprü, Yukarıdarıçay village, Dere district, 650 m, 26.6.1993, H.K 3123.

**A. officinalis** L.

Çorum: Osmancık, vicinity of Deliler village, dry stream bed, 600 m, 31.7.1991, H.K 1905.

**A. hirsuta** L.

Çorum: Osmancık, vicinity of Deliler village, open ground, 500 m, 7.5.1992, H.K 2260.

**LINACEAE**

**Linum flavum** L. subsp. **scabrinerve** (P.H.Davis) P.H.Davis

Samsun: Vezirköprü, Aşağıdarıçay village, in *P. brutia* forest, 350 m, 20.5.1992, H.K 2340.

End.; Ir.-Tur. el., (nt).

**L. nodiflorum** L.

Samsun: Vezirköprü, Yukarıdarıçay village, Dere district, 600 m, 26.6.1993, H.K 3109. Medit. el.

**L. corymbulosum** Reichb.

Sinop: Saraydüzü, Fakılı village, Zeytintürbe, southern slopes, in macchie, 400 m, 18.7.1991, H.K 1794.

Medit. el.

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

Sinop: Boyabat, between Uluköy and Başşekim villages, open ground, 550 m, 28.6.1993, H.K 3223.

End.; Ir.-Tur. el., (nt).

**L. tenuifolium** L.

Sinop: Durağan, vicinity of Kepez gorge, in *P. brutia* forest, 300 m, 19.6.1991, H.K 1733.

**L. bienne** Mill.

Çorum: Osmancık, İnal village, in *J. excelsa* wood, 600 m, 29.6.1993, H.K 3451.

Medit. el.

**L. catharticum** L.

Çorum: Osmancık, vicinity of Alibeyköy village, 950 m, 1.8.1991, H.K 2004.

Euro-Sib. el.

**GERANIACEAE**

**Geranium lucidum** L.

Samsun: Vezirköprü, Yukarıdarıçay village, Doğanıyvası, 850 m, 27.6.1993, H.K 3194.

**G. purpureum** Vill.

Sinop: Durağan, vicinity of Kepez gorge, in *P. brutia* forest, 350 m, 19.6.1991, H.K 1741.

**G. robertianum** L.

Çorum: Osmancık, Karalargüney village, Gölbel, in *F. orientalis* forest, 1500 m, 2.7.1992, H.K 2602.

**G. columbinum** L.

Samsun: Vezirköprü, Aşağısusuz village, Ardıçtepe, in macchie, 350 m, 26.6.1993, H.K 3082.

**G. libanoticum** Schenk

Sinop: Durağan, vicinity of Kepez gorge, in *P. brutia* forest, 350 m, 22.4.1992, H.K 2174.

**G. macrostylum** Boiss.

Çorum: Kargı, Eğinönü Y., in *P. sylvestris* forest, 1600 m, 28.6.1993, H.K 3343.

**G. asphodeloides** Burm. subsp. **sintenisii** (Freyn) P.H.Davis

Çorum: Osmancık, vicinity of Karalargüney village, 1250 m, 1.8.1991, H.K 1941.

**G. pyrenaicum** Burm.

Çorum: Osmancık, İnal village, Güvercinkaya gorge, 600 m, 7.5.1992, H.K 2296.

**Erodium hoefftianum** C.A.Mey.

Çorum: Kargı, Maksutlu village, Haftın, in *Astragalus* steppe, 650 m, 29.6.1993, H.K 3509.

**E. ciconium** (L.) L'Hér.

Çorum: Osmancık, İnal village, Güvercinkaya gorge, 600 m, 29.6.1993, H.K 3420.

**E. amanum** Boiss. & Kotschy

Çorum: Osmancık, vicinity of İnal village, in *J. excelsa* wood, 600 m, 29.6.1993, H.K 3431.

**ZYGOPHYLLACEAE**

**Tribulus terrestris** L.

Çorum: Osmancık, Deliler village, in fallow fields, 500 m, 24.9.1991, H.K 2158.

**Peganum harmala L.**

Samsun: Vezirköprü, vicinity of Aşağıdarıçay village, on roadside, 250 m, 18.7.1991, H.K 1848.

**RUTACEAE****Haplophyllum thesioides (Fisch. ex DC.)**

G.Don

Samsun: Vezirköprü, Aşağıdarıçay village, open ground, 450 m, 20.5.1992, H.K 2326.

**H. armenum Spach**

Sinop: Saraydüzü, Fakılı village, Zeytintürbe, open ground, 400 m, 18.7.1991, H.K 1793.

End., (nt).

**Dictamnus albus L.**

Sinop: Durağan, vicinity of Kepez gorge, in *P. brutia* forest, 300 m, 22.4.1992, H.K 2223.

**ACERACEAE****A. campestre L. subsp. campestre.**

Çorum: Osmançık, Alibeyköy village, Akdeşdere, in *Q. cerris* var. *cerris* forest, 800 m, 29.6.1993, H.K 3542.

**VITACEAE****\*Vitis sylvestris C.C.Gmel.**

Çorum: Osmançık, Aşağızeytin village, 350 m, 14.8.1991, H.K 2109.

**RHAMNACEAE****Paliurus spina-christi Mill.**

Çorum: Osmançık, vicinity of Deliler village, disturbed area, 500 m, 31.7.1991, H.K 1937.

**ANACARDIACEAE****Cotynus coggryia Scop.**

Sinop: Durağan, vicinity of Kepez gorge, in *P. brutia* forest, 250 m, 19.6.1991, H.K 1713

**Rhus coriaria L.**

Sinop: Saraydüzü, Fakılı village, Zeytintürbe, 400 m, 18.7.1991, H.K 1802.

**\*Pistacia vera L.**

Çorum: Osmançık, vicinity of Kamil village, 600 m, 29.6.1993, H.K 3538.

Ir.-Tur. el.

**P. terebinthus L. subsp. terebinthus.**

Çorum: Osmançık, Aşağızeytin village, 350 m, 14.8.1991, H.K 2103.

Medit. el.

subsp. *palaestina* (Boiss.) Engl.

Samsun: Vezirköprü, vicinity of Aşağıdarıçay village, 500 m, 15.7.1992, H.K 2633.

E. Medit. el.

**CELASTRACEAE****Euonymus verrucosus Scop.**

Sinop: Durağan, Kepez gorge, in *Arbutus macchie*, 300 m, 23.6.1993, H.K 2735.

(R).

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

Çorum: Osmançık, Karalargüney village, Gölbel, in *F. orientalis* forest, 1500 m, 30.6.1993, H.K 3650.

Euro-Sib. el.

**LEGUMINOSAE (Fabaceae)****Sophora alopecuroides L. var. alopecuroides.**

Samsun: Vezirköprü, vicinity of Aşağıdarıçay village, on roadside, 250 m, 20.5.1992, H.K 2317.

**S. jaubertii Spach**

Samsun: Vezirköprü, vicinity of Yukarıdarıçay village, 700 m, 15.7.1993, H.K 2663.

Eux. el.

**Chamaecytisus supinus (L.) Link**

Samsun: Vezirköprü, Yukarıdarıçay village, Doğanyuvası, 850 m, 27.6.1993, H.K 3176.

Euro-Sib. el.

**C. austriacus (L.) Link**

Samsun: Vezirköprü, Alan village, in *P. nigra* subsp. *pallasiana* forest, 1100 m, 27.6.1993, H.K 3136.

Euro-Sib. el.

**C. pygmaeus (Willd.) Rothm.**

Çorum: Kargı, Eğinönü Y, in *P. sylvestris* forest, 1600 m, 28.6.1993, H.K 3297.

Euro-Sib. el.

**Genista tinctoria L.**

Sinop: Durağan, Kepez gorge, in *P. brutia* forest, 350 m, 19.6.1991, H.K 1711.

Euro-Sib. el.

**G. lydia Boiss. var. lydia.**

Samsun: Vezirköprü, Alan village, in *P. nigra* subsp. *pallasiana* forest, 1100 m, 27.6.1993, H.K 3138.

**G. albida Willd.**

Samsun: Vezirköprü, Yukarıdarıçay village, in *Q. cerris* var. *cerris* woods, 650 m, 26.6.1993, H.K 3102.

**G. aucheri Boiss.**

Sinop: Durağan, vicinity of Kepez gorge, in *P. brutia* forest, 350 m, 19.6.1991, H.K 1712.

End.; Ir.-Tur. el.

**Argyrolobium biebersteinii Ball**

Samsun: Vezirköprü, Yukarıdarıçay village, Doğanyuvası, in *C. orientalis* subsp. *orientalis* forest, 750 m, 27.6.1993, H.K 3183.

**Colutea cilicica Boiss. & Bal**

Samsun: Vezirköprü, Aşağıdarıçay village, disturbed area, 350 m, 18.7.1991, H.K 1800.

**Astragalus sinaicus Boiss.**

Çorum: Osmançık, İnal village, in *J. excelsa* woods, 600 m, 29.6.1993, H.K 3421.

Medit. el.

**A. hamosus L.**

Sinop: Saraydüzü, Fakılı village, Kışla district, open ground, 250 m, 23.6.1993, H.K 2754.

**A. suberosus Banks & Sol. subsp. suberosus.**

Çorum: Osmançık, vicinity of Deliler village, in steppe, 600 m, 7.5.1992, H.K 2263.

**A. listoniae Boiss.**

Çorum: Osmançık, Karalargüney village, Gölbel, clearing in *P. nigra* subsp. *pallasiana* forest, 1300 m, 2.7.1992, H.K 2566.

End.; Ir.-Tur. el., (R).

**A. leucothrix Freyn & Bornm.**

Çorum: Kargı, Maksutlu village, Haftın, in steppe, 600 m, 29.6.1993, H.K 3505.

End.; Ir.-Tur. el., (nt).

**A. glycyphyllos L. subsp. glycyphylloides (DC.) Matthews**

Çorum: Osmançık, Karalargüney village, Gölbel, in *F. orientalis* forest, 1500 m, 2.7.1992, H.K 2588.

Euro-Sib. el.



- A. christianus** L.  
Çorum: Kargı, vicinity of Maksutlu village, clearing in *P. brutia* woods, 750 m, 4.6.1992, H.K 2408.
- A. pinetorum** Boiss.  
Samsun: Vezirköprü, Yukarıdarıçay village, Dere district, open woods, 650 m, 26.6.1993, H.K 3101.  
End.; Ir.-Tur. el., (nt).
- A. pseudocaspicus** Fisc.  
Sinop: Saraydüzü, Fakılı village, Zeytintürbe, 300m, 18.7.1991, H.K 1840.  
End., (R).
- A. microcephalus** Willd.  
Çorum: Osmancık, Karalargüney village, southern slopes, 1250 m, 30.6.1993, H.K 3729.  
Ir.-Tur.el.
- A. barba-jovis** DC. var. *barba-jovis*.  
Çorum: Osmancık, Karalargüney village, clearing in *P. nigra* subsp. *pallasiana* forest, 1300 m, 1.8.1991, H.K 2075.  
End.; Ir.-Tur. el., (R).
- A. plumosus** Willd. var. *plumosus*.  
Çorum: Kargı, Eğinönü Y., southern open slopes, 1600 m, 28.6.1993, H.K 3357.  
End.; Ir.-Tur. el., (nt).
- var. *nitens* (Frey & Bormn.) Chamb. & Matthews  
Çorum: Osmancık, vicinity of Deliler village, 500 m, 31.7.1991, H.K 1910.  
End.; Ir.-Tur. el., (R).
- A. micropterus** Fisc.  
Çorum: Osmancık, vicinity of Deliler village, open ground, 500 m, 4.6.1992, H.K 2462.  
End.; Ir.-Tur. el., (nt).
- A. andrachneifolius** Fenzl  
Çorum: Osmancık, vicinity of Deliler village, open ground, 500 m, 4.6.1992, H.K 2461.
- A. brachypterus** Fisc.  
Çorum: Osmancık, İnal village, in *P. brutia* forest, 700 m, 30.6.1993, H.K 3599.  
End.; Ir.-Tur.el., (nt).
- A. baibutensis** Bunge  
Çorum: Osmancık, Karalargüney village, Gölbel, open ground, 1500 m, 30.6.1993, H.K 3624.  
End.; Ir.-Tur.el., (nt).
- A. ponticus** J.Pall.  
Çorum: Osmancık, Alibeyköy village, Akdeşdere, *Q. cerris* var. *cerris* forest, 850 m, 29.6.1993, H.K 3570.
- A. dipsaceus** Bunge  
Sinop: Saraydüzü, Fakılı village, Zeytintürbe, 350 m, 18.7.1991, H.K 1838.  
End.; Ir.-Tur. el., (R).
- A. ornithopodioides** Lam.  
Çorum: Osmancık, Alibeyköy village, Akdeşdere, 800 m, 29.6.1993, H.K 3578.  
Ir.-Tur. el.
- A. strigillosus** Bunge  
Sinop: Durağan, Kepez gorge, 400 m, 22.4.1992, H.K 2214.  
End.; Ir.-Tur. el., (nt).
- A. lycius** Boiss.  
Sinop: Saraydüzü, Fakılı village, Zeytintürbe, 450 m, 20.5.1992, H.K 3106.  
End., (nt).
- A. hirsutus** Vahl  
Çorum: Kargı, Eğinönü Y., on rocky slopes, 1600 m, 28.6.1993, H.K 3359.  
End., (nt).
- A. squalidus** Boiss. & Noë  
Çorum: Kargı, Eğinönü Y, in *P. sylvestris* forest, 1500 m, 28.6.1993, H.K 3299.  
End., (nt).
- A. campylosema** Boiss. subsp. *campylosema*.  
Sinop: Durağan, vicinity of Kepez gorge, 400 m, 22.4.1992, H.K 2209.  
End.; Ir.-Tur. el., (nt).
- subsp. *atropurpureus* (Boiss.) Chamb.  
Çorum: Kargı, Demirören village, in *J. excelsa* wood, 350 m, 28.6.1993, H.K 3387.  
End., (nt).
- A. kastamonuensis** Chamb. & Matthews  
Samsun: Vezirköprü, Aşağısusuz village, 400 m, 27.6.1993, H.K 3213.  
End., (K).
- A. angustifolius** Lam. subsp. *angustifolius* var. *angustifolius*.  
Çorum: Kargı, Eğinönü Y., southern slopes, 1600 m, 28.6.1993, H.K 3358.
- Oxytropis pallasi** Pers.  
Sinop: Durağan, vicinity of Kepez gorge, clearing in *P. brutia* wood, 400 m, 23.6.1993, H.K 2864.  
(R).
- Glycyrrhiza glabra** L. var. *glandulifera* (Waldst. & Kit.) Boiss.  
Sinop: Saraydüzü, Fakılı village, Zeytintürbe, on roadside, 250 m, 20.5.1992, H.K 2300.
- Psoralea bituminosa** L.  
Sinop: Durağan, vicinity of Kepez gorge, in *P. brutia* forest, 300 m, 19.6.1991, H.K 1732.  
Medit. el.
- Vicia crocea** (Desf.) B.Fedtsch.  
Çorum: Kargı, Eğinönü Y., in mixed forest of *Abies* & *Fagus*, 1300 m, 28.6.1993, H.K 3262.  
Hyr.-Eux. el.
- V. cracca** L. subsp. *gerardi* Gaudin  
Çorum: Osmancık, Karalargüney village, Gölbel, in *F. orientalis* forest, 1500 m, 4.6.1992, H.K 2424.  
subsp. *tenuifolia* (Roth) Gaudin  
Sinop: Boyabat, between Katırlı and Kelperen villages, 450 m, 28.6.1993, H.K 3227.
- V. villosa** Roth subsp. *villosa*.  
Çorum: Osmancık, vicinity of Karalargüney village, 1250 m, 1.8.1991, H.K 1943.
- V. hirsuta** (L.) Gray  
Samsun: Vezirköprü, Yukarıdarıçay village, Doğanyuvası, in *C. orientalis* subsp. *orientalis* forest, 850 m, 27.6.1993, H.K 3182.
- V. truncatula** Fisc. ex M.Bieb.  
Çorum: Osmancık, Alibeyköy village, Akdeşdere, in *Q. cerris* var. *cerris* forest, 850 m, 29.6.1993, H.K 3586.  
Euro-Sib. el.

- V. noeana** Reut. ex Boiss. var. *noeana*.  
Sinop: Durağan, vicinity of Kepez gorge, in *P. brutia* forest, 400 m, 23.6.1993, H.K 2857.  
Ir.-Tur.el.
- V. peregrina** L.  
Sinop: Durağan, Kepez gorge, *O. europaea* var. *sylvestris* macchie, 350 m, 24.6.1993, H.K 2925.
- V. lutea** L. var. *hirta* (Balb.) Loisel.  
Sinop: Saraydüzü, Fakılı village, Kışla district in *P. brutia* forest, 550 m, 25.6.1993, H.K 3006.
- V. lathyroides** L.  
Çorum: Osmancık, İnal village, in *P. brutia* forest, 700 m, 30.6.1993, H.K 3602.
- V. sativa** L. subsp. *sativa*.  
Sinop: Durağan, Kepez gorge, western slopes, in *P. brutia* forest, 400 m, 23.6.1993, H.K 2854.  
subsp. *nigra* (L.) Ehrend. var. *segetalis* (Thuill.) Ser. ex DC.  
Samsun: Vezirköprü, Yukarıdarıçay village, Dere district, 650 m, 26.6.1993, H.K. 3090.
- V. narbonensis** L. var. *narbonensis*.  
Sinop: Saraydüzü, Fakılı village, Kışla district, in *P. brutia* forest, 550 m, 25.6.1993, H.K 3037.
- Lens nigricans** (M.Bieb.) Godr.  
Samsun: Vezirköprü, Aşağıdarıçay village, in *P. brutia* forest, 450 m, 20.5.1992, H.K 2344.  
Medit. el.
- L. ervoides** (Brign.) Grande  
Sinop: Durağan, Kepez gorge, western slopes, in *P. brutia* forest, 400 m, 23.6.1993, H.K 2885.  
Medit. el.
- Lathyrus aureus** (J.B.Stev.) D.Brândză  
Çorum: Osmancık, Karalargüney village, Gölbel, in *F. orientalis* forest, 1500 m, 2.7.1992, H.K 2563.  
Eux. el.
- L. tukhtensis** Czeczott  
Samsun: Vezirköprü, Alan village, *P. nigra* subsp. *pallasiana* forest, 1100 m, 27.6.1993, H.K 3133.  
End., (nt).
- L. laxiflorus** (Desf.) Kuntze subsp. *laxiflorus*.  
Samsun: Vezirköprü, Yukarıdarıçay village, Dere district, in *Q. cerris* var. *cerris* forest, 650 m, 26.6.1993, H.K 3104.
- L. roseus** Stev.  
Çorum: Osmancık, Alibeyköy village, Akdeşdere, in *Q. cerris* var. *cerris* forest, 850 m, 29.6.1993, H.K 3579.  
Hyr.-Eux. el.
- L. tuberosus** L.  
Çorum: Osmancık, Alibeyköy village, Akdeşdere, in *Q. cerris* var. *cerris* forest, 850 m, 29.6.1993, H.K 3587.  
Euro-Sib. el.
- L. saxatilis** (Vent.) Vis.  
Sinop: Saraydüzü, Fakılı village, in *P. brutia* forest, 550 m, 25.6.1993, H.K 3032.  
Medit. el.
- L. inconspicuus** L.  
Sinop: Durağan, Kepez gorge, western slopes, in *P. brutia* forest, 400 m, 23.6.1993, H.K 2871.  
Medit. el.
- L. setifolius** L.  
Sinop: Durağan, Kepez gorge, western slopes, in *P. brutia* forest, 250 m, 19.6.1991, H.K 1761.  
Medit. el.
- L. cicera** L.  
Samsun: Vezirköprü, vicinity of Alan village, 950 m, 27.6.1993, H.K. 3131.
- L. nissolia** L.  
Samsun: Vezirköprü, Yukarıdarıçay village, Dere district, in *Q. cerris* var. *cerris* forest, 650 m, 26.6.1993, H.K 3092.
- L. aphaca** L. var. *aphaca*  
Sinop: Durağan, vicinity of Kepez gorge, in *P. brutia* forest, 300 m, 19.6.1991, H.K 1730.  
var. *affinis* (Guss.) Archer  
Samsun: Vezirköprü, Yukarıdarıçay village, Dere district, in *Q. cerris* var. *cerris* forest, 650 m, 26.6.1993, H.K 3039.  
var. *biflorus* Post  
Sinop: Durağan, Kepez gorge, western slopes, in *P. brutia* forest, 300 m, 22.4.1992, H.K 2224  
var. *pseudoaphaca* (Boiss.) P.H.Davis  
Samsun: Vezirköprü, Yukarıdarıçay village, Dere district, 650 m, 26.6.1993, H.K 3094.  
E. Medit. el.
- Pisum sativum** L. subsp. *elatius* (M.Bieb.) Aschers & Graebn. var. *elatius*.  
Sinop: Durağan, vicinity of Kepez gorge, open ground, 400 m, 22.4.1992, H.K 2194.
- Ononis reclinata** L.  
Sinop: Saraydüzü, Fakılı village, Kışla district, in *P. brutia* forest, 550 m, 25.6.1993, H.K 3021.  
Medit. el.
- O. viscosa** L. subsp. *breviflora* (DC.) Nyman  
Sinop: Saraydüzü, Fakılı village, Zeytintürbe, 350 m, 18.7.1991, H.K 1876.
- O. pusilla** L.  
Samsun: Vezirköprü, vicinity of Yukarıdarıçay village, in *P. brutia* forest, 500 m, 15.7.1992, H.K 2680.  
Medit. el.
- O. spinosa** L. subsp. *leiosperma* (Boiss.) Şirj.  
Çorum: Osmancık, Karalargüney village, Gölbel, 1500 m, 1.8.1991, H.K 2010.
- Trifolium repens** L. var. *repens*.  
Çorum: Kargı, Eğinönü Y., in *P. sylvestris* forest, 1600 m, 28.6.1993, H.K 3300.
- T. barbulatum** (Frey & Sint.) Zohary  
Çorum: Osmancık, Karalargüney village, Gölbel, in *F. orientalis* forest, 1500 m, 2.7.1992, H.K 2592.  
End., (nt).
- T. campestre** Schreb.  
Sinop: Durağan, vicinity of Kepez gorge, open ground, 250 m, 19.6.1991, H.K 1760.
- T. resupinatum** L. var. *resupinatum*.  
Samsun: Vezirköprü, Aşağısusuz village, Ardıçtepe, 350 m, 26.6.1993, H.K 3070.  
var. *microcephalum* Zohary  
Çorum: Osmancık, İnal village, in *P. brutia* wood, 750 m, 30.6.1993, H.K 3597.

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

Çorum: Osmancık, vicinity of Karalargüney village, clearing in *P. nigra* subsp. *pallasiana* forest 1300 m, 2.7.1992, H.K 2572.

**T. medium** L. var. *medium*.

Samsun: Vezirköprü, Yukarıdarıçay village, Dere district, in *Q. cerris* var. *cerris* forest, 650 m, 26.6.1993, H.K 3099.

**T. ochroleucum** Huds.

Çorum: Osmancık, Alibeyköy village, Akdeşdere, in *Q. cerris* var. *cerris* forest, 850 m, 28.6.1993, H.K 3571.

**T. canescens** Willd.

Samsun: Vezirköprü, Alan village, in *P. nigra* subsp. *pallasiana* forest, 1200 m, 27.6.1993, H.K 3130.

Hyr.- Eux. el.

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

Çorum: Osmancık, Karalargüney village, Göbel, 1500 m, 4.6.1992, H.K 2432.

End., (nt).

**T. sylvaticum** Gérard

Çorum: Osmancık, İnal village, in *P. brutia* forest, 750 m, 30.6.1993, H.K 3592.

**T. scabrum** L.

Samsun: Vezirköprü, Yukarıdarıçay village, Dere district, 600 m, 26.6.1993, H.K 3100.

**T. lucanicum** Gasp.

Sinop: Saraydüzü, Fakılı village, Kışla district, in *P. brutia* forest, eastern slopes, 550 m, 25.6.1993, H.K 3033.

**T. hirtum** All.

Samsun: Vezirköprü, Yukarıdarıçay village, Doğanıyvası, 850 m, 27.6.1993, H.K 3172.

Medit. el.

**T. arvense** L. var. *arvense*.

Çorum: Osmancık, vicinity of İnal village, in *P. brutia* forest, 600 m, 3.7.1992, H.K 2629.

**T. angustifolium** L. var. *angustifolium*.

Sinop: Durağan, vicinity of Kepez gorge, western slopes, in *P. brutia* forest, 400 m, 23.6.1993, H.K 2851.

**T. subterraneum** L.

Çorum: Osmancık, Karalargüney village, 1400 m, 4.6.1992, H.K 2435.

**Melilotus officinalis** (L.) Desr.

Samsun: Vezirköprü, Yukarıdarıçay village, Dere district, in *Q. cerris* var. *cerris* forest, 650 m, 26.6.1993, H.K 3122.

**M. alba** Desr.

Sinop: Saraydüzü, Fakılı village, Kışla district, 300 m, 25.6.1993, H.K 2971.

**Trigonella brachycarpa** (Fisch.) Moris

Samsun: Vezirköprü, Yukarıdarıçay village, Dere district, in *Q. cerris* var. *cerris* forest, 650 m, 26.6.1993, H.K 3105.

Ir.- Tur. el.

**T. corniculata** L.

Çorum: Kargı, Maksutlu village, Haftınçesme place, on waste ground, 600 m, 29.6.1993, H.K 3503.

W. Medit. el., (K).

**T. balansae** Boiss. & Reut.

Çorum: Osmancık, vicinity of Deliler village, in *P. brutia* woods, 500 m, 7.5.1992, H.K 2238.

E. Medit. el.

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

Çorum: Kargı, Maksutlu village, Haftınçesme, on waste ground, 600 m, 29.6.1993, H.K 3508.

Ir.- Tur. el.

**T. fischeriana** Ser.

Sinop: Durağan, Kepez gorge, western slopes, in *P. brutia* forest, 400 m, 23.6.1993, H.K 2877.

Ir.- Tur. el.

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

Sinop: Saraydüzü, Fakılı village, Kışla district, in *P. brutia* wood, 550 m, 25.6.1993, H.K 3019.

Ir.- Tur. el.

**T. monspeliaca** L.

Çorum: Osmancık, Demirören village, in *J. excelsa* wood, 350 m, 28.6.1993, H.K 3386.

Medit. el.

**T. spicata** Sibth. & Sm.

Sinop: Durağan, Kepez gorge, western slopes, in *P. brutia* forest, 350 m, 23.6.1993, H.K 2884.

E. Medit. el.

**Medicago orbicularis** (L.) Bartl.

Sinop: Durağan, vicinity of Kepez gorge, 250 m, 23.6.1993, H.K 2755.

**M. lupulina** L.

Sinop: Saraydüzü, Fakılı village, Kışla district, in *P. brutia* forest, 300 m, 20.6.1993, H.K 2516.

**M. sativa** L. subsp. *sativa*.

Çorum: Osmancık, Karalargüney village, Göbel, 1500 m, 1.8.1991, H.K 1960.

**M. x varia** Martyn

Çorum: Osmancık, Alibeyköy, Akdeşdere, in *Q. cerris* var. *cerris* forest, 850 m, 29.6.1993, H.K 3572.

**M. falcata** L.

Sinop: Saraydüzü, Fakılı village, Kışla district, in *P. brutia* forest, 550 m, 25.6.1993, H.K 3016.

**M. coronata** (L.) Bartl.

Çorum: Kargı, Demirören village, in *J. excelsa* woods, 350 m, 28.6.1993, H.K 3386.

Medit. el.

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

Sinop: Durağan, Kepez gorge, western slopes, in *Olea. europaea* var. *sylvestris* macchie, 300 m, 24.6.1993, H.K 2927.

**M. polymorpha** L. var. *vulgaris* (Bent.) Shinnars

Samsun: Vezirköprü, Aşağısusuz village, Ardiçtepe, in *Olea. europaea* var. *sylvestris* macchie, 350 m, 26.6.1993, H.K 3071.

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

Çorum: Osmancık, İnal village, in *P. brutia* forest, 600 m, 3.7.1992, H.K 2522.

**Dorycnium graecum** (L.) Ser.

Samsun: Vezirköprü, Alan village, in *P. nigra* subsp. *pallasiana* forest, 1100 m, 27.6.1993, H.K 3135.

Eux. el.

**D. pentaphyllum** Scop. subsp. **herbaceum** (Vill.) Rouy

Çorum: Osmancık, Aşağızeytin village, in *P. brutia* forest, 400 m, 14.8.1991, H.K 2097.

subsp. **anatolicum** (Boiss.) Gams

Samsun: Vezirköprü, Yukarıdarıçay village, Dere district, in *Q. cerris* var. *cerris* forest, 650 m, 26.6.1993, H.K 3095.

**Lotus corniculatus** L. var. **corniculatus**.

Çorum: Osmancık, Karalargüney village, on roadside, 1300 m, 1.8.1991, H.K 2052.

var. **alpinus** Ser.

Çorum: Osmancık, Karalargüney village, Gölbek, in *F. orientalis* forest, 1500 m, 1.8.1991, H.K 2073.

**Hymenocarpus circinnatus** (L.) Savi

Sinop: Durağan, Kepez gorge, southern slopes, 350 m, 24.6.1993, H.K 2923.

Medit. el.

**Anthyllis vulneraria** L. subsp. **boissieri** (Sagaret) Bornm.

Samsun: Vezirköprü, Alan village, clearing in *P. nigra* subsp. *pallasiana* forest, 1100 m, 27.6.1993, H.K 3137.

**Securigera securidaca** (L.) Degen & Dörf.

Sinop: Durağan, Kepez gorge, western slopes, in *P. brutia* forest, 400 m, 22.4.1992, H.K 2195.

**Coronilla emerus** L. subsp. **emeroides** (Boiss. & Spruner) Hrabětova

Sinop: Durağan, Kepez gorge, western slopes, in *Arbutus unedo* macchie, 350 m, 23.6.1993, H.K 2740.

**C. scorpioides** (L.) Koch

Sinop: Saraydüzü, Fakılı village, vicinity of Kışla district, 250 m, 20.6.1992, H.K 2548.

**C. orientalis** Mill. var. **orientalis**.

Çorum: Osmancık, Karalargüney village, southern slopes, 1200 m, 30.6.1993, H.K 3731.

**C. cretica** L.

Samsun: Vezirköprü, Yukarıdarıçay village, Dere district, in *Q. cerris* var. *cerris* forest, 650 m, 26.6.1993, H.K 3098.

E. Medit. el.

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

Sinop: Durağan, Kepez gorge, western slopes, in *P. brutia* forest, 350 m, 19.6.1991, H.K 1715.

**Hippocrepis ciliata** Willd.

Sinop: Saraydüzü, Fakılı village, Kışla district, in *P. brutia* forest, 550 m, 20.6.1992, H.K 2500.

**Hedysarum varium** Willd.

Çorum: Osmancık, Karalargüney village, southern slopes, 1300 m, 1.8.1991, H.K 2065.

**Onobrychis armena** Boiss. & Huet

Çorum: Osmancık, Alibeyköy village, Akdeşdere, open ground, 850 m, 29.6.1993, H.K 3573.

End., (nt).

**O. oxydonta** Boiss.

Sinop: Durağan, Kepez gorge, western slopes, in *Pinus brutia* forest, 350 m, 23.6.1993, H.K 2823.

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

Çorum: Osmancık, vicinity of Deliler village, on dry stream bed, 500 m, 31.7.1991, H.K 1902.

End.; Ir.- Tur. el., (nt).

**O. bornmuelleri** Freyn

Çorum: Osmancık, Aşağızeytin village, in *Pinus brutia* forest, 350 m, 14.8.1991, H.K 2116.

End., (V).

**O. tournefortii** (Willd.) Desv.

Sinop: Boyabat, between Uluköy and Başhekim villages, edge of forest, 550 m, 28.6.1993, H.K 3224.

End., (nt).

**Alhagi pseudoalghi** (M.Bieb.) Desv.

Samsun: Vezirköprü, Aşağıdarıçay village, on roadside, 250 m, 18.7.1991, H.K 1850.

Ir.- Tur. el.

## ROSACEAE

**Spiraea crenata** L.

Sinop: Durağan, Kepez gorge, southern slopes, in *O. europaea* var. *sylvestris* macchie, 350 m, 24.6.1993, H.K 3931.

**Cerasus angustifolia** (Spach) Browicz var. **angustifolia**.

Çorum: Osmancık, vicinity of İnal village, 650 m, 29.6.1993, H.K 3409.

Ir.- Tur. el.

**Amygdalus communis** L.

Çorum: Osmancık, vicinity of Karalargüney village, on fieldside, 1250 m, 4.8.1993, H.K 3832.

**Filipendula vulgaris** Moench

Samsun: Vezirköprü, vicinity of Alan village, open ground, 1000 m, 27.6.1993, H.K 3159.

Euro-Sib. el.

**Rubus idaeus** L.

Çorum: Osmancık, Karalargüney village, Gölbek, in *F. orientalis* forest, 1500 m, 30.6.1993, H.K 3648.

**R. sanctus** Schreb.

Çorum: Osmancık, İnal village, in *J. excelsa* wood, 600 m, 29.6.1993, H.K 3437.

**R. canescens** DC. var. **canescens**.

Çorum: Kargı, Eğinönü Y., on roadside, 1500 m, 28.6.1993, H.K 3355.

Euro-Sib. el.

var. **glabratus** (Godr.) P.H.Davis & Meikle

Çorum: Kargı, vicinity of Maksutlu bridge, 250 m, 19.7.1991, H.K 1869.

Euro-Sib. el.

**R. hirtus** Waldst. & Kit.

Çorum: Osmancık, Karalargüney village, Gölbek, in *F. orientalis* forest, 1500 m, 2.7.1992, H.K 2594.

Euro-Sib. el.

**Potentilla argentea** L.

Çorum: Osmancık, Karalargüney village, Gölbek, open ground, 1500 m, 4.6.1992, H.K 3416.

**P. inclinata** Vill.

Samsun: Vezirköprü, vicinity of Aşağıdarıçay village, 450 m, 20.5.1992, H.K 2324.

**P. recta** L. Group A

Çorum: Osmancık, Eğinönü Y., in *P. sylvestris* forest, 1600 m, 28.6.1993, H.K 3338.

- P. spesiosa** Willd. var. *spesiosa*.  
Çorum: Kargı, Eğinönü Y., in *P. sylvestris* forest, 1600 m, 28.6.1993, H.K 3302.
- P. micrantha** Ramond ex DC.  
Samsun: Vezirköprü, Alan village, in *P. nigra* subsp. *pallasiana* forest, 1200 m, 27.6.1993, H.K 3153.
- Fragaria vesca** L.  
Çorum: Kargı, Eğinönü Y., in mixed forest of *Abies* & *Fagus*, 1300 m, 28.6.1993, H.K 3277.
- Geum urbanum** L.  
Samsun: Vezirköprü, Yukarıdarıçay village, Doğanıyvası, 800 m, 15.7.1992, H.K 2637.  
Euro-Sib. el.
- Agrimonia eupatoria** L.  
Çorum: Osmancık, Karalargüney village, Gölbel, clearing in *P. nigra* subsp. *pallasiana* forest, 1200 m, 2.7.1992, H.K 2573.
- Sanguisorba minor** Scop. subsp. *muricata* (Spach) Briq.  
Sinop: Saraydüzü, Fakılı village, Kışla district, 350 m, 20.6.1992, H.K 2480.
- Alchemilla caucasica** Buser  
Çorum: Kargı, Eğinönü Y., southern slopes, 1600 m, 28.6.1993, H.K 3366.  
Eux.(mt.) el.
- A. compactilis** Juz.  
Çorum: Kargı, Eğinönü Y., in *P. sylvestris* forest, 1500 m, 28.6.1993, H.K 3303.
- A. pseudocartalinica** Juz.  
Çorum: Osmancık, Karalargüney village, Gölbel, in *F. orientalis* forest, 1400 m, 30.6.1993, H.K 3633.
- A. mollis** (Buser) Rothm.  
Çorum: Osmancık, Karalargüney village, Gölbel, in *F. orientalis* forest, 1500 m, 4.6.1992, H.K 2376.
- Rosa villosa** L. subsp. *villosa*.  
Çorum: Osmancık, Karalargüney village, Gölbel, in *F. orientalis* forest, 1500 m, 4.6.1992, H.K 2383.
- R. horrida** Fisc.  
Çorum: Osmancık, vicinity of İnal village, 600 m, 7.5.1992, H.K 2242.
- R. canina** L.  
Çorum: Osmancık, Karalargüney village, 1200 m, 25.9.1991, H.K 2154.
- R. dumalis** Bechst. subsp. *boissieri* (Crép.) O.Nilsson var. *boissieri*.  
Çorum: Osmancık, Karalargüney village, in *Q. pubescens* woods, 1200 m, 1.8.1991, H.K 2014.
- Cotoneaster nummularia** Fisch. & C.A.Mey.  
Sinop: Durağan, Kepez gorge, western slopes, 300 m, 3.8.1993, H.K 3783.
- Pyracantha coccinea** Roem.  
Çorum: Osmancık, Karalargüney village, 1500 m, 25.9.1991, H.K 2149.
- Crataegus tanacetifolia** (Lam.) Pers.  
Çorum: Osmancık, Karalargüney village, 1350 m, 25.9.1991, H.K 2152.  
End., (nt).
- C. orientalis** Pall. ex M.Bieb. var. *orientalis*.  
Çorum: Osmancık, vicinity of Karalargüney village, 1400 m, 4.8.1993, H.K 3818.
- C. curvisepala** Lindm.  
Çorum: Osmancık, Karalargüney village, 1400 m, 30.6.1993, H.K 3634.
- C. microphylla** Koch  
Sinop: Durağan, Kepez gorge, 350 m, 19.6.1991, H.K 1700.  
Hyr.-Eux. el.
- Sorbus domestica** L.  
Çorum: Osmancık, vicinity of Karalargüney village, 1250 m, 4.8.1993, H.K 3837.  
Euro-Sib. el.
- S. aucuparia** L.  
Çorum: Kargı, Eğinönü Y., in mixed forest of *Abies* & *Fagus*, 1300 m, 28.6.1993, H.K 3248.  
Euro-Sib. el.
- S. umbellata** (Desf.) Fritsch var. *umbellata*.  
Samsun: Vezirköprü, Alan village, in *P. nigra* subsp. *pallasiana* forest, 1100 m, 27.6.1993, H.K 3157.
- S. torminalis** (L.) Crantz var. *torminalis*.  
Samsun: Vezirköprü, Yukarıdarıçay village, Doğanıyvası, 850 m, 27.6.1993, H.K 3204.
- Pyrus communis** L. subsp. *communis*.  
Çorum: Osmancık, Karalargüney village, 1250 m, 4.8.1993, H.K 3819.
- P. elaeagnifolia** Pall. subsp. *elaeagnifolia*.  
Samsun: Vezirköprü, Alan village, 1200 m, 27.6.1993, H.K 3158.
- Amelanchier rotundifolia** (Lam.) Dum.Cours. subsp. *rotundifolia*.  
Sinop: Durağan, Kepez gorge, 300 m, 23.6.1993, H.K 2741.  
E. Medit. el.
- PUNICACEAE**
- Punica granatum** L.  
Çorum: Osmancık, Aşağızeytin village, on dry stream bed, 350 m, 14.8.1991, H.K 2077.
- LYTHRACEAE**
- Lythrum salicaria** L.  
Çorum: Osmancık, Aşağızeytin village, 350 m, 14.8.1991, H.K 2092.  
Euro-Sib. el.
- ONAGRACEAE**
- Circea lutetiana** L.  
Çorum: Osmancık, vicinity of Karalargüney village, 1300 m, 30.6.1993, H.K 3742.
- Epilobium dodonaei** Vill.  
Çorum: Osmancık, Karalargüney village, Gölbel, in *F. orientalis* forest, 1500 m, 2.7.1992, H.K 2576.  
Euro-Sib. el.
- E. parviflorum** Schreb.  
Çorum: Osmancık, vicinity of Aşağızeytin village, 350 m, 14.8.1991, H.K 2095.
- E. montanum** L.  
Çorum: Kargı, Eğinönü Y., in *Abies* & *Fagus* forest, 1300 m, 28.6.1993, H.K 3264.  
Euro-Sib. el.

**E. lanceolatum** Sebeast. & Mauri

Samsun: Vezirköprü, Yukarıdarıçay village, Doğanıyvası, 800 m, 15.7.1992, H.K 2671.

**CUCURBITACEAE****Ecballium elaterium** (L.) A.Rich.

Sinop: beyond Kargı, 200 m, Tobey 2816!

Medit. el.

**Bryonia aspera** Stev. ex Ledep.

Çorum: Osmancık, İnal village, Güvercinkaya gorge, 600 m, 7.5.1992, H.K 2292.

**DATISCEAE****Datisca cannabina** L.

Çorum: Osmancık, Karalargüney village, in *F. orientalis* forest, 1400 m, 25.9.1991, H.K 2139.

**CRASSULACEAE****Sedum album** L.

Sinop: Durağan, vicinity of Kepez gorge, western slopes, in *P. brutia* forest, 300 m, 19.6.1991, H.K 1728.

**S. aetnense** Tineo

Sinop: nr. Kargı, 250 m, Tobey 2826!

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

Çorum: Osmancık, vicinity of İnal village, 600 m, 3.7.1992, H.K 2614.

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

Samsun: Vezirköprü, vicinity of Aşağıdarıçay village, 300 m, 18.7.1991, H.K 1790.

var. *bithynicum* (Boiss.) Chamb.

Çorum: Osmancık, Karalargüney village, 1500 m, 1.8.1991, H.K 2001.

Eux. el.

**SAXIFRAGACEAE****Saxifraga rotundifolia** L.

Çorum: Kargı, Eğinönü Y., in mixed forest of *Abies* & *Fagus*, 1300 m, 28.6.1993, H.K 3268.

Euro-Sib. el.

**S. cymbalaria** L. var. *cymbalaria*.

Çorum: Osmancık, Karalargüney village, Gölbel, in *F. orientalis* forest, 1500 m, 1.8.1991, H.K 1946.

**UMBELLIFERAE (Apiaceae)****Sanicula europaea** L.

Çorum: Osmancık, Eğinönü Y., vicinity of Koğucak stream, in mixed forest of *Abies* & *Fagus*, 1300 m, 28.6.1993, H.K 3279.

Euro-Sib. el.

**Astrantia maxima** Pall. subsp. *haradjianii* (Grint.) Rech.

Çorum: Osmancık, Karalargüney village, Gölbel, in *F. orientalis* forest, 1500 m, 4.6.1992, H.K 2404.

End., (nt).

**Eryngium giganteum** M.Bieb.

Samsun: Vezirköprü, Alan village, in *P. nigra* subsp. *pallasiana* forest, 1200 m, 26.6.1993, H.K 3164.

Eux. el.

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

Sinop: Saraydüzü, Fakılı village, Kışla district, 250 m, 23.6.1993, H.K 2806.

**Ecinochloa tournefortii** Jaub. & Spach

Çorum: Osmancık, vicinity of Deliler village, 600 m, 24.9.1991, H.K 2160.

Ir.-Tur. el.

**Chaerophyllum byzantinum** Boiss.

Çorum: Osmancık, Alibeyköy village, Akdeşdere, in *Q. cerris* var. *cerris* forest, 850 m, 29.6.1993, H.K 3540.

Eux. el.

**C. aureum** L.

Çorum: Kargı, Eğinönü Y., vicinity of Koğucak stream, in mixed forest of *Abies* & *Fagus*, 1300 m, 28.6.1993, H.K 3263.

**Anthriscus caucalis** Pers.

Sinop: Saraydüzü, Fakılı village, vicinity of Kışla district, 300 m, 20.6.1992, H.K 2523.

**Scandix pecten-veneris** L.

Sinop: Durağan, Kepez gorge, 300 m, 23.6.1993, H.K 2727.

**Bifora radians** M.Bieb.

Çorum: Osmancık, Alibeyköy village, Akdeşdere, 850 m, 29.6.1993, H.K 3539.

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

Çorum: Kargı, Eğinönü Y., in *P. sylvestris* forest, 1500 m, 28.6.1993, H.K 3327.

**Pimpinella peregrina** L.

Sinop: Durağan, Kepez gorge, 300 m, 24.6.1993, H.K 2899.

**P. corymbosa** Boiss.

Çorum: Osmancık, vicinity of Karalargüney village, clearing in *P. nigra* subsp. *pallasiana* forest, 1300 m, 2.7.1992, H.K 2564.

Ir.-Tur. el.

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

Çorum: Osmancık, Karalargüney village, Gölbel, on roadside, 1500 m, 1.8.1991, H.K 2008.

Ir.-Tur. el.

**Oenanthe pimpinelloides** L.

Çorum: Osmancık, Karalargüney village, Gölbel, on moist grass, 1500 m, 4.6.1992, H.K 2425.

**O. silaifolia** M.Bieb.

Çorum: Osmancık, Karalargüney village, Gölbel, on moist grass, 1500 m, 4.6.1993, H.K 2375.

**Bupleurum rotundifolium** L.

Samsun: Vezirköprü, Aşağıdarıçay village, 350 m, 18.7.1991, H.K 1806.

**B. sulphureum** Boiss. & Bal

Çorum: Osmancık, vicinity of İnal village, in *J. excelsa* wood, 600 m, 29.6.1993, H.K 3469.

End.; Ir.-Tur. el., (nt).

**B. gerardii** All.

Çorum: Osmancık, Karalargüney village, southern slopes, 1250 m, 30.6.1993, H.K 3681.

**Apium graveolens** L.

Sinop: Saraydüzü, Fakılı village, edge of rice field, 250 m, 20.6.1992, H.K 2499.

**Amni visgana** (L.) Lam.

Çorum: Kargı, Sinanözü village, 400 m, 4.8.1993, H.K 3791.

Medit. el.

**Johrenia tortuosa** (Fisch. & C.A.Mey.) Chamb.

Çorum: Kargı, Sinanözü village, 400 m, 4.8.1993, H.K 3805.

**Ferulago pauciradiata** Boiss. & Heldr.  
 Çorum: Kargı, vicinity of Sinanözü village, 400 m, 4.8.1993, H.K 3803.  
 End.; Ir.- Tur. el., (nt).  
**F. platycarpa** Boiss. & Bal  
 Çorum: Kargı, Eğinönü Y., edge of Koğucak stream, 1300 m, 28.6.1993, H.K 3235.  
 End.; Ir.- Tur. el., (nt).  
**Peucedanum palimbioides** Boiss.  
 Sinop: Saraydüzü, Fakılı village, 300 m, 25.6.1993, H.K 2965.  
 End.; Ir.- Tur. el., (nt).  
**Heracleum platytaenium** Boiss.  
 Çorum: Kargı, Eğinönü Y., edge of Koğucak stream, 1300 m, 28.6.1993, H.K 3283.  
 End., (nt).  
**H. pastinacifolium** C.Koch subsp. **incanum** (Boiss. & Huet) P.H.Davis  
 Çorum: Osmancık, Aşağızeytin village, 350 m, 14.8.1991, H.K 2110.  
 End., (nt).  
**Zosima absinthifolia** (Vent.) Link  
 Çorum: Osmancık, Alibeyköy village, 950 m, 1.8.1991, H.K 2035.  
**Tordylum maximum** L.  
 Samsun: Vezirköprü, Aşağıdarıçay village, 350 m, 18.7.1991, H.K 1816.  
**Laser trilobum** (L.) Borkh.  
 Sinop: Durağan, Kepez gorge, western slopes, in *P. brutia* forest, 350 m, 19.6.1991, H.K 1734.  
**Torilis arvensis** (Huds.) Link var. **arvensis**.  
 Çorum: Kargı, vicinity of Demirören village, in *J. excelsa* woods, 350 m, 28.6.1993, H.K 3376.  
**T. japonica** (Houtt.) DC.  
 Sinop: Durağan, Kepez gorge, 350 m, 23.6.1993, H.K 2698.  
**T. leptophylla** (L.) Reichb.  
 Çorum: Osmancık, Karalargüney village, southern slopes, 1250 m, 30.6.1993, H.K 3683.

**Turgeniopsis foeniculacea** (Fenzl) Boiss.  
 Sinop: Durağan, Kepez gorge, southern slopes, in *O. europaea* var. *sylvestris* macchie, 350 m, 24.6.1993, H.K 2946.  
**Caucalis platycarpus** L.  
 Samsun: Vezirköprü, Yukarıdarıçay village, Dere district, in *Q. cerris* var. *cerris* forest, 650 m, 26.6.1993, H.K 3126.  
**Orlaya daucoides** (L.) Greuter  
 Çorum: Osmancık, vicinity of İnal village, 600 m, 7.5.1992, H.K 2244.  
**Daucus carota** L. Group B  
 Samsun: Vezirköprü, vicinity of Aşağıdarıçay village, 300 m, 18.7.1991, H.K 1819.  
**Artemisia squamata** L.  
 Sinop: Saraydüzü, Fakılı village, Zeytintürbe, 450 m, 20.5.1992, H.K 2304.  
**ARALIACEAE**  
**Hedera helix** L.  
 Çorum: Osmancık, Aşağızeytin village, 350 m, 14.8.1991, H.K 2090.  
**CORNACEAE**  
**Cornus sanguinea** L. subsp. **australis** (C.A.Mey.) Jäv.  
 Çorum: Osmancık, Karalargüney village, Göbel, 1500 m, 4.6.1992, H.K 2410.  
 Euro-Sib. el.  
**C. mas** L.  
 Çorum: Osmancık, Aşağızeytin village, 350 m, 14.8.1991, H.K 2085.  
**CAPRIFOLIACEAE**  
**Sambucus ebulus** L.  
 Çorum: Osmancık, Karalargüney village, on dry stream bed, 1300 m, 1.8.1991, H.K 2054.  
 Euro-Sib. el.  
**S. nigra** L.  
 Samsun: Vezirköprü, Aşağıdarıçay village, 250 m, 20.5.1992, H.K 2314.  
 Euro-Sib. el.  
**Lonicera caucasica** Pall. subsp. **orientalis** (Lam.) Chamb. & Long  
 Çorum: Kargı, Eğinönü Y., in mixed forest of *Abies* & *Fagus*, 1300 m, 28.6.1993, H.K 3284.  
 End., (nt).

**L. etrusca** Santi var. **etrusca**.  
 Samsun: Vezirköprü, Yukarıdarıçay village, Doğanıyuvası, 850 m, 15.7.1992, H.K 2635.  
 Medit. el.  
**VALERIANACEAE**  
**Valeriana alliarifolia** Adams  
 Çorum: Osmancık, Karalargüney village, on streamside, 1500 m, 1.8.1991, H.K 2009.  
**V. dioscoridis** Sm.  
 Çorum: Osmancık, İnal village, Güvercinkaya gorge, 600 m, 7.5.1992, H.K 2295.  
 E. Medit. el.  
**Centranthus longiflorus** Stev. subsp. **longiflorus**.  
 Çorum: Osmancık, graveyard of Karalargüney village, southern slopes, 1100 m, 4.6.1992, H.K 2409.  
 Ir.- Tur. el.  
**C. calcitrapa** (L.) Dufur.  
 Sinop: nr. Kargı, 250 m, Tobey 2630I.  
 Medit. el.  
**Valerianella carinata** Loisel  
 Çorum: Osmancık, vicinity of İnal village, in *J. excelsa* woods, 600 m, 29.6.1993, H.K 3473.  
**V. coronata** (L.) DC.  
 Sinop: Saraydüzü, Fakılı village, Kışla district, 250 m, 20.6.1993, H.K 2493.  
**V. lasiocarpa** (Stev.) Betcke  
 Samsun: Vezirköprü, Aşağısusuz village, Ardiçtepe, in *O. europaea* var. *sylvestris* macchie, 350 m, 26.6.1993, H.K 3080.  
 Ir.-Tur. el.  
**MORINACEAE**  
**Morina persica** L. var. **persica**.  
 Çorum: Osmancık, vicinity of Karalargüney village, open ground, 1200 m, 1.8.1991, H.K 1961.  
 Ir.-Tur. el.  
**DIPSACACEAE**  
**Dipsacus fullonum** L.  
 Çorum: Osmancık, İnal village, in *J. excelsa* woods, 600 m, 29.6.1993, H.K 3438.  
 (R).

- Cephalaria gigantea** (Ledeb.) Bobrov  
Çorum: Osmancık, Karalargüney village, Gölbel, on fieldside, 1400 m, 1.8.1991, H.K 1996.  
Eux. (mt.) el.  
**Knautia involucrata** Sommer & Lév.  
Çorum: Osmancık, Karalargüney village, Gölbel, in 1500 m, 30.6.1993, H.K 3646.  
Eux.(mt.) el.  
**Scabiosa columbaria** L. subsp. **ochroleuca** (L.) Čelak var. **webbiana** (Don) Matthews  
Çorum: Osmancık, Karalargüney village, Gölbel, 1500 m, 25.9.1991, H.K 2155.  
**S. argentea** L.  
Çorum: Kargı, Demirören village, in *J. excelsa* woods, 350 m, 28.6.1993, H.K 3399.  
**S. micrantha** Desf.  
Sinop: Durağan, vicinity of Kepez gorge, western slopes, in *P. brutia* forest, 350 m, 19.6.1991, H.K 1751.  
**S. rotata** M.Bieb.  
Sinop: Saraydüzü, Fakılı village, Zeytintürbe, 450 m, 20.5.1992, H.K 2316.  
Ir.-Tur. el.  
**Pteroccephalus plumosus** (L.) Coult.  
Çorum: Osmancık, İnal village, 600 m, 29.6.1993, H.K 3468.  
**COMPOSITAE (Asteraceae)**  
**\*Helianthus annuus** L.  
Çorum: Osmancık, Karalargüney village, on roadside, 1100 m, 25.9.1991, H.K 2153.  
**Xanthium spinosum** L.  
Samsun: Vezirköprü, Aşağıdarıçay village, on roadside, 250 m, 18.7.1991, H.K 1843.  
**X. strumarium** L. subsp. **strumarium**.  
Samsun: Vezirköprü, Aşağıdarıçay village, 450 m, 27.6.1993, H.K 3187.  
**Asteriscus aquaticus** (L.) Less.  
Sinop: Saraydüzü, Fakılı village, Kışla district, 300 m, 20.6.1992, H.K 2501.  
Medit. el.  
**Inula salicina** L.  
Çorum: Osmancık, Alibeyköy village, Akdeşdere, in *Q. cerris* var. *cerris* forest, 850 m, 29.6.1993, H.K 3559.  
Euro-Sib. el.
- I. ensifolia** L.  
Çorum: Osmancık, vicinity of Karalargüney village, 1100 m, 30.6.1993, H.K 3649.  
Euro-Sib. el.  
**I. oculus-christi** L.  
Samsun: Vezirköprü, Yukarıdarıçay village, on rocky slopes, 500 m, 18.7.1991, H.K 1805.  
**I. vulgaris** (Lam.) Trevis.  
Sinop: Durağan, vicinity of Kepez gorge, 300 m, 24.6.1993, H.K 2903.  
Euro-Sib. el.  
**I. thapsoides** (M.Bieb. ex Willd.) Spreng. subsp. **thapsoides**.  
Çorum: Osmancık, Karalargüney village, on fieldside, 1400 m, 2.7.1992, H.K 2558.  
**I. aschersoniana** Janka  
Samsun: Vezirköprü, Aşağısusuz village, Ardıçtepe, in *O. europaea* var. *sylvestris* macchie, 350 m, 26.6.1993, H.K 3039.  
**Pulicaria dysenterica** (L.) Bernh.  
Sinop: Durağan, Kepez gorge, 250 m, 23.6.1993, H.K 2713.  
**Helichrysum arenarium** (L.) Moench subsp. **aucheri** (Boiss.) P.H.Davis & Kupicha  
Çorum: Kargı, vicinity of Maksutlu bridge, open ground, 300 m, 19.7.1991, H.K 1874.  
Ir.-Tur. el.  
**Filago pyramidata** L.  
Çorum: Osmancık, İnal village, in *P. brutia* forest, 700 m, 30.6.1993, H.K 3591.  
**Logfia arvensis** (L.) Holub  
Sinop: Durağan, Kepez gorge, 250 m, 23.6.1993, H.K 2800.  
**Bellis perennis** L.  
Samsun: Vezirköprü, Yukarıdarıçay village, clearing in *P. brutia* woods, 500 m, 20.5.1992, H.K 2331.  
Euro-Sib. el.  
**Doronicum orientale** H.Hoffm.  
Sinop: Durağan, vicinity of Kepez gorge, in *P. brutia* forest, 300 m, 22.4.1992, H.K 2187.
- Senecio aquaticus** Hill subsp. **erraticus** (Bertol.) Matthews  
Samsun: Vezirköprü, Yukarıdarıçay village, Doğanıyuvası, 850 m, 27.6.1993, H.K 3197.  
Euro-Sib. el.  
**S. vernalis** Waldst. & Kit.  
Çorum: Osmancık, vicinity of İnal village, 650 m, 3.7.1992, H.K 2627.  
**Eupatorium cannabinum** L.  
Çorum: Osmancık, Aşağızeytin village, on fieldside, 350 m, 14.8.1991, H.K 2102.  
Euro-Sib. el.  
**Anthemis cretica** L. subsp. **tenuiloba** (DC.) Grierson  
Çorum: Osmancık, vicinity of Deliler village, 500 m, 31.7.1991, H.K 1928.  
**A. kotschyana** Boiss. var. **kotschyana**.  
Samsun: Vezirköprü, Aşağısusuz village, Ardıçtepe, in *Olea europaea* var. *sylvestris* macchie, 400 m, 26.6.1993, H.K 3040.  
**A. cotula** L.  
Sinop: Durağan, vicinity of Kepez gorge, western slopes, in *P. brutia* forest, 300 m, 19.6.1991, H.K 1727.  
**A. tinctoria** L. var. **tinctoria**.  
Samsun: Vezirköprü, Aşağıdarıçay village, 300 m, 20.5.1992, H.K 2319.  
var. **pallida** DC.  
Çorum: Kargı, vicinity of Sinanözü village, 400 m, 4.8.1993, H.K 3800.  
var. **discoidea** (All.) DC.  
Sinop: Durağan, Kepez gorge, in *P. brutia* forest, 400 m, 23.6.1993, H.K 2848.  
**A. triumfettii** (L.) All.  
Çorum: Osmancık, Karalargüney village, on roadside, 1450 m, 1.8.1991, H.K 2059.  
**Achillea biserrata** M.Bieb.  
Çorum: Osmancık, Karalargüney village, Gölbel, in *F. orientalis* forest, 1300 m, 1.8.1991, H.K 2038.  
Eux. el.  
**A. millefolium** L. subsp. **millefolium**.  
Sinop: Saraydüzü, Fakılı village, 250 m, 20.6.1992, H.K 2536.  
Euro-Sib. el.



- A. Biebersteinii** Afan.  
 Çorum: Kargı, vicinity of Maksutlu village, 300 m, 19.7.1991, H.K 1877.  
 Ir.-Tur. el.
- Tanacetum poteriifolium** (Ledeb.) Grierson  
 Samsun: Vezirköprü, Alan village, in *P. nigra* subsp. *pallasiana* forest, 1200 m, 27.6.1993, H.K 3140.  
 Eux. el.
- T. parthenium** (L.) A.Schultz  
 Samsun: Vezirköprü, Yukarıdarıçay village, Doğanyuvası, in *C. orientalis* subsp. *orientalis* forest, 850 m, 15.7.1992, H.K 2661.
- Matricaria chamomilla** L. var. *recutita* (L.) Grierson  
 Samsun: Vezirköprü, Aşağısusuz village, in *P. brutia* woods, 400 m, 27.6.1993, H.K 3217.
- Tripleurospermum oreades** (Boiss.) Rech. var. *oreades*.  
 Çorum: Osmancık, İnal village, 600 m, 7.5.1992, H.K 2247.  
 var. *tchihatchewii* (Boiss.) E.Hossain  
 Çorum: Osmancık, İnal village, Güvercinkaya gorge, on rocky slopes, 650 m, 29.6.1993, H.K 3429.
- T. rosellum** (Boiss. & Orph.) Hayek var. *album* E.Hossain  
 Çorum: Osmancık, vicinity of Deliler village, in *P. brutia* forest, 500 m, 4.6.1992, H.K 2459.  
 End., (R).
- Artemisia absinthium** L.  
 Çorum: Osmancık, Aşağızeytin village, in *P. brutia* forest, 400 m, 14.8.1991, H.K 2113.
- A. scoparia** Waldst. & Kit.  
 Çorum: Osmancık, Deliler village, 600 m, 24.9.1991, H.K 2159.
- Arctium minus** (Hill) Bernh. subsp. *pubens* (Bab.) Arènes  
 Samsun: Vezirköprü, Alan village, 1100 m, 27.6.1993, H.K 3168.  
 Euro-Sib. el.
- Cirsium vulgare** (Savi) Ten.  
 Çorum: Osmancık, Karalargüney village, Gölbel, 1500 m, 30.6.1993, H.K 3653.
- C. pseudopersonata** Boiss. & Bal. subsp. *pseudopersonata*.  
 Çorum: Kargı, Eğinönü Y., in mixed forest of *Abies* & *Fagus*, 1300 m, 28.6.1993, H.K 3260.  
 End; Eux. el., (nt).
- C. canum** (L.) All.  
 Sinop: Boyabat, between Katırlı and Kelperen villages, on roadside, 400 m, 28.6.1993, H.K 3233.  
 Euro-Sib. el.
- C. creticum** (Lam.) d'Urv. subsp. *creticum*.  
 Çorum: Osmancık, İnal village, Güvercinkaya gorge, 600 m, 3.7.1992, H.K 2615.  
 E. Medit. el.
- C. arvense** (L.) Scop. subsp. *arvense*.  
 Samsun: Vezirköprü, Aşağısusuz village, 400 m, 26.6.1993, H.K 3083.
- Picnomon acarna** (L.) Cass.  
 Samsun: Vezirköprü, Aşağıdarıçay village, 300 m, 18.7.1991, H.K 1814.  
 Medit. el.
- Ptilestemon afer** (Jacq.) subsp. *eburneus* Greuter  
 Çorum: Osmancık, vicinity of Karalargüney village, 1200 m, 1.8.1991, H.K 2023.  
 End., (nt).
- P. echinocephalus** (Willd.) Greuter  
 Çorum: Osmancık, vicinity of Karalargüney village, 1250 m, 4.8.1993, H.K 3839.
- Jurinea consanguinea** DC.  
 Sinop: Durağan, vicinity of Kepez gorge, in *P. brutia* forest, 300 m, 19.6.1991, H.K 1735.
- J. pontica** Hausskn. & Freyn ex Hausskn.  
 Çorum: Tosya to Osmancık, nr. Hacıhamza, Bornm., 1890: 2255.  
 End.; Ir.-Tur. el., (nt).
- Centaurea inermis** Velen.  
 Sinop: Durağan, Kepez gorge, on rocky slopes, 300 m, 23.6.1993, H.K 2703, (R).
- C. kilea** Boiss.  
 Sinop: Durağan, Kepez gorge, on rocky slopes, 350 m, 23.6.1993, H.K 2798.
- C. wiedemanniana** Fisch. & C.A.Mey.  
 Sinop: Saraydüzü, Fakılı village, Zeytintürbe, on rocky slopes, 500 m, 18.7.1991, H.K 1807.
- C. consanguinea** DC.  
 Çorum: Osmancık, vicinity of Deliler village, 500 m, 31.7.1991, H.K 1927.  
 End., (nt).
- C. virgata** Lam. Group B.  
 Sinop: Saraydüzü, Fakılı village, Zeytintürbe, 450 m, 20.5.1992, H.K 2301.  
 Ir.-Tur. el.
- C. patula** DC.  
 Sinop: Saraydüzü, Fakılı village, vicinity of Kışla district, 300 m, 20.6.1992, H.K 2487.  
 Ir.-Tur. el.
- C. solstitialis** L. subsp. *solstitialis*.  
 Çorum: Osmancık, İnal village, Güvercinkaya gorge, 600 m, 29.6.1993, H.K 3428.
- C. urvillei** DC. subsp. *urvillei*.  
 Sinop: Saraydüzü, Fakılı village, vicinity of Kışla district, 350 m, 20.6.1992, H.K 2494.  
 E. Medit. el.
- subsp. *stepposa* Wagenitz  
 Çorum: Osmancık, İnal village, Güvercinkaya gorge, 600 m, 3.7.1992, H.K 2619.  
 Ir.-Tur. el.
- subsp. *armata* Wagenitz  
 Çorum: Osmancık, vicinity of Deliler village, 500 m, 31.7.1991, H.K 1931.  
 E. Medit. el.
- C. hypoleuca** DC.  
 Samsun: Vezirköprü, Yukarıdarıçay village, Doğanyuvası, 700 m, 15.7.1992, H.K 2667.  
 Eux. el.

- C. triumfetti** All. Group A.  
Çorum: Osmancık, Karalargüney village, Gölbel, on fieldside, 1500 m, 1.8.1991, H.K 1988.
- C. depressa** M.Bieb.  
Çorum: Osmancık, Alibeyköy village, Akdeşdere, in *Q. cerris* var. *cerris* forest, 850 m, 29.6.1993, H.K 3557.
- Crupina vulgaris** Cass.  
Sinop: Saraydüzü, Fakılı village, Kışla district, in *P. brutia* forest, 550 m, 25.6.1993, H.K 2993.
- Cnicus benedictus** L. var. *kotschyi* Boiss.  
Çorum: Kargı, vicinity of Maksutlu village, in *Astragalus* steppe, 600 m, 29.6.1993, H.K 3520.
- Carthamus lanatus** L.  
Çorum: Osmancık, vicinity of Alibeyköy village, 750 m, 29.6.1993, H.K 3556.
- C. dentatus** Vahl  
Çorum: Osmancık, Aşağızeytin village, in *P. brutia* forest, 350 m, 14.8.1991, H.K 2119.
- Carlina oligocephala** Boiss. & Kotschy subsp. *oligocephala*.  
Çorum: Osmancık, Karalargüney village, on fieldside, 1250 m, 4.8.1993, H.K 3836.
- Xeranthemum annuum** L.  
Çorum: Osmancık, Aşağızeytin village, in *P. brutia* forest, 350 m, 14.8.1991, H.K 2121.
- X. cylindraceum** Sm.  
Çorum: Osmancık, vicinity of Karalargüney village, on fieldside, 1500 m, 1.8.1991, H.K 1985.
- Echinops ritro** L.  
Çorum: Osmancık, vicinity of Karalargüney village, 1200 m, 30.6.1993, H.K 3731.
- E. galaticus** Freyn  
Çorum: Osmancık, vicinity of Karalargüney village, 1300 m, 4.8.1993, H.K 3823.
- Eux. el.
- E. pungens** Trautv. var. *pungens*.  
Çorum: Osmancık, vicinity of Deliler village, on dry stream bed, 500 m, 31.7.1991, H.K 1893.
- Ir.-Tur. el.
- Cichorium intybus** L.  
Çorum: Osmancık, vicinity of Aşağızeytin village, 350 m, 14.8.1991, H.K 2087.
- Scorzonera cana** (C.A.Meyer) Hoffm. var. *cana*.  
Çorum: Osmancık, Karalargüney village, Gölbel, 1500 m, 4.6.1992, H.K 2388.
- Tragopogon coloratus** C.A.Meyer  
Sinop: Durağan, vicinity of Kepez gorge, 250 m, 22.4.1992, H.K 2200.
- Ir.-Tur. el.
- T. dubius** Scop.  
Çorum: Osmancık, Karalargüney village, on roadside, 1500 m, 1.8.1991, H.K 2055.
- T. pratensis** L. subsp. *pratensis*.  
Sinop: Saraydüzü, Fakılı village, Kışla district, 250 m, 23.6.1993, H.K 2803.
- Euro-Sib. el.
- T. buphthalmoides** (DC.) Boiss. var. *buphthalmoides*.  
Samsun: Vezirköprü, Aşağıdarıçay village, 300 m, 18.7.1991, H.K 1788.
- T. pusillus** M.Bieb.  
Çorum: Osmancık, Karalargüney village, on roadside, 1300 m, 1.8.1991, H.K 2057.
- T. aureus** Boiss.  
Çorum: Osmancık, Karalargüney village, on fieldside, 1500 m, 1.8.1991, H.K 1976.
- End., (nt).
- Leontodon hispidus** L. var. *hispidus*.  
Samsun: Vezirköprü, Alan village, in *P. nigra* subsp. *pallasiana* forest, 1200 m, 27.6.1993, H.K 3141.
- Euro-Sib.el.  
var. *glabratus* (W.Koch) Bisch.  
Çorum: Osmancık, Karalargüney village, clearing in *P. nigra* subsp. *pallasiana* forest, 1200 m, 1.8.1991, H.K 2032.
- Euro-Sib. el.
- L. asperrimus** (Willd.) Ball  
Sinop: Durağan, vicinity of Kepez gorge, 300 m, 20.6.1992, H.K 2469.
- Ir.-Tur. el.
- Picris hieracioides** L.  
Çorum: Osmancık, Karalargüney village, 1250 m, 4.8.1993, H.K 3829.
- Euro-Sib. el.
- P. strigosa** M.Bieb.  
Çorum: Kargı, vicinity of Maksutlu bridge, 300 m, 19.7.1991, H.K 1856.
- Ir.-Tur. el.
- P. pauciflora** Willd.  
Çorum: Osmancık, İnal village, 600 m, 7.5.1992, H.K 2273.
- Rhagadiolus stellatus** (L.) Gaertn. var. *stellatus*.  
Çorum: Osmancık, Alibeyköy, Akdeşdere, 850 m, 29.6.1993, H.K 3558.
- Medit. el.  
var. *leiocarpus* DC.  
Sinop: Durağan, vicinity of Kepez gorge, in *P. brutia* forest, 250 m, 22.4.1992, H.K 2193.
- Medit. el., (R).
- Reichardia glauca** Matthews  
Çorum: Osmancık, Karalargüney village, 1200 m, 1.8.1991, H.K 2043.
- Ir.-Tur. el.
- Pilosella hoppeana** (H.Schult.) C.H. & F.W.Schultz subsp. *pilisquama* (Naegli ex Peter) Sell & West  
Samsun: Vezirköprü, Yukarıdarıçay village, in *P. brutia* forest, 450 m, 20.5.1992, H.K 2337.
- subsp. *testimonialis* (Naegli ex Peter) Sell & West  
Çorum: Kargı, Eğinönü Y., in *P. sylvestris* forest, 1500 m, 28.6.1993, H.K 3329.
- Euro-Sib. el.  
subsp. *cilicica* (Naegli & Peter) Sell & West  
Çorum: Osmancık, İnal village, 600 m, 3.7.1992, H.K 2606.

**P.x macrotricha** (Boiss.) C.H. & F.W.Schultz

Çorum: Osmancık, İnal village, Güvercinkaya gorge, 650 m, 3.7.1992, H.K 2620.

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

Sinop: Durağan, vicinity of Kepez gorge, in *P. brutia* forest, 400 m, 19.6.1991, H.K 1764.

**P.x mashukensis** (Litv. & Zahn) Soják

Samsun: Vezirköprü, Yukarıdarıçay village, 600 m, 15.7.1992, H.K 2651.

**Cephalorrhynchus tuberosus** (Stev.) Schchian

Samsun: Vezirköprü, Aşağısuz village, Ardıçtepe, in *O. europaea* var. *sylvestris* macchie, 350 m, 26.6.1993, H.K 3042.

**Steptorhamphus tuberosus** (Jacq.) Grossh.

Sinop: Saraydüzü, Fakılı village, Kışla district, 250 m, 20.6.1992, H.K 2538.

**Scariola viminea** (L.) F.W.Schmidt

Çorum: Osmancık, Deliler village, in fallow fields, 450 m, 31.7.1991, H.K 1889.

**Mycelis muralis** (L.) Dum.

Çorum: Kargı, Eğinönü Y., in mixed forest of *Abies* & *Fagus*, 1300 m, 28.6.1993, H.K 3280.

Euro-Sib. el.

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

Çorum: Osmancık, Karalargüney village, Gölbel, in *F. orientalis* forest, 1500 m, 4.6.1992, H.K 2442.

**Taraxacum serotinum** (Waldst. & Kit.) Poir.

Çorum: Osmancık, Karalargüney village, on fieldside, 1500 m, 1.8.1991, H.K 1956.

**T. scaturiginosum** G.E.Haglund

Sinop: Durağan, vicinity of Kepez gorge, 350 m, 23.6.1993, H.K 2731.

**T. revertens** G.E.Haglund

Çorum: Kargı, Eğinönü Y., in steppe area, southern slopes, 1600 m, 28.6.1993, H.K 3363.

End.; Ir.-Tur. el., (nt).

**Chondrilla juncea** L. var. *juncea*.

Çorum: Osmancık, Deliler village, on dry stream bed, 500 m, 31.7.1991, H.K 1903.

**Crepis paludosa** (L.) Moench

Samsun: Vezirköprü, Alan village, in *P. nigra* subsp. *pallasiana* forest, 1200 m, 27.6.1993, H.K 3142.

Euro-Sib. el.

**C. macropus** Boiss. & Heldr.

Sinop: Durağan, Kepez gorge, western slopes, in *P. brutia* forest, 350 m, 22.4.1992, H.K 2192.

End., (nt).

**C. alpina** L.

Samsun: Vezirköprü, Yukarıdarıçay village, 600 m, 26.6.1993, H.K 3112.

**C. foetida** L. subsp. *rhoadifolia* (M.Bieb.) Celak

Sinop: Saraydüzü, Fakılı village, Kışla district, 300 m, 20.6.1993, H.K. 2491.

**C. sancta** (L.) Babç.

Çorum: Osmancık, İnal village, in *P. brutia* woods, 750 m, 30.6.1993, H.K 3590.

#### CAMPANULACEAE

**Campanula lyrata** Lam. subsp. *lyrata*.

Samsun: Vezirköprü, Yukarıdarıçay village, 450 m, 20.5.1992, H.K 2328.

**C. rapunculoides** L. subsp. *rapunculoides*.

Çorum: Osmancık, Alibeyköy village, Akdeşdere, in *Q. cerris* var. *cerris* forest, 850 m, 29.6.1993, H.K 3563.

Euro-Sib. el.

subsp. *cordifolia* (C.Koch) Damboldt

Çorum: Kargı, Eğinönü Y., in mixed forest of *Abies* & *Fagus*, 1300 m, 28.6.1993, H.K 3825.

**C. trachelium** L. subsp. *athoa* (Boiss. & Heldr.) Hayek

Samsun: Vezirköprü, Yukarıdarıçay village, Doğanıyvası, 850 m, 15.7.1991, H.K 2653.

Euro-Sib. el.

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

Çorum: Osmancık, Karalargüney village, Gölbel, in *F. orientalis* forest, 1500 m, 2.7.1992, H.K 2603.

Euro-Sib. el.

**C. involucrata** Aucher ex A. DC.

Samsun: Vezirköprü, Aşağıdarıçay village, in *P. brutia* forest, 400 m, 20.5.1992, H.K 2322.

Ir.-Tur el.

**C. collina** Sims

Çorum: Osmancık, Karalargüney village, on fieldside, 1300 m, 25.9.1991, H.K 2140.

Eux. el.

**C. psilostachya** Boiss. & Kotschy

Çorum: Osmancık, Alibeyköy, Akdeşdere, in *Q. cerris* var. *cerris* forest, 900 m, 29.6.1993, H.K 3566.

End.; E. Medit. (mt.) el., (R).

**C. persicifolia** L.

Samsun: Vezirköprü, Yukarıdarıçay village, Doğanıyvası, 850 m, 15.7.1992, H.K 2676.

Euro-Sib. el.

**C. olympica** Boiss.

Çorum: Osmancık, Karalargüney village, southern slopes, 1250 m, 30.6.1993, H.K 3734.

Eux. el.

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

Çorum: Osmancık, Aşağızeytin village, in *P. brutia* forest, 400 m, 14.8.1991, H.K 2082.

Euro-Sib. el.

var. *lambertiana* (A. DC.) Boiss.

Samsun: Vezirköprü, Yukarıdarıçay village, Doğanıyvası, 850 m, 27.6.1993, H.K 3206.

Euro-Sib.el.

**C. pterocaula** Hausskn.

Çorum: Osmancık, Karalargüney village, Gölbel, on fieldside, 1500 m, 25.9.1991, H.K 2137.

End.; Eux. el., (R).

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

Çorum: Osmancık, İnal village, Güvercinkaya gorge, 600 m, 7.5.1992, H.K 2288.

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

Samsun: Vezirköprü, Aşağısusuz village, Ardıçtepe, in *O. europaea* var. *sylvestris* macchie, 350 m, 26.6.1993, H.K 3078.

Ir.-Tur. el.

subsp. **sibthorpiatum** (Roem. & Schult.) Damboldt

Samsun: Vezirköprü, Yukarıdarıçay village, Doğanyuvası, 800 m, 15.7.1992, H.K 2647.

End.; E. Medit. (mt.) el., (nt).

**Legousia falcata** (Ten.) Fritsch

Sinop: Durağan, vicinity of Kepez gorge, western slopes, in *P. brutia* forest, 300 m, 22.4.1992, H.K 2225.

Medit. el.

**L. speculum-veneris** (L.) Chaix

Çorum: Osmancık, Alibeyköy village, 800 m, 29.6.1993, H.K 3564.

Medit. el.

#### ERICACEAE

**Arbutus unedo** L.

Sinop: Durağan, Kepez gorge, on rocky slopes, 300 m, 22.4.1992, H.K 2185.

**A. andrachne** L.

Sinop: Saraydüzü, Fakılı village, Zeytintürbe, 300 m, 18.7.1991, H.K 1780.

**Pyrola media** Sw.

Çorum: Kargı, Eğinönü Y., vicinity of Koğucak stream, in mixed forest of *Abies* & *Fagus*, 1300 m, 28.6.1993, H.K 3271.

Euro-Sib. el.

**Orthilia secunda** (L.) House

Çorum: Kargı, Eğinönü Y., vicinity of Koğucak stream, in mixed forest of *Abies* & *Fagus*, 1300 m, 28.6.1993, H.K 3272.

**Moneses uniflora** (L.) Gray

Çorum: Kargı, Eğinönü Y., vicinity of Koğucak stream, in mixed forest of *Abies* & *Fagus*, 1300 m, 28.6.1993, H.K 3273.

(R).

#### PRIMULACEAE

**Primula vulgaris** Huds subsp. *vulgaris*.

Çorum: Osmancık, Karalargüney village, in *F. orientalis* forest, 1500 m, 4.6.1992, H.K 2349.

Euro-Sib. el.

**Cyclamen coum** Mill. var. *coum*.

Çorum: Osmancık, Karalargüney village, in *F. orientalis* forest, 1500 m, 4.6.1992, H.K 2356.

**Lysimachia vulgaris** L.

Çorum: Osmancık, Karalargüney village, Gölbel, edge of pond, 1500 m, 2.7.1992, H.K 2587.

**L. verticillaris** Spreng.

Çorum: Osmancık, Karalargüney village, Gölbel, in *F. orientalis* forest, 1500 m, 30.6.1993, H.K 3659.

Hyr.-Eux. el.

**Anagallis arvensis** L. var. *arvensis*.

Samsun: Vezirköprü, Aşağıdarıçay village, on roadside, 350 m, 20.5.1992, H.K 2311.

**A. foemina** Mill.

Sinop: Durağan, Kepez gorge, open ground, 300 m, 22.4.1992, H.K 2227.

Medit. el

#### OLEACEAE

**Jasminum fruticans** L.

Sinop: Durağan, Kepez gorge, in *P. brutia* forest, 400 m, 19.6.1991, 400 m, H.K 1696.

Medit. el.

**Fontanesia philliraeoides** Labill. subsp. *philliraeoides*.

Sinop: Durağan, vicinity of Kepez gorge, 250 m, 3.8.1993, H.K 3774.

E. Medit. el.

**Fraxinus angustifolia** Vahl subsp. *angustifolia*.

Sinop: Durağan, Kepez gorge, 300 m, 23.6.1993, H.K 2724.

**Ligustrum vulgare** L.

Sinop: Durağan, Kepez gorge, 350 m, 19.6.1991, Korkmaz 1754.

Euro-Sib. el.

**Olea europaea** L. var. *sylvestris* (Mill.) Lehr

Sinop: Saraydüzü, Fakılı village, Zeytintürbe, 450 m, 18.7.1991, H.K 1824.

Medit. el.

**Phillyrea latifolia** L.

Samsun: Vezirköprü, Aşağıdarıçay village, 400 m, 18.7.1991, H.K 1815.

Medit. el.

#### APOCYNACEAE

**Trachomitum venetum** (L.) Woodson subsp. *sarmatiense* (Woodson) Avet.

Çorum: Kargı, Sinanözü village, on ditchside, 400 m, 4.8.1993, H.K 3797.

E. Medit. el.

#### ASCLEPIADACEAE

**Periploca graeca** L. var. *graeca*.

Sinop: Saraydüzü, Fakılı village, Zeytintürbe, 450 m, 20.5.1992, H.K 2309.

E. Medit. el.

**Cyanchum acutum** L. subsp. *acutum*.

Samsun: Vezirköprü, Aşağıdarıçay village, on roadside, 300 m, 27.6.1993, H.K 3207.

**Vincetoxicum scandens** Sommer & Lév.

Samsun: Vezirköprü, Aşağısusuz village, Ardıçtepe, 400 m, 26.6.1993, H.K 3077.

**V. fuscatum** (Hornem.) Reichb. subsp. *boissieri* (Kusn.) Browicz

Sinop: Durağan, Kepez gorge, on rocky slopes, 350 m, 23.6.1993, H.K 2705.

End., (nt).

**Cionura erecta** (L.) Griseb.

Çorum: Osmancık, Aşağızeytin village, in *P. brutia* forest, 400 m, 14.8.1991, H.K 2111.

E. Medit. el.

#### MENYANTHACEAE

**Menyanthes trifoliata** L.

Çorum: Osmancık, Karalargüney village, Gölbel, on marshy grounds, 1500 m, 25.9.1991, H.K 2125.

#### GENTIANACEAE

**Blackstonia perfoliata** (L.) Huds. subsp. *perfoliata*.

Çorum: Osmancık, Aşağızeytin village, 350 m, 14.8.1991, H.K 2079.

**Centaurium erythraea** Rafn subsp. *erythraea*.

Sinop: Durağan, Kepez gorge, 300 m, 23.6.1993, H.K 2693.

Euro-Sib. el.

subsp. *turcicum* (Velen.) Melderis

Samsun: Vezirköprü, Yukarıdarıçay village, 600 m, 15.7.1992, H.K 2687.

**C. pulchellum** (Sw.) Druce

Sinop: Saraydüzü, Fakılı village, Kışla district, 250 m, 23.6.1993, H.K 2783.

**C. tenuiflorum** (Hoffm. & Link) Fritsch subsp. **tenuiflorum**.

Çorum: Osmancık, Deliler village, 500 m, 31.7.1991, H.K 1895.

subsp. **acutiflorum** (Schott) Zeltner

Sinop: Saraydüzü, Fakılı village, Kışla district, 250 m, 23.6.1993, H.K 2782.

Medit. el.

**Gentiana crusiata** L.

Çorum: Osmancık, Karalargüney village, clearing in *P. nigra* subsp. *pallasiana* forest, 1200 m, 1.8.1991, H.K 2062.

Euro-Sib. el.

**CONVOLVULACEAE**

**Convolvulus cantabrica** L.

Sinop: Durağan, Kepez gorge, western slopes, in *P. brutia* forest, 300 m, 22.4.1992, H.K 2213.

**C. holosericeus** M.Bieb. subsp. **holosericeus**.

Çorum: Osmancık, Deliler village, 500 m, 4.6.1992, H.K 2454.

**C. assyricus** Griseb.

Samsun: Vezirköprü, Aşağıdarıçay village, 400 m, 18.7.1991, H.K 1799.

End.; Ir.-Tur. el., (nt).

**C. arvensis** L.

Çorum: Osmancık, Karalargüney village, 1100 m, 1.8.1991, H.K 2024.

Cosmp.

**C. scammonia** L.

Sinop: Saraydüzü, Fakılı village, Kışla district, 300 m, 20.6.1992, H.K 2503.

**Calystegia sylvatica** (Kit.) Griseb.

Samsun: Vezirköprü, Aşağısusuz village, on streamside, 500 m, 26.6.1993, H.K 3084.

**CUSCUTACEAE**

**Cuscuta europaea** L.

Çorum: Osmancık, Karalargüney village, parasitic on *Xanthium spinosum*, 1200 m, 1.8.1991, H.K 2027.

**BORAGINACEAE**

**Heliotropium europaeum** L.

Samsun: Vezirköprü, Aşağıdarıçay village, 400 m, 18.7.1991, H.K 1795.

**H. hirsutissimum** Grauer

Çorum: Osmancık, Deliler village, in fallow fields, 600 m, 24.9.1991, H.K 2165.

E. Medit. el.

**Lappula barbata** (M.Bieb.) Gürke

Sinop: Durağan, Kepez gorge, 200 m, 19.6.1991, H.K 1742.

Ir.-Tur. el.

**L. microcarpa** (Ledeb.) Gürke

Çorum: Osmancık, Deliler village, on dry stream bed, 500 m, 7.5.1992, H.K 2256.

Ir.-Tur. el., (K).

**L. patula** (Lehm.) Asch. ex Gürke

Samsun: Vezirköprü, Aşağıdarıçay village, on roadside, 250 m, 20.5.1992, H.K 2302.

**Rochelia disperma** (L.fil.) C.Koch var. **disperma**.

Sinop: Durağan, Kepez gorge, western slopes, 350 m, 24.6.1993, H.K 2928.

**Asperugo procumbens** L.

Çorum: Osmancık, İnal village, Güvercinkaya gorge, on rocky slopes, 600 m, 7.5.1992, H.K 2281.

Euro-Sib. el.

**Myosotis incrasata** Guss.

Sinop: Saraydüzü, Fakılı village, Kışla district, in *P. brutia* forest, 550 m, 25.6.1993, H.K 3002.

E. Medit. el.

**M. ramosissima** Rochel ex Schult. subsp. **ramosissima**.

Çorum: Kargı, Maksutlu village, Haftın, 550 m, 29.6.1993, H.K 3500.

**M. arvensis** (L.) Hill subsp. **arvensis**.

Çorum: Osmancık, İnal village, in *J. excelsa* woods, 600 m, 29.6.1993, H.K 3479.

Euro-Sib. el.

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

Çorum: Osmancık, Karalargüney village, Göbel, open ground, 1500 m, 4.6.1992, H.K 2399.

**M. lithospermifolia** (Willd.) Hornem.

Çorum: Kargı, Eğinönü Y., in *P. sylvestris* forest, 1500 m, 28.6.1993, H.K 3333.

**Paracaryum ancyritanum** Boiss.

Samsun: Vezirköprü, Aşağıdarıçay village, on roadside, 250 m, 20.5.1992, H.K 2310.

End.; Ir.-Tur. el., (nt).

**Cynoglossum officinale** L.

Sinop: Durağan, Kepez gorge, in *P. brutia* forest, 400 m, 22.4.1992, H.K 2188.

Euro-Sib. el.

**C. montanum** L.

Sinop: Saraydüzü, Fakılı village, Kışla district, 300 m, 20.6.1993, H.K 2475.

Euro-Sib. el.

**Lithospermum officinale** L.

Çorum: Kargı, Eğinönü Y., on roadside, 1300 m, 28.6.1993, H.K 3258.

Euro-Sib. el.

**L. purpureoeruleum** L.

Sinop: Durağan, Kepez gorge, western slopes, in *P. brutia* forest, 400 m, H.K 2182.

Euro-Sib. el.

**Buglossoides arvensis** (L.) L.A.Johnst.

Samsun: Vezirköprü, Aşağısusuz village, Ardıçtepe, 400 m, 26.6.1993, H.K 3076.

**Neatostema apulum** (L.) L.A.Johnst.

Sinop: Saraydüzü, Fakılı village, Kışla district, in *P. brutia* forest, 550 m, 25.6.1993, H.K 2997.

Medit. el.

**Echium italicum** L.

Çorum: Osmancık, Karalargüney village, on roadside, 1200 m, 1.8.1991, H.K 2045.

**E. vulgare** L.

Samsun: Vezirköprü, Aşağıdarıçay village, 350 m, 18.7.1991, H.K 1845.

Euro-Sib. el.

**E. angustifolium** Mill.

Sinop: Saraydüzü, Fakılı village, Kışla district, 250 m, 25.6.1993, H.K 2997.

E.Medit. el.

**Onosma isauricum** Boiss. & Heldr.

Çorum: Kargı, Eğinönü Y., open ground, 1300 m, 28.6.1993, H.K 3286.

End.; Ir.-Tur. el., (nt).

- O. bracteosum** Hausskn. & Bornm.  
Sinop: Boyabat, between Katırlı and Kelperen villages, on roadside, 450 m, 28.6.1993, H.K 3232.  
End.; Ir.-Tur. el., (nt).
- O. subulifolium** Riedl  
Sinop: after Kargı, 250 m, 11 V 1969, Tobey.  
End., (E).
- O. bornmuelleri** Hausskn.  
Çorum: Kargı, Eğinönü Y., on roadside, 1300 m, 28.6.1993, H.K 3288.  
End., (nt).
- O. aucheranum** DC.  
Samsun: Vezirköprü, Aşağısusuz village, in *P. brutia* forest, 400 m, 27.6.1993, H.K 3216.  
E. Medit. el.
- O. roussaei** DC.  
Çorum: Osmancık, Deliler village, open ground, 500 m, 31.7.1991, H.K 1932.  
Ir.-Tur. el.
- Cerintho minor** L. subsp. *auriculata* (Ten.) Domac  
Çorum: Osmancık, Alibeyköy village, 850 m, 29.6.1993, H.K 3549.
- Anchusa azurea** Mill. var. *azurea*.  
Çorum: Osmancık, Karalargüney village, on roadside, 1500, 1.8.1991, H.K 1975.
- A. arvensis** (L.) M.Bieb. subsp. *orientalis* (L.) Nordh.  
Samsun: Vezirköprü, Aşağısusuz village, 400 m, 26.6.1993, H.K 3063.
- Nonea ventricosa** (Sm.) Griseb.  
Sinop: Saraydüzü, Fakılı village, Kışla district, in *P. brutia* forest, 550 m, 25.6.1993, H.K 2996.  
Medit. el.
- Alkanna orientalis** (L.) var. *orientalis*.  
Çorum: Kargı, Eğinönü Y., on roadside, 1300 m, 28.6.1993, H.K 3287.  
Ir.-Tur. el.
- SOLANACEAE**
- Solanum nigrum** L. subsp. *schultesii* (Opiz) Wessely  
Çorum: Osmancık, Karalargüney village, on fieldside, 1500 m, 4.6.1992, H.K 2418.
- S. luteum** Mill.  
Samsun: Vezirköprü, Aşağısusuz village, on roadside, 350 m, 26.6.1993, H.K 3029.
- S. dulcamara** L.  
Çorum: Kargı, Maksutlu village, Haftın, 550 m, 29.6.1993, H.K 3513.  
Euro-Sib. el.
- Physalis alkekengi** L.  
Sinop: Durağan, Kepez gorge, 300 m, 23.6.1993, H.K 2716.
- Atropa belladonna** L.  
Çorum: Osmancık, Karalargüney village, Gölbel, banks of forest, 1500 m, 25.6.1991, H.K 2147.  
Euro-Sib. el.
- Hyoscyamus niger** L.  
Samsun: Vezirköprü, Aşağıdarıçay village, 250 m, 18.7.1991, H.K 1803.
- SCROPHULARIACEAE**
- Verbascum orientale** (L.) All.  
Çorum: Osmancık, İnal village, in *J. excelsa* woods, 600 m, 29.6.1993, H.K 3452.
- V. ponticum** (Boiss.) Kuntze  
Çorum: Kargı, Eğinönü Y., in mixed forest of *Abies* & *Fagus*, 1300 m, 28.6.1993, H.K 3228.  
End.; Eux. el., (R).
- V. wiedemannianum** Fisch. & C.A.Mey.  
Sinop: Boyabat, between Katırlı and Kelperen villages, on roadside, 450 m, 28.6.1993, H.K 3231.  
End.; Ir.-Tur. el., (nt).
- V. spectabile** M.Bieb. var. *spectabile*.  
Samsun: Vezirköprü, Yukarıdarıçay village, Doğanıyvası, 800 m, 15.7.1992, H.K 2646.  
Eux. el.
- V. eriocarpum** (Freyn & Sint.) Bornm.  
Çorum: Osmancık, Karalargüney village, Gölbel, in *F. orientalis* forest, 1500 m, 30.6.1993, H.K 3658.  
End.; Eux. el., (R).
- V. pyramidatum** M.Bieb.  
Samsun: Vezirköprü, Aşağısusuz village, 400 m, 26.6.1993, H.K 3051.  
Hyr.-Eux. el.
- V. phlomoides** L.  
Sinop: Durağan, Kepez gorge, 300 m, 23.6.1993, H.K 2699.  
Euro-Sib. el.
- V. bithynicum** Boiss.  
Çorum: Kargı, Eğinönü Y., in *P. sylvestris* forest, 1600 m, 28.6.1993, H.K 3316.  
End.; Euro-Sib. el., (nt).
- V. pinnatifidum** Vahl.  
Çorum: Osmancık, Deliler village, in *P. brutia* woods, 500 m, 4.6.1992, H.K 2455.  
E. Medit. el.
- V. abieticolum** Bornm.  
Çorum: Kargı, Eğinönü Y., on streamside, 1300 m, 28.6.1993, H.K 3239.  
End.; Eux. el., (nt).
- V. pseudovarians** Hub.-Mor.  
Çorum: Osmancık, Aşağızeytin village, on streamside, 350 m, 14.8.1991, H.K 2115.  
End.; Eux. el., (R).
- V. mucronatum** Lam.  
Çorum: Osmancık, Aşağızeytin village, in *P. brutia* woods, 350 m, 14.8.1991, H.K 2120.  
E. Medit. el.
- V. glomeratum** Boiss.  
Samsun: Vezirköprü, Yukarıdarıçay village, Doğanıyvası, 650 m, 15.7.1992, H.K 2681.  
Ir.-Tur. el.
- V. tossiense** Freyn & Sint.  
Çorum: Osmancık, Deliler village, on roadside, 500 m, 4.6.1992, H.K 2450.  
End.; Ir.-Tur. el., (nt).
- V. cheiranthifolium** Boiss. var. *cheiranthifolium*.  
Sinop: Saraydüzü, Fakılı village, Kışla district, in *P. brutia* forest, 550 m, 25.6.1993, H.K 2986.  
var. *asperulum* (Boiss.) Murb.  
Çorum: Kargı, vicinity of Maksutlu bridge, open ground, 350 m, 19.7.1991, H.K 1857.  
End., (nt).

*Scrophularia scopolii* [Hoppe ex ] Pers.  
var. *scopolii*.

Çorum: Osmancık, Karalargüney village, Gölbül, in *F. orientalis* forest, 1500 m, 4.6.1992, H.K 2397.

*S. libanotica* Boiss. subsp. *libanotica*  
var. *pontica* R.B.Mill.

Çorum: Osmancık, İnal village, Güvercinkaya gorge, 600 m, 7.5.1992, H.K 2280.

End.; Ir.-Tur. el., (nt).

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

Çorum: Osmancık, Alibeyköy village, 1100 m, 1.8.1991, H.K 2026.

Ir.-Tur. el.

*Misopates arontium* (L.) Rafn.

Sinop: Durağan, Kepez gorge, western slopes, 400 m, 23.6.1993, H.K 2895.

*Chaenorhinum minus* (L.) Lange subsp.  
*minus*.

Çorum: Osmancık, Karalargüney village, southern slopes, in steppe area, 1250 m, 30.6.1993, H.K 3685.

*Linaria genistifolia* (L.) Mill. subsp.  
*genistifolia*.

Samsun: Vezirköprü, Yukarıdarıçay village, Doğanıyuvası, 800 m, 15.7.1992, H.K 2634.

Euro-Sib. el.

*L. corifolia* Desf.

Çorum: Kargı, Maksutlu village, Haftın, in steppe, 600 m, 29.6.1993, H.K 3510.

End.; Ir.-Tur. el., (nt).

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

Sinop: Durağan, vicinity of Kepez gorge, 250 m, 23.6.1993, H.K 2766.

Ir.-Tur. el.

*L. simplex* (Willd.) DC.

Çorum: Kargı, vicinity of Maksutlu bridge, open ground, 250 m, 19.7.1991, H.K 1885.

*Digitalis ferruginea* L. subsp.  
*ferruginea*.

Samsun: Vezirköprü, Yukarıdarıçay village, Doğanıyuvası, 800 m, H.K 2638.

Euro-Sib. el.

*D. lamarckii* Ivan.

Çorum: Kargı, Demirören village, in *J. excelsa* woods, 350 m, 28.6.1993, H.K 3389.

End.; Ir.-Tur. el., (nt).

*Veronica gentianoides* Vahl

Çorum: Kargı, Eğinönü Y., in *P. sylvestris* forest, 1500 m, 28.6.1993, H.K 3318.

Hyr.-Eux. (mt.) el.

*V. arvensis* L.

Samsun: Vezirköprü, Aşağısusuz village, Ardıçtepe, in macchie, 26.6.1993, H.K 3050.

Euro-Sib. el.

*V. triphyllos* L.

Çorum: Osmancık, İnal village, 600 m, 29.6.1993, H.K 3459.

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

Samsun: Vezirköprü, Yukarıdarıçay village, on streamside, 650 m, 26.6.1993, H.K 3124.

Cosmp.

*V. chamaedrys* L.

Çorum: Kargı, Eğinönü Y., in mixed forest of *Abies* & *Fagus*, 1300 m, 28.6.1993, H.K 3236.

Euro-Sib. el.

*V. multifida* L.

Sinop: Durağan, Kepez gorge, western slopes, 400 m, 22.4.1992, H.K 2212.

End.; Ir.-Tur. el.,

*Melampyrum arvense* L. var. *arvense*.

Çorum: Osmancık, Karalargüney village, on fieldside, 1300 m, 4.6.1992, H.K 2411.

Euro-Sib. el.

*Euphrasia pectinata* Ten.

Çorum: Osmancık, Karalargüney village, on fieldside, 1200 m, 1.8.1991, H.K 1995.

Euro-Sib. el.

*E. petiolaris* Wettst.

Çorum: Osmancık, Karalargüney village, Gölbül, in *F. orientalis* forest, 1500 m, 30.6.1993, H.K 3666.

Eux. (mt.) el.

*Parentucellia viscosa* (L.) Caruel

Sinop: Saraydüzü, Fakılı village, Kışla district, edge of rice field, 300 m, 20.6.1992, H.K 2502.

Medit. el.

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

Çorum: Osmancık, Alibeyköy village, Akdeşdere, 850 m, 29.6.1993, H.K 3552.

GLOBULARIACEAE

*Globularia trichosantha* Fisch. & C.A.Mey. subsp. *trichosantha*.

Samsun: Vezirköprü, Aşağıdarıçay village, open ground, 350 m, 20.5.1992, H.K 2339.

VERBENACEAE

*Verbena officinalis* L.

Çorum: Osmancık, Aşağızeytin village, on roadside, 350 m, 14.8.1991, H.K 2088.

Cosmp.

*Vitex agnus-castus* L.

Samsun: Vezirköprü, Aşağıdarıçay village, on roadside, 250 m, 18.7.1991, H.K 1830.

Medit. el.

LABIATAE (Lamiaceae)

*Ajuga orientalis* L.

Çorum: Osmancık, Karalargüney village, Gölbül, in *F. orientalis* forest, 1500 m, 4.6.1992, H.K 2371.

*A. chamaepitys* (L.) Schreb. subsp. *chia*  
(Schreb.) Arcang. var. *chia*.

Sinop: Saraydüzü, Fakılı village, Kışla district, 250 m, 20.6.1992, H.K 2542.

subsp. *ciliata* Briq.

Çorum: Osmancık, Maksutlu village, Haftın, in *Astragalus* steppe, 600 m, 29.6.1993, H.K 3502.

*Teucrium orientale* L. var. *orientale*.

Samsun: Vezirköprü, Yukarıdarıçay village, Doğanıyuvası, open ground, 800 m, 15.7.1992, H.K 2654.

Ir.-Tur. el.

*T. scordium* L. subsp. *scordioides*  
(Schreb.) Maire & Petitm.

Samsun: Vezirköprü, Aşağıdarıçay village, open ground, 350 m, 18.7.1991, H.K 1834.

Euro-Sib. el.

- T. chamaedrys* L. subsp. *chamaedrys*.  
Sinop: Saraydüzü, Fakılı village, Kışla district, in *P. brutia* forest, 550 m, 25.6.1993, H.K 3004.  
Euro-Sib. el.  
subsp. *syspirense* (C.Koch) Rech.  
Samsun: Vezirköprü, Aşağıdarıçay village, 400 m, 18.7.1991, H.K 1796.  
Ir.-Tur. el.  
*T. polium* L.  
Çorum: Osmancık, Deliler village, on roadside, 550 m, 31.7.1991, H.K 1915.  
*Scutellaria velenovskyi* Rech.  
Çorum: Osmancık, Alibeyköy, Akdeşdere, in *Q. cerris* var. *cerris* forest, 850 m, 29.6.1993, H.K 3536.  
*S. rubicunda* Hornem. subsp. *subvelutina* (Rech.f.) J.R.Edm.  
Samsun: Vezirköprü, Yukarıdarıçay village, Doğanıyuvası, 850 m, 15.7.1992, H.K 2668.  
E. Medit. el.  
*S. salviifolia* Bent.  
Sinop: Durağan, Kepez gorge, 250 m, 19.6.1991, H.K 1748.  
End., (nt).  
*S. orientalis* L. subsp. *pinnatifida* J.R.Edm.  
Çorum: Osmancık, İnal village, in *P. brutia* forest, 600 m, 7.5.1992, H.K 2232.  
*Phlomis pungens* Willd. var. *pungens*.  
Samsun: Vezirköprü, Yukarıdarıçay village, Dere district, 650 m, 26.6.1993, H.K 3129.  
*P. armeniaca* Willd.  
Çorum: Osmancık, İnal village, open ground, 600 m, 29.6.1993, H.K 3413.  
End.; Ir.-Tur. el., (nt).  
*Lamium garganicum* L. subsp. *reniforme* (Montbret & Aucher ex Bent.) R. Mill  
Çorum: Osmancık, İnal village, Güvercinkaya gorge, northern slopes, 600 m, 7.5.1992, H.K 2282.  
*L. amplexicaule* L.  
Çorum: Osmancık, İnal village, in *P. brutia* forest, 700 m, 30.6.1993, H.K 3609.  
Euro-Sib. el.
- L. purpureum* L. var. *purpureum*.  
Sinop: Durağan, Kepez gorge, 250 m, 23.6.1993, H.K 2771.  
Euro-Sib. el.  
*L. maculatum* L.  
Çorum: Kargı, Eğinönü Y., in mixed forest of *Abies* & *Fagus*, 1300 m, 28.6.1993, H.K 3256.  
Euro-Sib. el.  
*L. crinitum* Montbret & Aucher ex Bent.  
Çorum: Kargı, Eğinönü Y., in *P. sylvestris* forest 1600 m, 28.6.1993, H.K 3325.  
Eux. (mt.) el.  
*Wiedemannia orientalis* Fisch. & C.A.Mey.  
Çorum: Kargı, vicinity of Maksutlu bridge, open ground, 300 m, 19.7.1991, H.K 1868.  
End.; Ir.-Tur. el., (nt).  
*Ballota glandulossima* Hub.-Mor. & Patzak  
Çorum: Osmancık, İnal village, Güvercinkaya gorge, 650 m, 29.6.1993, H.K 3411.  
End.; E. Medit. el.  
*Marrubium globosum* Montbret & Aucher ex Bent. subsp. *globosum*.  
Çorum: Osmancık, İnal village, Güvercinkaya gorge, 600 m, 7.5.1992, H.K 2286.  
End.; Ir.-Tur. el., (nt).  
*M. cephalanthum* Boiss. & Nöe  
Çorum: Kargı, Eğinönü Y., in *Astragalus* steppe, 1600 m, 28.6.1993, H.K 3354.  
End.; Ir.-Tur. el., (nt).  
*Sideritis dichotoma* Huter  
Çorum: Kargı, Sinanözü village, eastern slopes, 400 m, 4.8.1993, H.K 3799.  
End., (nt).  
*S. taurica* Stephan ex Willd.  
Sinop: Durağan, Kepez gorge, on rocky slopes, 350 m, 19.6.1991, H.K 1762.  
*S. germanicopolitana* Bornm. subsp. *germanicopolitana*.  
Sinop: Saraydüzü, Fakılı village, Kışla district, on rocky slopes, 350 m, 20.6.1992, H.K 2512.  
End., (nt).
- Stachys germanica* L. subsp. *bithynica* (Boiss.) Bhattacharjee  
Çorum: Kargı, Eğinönü Y., in mixed forest of *Abies* & *Fagus*, 1300 m, 28.6.1993, H.K 3255.  
Euro-Sib. el.  
*S. cretica* L. subsp. *anatolica* Rech.  
Samsun: Vezirköprü, Yukarıdarıçay village, Dere district, 600 m, 26.6.1993, H.K 3119.  
End., (nt).  
*S. byzantina* C.Koch  
Sinop: Durağan, Kepez gorge, 400 m, 23.6.1993, H.K 2887.  
Euro-Sib. el.  
*S. sylvatica* L.  
Sinop: Saraydüzü, Fakılı village, Kışla district, 250 m, 25.6.1993, H.K 2961.  
Euro-Sib. el.  
*S. iberica* M.Bieb. subsp. *iberica* var. *iberica*.  
Samsun: Vezirköprü, Alan village, open ground, 1100 m, 27.6.1993, H.K 3150.  
Ir.-Tur. el.  
var. *densipilosa* Bhattacharjee  
Samsun: Vezirköprü, Yukarıdarıçay village, Doğanıyuvası, 850 m, 15.7.1992, H.K 2655.  
End.; Ir.-Tur. el., (nt).  
subsp. *stenostachya* (Boiss.) Rech.  
Sinop: Saraydüzü, Fakılı village, in *P. brutia* forest, 550 m, 25.6.1993, H.K 3000.  
Ir.-Tur. el.  
*S. annua* (L.) L. subsp. *annua* var. *annua*.  
Samsun: Vezirköprü, Aşağısusuz village, in *P. brutia* woods, 400 m, 27.6.1993, H.K 3214.  
var. *lycaonica* Bhattacharjee  
Çorum: Kargı, Maksutlu village, Haftın, in *Astragalus* steppe, 600 m, 29.6.1993, H.K 3501.  
Ir.-Tur. el.  
*S. officinalis* (L.) Trevis. subsp. *officinalis*.  
Çorum: Osmancık, Aşağızeytin village, on fieldside, 350 m, 14.8.1991, H.K 2083.  
Euro-Sib. el.



**Nepeta italica** L.

Samsun: Vezirköprü, Aşağıdarıçay village, on rocky slopes, 400 m, 18.7.1991, H.K 1797.

**N. nuda** L. subsp. **albiflora** (Boiss.) Gams

Çorum: Kargı, vicinity of Maksutlu bridge, on rocky slopes, 300 m, 19.7.1991, H.K 1860.

**Lallemantia peltata** (L.) Fisch. & C.A.Mey.

Çorum: Kargı, Eğinönü Y., in *P. sylvestris* forest, 1500 m, 28.6.1993, H.K 3319.

Ir.-Tur. el.

**Prunella vulgaris** L.

Çorum: Osmancık, Karalargüney village, Göbel, open ground, 1500 m, 25.9.1991, H.K 2128.

Euro-Sib. el.

**P. laciniata** (L.) L.

Sinop: Durağan, Kepez gorge, 250 m, 19.6.1991, H.K 1775.

Euro-Sib. el.

**Origanum vulgare** L. subsp. **viride** (Boiss.) Hayek

Samsun: Vezirköprü, Yukarıdarıçay village, Doğanıyvası, 800 m, 15.7.1992, H.K 2643.

**Satureja wiedemanniana** (Avé-Lall.) Velen.

Çorum: Osmancık, Karalargüney village, open ground, 950 m, 4.8.1993, H.K 3822.

End., (nt).

**S. hortensis** L.

Sinop: Durağan, Kepez gorge, southern slopes, 300 m, 24.6.1993, H.K 2909.

**Clinopodium vulgare** L. subsp. **vulgare**.

Çorum: Osmancık, Aşağızeytin village, in *P. brutia* forest, 400 m, 14.8.1991, H.K 2080.

subsp. **arundanum** (Boiss.) Nyman

Samsun: Vezirköprü, Yukarıdarıçay village, Doğanıyvası, 800 m, 15.7.1992, H.K 2641.

**Acinos arvensis** (Lam.) Dandy

Çorum: Osmancık, Karalargüney village, 1250 m, 30.6.1993, H.K 3707.

Euro-Sib. el.

**A. rotundifolius** Pers.

Sinop: Durağan, Kepez gorge, 250 m, 23.6.1993, H.K 2770.

**Micromeria nervosa** (Desf.) Benth.

Sinop: Durağan, Kepez gorge, southern slopes, in macchie, 300 m, 24.6.1993, H.K 2912.

Medit. el., (V).

**M. myrtifolia** Boiss. & Hohen.

Samsun: Vezirköprü, Aşağıdarıçay village, 350 m, 18.7.1991, H.K 1832.

E. Medit. el.

**Thymus sipyleus** Boiss. subsp. **rosulans** (Barbáz) Jalas

Çorum: Kargı, Demirören village, in *J. excelsa* woods, 300 m, 28.6.1993, H.K 3400.

**T. leucostomus** Hausskn. & Velen. var. **leucostomus**.

Çorum: Osmancık, İnal village, in *J. excelsa* woods, 600 m, 29.6.1993, H.K 3440.

End.; Ir.-Tur. el., (nt).

**T. praecox** Opiz. subsp. **skorpilii** (Velen.) Jalas var. **skorpilii**.

Çorum: Kargı, Eğinönü Y., in *P. sylvestris* forest, 1600 m, 28.6.1993, H.K 3329.

**Mentha longifolia** (L.) Huds. subsp. **longifolia**.

Sinop: Durağan, Kepez gorge, on riverside, 200 m, 19.6.1991, H.K 1743.

Eux. el.

**Ziziphora capitata** L.

Samsun: Vezirköprü, Aşağıdarıçay village, in *P. brutia* forest, 450 m, 20.5.1992, H.K 2345.

Ir.-Tur.el.

**Z. tenuior** L.

Çorum: Osmancık, Karalargüney village, southern slopes, in *Astragalus* steppe, 1250 m, 30.6.1993, H.K 3739.

Ir.-Tur. el.

**Z. taurica** M.Bieb. subsp. **taurica**.

Samsun: Vezirköprü, Aşağısusuz village, Ardıçtepe, in macchie, 350 m, 26.6.1993, H.K 3067.

**Salvia viridis** L.

Sinop: Durağan, Kepez gorge, 250 m, 13.6.1991, H.K 1701.

Medit. el.

**S. sclarea** L.

Sinop: Durağan, Kepez gorge, western slopes, in *P. brutia* forest, 400 m, 23.6.1993, H.K 2830

**S. tomentosa** Mill.

Çorum: Osmancık, Deliler village, 550 m, 31.7.1991, H.K 1887.

Medit. el.

**S. virgata** Jacq.

Çorum: Osmancık, Karalargüney village, Göbel, on fieldside, 1500 m, 1.8.1991, H.K 1987.

Ir.-Tur. el.

**S. verticillata** L. subsp. **verticillata**.

Çorum: Osmancık, Karalargüney village, Göbel, in *F. orientalis* forest, 1500 m, 4.6.1992, H.K 2496.

Euro-Sib. el.

subsp. **amasiaca** (Freyn & Bornm.) Bornm.

Samsun: Vezirköprü, Alan village, in open ground, 1100 m, 27.6.1993, H.K 3149.

**PLUMBAGINACEAE**

**Plumbago europaea** L.

Çorum: Kargı, Sinanozü village, 400 m, 4.8.1993, H.K 3785.

Euro-Sib. el.

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

Çorum: Kargı, vicinity of Maksutlu bridge, 300 m, 19.7.1991, H.K 1876.

Ir.-Tur. el.

**A. caryophyllaceum** Boiss. subsp. **parviflorum** Bokhari

Sinop: Boyabat, 350 m, bare eroded hills, (24 VII 1962), P.H.Davis, Coode & Yaltrık, D. 38043.

End., (E).

**PLANTAGINACEAE**

**Plantago major** L. subsp. **major**.

Çorum: Osmancık, Karalargüney village, on fieldside, 1300 m, 25.9.1991, H.K 2145.

*P. holosteam* Scop.

Çorum: Kargı, Eğinönü Y., in *Astragalus* steppe, 1600 m, 28.6.1993, H.K 3369.

Medit. el.

*P. lanceolata* L.

Çorum: Kargı, vicinity of Sinanözü village, 400 m, 4.8.1993, H.K 3806.

*P. lagopus* L.

Sinop: Saraydüzü, Fakılı village, Kışla district, open ground, 400 m, 20.6.1992, H.K 2481.

Medit. el.

*P. scabra* Moench

Samsun: Vezirköprü, Aşağıdarıçay village, 300 m, 18.7.1991, H.K 1836.

#### THYMELACEAE

*Daphne pontica* L.

Çorum: Osmancık, Karalargüney village, Gölbel, in *F. orientalis* forest, 1500 m, 25.9.1991, H.K 2136.

Eux. el.

*D. oleoides* Schreb. subsp. *oleoides*.

Çorum: Kargı, Eğinönü Y., southern slopes, 1600 m, 28.6.1993, H.K 3353.

#### ELAEAGNACEAE

*Hippophae rhamnoides* L. subsp. *caucasica* Rousi

Çorum: Osmancık, Karalargüney village, on roadside, 950 m, 1.8.1991, H.K 1964.

*Elaeagnus angustifolia* L.

Sinop: Saraydüzü, Fakılı village, Zeytintürbe, 450 m, 20.5.1992, H.K 2321.

#### SANTALACEAE

*Thesium arvense* Horv.

Samsun: Vezirköprü, Aşağıdarıçay village, 300 m, 18.7.1991, H.K 1789.

Euro-Sib. el.

*T. procumbens* C.A.Mey.

Samsun: Vezirköprü, Alan village, in *P. nigra* subsp. *pallasina* forest, 1200 m, 27.6.1993, H.K 3163.

*T. billardieri* Boiss.

Çorum: Kargı, vicinity of Maksutlu bridge, open ground, 300 m, 19.7.1991, H.K 1879.

Ir.-Tur. el.

#### LORANTHACEAE

*Viscum album* L. subsp. *austriacum* (Wiesb.) Vollm.

Samsun: Vezirköprü, Yukarıdarıçay village, Doğanyuvası, semiparasitic on *P. nigra* subsp. *pallasina*, 650 m, 15.7.1992, H.K 2664.

#### ARISTOLOCHIACEAE

*Aristolochia maurorum* L.

Çorum: Kargı, Eğinönü Y., in *P. sylvestris* forest, 1600 m, 28.6.1993, H.K 3345.

Ir.-Tur. el.

*A. pontica* Lam.

Çorum: Osmancık, Karalargüney village, Gölbel, in *Fagus orientalis* forest, 1500 m, 4.6.1992, H.K 2382.

Eux. el.

#### EUPHORBIACEAE

*Andrachne telephioides* L.

Samsun: Vezirköprü, Aşağıdarıçay village, open ground, 350 m, 18.7.1991, H.K 1812.

*Crozophora tinctoria* (L.) Rafn.

Çorum: Osmancık, Deliler village, on dry stream bed, 500 m, 31.7.1991, H.K 1904.

*Mercurialis annua* L.

Sinop: Durağan, Kepez gorge, southern slopes, 350 m, 24.6.1993, H.K 2911.

*Euphorbia chamaesyce* L.

Çorum: Osmancık, Karalargüney village, on fieldside, 950 m, 4.8.1993, H.K 3835.

*E. eriophora* Boiss.

Çorum: Kargı, Eğinönü Y., southern slopes, in *Astragalus* steppe, 1600 m, 28.6.1993, H.K 3347.

Ir.-Tur. el.

*E. helioscopia* L.

Çorum: Osmancık, Karalargüney village, Gölbel, in *F. orientalis* forest, 1400 m, 30.6.1993, H.K 3665.

*E. aleppica* L.

Çorum: Kargı, vicinity of Kargı village, 400 m, 4.8.1993, H.K 3792.

*E. falcata* L. subsp. *falcata* var. *falcata*.

Sinop: Durağan, Kepez gorge, 250 m, 23.6.1993, H.K 2792.

var. *galilaea* (Boiss.) Boiss.

Çorum: Osmancık, Karalargüney village, southern slopes, in *Astragalus* steppe, 1250 m, 30.6.1993, H.K 3733.

*E. anacampseros* Boiss. var. *anacampseros*.

Çorum: Kargı, Eğinönü Y., in *Astragalus* steppe, 1600 m, 28.6.1993. H.K 3349.

End., (nt).

*E. rigida* M.Bieb.

Çorum: Osmancık, vicinity of Deliler village, on dry stream bed, 500 m, 31.7.1991, H.K 1896.

Medit. el.

*E. erythron* Boiss. & Heldr.

Çorum: Kargı, Eğinönü Y., in *Astragalus* steppe, 1600 m, 28.6.1993, H.K 3348.

End.; Ir.-Tur. el., (nt).

*E. seguieriana* Neck. subsp. *seguieriana*.

Sinop: Durağan, Kepez gorge, 250 m, 19.6.1991, H.K 1702.

Euro-Sib. el.

*E. amygdaloides* L. var. *amygdaloides*.

Samsun: Vezirköprü, Yukarıdarıçay village, Doğanyuvası, 850 m, 27.6.1993, H.K 3196.

Euro-Sib. el.

#### BUXACEAE

*Buxus sempervirens* L.

Sinop: Durağan, Kepez gorge, western slopes, 300 m, 19.6.1991, H.K 1693.

Euro-Sib. el.

#### URTICACEAE

*Urtica pilulifera* L.

Samsun: Vezirköprü, Aşağıdarıçay village, on roadside, 250 m, 20.5.1992, H.K 2312.

Medit. el.

*U. dioica* L.

Çorum: Osmancık, Alibeyköy, Akdeşdere, 850 m, 29.6.1993, H.K 3545.

Euro-Sib. el.

*Parietaria judaica* L.

Çorum: Osmancık, İnal village, Güvercinkaya gorge, on rocky slopes, 600 m, 7.5.1992, H.K 2285.

- P. lusitanica* L.  
Samsun: Vezirköprü, Aşağısuz village, 350 m, 26.6.1993, H.K 3043.  
Medit. el.
- MORACEAE**
- \**Morus alba* L.  
Samsun: Vezirköprü, Aşağısuz village, 400 m, 27.6.1993, H.K 3215.
- \**M. rubra* L.  
Sinop: Saraydüzü, Fakılı village, Kışla district, 300 m, 20.6.1992, H.K 2465.
- Ficus carica* L. var. *carica*.  
Sinop: Durağan, Kepez gorge, 350 m, 23.6.1993, H.K 2717.
- ULMACEAE**
- Ulmus minor* Mill. subsp. *minor*.  
Çorum: Osmancık, Aşağızeytin village, 400 m, 14.8.1991, H.K 2106.
- Celtis australis* L.  
Sinop: Saraydüzü, Fakılı village, Kışla district, on roadside, 250 m, 18.7.1991, H.K 1777.  
Medit. el.
- C. caucasica* Willd.  
Çorum: after Hacıhamza, 400 m, Tobey 2611.
- FAGACEAE**
- Fagus orientalis* Lipsky  
Çorum: Osmancık, Karalargüney village, Göbel, 1500 m, 1.8.1991, H.K 1949.  
Euro-Sib. el.
- Quercus infectoria* Oliv. subsp. *infectoria*.  
Çorum: Osmancık, Aşağızeytin village, 400 m, 14.8.1991, H.K 2099.  
Euro-Sib. el.
- Q. pubescens* Willd.  
Çorum: Osmancık, Karalargüney village, 1200 m, 1.8.1991, H.K 1989.
- Q. cerris* L. var. *cerris*.  
Sinop: Durağan, Kepez gorge, 450 m, 19.6.1991, H.K 1698.  
Medit. el.

- CORYLACEAE**
- Carpinus betulus* L.  
Çorum: Kargı, Eğinönü Y., vicinity of Koğucak stream, 1350 m, 28.6.1993, H.K 3250.  
Euro-Sib. el.
- C. orientalis* Mill. subsp. *orientalis*.  
Samsun: Vezirköprü, Yukarıdarıçay village, Doğanıyvası, 750 m, 15.7.1992, H.K 2652.
- Coryllus avellana* L. var. *avellana*.  
Çorum: Osmancık, Aşağızeytin village, 350 m, 14.8.1991, H.K 2089.  
Euro-Sib. el.
- SALICACEAE**
- Salix alba* L.  
Çorum: Osmancık, Deliler village, on ditchside, 500 m, 4.6.1992, H.K 2453.  
Euro-Sib. el.
- Populus alba* L.  
Çorum: Osmancık, Karalargüney village, Göbel, 1500 m, 1.8.1991, H.K 1971.  
Euro-Sib. el.
- P. tremula* L.  
Çorum: Osmancık, Karalargüney village, 1200 m, 4.8.1993, H.K 3817.  
Euro-Sib. el.
- RUBIACEAE**
- Putoria calabrica* (L.f.) DC.  
Çorum: Kargı, Sinanözü village, open ground, 400 m, 4.8.1993, H.K 3739.  
Medit. el.
- Crucianella bithynica* Boiss.  
Çorum: Osmancık, İnal village, in *J. excelsa* woods, 600 m, 29.6.1993, H.K 3456.  
E. Medit. el.
- C. angustifolia* L.  
Sinop: Durağan, Kepez gorge, 250 m, 23.6.1993, H.K 2779.  
Medit. el.
- C. latifolia* L.  
Samsun: Vezirköprü, Aşağısuz village, Ardıçtepe, in macchie, 400 m, 26.6.1993, H.K 3060.  
Medit. el.

- Asperula glomerata* (M.Bieb.) Griseb. subsp. *glomerata*.  
Çorum: Kargı, Maksutlu village, Haftın, in *Astragalus* steppe, 600 m, 29.6.1993, H.K 3525.  
Ir.-Tur. el.
- A. nitida* Sm. subsp. *subcapitellata* Ehrend.  
Çorum: Kargı, Eğinönü Y., in *Astragalus* steppe, 1600 m, 28.6.1993, H.K 3370.  
End.; Ir.-Tur. el., (R).
- A. pestalozzae* Boiss.  
Çorum: Osmancık, Karalargüney village, 1100 m, 1.8.1991, H.K 2021.  
End.; Eux. el., (nt)
- A. taurina* L. subsp. *taurina*.  
Çorum: Osmancık, Karalargüney village, Göbel, in *F. orientalis* forest, 1500 m, 4.6.1992, H.K 2377.
- A. involucrata* Wahlenb.  
Sinop: Durağan, Kepez gorge, western slopes, in *P. brutia* forest, 450 m, 19.6.1991, H.K 1719.  
Eux. el.
- A. arvensis* L.  
Samsun: Vezirköprü, Yukarıdarıçay village, Doğanıyvası, in *C. orientalis* subsp. *orientalis* forest, 650 m, 26.6. 1992, H.K 3127.  
Medit. el.
- Galium rotundifolium* L.  
Çorum: Kargı, Eğinönü Y., in mixed forest of *Abies* & *Fagus*, 1300 m, 28.6.1993, H.K 3265.  
Euro-Sib. el.
- G. odoratum* (L.) Scop.  
Çorum: Kargı, Eğinönü Y., in mixed forest of *Abies* & *Fagus*, 1300 m, 28.6.1993, H.K 3266.  
Euro-Sib. el.
- G. rivale* (Sm.) Griseb.  
Çorum: Osmancık, Karalargüney village, Göbel, on moist grass, 1500 m, 2.7.1992, H.K 2551.  
Euro-Sib. el.

**G. palustre** L.

Çorum: Osmancık, İnal village, Güvercinkaya gorge, northern slopes, 600 m, 7.5.1992, H.K 2277.

Euro-Sib. el.

**G. verum** L. subsp. **verum**.

Samsun: Vezirköprü, Yukarıdarıçay village, Doğanyuvası, in *C. orientalis* subsp. *orientalis* forest, 700 m, 15.7.1992, H.K 2650.

Euro-Sib. el.

subsp. **glabrescens** Ehrend.

Çorum: Osmancık, İnal village, in *J. excelsa* woods, 600 m, 29.6.1993, H.K 3454.

**G. album** Mill. subsp. **prusense** (C.Koch) Ehrend. & Krendl

Sinop: Durağan, vicinity of Kepez gorge, in *P. brutia* forest, 300 m, 19.6.1991, H.K 1736.

**G. subuliferum** Sommer & Lév.

Çorum: Kargı, Maksutlu village, Haftın, in *Astragalus* steppe, 600 m, 29.6.1993, H.K 3524.

**G. paschale** Forssk.

Samsun: Vezirköprü, Yukarıdarıçay village, Doğanyuvası, 800 m, 15.7.1992, H.K 2662.

E. Medit. el.

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

Çorum: Osmancık, Karalargüney village, 1200 m, 1.8.1991, H.K 2034.

Ir.-Tur. el.

**G. setaceum** Lam.

Sinop: Saraydüzü, Fakılı village, Kışla district, in *P. brutia* forest, 550 m, 25.6.1993, H.K 2984.

**G. aparine** L.

Çorum: Osmancık, Karalargüney village, southern slopes, in *Astragalus* steppe, 1200 m, 30.6.1993, H.K 1701.

**G. tenuissimum** M.Bieb. subsp. **tenuissimum**.

Samsun: Vezirköprü, Aşağısusuz village, Ardıçtepe, in macchie, 400 m, 26.6.1993, H.K 3059.

subsp. **trichophorum** (Kar. & Kir.) Ehrend.

Çorum: Osmancık, İnal village, in *P. brutia* forest, 700 m, 29.6.1993, H.K 3593.

Ir.-Tur. el.

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

Çorum: Kargı, Demirören village, in *J. excelsa* woods, 350 m, 28.6.1993, H.K 3398.

**G. verticillatum** Danthane ex Lam.

Sinop: Durağan, Kepez gorge, southern slopes, in macchie, 350 m, 23.6.1993, H.K 2908.

Medit. el.

**G. murale** (L.) All.

Çorum: Osmancık, Karalargüney village, southern slopes, in *Astragalus* steppe, 1250 m, 30.6.1993, H.K 3702.

Medit. el.

**Callipeltis cucullaria** (L.) Steven

Samsun: Vezirköprü, Aşağıdarıçay village, open ground, 250 m, 18.7.1991, H.K 1831.

Ir.-Tur. el.

**Cruciata laevipes** Opiz

Çorum: Kargı, Eğinönü Y., in *P. sylvestris* forest, 1600 m, 28.6.1993, H.K 3326.

Euro-Sib. el.

**C. pedemontana** (Bellardi) Ehrend.

Çorum: Osmancık, Karalargüney village, southern slopes, in *Astragalus* steppe, 1250 m, 30.6.1993, H.K 3700.

**Rubia tinctorum** L.

Çorum: Kargı, vicinity of Maksutlu bridge, open ground, 250 m, 19.7.1991, H.K 1882.

Ir.-Tur. el.

**MONOCOTYLEDONES**

**ALISMATACEAE**

**Alisma plantago-aquatica** L.

Çorum: Osmancık, Karalargüney village, Gölbel, on marshy ground, 1500 m, 25.9.1991, H.K 2131.

Euro-Sib. el.

**POTAMAGETONACEAE**

**Potamageton nodosus** Poir.

Sinop: Saraydüzü, Fakılı village, Kışla district, edge of rice field, 250 m, 20.6.1992, H.K 2472.

**ARACEAE**

**Arum maculatum** L.

Çorum: Osmancık, Karalargüney village, Gölbel, in *F. orientalis* forest, 1500 m, 4.6.1992, H.K 2366.

**A. euxinum** R.Mill

Çorum: Kargı, Eğinönü Y., in *P. sylvestris* forest, 1600 m, 28.6.1993, H.K 3337.

End.; Eux. el., (nt).

**LEMNACEAE**

**Lemna minor** L.

Sinop: Saraydüzü, Fakılı village, Kışla district, on ricefield, 250 m, 20.6.1993, H.K 2517.

**LILIACEAE**

**Smilax excelsa** L.

Çorum: Osmancık, Aşağızeytin village, on fieldside, 350 m, 14.8.1991, H.K 2104.

Eux. el.

**Ruscus aculeatus** L. var. **angustifolius** Boiss.

Samsun: Vezirköprü, Yukarıdarıçay village, Doğanyuvası, in *C. orientalis* subsp. *orientalis* forest, 600 m, 15.7.1992, H.K 2687. (V).

**Asparagus verticillatus** L.

Sinop: Saraydüzü, Fakılı village, Zeytintürbe, in macchie, 450 m, 20.5.1992, H.K 2303.

**A. officinalis** L.

Samsun: Vezirköprü, vicinity of Aşağıdarıçay village, 300 m, 18.7.1991, H.K 1826.

**A. persicus** Baker

Çorum: Osmancık, Deliiler village, on dry stream bed, 500 m, 7.5.1992, H.K 2229.

Ir.-Tur. el.

**Polygonatum orientale** Desf.

Çorum: Kargı, Eğinönü Y., in *Abies* & *Fagus* forest, 1300 m, 28.6.1993, H.K 3276.

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

Çorum: Osmancık, Deliler village, on roadside, 500 m, 31.7.1991, H.K 1897.

Ir.-Tur. el.

**Anthericum ramosum** L.

Sinop: Durağan, Kepez gorge, western slopes, in *P. brutia* forest, 400 m, 22.4.1992, H.K 2220. (R).

**Allium paniculatum** L. var. **paniculatum**.

Samsun: Vezirköprü, Aşağısusuz village, Ardıçtepe, in macchie, 400 m, 26.6.1993, H.K 3057.

Medit. el.

**A. pseudoflavum** Vved.

Çorum: Kargı, Maksutlu village, Haftın, in *Astragalus* steppe, 550 m, 29.6.1993, H.K 3514.

Ir.-Tur. el.

**A. stamineum** Boiss.

Sinop: Durağan, Kepez gorge, in macchie, 300 m, 24.6.1993, H.K 2915.

**A. hirtovaginatatum** Cand.

Çorum: Osmancık, İnal village, in *J. excelsa* woods, 600 m, 29.6.1993, H.K 3472.

E. Medit. el.

**A. myrianthum** Boiss.

Sinop: Saraydüzü, Fakılı village, Kışla district, in *P. brutia* forest, 550 m, 29.6.1993, H.K 3514.

Ir.-Tur. el.

**A. atrovioleaceum** Boiss.

Samsun: Vezirköprü, Aşağısusuz village, Ardıçtepe, in macchie, 350 m, 26.6.1993, H.K 3054.

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

Sinop: Durağan, Kepez gorge, 250 m, 19.6.1991, H.K 1771.

Medit. el.

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

Çorum: Osmancık, Karalargüney village, Göbel, on fieldside, 1500 m, 1.8.1991, H.K 1986.

Eux. el.

**A. decipiens** Fisc. ex Schult. & Schult.

Sinop: Saraydüzü, Fakılı village, Kışla district, 350 m, 20.6.1992, H.K 2513.

**Ornithogalum pyrenaicum** L.

Sinop: Saraydüzü, Fakılı village, Zeytintürbe, in macchie, 450 m, 20.5.1992, H.K 2308.

**O. oligophyllum** E.D.Clarke

Çorum: Osmancık, Karalargüney village, Göbel, open ground, 1500 m, 30.6.1993, H.K 3619.

**O. comosum** L.

Sinop: Saraydüzü, Fakılı village, Zeytintürbe, in macchie, 450 m, 20.5.1992, H.K 2335.

**O. armeniacum** Baker

Çorum: Osmancık, vicinity of Deliler village, 500 m, 4.6.1992, H.K 2451.

E. Medit. el.

**Muscari tenuiflorum** Tausch

Çorum: Osmancık to Kargı, 600 m, Tobey 2670!

**Muscari armeniacum** Leichtlin ex Baker

Sinop: Durağan, Kepez gorge, in *P. brutia* forest, 250 m, 22.4.1992, H.K 2184.

**M. neglectum** Guss.

Çorum: Osmancık, Karalargüney village, Göbel, in *F. orientalis* forest, 1500 m, 4.6.1992, H.K 2362.

#### IRIDACEAE

**Crocus speciosus** M.Bieb. subsp. **xantholaimos** Mathews

Çorum: Osmancık, Karalargüney village, Göbel, in *F. orientalis* forest, 1500 m, 25.9.1991, H.K 2143.

End.; Eux. el., (R).

**Gladiolus italicus** Mill.

Çorum: Osmancık, Alibeyköy village, on fieldside, 800 m, 29.6.1993, H.K 3548.

#### ORCHIDACEAE

**Neottia nidus-avis** (L.) A.J.Richards

Samsun: Vezirköprü, Alan village, in *P. nigra* subsp. *pallasiana* forest, 1200 m, 27.6.1993, H.K 3166.

Euro-Sib. el.

**Cephalanthera rubra** (L.) A.J.Richards

Samsun: Vezirköprü, Alan village, in *P. nigra* subsp. *pallasiana* forest, 1200 m, 27.6.1993, H.K 3165.

**Epipactis pontica** Taub.

Sinop: Durağan, Kepez gorge, in *P. brutia* forest, 400 m, 23.6.1993, H.K 2888.

End.; Eux. el., (nt).

**E. persica** ([Hauskn. ex] Soó) Nannf.

Çorum: Osmancık, Karalargüney village, Göbel, on moist grass, 1500 m, 4.6.1992, H.K 2374.

**E. condensata** Boiss. ex D.P.Young

Samsun: Vezirköprü, Aşağısusuz village, clearing in *P. brutia* woods, 400 m, 27.6.1993, H.K 3222.

E. Medit. el.

**E. microphylla** (Ehrend.) Sw.

Çorum: Osmancık, Karalargüney village, Göbel, on moist grass, 1500 m, 2.7.1992, H.K 2591.

Euro-Sib. el.

**Limodorum abortivum** (L.) Sw.

Sinop: Durağan, vicinity of Kepez gorge, open ground, 400 m, 22.4.1992, H.K 2167.

**Platanthera chlorontha** (Custer) Reichb.

Çorum: Osmancık, Karalargüney village, Göbel, 1500 m, 30.6.1993, H.K 3655.

**Ophrys oestrifera** M.Bieb. subsp. **oestrifera**.

Çorum: Osmancık, Karalargüney village, Göbel, 1500 m, 4.6.1992, H.K 2353.

**Orchis purpurea** Huds.

Çorum: Osmancık, Alibeyköy, Akdeğdere, in *Quercus cerris* var. *cerris* forest, 850 m, 29.6.1993, H.K 3530.

Euro-Sib. el.

**O. simia** Lam.

Çorum: Osmancık, Karalargüney village, 1300 m, 4.6.1992, H.K 2353.

**Dactylorhiza romana** (Seb.) Soó subsp. **romana**.

Sinop: Durağan, Kepez gorge, 400 m, 22.4.1992, H.K 2207.

Medit. el.

**D. nieschalkiorum** H.Bauman & Künkele  
Çorum: Osmancık, Karalargüney village, Gölbel, on moist grass, 1500 m, 4.6.1992, H.K 2386.

End., (R).

**D. osmanica** (Kl.) Soó var. *osmanica*.

Çorum: Kargı, Eğinönü Y., in *P. sylvestris* forest, 1500 m, 28.6.1993, H.K 3336.

End., (nt).

#### DIOSCORACEAE

**Tamus communis** L. subsp. *communis*.

Sinop: Durağan, Kepez gorge, 300 m, 23.6.1993, H.K 2734.

#### TYPHACEAE

**Typha angustifolia** L.

Çorum: Osmancık, Deliler village, edge of rice field, 400 m, 31.7.1991, H.K 1909.

#### JUNCEAE

**Juncus inflexus** L.

Çorum: Osmancık, Alibeyköy village, in damp habitat, 800 m, 29.6.1993, H.K 3561.

**J. gerardi** Loisel. subsp. *libanoticus* (Thiébaud) Snogerup

Sinop: Saraydüzü, Fakılı village, Kışla district, edge of rice field, 250 m, 23.6.1993, H.K 2818.

Ir.-Tur. el.

**J. articulatus** L.

Çorum: Osmancık, Karalargüney village, Gölbel, on moist grass, 1500 m, 2.7.1992, H.K 2549.

Euro-Sib. el.

**Luzula forsteri** (Sm.) DC.

Samsun: Vezirköprü, Alan village, in *P. nigra* subsp. *pallasiana* forest, 1200 m, 27.6.1993, H.K 3154.

Euro-Sib. el.

**L. multiflora** (Ehrend. ex Retz.) Lej.

Çorum: Kargı, Eğinönü Y., in mixed forest of *Abies* & *Fagus*, 1300 m, 28.6.1993, H.K 3253.

#### CYPERACEAE

**Cyperus longus** L.

Çorum: Kargı, vicinity of Kamil bridge, edge of rice field, 250 m, 19.7.1991, H.K 1880.

**C. rotundus** L.

Çorum: Osmancık, Deliler village, edge of rice field, 300 m, 31.7.1993, H.K 1888.

**C. capitatus** Vand.

Sinop: Saraydüzü, Fakılı village, Kışla district, edge of rice field, 250 m, 20.6.1992, H.K 2468.

**Eleocharis palustris** (L.) Roem. & Schult.

Çorum: Kargı, Eğinönü Y., on streamside, 1300 m, 28.6.1993, H.K 3252. Cosmp.

**Scirpoides holoschoenus** (L.) Sojak

Çorum: Osmancık, Karalargüney village, Gölbel, on moist grass, 1400 m, 4.6.1992, H.K 2407.

**Carex vesicaria** L.

Çorum: Osmancık, Karalargüney village, Gölbel, on fieldside, 1500 m, 2.7.1992, H.K 2583.

**C. flacca** Schreb. subsp. *serratula* (Biv.) Greuter

Sinop: Durağan, Kepez gorge, western slopes, in *P. brutia* forest, 400 m, 19.6.1993, H.K 1722.

**C. halleriana** Asso

Çorum: Kargı, Eğinönü Y., in *Astragalus* steppe, 1600 m, 28.6.1993, H.K 3375.

#### GRAMINEAE (Poaceae)

**Brachypodium sylvaticum** (Huds.) P.Beauv

Çorum: Osmancık, İnal village, in *P. brutia* forest, 700 m, 30.6.1993, H.K 3611.

Euro-Sib. el.

**B. pinnatum** (L.) P.Beauv.

Çorum: Osmancık, Karalargüney village, Gölbel, on fieldside, 1500 m, 1.8.1991, H.K 2068.

Euro-Sib. el.

**Trachynia distachya** (L.) Link

Çorum: Kargı, Demirören village, in *J. excelsa* woods, 350 m, 28.6.1993, H.K 3377.

**Elymus elongatus** (Host) Runemark subsp. *turcicus* (P.E. McGuire) Melderis

Çorum: Kargı, vicinity of Sinanözü village, open ground, 400 m, 4.8.1993, H.K 3802.

**E. repens** (L.) Gould subsp. *repens*.

Çorum: Osmancık, Karalargüney village, on fieldside, 1500 m, 1.8.1991, H.K 1963.

**Aegilops geniculata** Roth

Çorum: Kargı, Maksutlu village, Haftın, in *Astragalus* steppe, 550 m, 29.6.1993, H.K 3496.

Medit. el.

**Hordeum murinum** L. subsp. *glaucum* (Steud.) Tzvelev

Çorum: Osmancık, Karalargüney village, southern slopes, in *Astragalus* steppe, 1250 m, 30.6.1993, H.K 3721.

**H. bulbosum** L.

Çorum: Osmancık, Karalargüney village, in fallow fields, 1500 m, 2.7.1993, H.K 2550.

**Taeniatherum caput-medusae** (L.) Nevski subsp. *crinitum* (Schreb.) Melderis

Çorum: Kargı, Maksutlu village, Haftın, in *Astragalus* steppe, 600 m, 29.6.1993, H.K 3491.

**Bromus arvensis** L.

Çorum: Osmancık, Karalargüney village, on fieldside, 1500 m, 1.8.1991, H.K 1991.

**B. japonicus** Thunb. subsp. *japonicus*.

Çorum: Kargı, Demirören village, in *J. excelsa* woods, 350 m, 28.6.1993, H.K 3378.

**B. tectorum** L.

Çorum: Kargı, Maksutlu village, Haftın, in *Astragalus* steppe, 550 m, 29.6.1993, H.K 3488.

**B. sterilis** L.

Çorum: Kargı, Demirören village, in *J. excelsa* woods, 350 m, 28.6.1993, H.K 3384.

**B. madritensis** L.

Çorum: Osmancık, Karalargüney village, Gölbel, on fieldside, 1400 m, 30.6.1993, H.K 3669.

**B. benekenii** (Lange) Trimen

Çorum: Osmancık, Karalargüney village, southern slopes, in *Astragalus* steppe, 1250 m, 30.6.1993, H.K 3714.

(R).

**B. variegatus** M.Bieb. subsp. **variegatus**.

Çorum: Kargı, Eğinönü Y., in *P. sylvestris* forest, 1600 m, 28.6.1993, H.K 3311.

Ir.-Tur. el.

**Avena fatua** L. var. **fatua**.

Çorum: Osmancık, Alibeyköy village, 850 m, 29.6.1993, H.K 3562.

**Arrhenatherum elatius** (L.) P.Beauv & C.Presl subsp. **elatius**.

Çorum: Kargı, Eğinönü Y., in *P. sylvestris* forest, 1600 m, 28.6.1993, H.K 3310,

Euro-Sib. el.

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

Çorum: Kargı, Demirören village, in *J. excelsa* woods, 350 m, 28.6.1993, H.K 3379.

Ir.-Tur. el.

**Trisetum flavescens** (L.) P.Beauv.

Çorum: Osmancık, Karalargüney village, Gölbel, in *F. orientalis* forest, 1500 m, 2.7.1992, H.K 2568.

Euro-Sib. el.

**Koeleria nitidula** Velen.

Çorum: Osmancık, Karalargüney village, southern slopes, in *Astragalus* steppe, 1250 m, 30.6.1993, H.K 3718.

**K. cristata** (L.) Pers.

Çorum: Osmancık, vicinity of Deliler village, clearing in *P. brutia* woods, 500 m, 4.6.1992, H.K 2449.

**Calamagrostis pseudophragmites** (Haller f.) Koeler

Çorum: Osmancık, Karalargüney village, Gölbel, on fieldside, 1500 m, 1.8.1991, H.K 1962.

Euro-Sib. el.

**Apera intermedia** Hack.

Çorum: Osmancık, Karalargüney village, southern slopes, in *Astragalus* steppe, 1250 m, 30.6.1993, H.K 3719.

Ir.-Tur. el.

**Agrostis stolonifera** L.

Çorum: Osmancık, Karalargüney village, Gölbel, on fieldside, 1500 m, 1.8.1991, H.K 1972.

Euro-Sib. el.

**Polypogon viridis** (Gouan) Breistr.

Çorum: Osmancık, İnal village, in damp habitat, 600 m, 29.6.1993, H.K 3441.

Euro-Sib. el.

**P. monspeliensis** (L.) Desf.

Çorum: Kargı, vicinity of Maksutlu bridge, 300 m, 19.7.1991, H.K 1862.

**Anthoxanthum odoratum** L. subsp. **odoratum**.

Çorum: Kargı, Eğinönü Y., in *P. sylvestris* forest, 1600 m, 28.6.1993, H.K 3313.

Euro-Sib. el.

**Phleum pratense** L.

Samsun: Vezirköprü, Aşağısusuz village, Ardiçtepe, in macchie, 400 m, 26.6.1993, H.K 3044.

Euro-Sib. el.

**P. subulatum** (Savi) Asch. & Graebn. subsp. **subulatum**.

Sinop: Durağan, Kepez gorge, in *P. brutia* forest, 400 m, 23.6.1993, H.K 2835

**P. montanum** C.Koch subsp. **montanum**.

Çorum: Osmancık, İnal village, Güvercinkaya gorge, 600 m, 29.6.1993, H.K 3406.

**P. exaratum** Hochst. ex Griseb. subsp. **exaratum**.

Sinop: Durağan, Kepez gorge, on northern slopes, 300 m, 3.8.1993, H.K 3779.

**Festuca drymeja** Mert. & Koch

Çorum: Kargı, Eğinönü Y., in mixed forest of *Abies* & *Fagus*, 1300 m, 28.6.1993, H.K 3241.

Euro-Sib. el.

**F. arundinacea** Schreb. subsp. **arundinacea**.

Çorum: Kargı, vicinity of Sinanözü village, 350 m, 4.8.1993, H.K 3801.

**F. woronowii** Hack. subsp. **turcica** Markgr.-Dann.

Çorum: Osmancık, Karalargüney village, southern slopes, in *Astragalus* steppe, 1250 m, 30.6.1993, H.K 3717.

End.; Eux. (mt.) el.,

**F. valesiaca** Schleich. ex Gaudin

Sinop: Saraydüzü, Fakılı village, Zeytintürbe, in macchie, 450 m, 20.5.1992, H.K 2307.

**Lolium temulentum** L. var. **temulentum**.

Çorum: Osmancık, Karalargüney village, Gölbel, on fieldside, 1500 m, 1.8.1991, H.K 1967.

**Vulpia ciliata** Dumort. subsp. **ciliata**.

Çorum: Osmancık, Karalargüney village, southern slopes, in *Astragalus* steppe, 1250 m, 30.6.1993, H.K 3720.

**Catapodium rigidum** (L.) C.E.Hubbard ex Dony subsp. **rigidum** var. **rigidum**.

Samsun: Vezirköprü, Aşağısusuz village, Ardiçtepe, in macchie, 350 m, 26.6.1993, H.K 3047.

(V).

**Poa trivialis** L.

Çorum: Kargı, Eğinönü Y., in mixed forest of *Abies* & *Fagus*, 1300 m, 28.6.1993, H.K 3242.

**P. pratensis** L.

Samsun: Vezirköprü, Alan village, in *P. nigra* subsp. *pallasiana* forest, 1200 m, 27.6.1993, H.K 3167.

**P. nemoralis** L.

Çorum: Osmancık, Karalargüney village, southern slopes, in *Astragalus* steppe, 1250 m, 30.6.1993, H.K 3722.

**P. timoleontis** Heldr. ex Boiss.

Çorum: Kargı, Eğinönü Y., southern slopes, in *Astragalus* steppe, 1600 m, 28.6.1993, H.K 3368.

E. Medit. el.

**P. bulbosa** L.

Çorum: Kargı, Demirören village, in *J. excelsa* woods, 350 m, 28.6.1993, H.K 3380.

**Puccinella distans** (Jacq.) Parl. subsp. **distans**.

Çorum: Osmancık, Karalargüney village, Gölbel, on moist grass, 1500 m, 2.7.1992, H.K 2555.

**Dactylis glomerata** L. subsp. **hispanica** (Roth) Nyman

Çorum: Osmancık, Karalargüney village, Gölbel, clearing in *P. nigra* subsp. *pallasiana* forest, 1200 m, 2.7.1992, H.K 2579.

**Cynosurus cristatus** L.

Sinop: Durağan, Kepez gorge, western slopes, in *P. brutia* forest, 450 m, 23.6.1993, H.K 2834.

Euro-Sib. el.

**C. echinatus** L.

Çorum: Osmançık, Karalargüney village, Gölbel, on fieldside, 1500 m, 1.8.1991, H.K 1966.

Medit. el.

**Briza media** L.

Çorum: Osmançık, Karalargüney village, on fieldside, 1300 m, 1.8.1991, H.K 2005.

**B. humilis** M.Bieb.

Çorum: Osmançık to Kargı, 600 m, Tobey 2672I.

**Sesleria alba** Sm. in Sibth. & Sm.

Çorum: Kargı, Eğinönü Y., southern slopes, in *Astragalus* steppe, 1600 m, 28.6.1993, H.K 3367.

**Echinaria capitata** (L.) Desf.

Sinop: Durağan, Kepez gorge, 350 m, 3.8.1993, H.K 3776.

**Melica uniflora** Retz.

Çorum: Kargı, Eğinönü Y., in mixed forest of *Abies* & *Fagus*, 1300 m, 28.6.1993, H.K 3244.

Euro-Sib. el.

**M. eligulata** Boiss.

Sinop: Durağan, Kepez gorge, western slopes, in *P. brutia* forest, 350 m, 22.4.1992, H.K 2197.

E. Medit. el.

**M. ciliata** L. subsp. *ciliata*.

Sinop: Saraydüzü, Fakılı village, Zeytintürbe, 450 m, 20.5.1993, H.K 2299.

**Stipa bromoides** (L.) Dörfel.

Sinop: Saraydüzü, Fakılı village, Kışla district, 300 m, 20.6.1992, H.K 2508.

Medit. el.

**S. arabica** Trin. & Rupr.

Çorum: Kargı, Demirören village, in *J. excelsa* woods, 350 m, 28.6.1993, H.K 3382.

Ir.-Tur. el.

**Arundo donax** L.

Çorum: Osmançık, vicinity of Deliler village, edge of rice field, 600 m, 24.9.1991, H.K 2164.

**Eragrostis minor** Host

Çorum: Kargı, Demirören village, in *J. excelsa* woods, 350 m, 28.6.1993, H.K 3382.

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

Çorum: Kargı, vicinity of Maksutlu bridge, open ground, 300 m, 19.7.1991, H.K 1863.

**Tragus ramosus** (L.) All.

Çorum: Kargı, Maksutlu village, Haftın, in *Astragalus* steppe, 600 m, 29.6.1993, H.K 3498.

**Setaria verticillata** (L.) P.Beauv. var. *verticillata*.

Çorum: Kargı, Sinanözü village, 400 m, 4.8.1993, H.K 3783.

**Pennisetum orientale** Rich.

Çorum: Kargı, vicinity of Maksutlu bridge, on rocky slopes, 350 m, 19.7.1991, H.K 1870.

Ir.-Tur. el.

**Sorghum halepense** (L.) Pers. var. *halepense*.

Çorum: Kargı, vicinity of Maksutlu bridge, edge of rice field, 300 m, 19.7.1991, H.K 1881.

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

Sinop: Durağan, Kepez gorge, western slopes, in *P. brutia* forest, 450 m, 19.6.1991, H.K 1757.

**Bothriochloa ischaemum** (L.) Keng

Samsun: Vezirköprü, Aşağıdarıçay village, open ground, 300 m, 18.7.1991, H.K 1823.