

Flora of Mount Musa (Hatay-Turkey)

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Abstract: The field studies have been carried out to determine the flora of Mount Musa between 1994-1996. Nearly, 1000 plant specimens were collected. After identification of these specimens, total flora has been determined as 522 taxa at specific and subspecific ranks belonging to 287 genera and 87 families. The largest three families are *Fabaceae* (67 species), *Asteraceae* (55 species) and *Lamiaceae* (45 species). The largest genus is *Trifolium* L. (14 species) and the second is *Vicia* L. (11 species). Mount Musa is take part in the Mediterranean phytogeographical region. The phytogeographical spectrums of species are as follows: Mediterranean elements, 213 species (40.8 %); Euro-Siberian elements, 43 species (8.2 %); and Irano-Turanian elements, 19 species (3.6 %). The flora of Mount Musa has nearly 52 (9.3 %) endemic plant taxa. *Carthamus tenuis* (Boiss. & Bl.) Bornm. subsp. *gracillimus* (Rech. fil.) Hanelt (*Asteraceae/Compositae*) has been recorded first time from Turkey. The doubtful existences of *Echinops bicolor* Náb. (*Asteraceae/Compositae*) in Turkey has been confirmed by the collection of its specimen from Mount Musa.

Key Words: Mount Musa, Hatay, Flora, East Mediterranean, Turkey

Musa Dağı'nın Florası (Hatay-Türkiye)

Özet: Musa Dağı'nın florasını saptamak amacıyla 1994-1996 yılları arasında arazi çalışmaları yürütülmüştür. Bu çalışmalar esnasında yaklaşık 1000 bitki örneği toplanmıştır. Bu örneklerin teşhis edilmesiyle, 87 familyaya ait 287 cins, tür ve türaltı düzeyde 522 takson tespit edilmiştir. Araştırma alanında en fazla türe sahip ilk üç familya sırasıyla *Fabaceae* (67 tür), *Asteraceae* (55 tür) ve *Lamiaceae* (45 tür)'dir. En büyük cins *Trifolium* L. (14 tür), ikincisi ise *Vicia* L. (11 tür)'dir. Musa Dağı, Akdeniz fitocoğrafik bölgesinde yer almaktadır. Türlerin fitocoğrafik bölgelere göre dağılımı sırasıyla: Akdeniz elemanları, 213 tür (% 40.8); Avrupa-Sibirya elemanları, 43 tür (% 8.2) ve İran-Turan elemanları, 19 tür (% 3.6) şeklindedir. Musa Dağı'nın florasında 52 endemik tür (% 9.3) yer almaktadır. *Carthamus tenuis* (Boiss. & Bl.) Bornm. subsp. *gracillimus* (Rech. fil.) Hanelt (*Asteraceae/Compositae*), Türkiye'den ilk defa kayıt edilmiştir. *Echinops bicolor* Náb. (*Asteraceae/Compositae*) türünün Türkiye Florasındaki varlığı, bu türe ait örneğin Musa Dağı'ndan toplanması ile kesinlik kazanmıştır.

Anahtar Sözcükler: Musa Dağı, Hatay, Flora, Doğu Akdeniz, Türkiye

Introduction

Mount Musa is take place in the southern part of the Amanous Mountains that is situated in Mediterranean Phytogeographical region. The Amanous Mountains is remarkable for its endemic species. A number of Euxinian or Medio-European species also occur here as well as in northern Anatolia, such as *Taxus baccata* L., *Carpinus orientalis* Miller, *Fagus orientalis* Lipsky, *Fragaria vesca* L., *Buxus sempervirens* L., *Staphylea pinnata* L. Although, the Amanous mountain system and adjacent areas have

been took attention of many botanists because of occupies a special place with its florohistoric past in the flora of the East Mediterranean province, there are a few detailed studies on its vegetation and flora. The first detailed research on the flora and vegetation of Amanous Mountains had been done by Akman (1973) and second floristic study was conducted around Erzin district by Türkmen and Düzenli (1998). Both of these studies carried out mostly in the centre and north part of Amanous Mountains, but there has been no detailed study

on the flora and vegetation of mount Musa. However, many botanists have visited Amanous Mountains (Post, 1932-1933; Davis, 1965-1985; Davis et al., 1988; Zohary, 1973). Mount Musa was chosen for the reasons given above and the aim of this research is to contribute to complete total flora of whole mountains system of Amanous.

Mount Musa is situated in Hatay province. It is surrounded by Mediterranean Sea from west, district of Samandağ from south, the Plain of Asi River from east and the main range of Amanous Mountains from north. The altitude increases gradually from sea level to the top point (1250 m) in the southwest direction. It is sharply rising at the northeast direction from 300 m to the top. Thus, the main crest of the Mount Musa runs from northeast to southwest till the sea level (Fig. 1).

The geological structure of the research area essentially contains magmatic and sedimentary with a few metamorphic rocks. The majority of the magmatic rocks are ophiolitic, in age of upper cretaceous, with the remainder of effusive origin. The sediments of the lower altitude and plain are in the age of the lower Paleozoic and Quaternary (Yılmaz et al., 1984).

Research area has a typical Mediterranean climate. The annual average of precipitation is 1124 mm in Hatay and 937 mm in Samandağ according to the data obtained from Hatay and Samandağ meteorology stations. Snowfall rarely occurs between December and March. The annual average of temperature is 18.1 °C in Hatay and 18.8 °C in Samandağ. Rainy and humid climate is more effective especially in the deep valleys at the north, but, less rainy and drought conditions are common at the



Figure 1. Topographical map of Mount Musa.

south slopes. The seasonal precipitation regime for a year is as follows; winter (W), spring (S), autumn (A) and summer (S')-(WSAS'). As shown on the ombrometric diagrams an arid period was observed between June and September (Fig. 2).

The main types of vegetation in Mount Musa are composed by macchie and Forest. Macchie occurs at shallow soil on the calcareous main rock from sea level to 600 meters at the south and east slopes. It includes a lot of common tall shrubs such as *Pistacia terebinthus* L. subsp. *palaestina* (Boiss.) Engler, *Laurus nobilis* L., *Styrax officinalis* L., *Arbutus andrachne* L., *Myrtus communis* L. subsp. *communis* and *Cercis siliquastrum* L. subsp. *siliquastrum*. Some low shrub members like *Daphne sericea* Vahl, *Micromeria myrtifolia* Boiss. & Hohen., *Calamintha betulifolia* Boiss. & Bal., *Euphorbia macrostegia* Boiss., *Phlomis longifolia* Boiss. & Bl. var. *longifolia* and *Hypericum pallens* Banks & Sol. are frequently associated with this community.

The deciduous forests in Mount Mousa have been formed by *Carpinus orientalis*, *Buxus sempervirens*, *Ostrya carpinifolia* Scop., *Quercus cerris* L. var. *cerris* and

Fagus orientalis. They mostly common in the deep Valleys and shady places as pure or mixed forests at the northern slopes. The evergreen forests consist of *Pinus brutia* Ten. and *Pinus nigra* Arn. subsp. *pallasiana* (Lamb.) Holmboe.

Materials and Methods

The flora of Mount Musa was thoroughly and extensively surveyed between 1994-1996. Field notes on individual species and vegetation were made in various field tours. Plant materials collected during the field survey were mainly identified according to the *Flora of Turkey and The East Aegean Islands* (Davis, 1965-1985, Davis et al., 1988) and other flora books of neighboring countries such as Syria (Post, 1932) and Iraq (Guest & Townsend, 1968-1974).

The plant taxa of Mount Musa listed in the appendix. Ferns listed before the citation of spermatophytes. Gymnosperms are similarly given before angiosperms in the group of spermatophytes and dicots are listed before monocots within the group of angiosperms. But, other taxonomic categories in these main groups such as

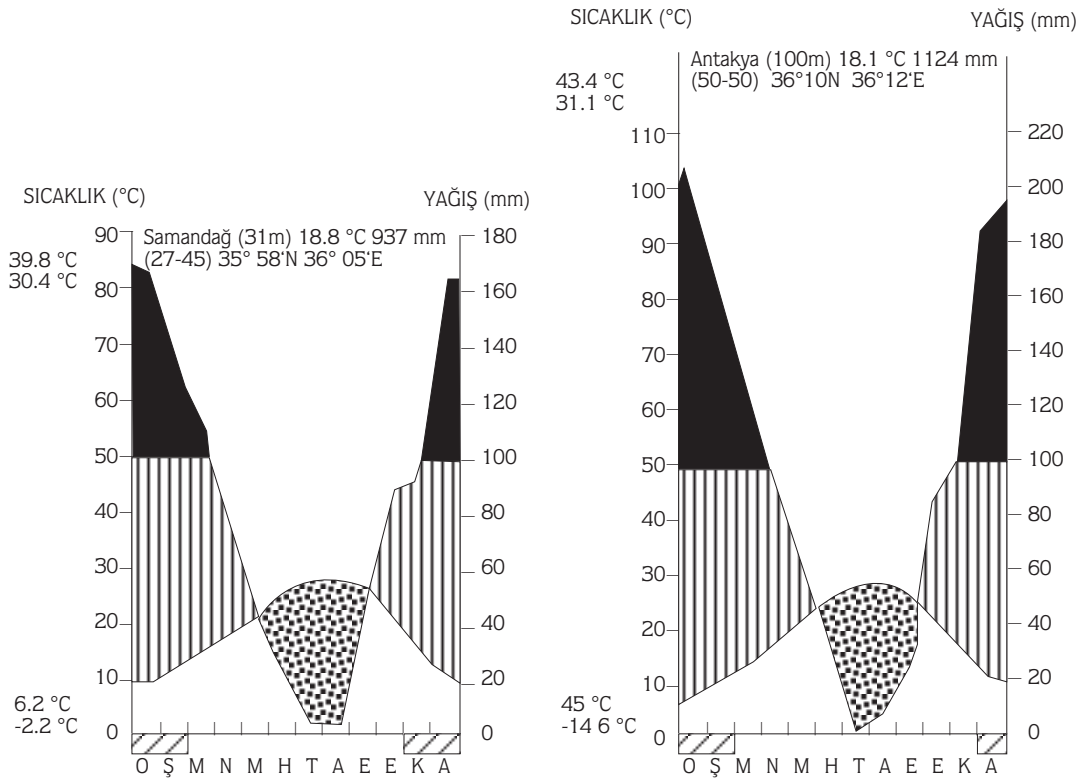


Figure 2. Climatic diagrams of Samandağ and Antakya.

families, genera and species are arranged in the alphabetical sequence. All taxa at the level of specific and subspecific ranks in the list are represented in the following order:

- i- The legitimate names and the authors of the species, subspecies and varieties
- ii- The locality, habitat, collection date and collector number of the specimens are given under each legitimate name of taxa.
- iii- The endemism and phytogeographical status of taxa are stated.

The abbreviations used in the text and appendix are as follows: Euro-Sib. - Euro-Siberian element; E.Medit.el.- East Mediterranean element; Medit.el.- Mediterranean element; Ir.-Tur. el. -Irano-Turanian element; HÇ.- Halil Çakan

All the herbarium specimens are kept in the Herbarium of Biology Department (ADA), Faculty of Art and science, Çukurova University, Adana.

Results and Discussion

More than 1000 plant specimens have been collected between the years of 1994-1996. After identification of these specimens, total flora of Mount Musa determined as 522 taxa at the specific and subspecific rank that are belong to 287 genera and 87 families.

The largest ten families are shown in table 2. The first largest family is *Fabaceae* with 67 species (12.8 %). The second one is *Asteraceae* with 55 species (10.5 %) and it is the largest family in the Flora of Turkey (Davis 1988). *Lamiaceae* with 45 species (8.6 %) and *Poaceae* with 42 species (8.0%) follow them, they take the same order in the Total Flora of Turkey. Others in ten largest families are *Rubiaceae* with 21 species (4.0 %), *Scrophulariaceae* with 21 species (4.0 %), *Caryophyllaceae* with 17 species (3.2 %), *Liliaceae* with 16 species (3.0 %), *Brassicaceae* 15 species (3.0 %) and *Apiaceae* with 14 species (2.6 %). These largest ten families include more than half of species (60 %) in flora. The first four largest families are in the same order in Mount Musa and other studies (Table 2). Other six families show little differences because of dissimilarities in local habitats (Table 1).

The largest five genera are *Trifolium* (14 species), *Vicia* (11 species), *Hypericum* L. (9 species), *Lathyrus* L. (9 species) and *Galium* L. (8 species) in the study area.

Table 1. The largest ten families in Mount Musa and other studies in the region.

Families	Mount Musa (Present study) %	Erzin-Dört Yol (Türkmen-1998) %	Amanous Mountains (Akman-1973) %
<i>Fabaceae (Leguminosae)</i>	12.8	12.2	14.3
<i>Asteraceae (Compositae)</i>	10.5	10.7	8.3
<i>Lamiaceae (Labiatae)</i>	8.6	6.0	8.3
<i>Poaceae (Gramineae)</i>	8.0	7.0	5.5
<i>Rubiaceae</i>	4.0	2.3	3.1
<i>Scrophulariaceae</i>	4.0	3.3	2.6
<i>Caryophyllaceae</i>	3.2	3.2	3.0
<i>Liliaceae</i>	3.0	4.6	4.0
<i>Brassicaceae (Cruciferae)</i>	3.0	4.8	5.0
<i>Apiaceae (Umbelliferae)</i>	2.6	3.2	4.0

Table 2. Percentage of phytogeographical elements and endemism in Mount Musa and adjacent regions.

Floristic Region	Mount Musa (Present study) %	Amanous Mountains (Akman-1973) %	Dört Yol-Erzin (Türkmen-1998) %
Mediterranean elements	40.8	65.0	29.9
Euro-Siberian elements	8.2	7.0	10.3
Irano-Turanian elements	3.6	2.5	5.8
Others	47.3	25.5	54.0
Endemic	9.9	3.0	7.5

But, *Astragalus* is represented only with one species, even it is one of the largest genera in the flora of Turkey. The reason of this, Mount Musa is under effect a humid and rainy local climate, in addition, it haven't a subalpin or alpin zone.

The entire research area is located in the East Mediterranean Region. Therefore, Mediterranean elements (40.8 %) have the highest percentage in the flora. On the other hand, Euro-Siberian elements have a higher percentage (8.2 %) than Irano-Turanian elements (3.6 %), because of local the humid climatic condition at the northern slopes of Mount Musa. However, nearly 247 taxa (47.3 %) are widespread to more than one phytogeographical region. The percentage of

phytogeographical elements in Mount Musa are very similar to the results of other studies (Akman, 1973; Türkmen and Düzenli, 1998) that were carried out on Amanous Mountains (table 1).

The rate of endemism in the research area is very low (9.9 %), when compare with endemism ratio in the total Flora of Turkey (30 %). Only 52 species are endemic to Turkey (Table 1). However, most of them are rare and local endemics. Some of them are just known only from type collections such as *Scorzonera lasiocarpa* Chamberlain, *Myosotis ramosissima* Rochel ex Schultes subsp. *uncata* (Boiss. & Bal.) Grav., *Phlomis amanica* Vierh., *Salvia tigrina* Hedge & Hub.-Mor. and *Stachys petrokosmos* Rech. fil. Other endemics are known from few collections such as *Chamaecytisus cassius* (Boiss.) Rothm., *Anthemis halophila* Boiss. & Bal., *Pimpinella isaurica* Matthews, *Verbascum tauri* Boiss. & Kotschy, *Verbascum pinetorum* (Boiss.) O.Kuntze, *Verbascum discolor* Murb., *Verbascum amanum* Boiss. and *Paracaryum shepardii* Post.&Beauverd (Davis, 1965-1985, Davis et al., 1988).

Carthamus tenuis subsp. *gracillimus* is a new record for Turkey. But, the description of this species was not given in this text because of its description stated in The Flora of Turkey, according to records from the Aegean islands (Davis, 1965-1988).

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The existence of *Echinops bicolor* in the Flora of Turkey was doubtful and it is closely related to *E. phaeocephalus* Hand.-Mazz. (Davis, 1965-1988). Both species are known only from single gatherings around Siirt Vilayet (located in the square of C8). Therefore, a specimen which is collected from Mount Musa may be referable to *E. bicolor*. The description of *E. bicolor* had been stated below the relevant species name according to the specimen from Mount Musa (see appendix).

The forest of *Fagus orientalis* and *Pinus nigra* subsp *pallasiana* have been found between 600-350 m at the nort slopes and deep valleys of Mount Musa. This observation is not usual for East Mediterranean Reagion, because of their occuring limits in Mediterranean Region are known between 900-2000 m. This result shows that the local humid climate and shady deep valleys could give favourable conditions to the high mountain forest members till near to sea level in the Mediterranean Region..

Acknowledgement

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Appendix

PTERIDOPHYTA

ADIANTACEAE

Adiantum capillus-veneris L.

C5 Antakya: Mount Musa, Teknepınarı Village, Mağara Dere Valley, in rock crevices, 470 m, 12 vii 1994, HÇ 206.

ASPIDACEAE

Dryopteris pallida (Bory) Fomin

C5 Antakya: Mount Musa, Çamlıyayla Village, around Zindan Dere, under *Pinus brutia* plantation, 350-450 m, 21 ii 1995, HÇ 381.

Medit. element.

ASPLENIACEAE

Asplenium onopteris L.

C5 Antakya: Mount Musa, around Sikkozluk, under macchie vegetation, 350-450 m, 21 ii 1995, HÇ 385.

Medit. element.

A. trichomanes L.

C5 Antakya: Mount Musa, Teknepınarı Village, Karapınar Valley, in rock crevices, 470 m, 20 vii 1994, HÇ 210.

Ceterach officinarum DC.

C5 Antakya: Mount Musa, Teknepınarı Village, Karapınar Valley, under macchie vegetation, 510 m, 20 vii 1994, HÇ 212.

Phyllitis scolopendrium (L.) Newman

C5 Antakya: Mount Musa, around Göksivri, shady places, 1100-1200 m, 21 vii 1994, HÇ 280.

HYPOLEPIDACEAE

Pteridium aquilinum (L.) Kuhn

C5 Antakya: Mount Musa, Büyükoba Village, Soğuksu Deresi, open places in *Pinus brutia* forest, 300-500m, 01 vi 1995, HÇ 984

POLYPODIACEAE

Polypodium australe Fée

C5 Antakya: Mount Musa, Göksivri Tepesi, under *Carpinus orientalis* forest, 1100-1250 m, 21 vii 1994, HÇ 276.

SINOPTERIDACEAE

Cheilanthes marantae (L.) Domin

C5 Antakya: Mount Musa, around Karanlık Dere, in macchie vegetation, 510m, 22 ii 1995, HÇ 407.

SPERMATOPHYTA

GYMNOSPERMAE

CUPRESSACEAE

Cupressus sempervirens L.

C5 Antakya: Mount Musa, Samandağ district, near to Çevlik, Çamlıbel Kayası, in macchie vegetation, 150-200 m, 27 iv 1995, HÇ 731.

Juniperus oxycedrus L. subsp. *oxycedrus*

C5 Antakya: Mount Musa, Teknepınarı Village, around Matranın Yeri, in macchie vegetation, 500-550, 26 iv 1995, HÇ 658.

PINACEAE

Pinus brutia Ten.

C5 Antakya: Mount Musa, Büyükoba Village, Kabak Tepe, mixed with *Quercus cerris*, 600 m, 11 vii 1996, HÇ 1457.

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

C5 Antakya: Mount Musa, Çamlıyayla Village, around Fakıgelen, in *Carpinus orientalis* forest, 450 m, 01 vi 1995, HÇ 951.

TAXACEAE

Taxus baccata L.

C5 Antakya: Mount Musa, İncebel, around Soğukoluk, in mixed forest of *Carpinus orientalis* and *Ostrya carpinifolia*, 1000 m, 21 vii 1994, HÇ 263.

ANGIOSPERMAE

DICOTYLEDONES

ACERACEAE

Acer monspessulanum L. subsp. *microphyllum* (Boiss.) Bornm.

C5 Antakya: Mount Musa, Kızılca, under mixed forest of *Carpinus orientalis* and *Ostrya carpinifolia*, 1070 m, 01 vii 1995, HÇ 1197.

AMARANTHACEAE

Amaranthus albus L.

C5 Antakya: Mount Musa, around Göksivri Tepesi, under mixed scrub of *Carpinus orientalis* and *Laurus nobilis*, 1000 m, 21 vii 1994, HÇ 259.

ANACARDIACEAE

Cotinus coggyria Scop.

C5 Antakya: Mount Musa, Samandağ district, near to Çevlik, Çamlıbel Kayası, in macchie vegetation, 150-200 m, 27 iv 1995, HÇ 730.

Pistacia lentiscus L.

C5 Antakya: Mount Musa, south slopes, near to Çevlik harbour, in low macchie vegetation, 150 m, 21 vii 1994, HÇ 288.

Medit. element.

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

C5 Antakya: Mount Musa, Teknepınarı Village, around Karapınar, open places of *Pinus brutia* forest, HÇ 202.

E. Medit. element.

Rhus coriaria L.

C5 Antakya: Mount Musa, around İncebel, in *Carpinus orientalis* forest, 700 m, 29 viii 1994 HÇ 307.

APIACEAE (UMBELLIFERAE)

Ainsworthia trachycarpa Boiss.

C5 Antakya: Mount Musa, Büyükoba Village, Soğuksu Deresi, open places in *Pinus brutia* forest, 300-500m, 01 vi 1995, HÇ 970.

E. Medit. element.

Anthriscus lamprocarpa Boiss.

C5 Antakya: Mount Musa, around Kızılca, under *Ostrya carpinifolia* forest, 900 m, 31 v 1995, HÇ 876.

E.Medit. element.

A. sylvestris (L.) Hoffm.

C5 Antakya: Mount Musa, Teknepınarı Village, around Kible Kayası, open places in *Carpinus orientalis* forest, 900 m, 26 iv 1995, HÇ 682.

Bupleurum pauciradiatum Fenzl

C5 Antakya: Mount Musa, Teknepınarı Village, Karapınar Valley, in macchie vegetation, 500 m, 08 x 1994, HÇ 346.

Endemic, Medit. element.

Cnidium silaifolium (Jacq.) Simonkai subsp. *orientale* (Boiss.) Tutin

C5 Antakya: Mount Musa, Teknepınarı Village, Karapınar Valley, in macchie vegetation, 520m, 20 vii 1994, HÇ 215.

Eryngium glomeratum Lam.

C5 Antakya: Mount Musa, Tataralan Yazlağı, around Çemili Tepe, stony places, 1030 m, 28 vii 1995, HÇ 1267.

Orlaya daucooides (L.) Greuter

C5 Antakya: Mount Musa, Teknepinarı Village, around Sikkozluk, in macchie vegetation, 550 m, 25 iv 1995, HÇ 615.

Medit. element.

Pimpinella corymbosa Boiss.

C5 Antakya: Mount Musa, Büyükoba Village, Soğuksu Deresi, open places in *Pinus brutia* forest, 300-500m, 01 vi 1995, HÇ 977.

Ir.-Tur. element.

P. isaurica Matthews

C5 Antakya: Mount Musa, around Göksivri Tepesi, open places in scrub of *Laurocerasus officinalis*, 1000-1100 m, 21 vii 1994, HÇ 1210.

Endemic, E. Medit. element. It is known only from two records (C4 Konya: Ermenek at Meydan Kebeni çeşmesi, 1400m, dry vertical and overhanging cliffs, 13 viii 1949, Davis 16148 and C5 İçel; nr. Gözne, N.W. of Mersin, 1200-1300m, Eig & Zohary 12821). It is allied to *P. tragium* Vill. subsp. polyclada (Boiss. & Heldr.) Tutin. It can be distinguished easily from *P. tragium* subsp. polyclada with petals densely hairy its whole dorsal surface.

P. kotschyana Boiss.

C5 Antakya: Mount Musa, Göksivri Tepesi, rocky cliffs, 1100-1250 m, 21 vii 1994, HÇ 278.

Ir.-Tur. element.

Sanicula europaea L.

C5 Antakya: Mount Musa, around Yangın Kulesi, in shady rock crevices, 1100 m, 31 v 1995, HÇ 891.

Euro-Sib.el.

Torilis arvensis (Huds.) Link subsp. **elongata** (Hoffmanns. & Link) Cannon

C5 Antakya: Mount Musa, Teknepinarı Village, around Çatak Boğazi, in macchie vegetation, 500-600m, 30 v 1995, HÇ 768.

Medit. element.

T. arvensis (Huds.) Link subsp. **purpurea** (Ten.) Hayek

C5 Antakya: Mount Musa, Büyükoba Village, Soğuksu Deresi, open places in *Pinus brutia* forest, 300-500m, 01 vi 1995, HÇ 979.

T. nodosa (L.) Gaertner

C5 Antakya: Mount Musa, Samandağ district, near to Çevlik, Çamlıbel Kayası, in macchie, 100, 27 iv 1995, HÇ 702.

APOCYNACEAE**Nerium oleander** L.

C5 Antakya: Mount Musa, Büyükoba Village, Soğuksu Deresi, open places in *Pinus brutia* forest, 300-500m, 01 vi 1995, HÇ 980.

Medit. element.

AQUIFOLIACEAE**Ilex colchica** Poj.

C5 Antakya: Mount Musa, between Göksivri Tepesi and Yangın Kulesi, in scrub of *Laurus nobilis*, 1150 m, 21 vii 1994, HÇ 279.

Euro-Sib. element.

ARALIACEAE**Hedera helix** L.

C5 Antakya: Mount Musa, Between Göksivri Tepesi and Harita Tepesi, on rocks and cliffs, 1100 m, 21 iii 1995, HÇ 452.

ASTERACEAE (COMPOSITAE)

Anthemis coelopoda Boiss. var. **bourgaei** Boiss.

C5 Antakya: Mount Musa, between Göksivri Tepesi and Yangın Kulesi, roadsides, 1100 m, 21 vii 1994, HÇ 282.

A. coelopoda Boiss. var. **longiloba** Grierson

C5 Antakya: Mount Musa, around Göksivri Tepesi, on rocky and gravelly area, 1250 m, 31 v 1995, HÇ 905.

A. halophila Boiss. & Balansa

C5 Antakya: Mount Musa, Büyükoba Village, Soğuksu Deresi, open places in *Pinus brutia* forest, 300-500m, 01 vi 1995, HÇ 975.

Endemic, E. Medit. element.

A. melanolepis Boiss.

C5 Antakya: Mount Musa, Teknepinarı Village, around Deli Kadir Tepesi, in macchie vegetation, 650-700 m, 30 v 1995, HÇ 800.

E. Medit. element. It had been recorded second time for the Flora of Turkey by this research. The first record had been done from C2 Muğla: Köyceğiz, as a new record for the Flora of Turkey (Güner et al., 1996). Collections from Mount Musa shows intermediate between *A. melanolepis* and *A. palaestina*. But, our specimens are probably belong to *A. melanolepis* according to descriptions in the Flora of Turkey (Davis, 1965-1988) with having some characters such as divaricately branched above, paleae all equally and cuspidate to truncate.

A. tinctoria L. var. **discoidea** (All.) DC.

C5 Antakya: Mount Musa, Teknepinarı Village, around Deli Kadir Tepesi, in macchie vegetation, 650m, 30 v 1995, HÇ 823.

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

C5 Antakya: Mount Musa, around Yangın kulesi, roadsides, 1100-1250 m, 21 vii 1994, HÇ 272.

Euro-Sib. element.

Artemisia arborescens L.

C5 Antakya: Mount Musa, Kapisuyu Village, roadsides, 120 m, 03 vii 1995, HÇ 1246.

Medit. element.

Calendula arvensis L.

C5 Antakya: Mount Musa, between Tavuk Gediği and Kamışlık, on field banks, 300 m, 22 iii 1995, HÇ 475.

Carduus nutans L. subsp. **nutans**

C5 Antakya: C5 Antakya: Mount Musa, Teknepinarı Village, around Çatak Boğazi, in macchie vegetation, 500-600m, 30 v 1995, HÇ 799.

C. pycnocephalus L. subsp. **breviphyllarius** P.H.Davis

C5 Antakya: Mount Musa, Tombulun Yazlağı, open places in scrub of *Carpinus orientalis*, 900-950 m, 31 v 1995, HÇ 915.

Ir.-Tur. element.

C. pycnocephalus L. subsp. **pycnocephalus**

C5 Antakya: Mount Musa, Teknepinarı Village, around Deli Kadir Tepesi, in macchie vegetation, 650-700 m, 30 v 1995, HÇ 801.

E. Medit. element.

Carpesium cernuum L.

C5 Antakya: Mount Musa, around Incebel, in *Carpinus orientalis* forest, 720 m, 29 viii 1994, HÇ 341.

Carthamus tenuis (Boiss. & Balansa) Bornm. subsp. **gracillimus** (Rech.f.) Hanelt

C5 Antakya: Mount Musa, Tataralan Yazlağı, around Çemili tepe, in scrub of *Buxus sempervirens*, HÇ 1268.

This species has two subspecies (subsp. *tenuis* and subsp. *gracillimus*) in the Flora of Turkey (Davis, 1965-1985). *C. tenuis* subsp. *tenuis* is known in Turkey only from one record (C5 İçel: 36 km E. of Silifke, 100 m, Sorger 71-27-1). Other subsp. (*C. tenuis* subsp. *gracillimus*) is known only from the type (Rhodos, in saxosis calc. a promont. Vodi meridiem versus, 24 vi 1935, Rechinger). Subsp. *gracillimus* differs from subsp. *tenuis* with its longer (3-3.5 cm) and patent to reflexed outer phyllaries. Collections from Mount Musa mostly close to subsp. *gracillimus* with their long (2.5-4 cm) and patent to slightly reflexed outer phyllaries.

Centaurea antiochia Boiss. var. **antiochia**

C5 Antakya: Mount Musa, Teknepinarı Village, around Matranın Yeri, under *Pinus brutia* forest, 500-550 m, 26 iv 1995, HÇ 987.

E. Medit. element.

C. cheirolopha (Fenzl) Wagenitz

C5 Antakya: Mount Musa, around Tavuk Gedığı, open *Quercus cerris* forest, 600-700 m, 01 vi 1995, HÇ 921.

E. Medit. element.

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

C5 Antakya: Mount Musa, Göksivri Tepesi, rocky slopes, 1250 m, 31 v 1995, HÇ 899.

E. Medit. element.

Cirsium vulgare (Savi) Ten.

C5 Antakya: Mount Musa, Çamlıyayla Village, around Zindan Dere, open places in *Pinus brutia* forest, 400 m, 27 vii 1995, HÇ 1255.

Conyza bonariensis (L.) Cronquist

C5 Antakya: Mount Musa, Çamlıyayla Village, around Zobbe Çayı, 300-350 m, 01 vi 1995, HÇ 963.

Crepis frigida (Boiss. & Balansa) Babcock

C5 Antakya: Mount Musa, Çamlıyayla Village, around Zobbe Çayı, under *Pinus brutia* forest, stream banks, 350 m, 02.11.1995, HÇ 1298.

Ir.-Tur. element.

C. palaestina (Boiss.) Bornm.

C5 Antakya: Mount Musa, Tombulun Yazlağı, on rocky clefts, 650 m, 31 v 1995, HÇ 912.

Euro-Sib. element.

C. reuterana Boiss. subsp. **reuterana**

C5 Antakya: Mount Musa, Salındırma Kayası, under *Carpinus orientalis* forest, 1100-1230 m, 02 vii 1995, HÇ 1219.

E. Medit. element.

C. sancta (L.) Babcock

C5 Antakya: Mount Musa, Teknepinarı Village, Karapınar Valley, on rocky cliffs, 450 m, 25 iv 1995, HÇ 593.

C. zacintha (L.) Babcock

C5 Antakya: Mount Musa, Teknepinarı Village, around Armut Tepe, in macchie vegetation, 500 m, 31 v 1995, HÇ 861.

Medit. element.

Doronicum orientale Hoffm.

C5 Antakya: Mount Musa, between Incebel and Kirazlı Gedik, under *Pinus brutia* forest, 700 m, 21 iii 1995, HÇ 439.

Echinops bicolor Nábêlek

C5 Antakya: Mount Musa, around Sıkkozluk, in macchie vegetation, 500 m, in macchie vegetation, HÇ 350.

Stem up to 35-40 cm, simple, leafy, unbranched, conspicuously 5 ridged, lanate without glandular hairs on the ridges, but densely glandular hairy between ridges. Basal leaves lanceolate in outline, pinnatifid with 4-5 pairs of triangular-lanceolate lobes, green above with sparsely glandular hairy, below densely lanate, only glandular hairs on the prominent nervation; spines less, slender 4-8 mm. Cauline leaves auriculate to semi-amplexicaule, above glandular hairy, below lanate without glandular hairs. Heads 4-5 cm

with short leafless peduncles, 1-1.5 cm. Capitulum 20-24 mm, 4-5 mm broad in flower; brush shorter equal c.6-7mm, gradually expanding to outer small phyllaries. Phyllaries 20-21, glabrous, pectinate-ciliate; outer 7-8 mm, widening at apex to triangular-spathulate; inner c. 5 connate to about more than 1/2 their length. Corolla dark blue. Achenes immature?

According to the Flora of Turkey and the East Aegean Islands (3), it is doubtful whether the specimen of *E. bicolor* was collected from Turkey. It is closely related to *E. phaeocephalus* and these two taxa are possibly conspecific (3). But, the specimen from Mount Musa probably belongs to *E. bicolor* because of its glandular stem. The taxonomic status of these species is still uncertain, because they known only from a few gatherings.

E. microcephalus C.Sm.

C5 Antakya: Mount Musa, Tataralan Yazlağı, in scrub, 700-800 m, 20 vii 1994, HÇ 248.

Medit. element.

E. orientalis Trautv.

C5 Antakya: Mount Musa, Tataralan Yazlağı, around Çemili Tepe, in scrub of *Buxus sempervirens*, 1030 m, 28 vii 1995, HÇ 1269.

Ir.-Tur. element.

Filago pyramidata L.

C5 Antakya: Mount Musa, Teknepinarı Village, around Çatak Boğazı, in macchie vegetation, 500 m, 30 v 1995, H.848.

Hedypnois cretica (L.) Dum.-Cours.

C5 Antakya: Mount Musa, Samandağ district, around Çevlik, in macchie vegetation, 200 m, 27 iv 1995, HÇ 717.

Medit. element.

Inula viscosa (L.) Aiton

C5 Antakya: Mount Musa, Eriklikuyu Village, around Çoban Kayası, in disturbed macchie, 500-600 m, 08 x 1994, HÇ 356.

Medit. element.

I. vulgaris (Lam.) Trevisan

C5 Antakya: Mount Musa, around Incebel, in *Carpinus orientalis* forest, 600-900 m, 29 viii 1994, HÇ 312.

Euro-Sib. element.

Lapsana communis L. subsp. *pisidica* (Boiss. & Heldr.) Rech.fil.

C5 Antakya: Mount Musa, Teknepınarı village, around Deli Kadir Tepesi, in macchie vegetation, 650 m, 30 v 1995, HÇ 854.

E. Medit. element.

Leontodon oxylepis Boiss. & Heldr. var. *oxylepis*

C5 Antakya: Mount Musa, around Göksivri Tepesi, in rock crevices, 1200 m, 31 v 1995, HÇ 897.

E. Medit. element.

Leucanthemum myconis (L.) Giraud

C5 Antakya: Mount Musa, Kapisuyu Village, in macchie vegetation, 300 m, 02 vii 1995, HÇ 1289.

Medit. element.

Phagnalon graecum Boiss.

C5 Antakya: Mount Musa, Samandağ district, around Çevlik, in macchie vegetation, 0-50 m, 27 iv 1995, HÇ 700.

Medit. element.

Picnomon acarna (L.) Cass.

C5 Antakya: Mount Musa, Tataralan Yazlağı, in macchie vegetation, 500 m, 20 vii 1994, HÇ 251.

Medit. element.

Picris hieracioides L.

C5 Antakya: Mount Musa, Çamlıyayla Village, around Karanlık Dere, open places in *Pinus brutia* forest, 400 m, 27 vii 1995, HÇ 1256.

Euro-Sib. element.

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

C5 Antakya: Mount Musa, Teknepınarı Village, around Armut Tepe, in scrub vegetation, 650 m, 31 v 1995, HÇ 852.

P. piloselloides (Vill.) Soják subsp. *megalomastix* (N.P.) Sell & West

C5 Antakya: Mount Musa, Teknepınarı Village, around Çatak Boğazı, under scrub of *Carpinus orientalis*, 700 m, 30 v 1995, HÇ 843.

Ptilostemon chamaepeuce (L.) Less.

C5 Antakya: Mount Musa, Çamlıyayla Village, around Zobbe Çayı, under *Pinus*

brutia forest, 300-350 m, 01 vi 1995, HÇ 953.

E. Medit. element.

P. diacantha (lab.) Greuter subsp. *turcicus* Greuter

C5 Antakya: Mount Musa, around Yanık Karma, under *Pinus brutia* forest, 400 m, 01 vi 1995, HÇ 988.

E. Medit. element.

Rhagadiolus stellatus (L.) Gaertner var. *edulis* (Gaertner) DC.

C5 Antakya: Mount Musa, Teknepınarı Village, Karapınar Valley, in macchie vegetation, 500 m, 25 iv 1995, HÇ 573.

Scorzonera cana (C.A.Mey.) Hoffm. var. *radicosa* (Boiss.) Chamberlain

C5 Antakya: Mount Musa, Tataralan Yazlağı, around Sultan Tepe, in *Carpinus orientalis* forest, 800-900 m, 25 iv 1995, HÇ 627.

S. lasiocarpa Chamberlain

C5 Antakya: Mount Musa, between Tavuk Gediği and Kamaşlık, open places in *Pinus brutia* forest, 290 m, 22 iii 1995, HÇ 487.

Endemic. E. Medit. element.

Senecio vernalis Waldst. & Kit.

C5 Antakya: Mount Musa, around Çamlıyayla Village, in deserted agricultural lands, 300 m, 21 ii 1995, HÇ 392.

Silybum marianum (L.) Gaertner

C5 Antakya: Mount Musa, around Ambar, open places in scrub of *Carpinus orientalis*, 900 m, 31 v 1995, HÇ 913.

Medit. element.

Solidago virgaurea L. subsp. *virgaurea*

C5 Antakya: Mount Musa, around İncebel, under *Carpinus orientalis* forest, 840 m, 29 viii 1994, HÇ 329.

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

C5 Antakya: Mount Musa, around Kible Kayası, open places in *Pinus brutia*, 400 m, 21 iii 1995, HÇ 462.

S. oleraceus L.

C5 Antakya: Mount Musa, Büyükoba Village, Soğuksu Deresi, open places in *Pinus brutia* forest, 300-500m, 01 vi 1995, HÇ 985.

Staezelina lobelii DC.

C5 Antakya: Mount Musa, Tavuk Gediği, on rocky cliffs, 750 m, 01 vi 1995, HÇ 922.

E. Medit. element.

Steptorhamphus tuberosus (Jacq.) Grossh.

C5 Antakya: Mount Musa, Çamlıyayla Village, around Zobbe Çayı, in *Pinus brutia* plantation, 350 m, 01 vi 1995, HÇ 953.

Tanacetum cilicium (Boiss.) Grierson

C5 Antakya: Mount Musa, Teknepınarı Village, around Çatak Boğazı, in macchie vegetation, 500-600m, 30 v 1995, HÇ 792.

E. Medit. element.

Tragopogon longirostris Bisch. ex Sch.Bip. var. *longirostris*

C5 Antakya: Mount Musa, Tataralan Yazlağı, around Armut Tepe, in macchie vegetation, 500 m, 31 v 1995, HÇ 863.

Tussilago farfara L.

C5 Antakya: Mount Musa, Çamlıyayla Village, around Bağirsak Dere, under *Pinus nigra* subsp. *pallasiana*, forest, 600 m, 19 iv 1996, HÇ 1335.

Euro-Sib. element.

Urospermum picroides (L.) F.W.Schmidt

C5 Antakya: Mount Musa, Teknepınarı Village, around Ekinkuyu, in rock crevices, 500 m, 25 iv 1995, HÇ 613.

Medit. element.

BETULACEAE

Alnus glutinosa (L.) Gaertner subsp. *antitaurica* Yalt.

C5 Antakya: Mount Musa, Büyükoba Village, Soğuksu Deresi, streamsides, 400m, 27 vii 1995, HÇ 1252.

Endemic. E. Medit. element.

A. orientalis Decne. var. *orientalis*

C5 Antakya: Mount Musa, Büyükoba Village, Soğuksu Deresi, open places in *Pinus brutia* forest, 300-500m, 01 vi 1995, HÇ 982.

E. Medit. element.

A. orientalis Decne. var. *pubescens* Dippel

C5 Antakya: Mount Musa, Çanaklık Komu, streamsides, 100-200 m, 01 vi 1995, HÇ 951.

Endemic, E. Medit. element.

BORAGINACEAE

Anchusa azurea Mill. var. *azurea*,

C5 Antakya: Mount Musa, Samandağ district, around Çevlik, in macchie vegetation, 0-50 m, 27.04.1995, HÇ 692.

A. strigosa Labill.

C5 Antakya: Mount Musa, Teknepinarı Village, around Çatak Boğazı, in macchie vegetation, 500-600m, 30 v 1995, HÇ 798.

Brunnera orientalis (Schenk) Johnston

C5 Antakya: Mount Musa, Göksivri Tepesi, under mixed forest of *Quercus cerris* and *Carpinus orientalis*, 1000-1250 m, 21 vii 1994, HÇ 260.

E. Medit. element.

Cynoglossum columnae Ten.

C5 Antakya: Mount Musa, between Kızılca and Kible Kayası, open places in *Ostrya carpinifolia* forest, 900, m, 31 v 1995, HÇ 871.

E. Medit. element.

C. officinale L.

C5 Antakya: Mount Musa, Teknepinarı Village, around Çifte Kuyular, in scrub of *Laurus nobilis*, 700 m, 25 iv 1995, HÇ 644.

Euro-Sib. element.

Myosotis ramosissima Rochel ex Schultes subsp. *uncata* (Boiss. & Balansa) Grau

C5 Antakya: Mount Musa, Teknepinarı Village, around Ekinkuyu, in scrub of *Carpinus orientalis* and *Quercus coccifera*. 550 m, 25 iv 1995, HÇ 606.

Endemic. E. Medit. element.

Nonea obtusifolia (Willd.) DC.

C5 Antakya: Mount Musa, Tataralan Yazlağı, in scrub of *Carpinus orientalis*, 700 m, 25 iv 1995, HÇ 631.

E. Medit. element.

Onosma cassium Boiss.

C5 Antakya: Mount Musa, Samandağ district, Çevlik, around Şahlan Kaya, in macchie vegetation, 23 ii 1995, HÇ 416.

E. Medit. element.

Paracaryum shepardii Post & Beauverd

C5 Antakya: Mount Musa, Göksivri Tepesi, on the top area, on rocks, 1250 m, 31 v 1995, HÇ 903.

Endemic. E. Medit. element.

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

C5 Antakya: Mount Musa, Çamlıyayla Village, on the border of fields, 320 m, 21 ii 1995, HÇ 399.

Symphytum aintabicum Hub.-Mor. & Wickens

C5 Antakya: Mount Musa, Çamlıyayla Village, around Zobbe Çayı, open places of *Pinus brutia* plantation, 450 m, 21 ii 1995, HÇ 386.

Endemic. E. Medit. element.

S. brachycalyx Boiss.

C5 Antakya: Mount Musa, around Sulu Mağara, under *Quercus cerris* forest, 500 m, 22 ii 1995, HÇ 403.

E. Medit. element.

S. orientale L.

C5 Antakya: Mount Musa, between İncebel and Kirazlı Gedik, under *Carpinus orientalis* forest, 700 m, 21 iii 1995, HÇ 448.

Euro-Sib. element.

BRASSICACEAE (CRUCIFERAE)

Alyssum strigosum Banks & Sol. subsp. *strigosum*

C5 Antakya: Mount Musa, Teknepinarı Village, around Armut Tepe, in scrub of *Laurus nobilis*, 30 v 1995, HÇ 857.

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

C5 Antakya: Mount Musa, around Göksivri Tepesi, in rock crevices, 1050 m, 26 iv 1995, HÇ 665.

E. Medit. element.

Capsella bursa-pastoris (L.) Medik.

C5 Antakya: Mount Musa, Çamlıyayla Village, Zobbe Çayı, open places in *Pinus brutia* forest, 330 m, 21 iii 1995, HÇ 459.

Cosmopolitan.

C. rubella Reut.

C5 Antakya: Mount Musa, Çamlıyayla Village, in deserted fields, 320 m, 21 ii 1995, HÇ, 395.

E. Medit. element.

Cardamine hirsuta L.

C5 Antakya: Mount Musa, Sulu Mağara, around Karanlık Dere, open places in *Pinus brutia* forest, 300 m, 22 iii 1995, HÇ 473.

Cosmopolitan.

C. tenera Gmel.

C5 Antakya: Mount Musa, Çamlıyayla Village, Zobbe Çayı, open places in *Pinus brutia* plantation, 450 m, 21 ii 1995, HÇ 387.

Euro-Sib. element.

Erysimum goniocaulon Boiss.

C5 Antakya: Mount Musa, Teknepinarı Village, Deli Kadir Tepesi, in macchie vegetation, 650 m, 30 v 1995, HÇ 821.

Fibigia clypeata (L.) Medik.

C5 Antakya: Mount Musa, Teknepinarı Village, Karapınar Valley, in macchie vegetation, 470 m, 20 vii 1994, HÇ 209.

Isatis pinnatiloba P.H.Davis

C5 Antakya: Mount Musa, Karanlık Dere, under *Pinus brutia* forest, 510 m, 23 ii 1995, HÇ 411.

Endemic. E. Medit. element.

Matthiola sinuata (L.) R.Br.

C5 Antakya: Mount Musa, Kızılca, under mixed forest of *Carpinus orientalis* and *Ostrya carpinifolia*, 1070 m, 01 vii 1995, HÇ 1200.

Nasturtium officinale R.Br.

C5 Antakya: Mount Musa, Teknepinarı Village, around Fakıgelen, streamsides, 450 m, 19 iv 1996, HÇ 1324a.

Raphanus raphanistrum L.

C5 Antakya: Mount Musa, Teknepinarı Village, around Çatak Boğazı, in macchie vegetation, 480 m, 25 iv 1995, HÇ 646.

Ricotia sinuata Boiss. & Heldr.

C5 Antakya: Mount Musa, Samandağ district, Çevlik, near to Şahlan Kaya, in macchie vegetation, 20 m, 23 ii 1995, HÇ 413.

Endemic.

Thlaspi annuum K.Koch

C5 Antakya: Mount Musa, Kiraz Gediği, in *Carpinus orientalis* forest, 900 m, 21 iii 1995, HÇ 445.

T. violascens Boiss.

C5 Antakya: Mount Musa, Tataralan Yazlağı, open places in scrub of *Carpinus orientalis*, 750 m, 25 iv 1995, HÇ 628.

Endemic. E. Medit. element.

Turritis laxa (Sibth. & C.Sm.) Hayek

C5 Antakya: Mount Musa, around Tavuk Gediği, under *Pinus brutia* forest, 510 m, 22 iii 1995, HÇ 470.

BUXACEAE**Buxus sempervirens** L.

C5 Antakya: Mount Musa, around Göksivri Tepesi, as mixed scrub with *Carpinus orientalis*, 1100 m, 21 vii 1994, HÇ 258.

Euro-Sib. element.

CAMPANULACEAE

Asyneuma virgatum (Labill.) Bornm. subsp. *cichoriiforme* (Boiss.) Damboldt

C5 Antakya: Mount Musa, between Göksivri Tepesi and Kızılca, open places in scrub of *Laurocerasus officinalis*, 1050 m, 01 vii 1995, HÇ 1208.

Endemic. Medit. element.

A. virgatum (Labill.) Bornm. subsp. *virgatum*

C5 Antakya: Mount Musa, around Göksivri Tepesi, under scrub of *Staphylla pinnata*, 1160 m, 21 vii 1994, HÇ 277.

Campanula buseri Damboldt

C5 Antakya: Mount Musa, between Göksivri Tepesi and Yangın Kulesi, in rock crevices, 1120 m, 21 vii 1994, HÇ 274.

E. Medit. element.

C. peregrina L.

C5 Antakya: Mount Musa, Teknepınarı köyü, Karapınar Valley, in macchie vegetation, 470 m, 20 vii 1994, HÇ 203.

E. Medit. element.

C. rapunculoides L. var. *rapunculoides*

C5 Antakya: Mount Musa, Teknepınarı Village, Deli Kadir Tepesi, in macchie vegetation, 650 m, 30 v 1995, HÇ 811.

C. retrorsa Labill.

C5 Antakya: Mount Musa, Tataralan Yazlağı, in scrub of *Laurus nobilis*, 700 m, HÇ 246.

Legousia falcata (Ten.) Fritsch

C5 Antakya: Mount Musa, Samandağ district, Çevlik harbour, in macchie vegetation, 150 m, 27 iv 1995, HÇ 713.

Medit. element.

Michauxia campanuloides L'Hérit. ex Aiton

C5 Antakya: Mount Musa, Kapisuyu Village, around Kabaklı, roadsides, 250 m, 03 vii 1995, HÇ 1244.

E. Medit. element.

CAPRIFOLIACEAE

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

C5 Antakya: Mount Musa, Göksivri Tepesi, open places in mixed forest of *Carpinus orientalis* and *Ostrya carpinifolia*, 1070 m, 21 vii 1994, HÇ 254.

Endemic. E. Medit. element.

L. etrusca Santi var. *hispidula* Boiss.

C5 Antakya: Mount Musa, around Kızılca, stony places, 1070 m, 01 vii 1995, HÇ 1202.

E. Medit. element.

Sambucus ebulus L.

C5 Antakya: Mount Musa, around Kızılca, open places in scrub of *Carpinus orientalis*, 1050 m, 21 vii 1994, HÇ 252.

Euro-Sib. element.

CARYOPHYLLACEAE**Agrostemma githago** L.

C5 Antakya: Mount Musa, around Kızılca, under *Quercus cerris* forest, 1000 m, 31 v 1995, HÇ 882.

Arenaria cassia Boiss.

C5 Antakya: Mount Musa, around Kızılca, stony places, 1070 m, 01 vii 1995, HÇ 1209.

A. deflexa Dec. subsp. *deflexa*

C5 Antakya: Mount Musa, Göksivri Tepesi, shady edge of rocks, 1100 m, 31 v 1995, HÇ 893.

E. Medit. element.

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

C5 Antakya: Mount Musa, Göksivri Tepesi, rocky places, 1250 m, 26 iv 1995, HÇ 677.

C. glomeratum Thuill.

C5 Antakya: Mount Musa, Çamlıyayla Village, around Zindandere, in *Pinus brutia* plantation, 350-450 m, 21 iii 1995, HÇ 454, cozmopolitan.

Dianthus polycladus Boiss.

C5 Antakya: Mount Musa, Teknepınarı Village, Karapınar Valley, in macchie vegetation, 520 m, 20 vii 1994, HÇ 216.

E. Medit. element.

D. strictus Banks & Sol. var. *axilliflorus* (Fenzl) Reeve

C5 Antakya: Mount Musa, around Incebel, in *Carpinus orientalis* forest, 820 m, 29 viii 1994, HÇ 332.

D. strictus Banks & Sol. var. *subenervis* (Boiss.) Reeve

C5 Antakya: Mount Musa, Kamışlık Yurdu, under *Pinus brutia* forest, 300 m, 22 iii 1995, HÇ 935.

Minuartia hybrida (Vill.) Schischk. subsp. *turcica* Mc Neill

C5 Antakya: Mount Musa, between Tavuk Gediği and Kamışlık, open places in *Pinus brutia* forest, 290 m, 22 iii 1995, HÇ 495.

M. mesogitana (Boiss.) Hand.-Mazz. subsp. *mesogitana*

C5 Antakya: Mount Musa, Salındırma Kayası, stony places, 1100-1230 m, 31 v 1995, HÇ 886.

E. Medit. element.

Petrorhagia syriaca (Boiss.) Mouterde & Greuter

C5 Antakya: Mount Musa, Büyükoba Village, Soğuksu Deresi, open places in *Pinus brutia* forest, 300-500m, 01 vi 1995, HÇ 956.

Silene aegyptiaca (L.) L. fil. subsp. *aegyptiaca*

C5 Antakya: Mount Musa, Teknepınarı Village, Karapınar Valley, in macchie vegetation, 500 m, 25 iv 1995, HÇ 565.

S. confertiflora Chowdh.

C5 Antakya: Mount Musa, around Incebel, roadsides in *Carpinus orientalis* forest, 600-900 m, 29 viii 1994, HÇ 330.

S. italica (L.) Pers.

C5 Antakya: Mount Musa, İkizkörü Village, around Büyükdüz Tepesi, under *Pinus brutia* forest, 550 m, 26 iv 1995, HÇ 654.

S. vulgaris (Moench) Garcke var. **macrocarpa** (Turriell) Coode & Cullen

C5 Antakya: Mount Musa, Teknepınarı Village, Deli Kadir Tepesi, in macchie vegetation, 650 m, 30 v 1995, HÇ 825.

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

C5 Antakya: Mount Musa, Büyükoba Village, Soğuksu Deresi, open places in *Pinus brutia* forest, 300-500m, 21 ii 1995, HÇ 397.

S. media (L.) Vill. subsp. **postii** Holmboe

C5 Antakya: Mount Musa, Teknepınarı Village, around Ekinkuyu, in scrub of *Carpinus orientalis* and *Quercus coccifera*, 550 m, 25 iv 1995, HÇ 612.

CELASTRACEAE

Euonymus europaeus L.

C5 Antakya: Mount Musa, Kızılca, in mixed forest of *Carpinus orientalis* and *Ostrya carpinifolia*, 1070 m, 31 v 1995, HÇ 881.

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

C5 Antakya: Mount Musa, Kızılca, stony places, 1050 m, 01 vii 1995, HÇ 1193.

Euro-Sib. element.

CHENOPODIACEAE

Salsola kali L.

C5 Antakya: Mount Musa, Kapisuyu Village, in macchie vegetation, 300 m, 02 vii 1995, HÇ 1246a.

CISTACEAE

Cistus creticus L.

C5 Antakya: Mount Musa, Samandağ district, near to Çevlik, around Çamlıbel Kayası, in macchie vegetation, 0-200 m, 27 iv 1995, HÇ 729.

Medit. element.

C. salviifolius L.

C5 Antakya: Mount Musa, between Tavuk Gediği and Kamışlık, open places in *Pinus brutia* forest, 290 m, 22 iii 1995, HÇ 484.

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

C5 Antakya: Mount Musa, Samandağ district, near to Çevlik, around Çamlıbel

Kayası, in macchie vegetation, 200 m, 27 iv 1995, HÇ 686

F. thymifolia (L.) Verlot var. **viridis** (Ten.) Boiss.

C5 Antakya: Mount Musa, between Tavuk Gediği and Kamışlık, open places in *Pinus brutia* forest, 290 m, 22 iii 1995, HÇ 489.

Medit. element.

Helianthemum kotschyianum Boiss.

C5 Antakya: Mount Musa, Teknepınarı Village, Mağara Dere Valley, in overgrazed and cleared macchie, 450-500 m, 30 v 1995, HÇ 838.

Ir.-Tur. element.

H. nummularium (L.) Mill. subsp. **tomentosum** (Scop.) Schinz & Thell.

C5 Antakya: Mount Musa, Teknepınarı Village, Karapınar Valley, in macchie vegetation, 500 m, 25 iv 1995, HÇ 567.

CONVOLVULACEAE

Calystegia silvatica (Kit.) Griseb.

C5 Antakya: Mount Musa, Büeyik Komu, around Çolağın Tepesi, in scrub of *Carpinus orientalis*, 500-750 m, 31 v 1995, HÇ 858.

Convolvulus arvensis L.

C5 Antakya: Mount Musa, Tataralan yazlağı, around Kısık, open places in *Carpinus orientalis* forest, 990 m, 02 vii 1995, HÇ 1239, cozmopolitan.

CORNACEAE

Cornus sanguinea L. subsp. **cilicica** (Wangerin) D.F.Chamb.

C5 Antakya: Mount Musa, Kızılca, in mixed forest of *Carpinus orientalis* and *Ostrya carpinifolia*, 1070 m, 31 v 1995, HÇ 877.

E. Medit. element.

CORYLACEAE

Carpinus orientalis Mill.

C5 Antakya: Mount Musa, Teknepınarı Village, Hamilin Tepe, open scrub, 700-800 m, 20 vii 1994, HÇ 229.

Ostrya carpinifolia Scop.

C5 Antakya: Mount Musa, Kızılca, under mixed forest of *Carpinus orientalis* and *Ostrya carpinifolia*, 1070 m, 01 vii 1995, HÇ 1203.

Medit. element.

CRASSULACEAE

Rosularia libanotica (Lab.) Muirhead

C5 Antakya: Mount Musa, Teknepınarı Village, Deli Kadir Tepesi, in macchie vegetation, 650 m, 30 v 1995, HÇ 819.

Sedum album L.

C5 Antakya: Mount Musa, Göksivri Tepesi, gravelly places, 1150 m, 31 v 1995, HÇ 900.

S. annuum L.

C5 Antakya: Mount Musa, Büyükoba Village, Soğuksu Deresi, open places in *Pinus brutia* forest, 300-500m, 01 vi 1995, HÇ 964.

Euro-Sib. element.

S. sediforme (Jacq.) Pau

C5 Antakya: Mount Musa, Samandağ district, near to Çevlik, around Çamlıbel Kayası, in macchie vegetation, 0-200 m, 27 iv 1995, HÇ 724.

Medit. element.

CUSCUTACEAE

Cuscuta palaestina Boiss. subsp. **balansae** (Yuncker) Plitm.

C5 Antakya: Mount Musa, Samandağ district, near to Çevlik, around Çamlıbel Kayası, on *Hypericum russegeri*, 150-200 m, 27 iv 1995, HÇ 728.

DIPSACACEAE

Scabiosa columbaria L. subsp. **columbaria** var. **intermedia** (Post) Matthews

C5 Antakya: Mount Musa, Teknepınarı Village, Karapınar Valley, in macchie vegetation, 520 m, 20 vii 1994, HÇ 220.

S. reuteriana Boiss.

C5 Antakya: Mount Musa, Teknepınarı Village, around Çatak Boğazı, in macchie vegetation, 500-600m, 30 v 1995, HÇ 796.

Endemic. E. Medit. element.

ERICACEAE

Arbutus andrachne L.

C5 Antakya: Mount Musa, around Incebel, in *Carpinus orientalis* forest, 680 m, 29 viii 1994, HÇ 336

Erica manipuliflora Salisb.

C5 Antakya: Mount Musa, Kapisuyu Village, in macchie vegetation, 300 m, 02 vii 1995, HÇ 1292.

EUPHORBIACEAE

Andrachne telephioides L.

C5 Antakya: Mount Musa, Teknepınarı Village, around Deli Kadir Tepesi, in macchie vegetation, 650-700 m, 30 v 1995, HÇ 806.

Euphorbia cassia Boiss.

C5 Antakya: Mount Musa, Büyükoba Village, Kabak Tepe, in mixed forest of *Pinus nigra* subsp. *pallasiana* and *Fagus orientalis*, 640 m, 27 vii 1995, HÇ 1261.

E. Medit. element.

E. herniariifolia Willd. var. **glaberrima** Hal.

C5 Antakya: Mount Musa, Göksivri Tepesi, around Harita Tepesi, in the rock crevices, 1200 m, 31 v 1995, HÇ 892.

E. macrostegia Boiss.

C5 Antakya: Mount Musa, around Tavuk Gediği, under *Pinus brutia* forest, 300-510 m, 22 ii 1995, HÇ 406.

E. rigida M.Bieb.

C5 Antakya: Mount Musa, Ambar Deresi, roadsides and in low macchie, 30 m, 23 ii 1995, HÇ 419.

Medit. element.

Mercurialis ovata Strenb. & Hoppe

C5 Antakya: Mount Musa, Kiraz Gediği, under *Carpinus orientalis* forest, 900 m, 21 iii 1995, HÇ 446.

Euro-Sib. element.

FABACEAE (LEGUMINOSAE)

Anthyllis tetraphylla L.

C5 Antakya: Mount Musa, Teknepınarı Village, Karapınar Valley, in macchie vegetation, 520 m, 25 iv 1995, HÇ 583.

Medit. element.

Astragalus schizopterus Boiss.

C5 Antakya: Mount Musa, Samandağ district, near to Çevlik, around Çamlıbel Kayası, in macchie vegetation, 50 m, 27 iv 1995, HÇ 690.

Endemic. E. Medit. element.

Cercis siliquastrum L. subsp. **siliquastrum**

C5 Antakya: Mount Musa, İkizkörü Village, around Büyükdüz Tepesi, under *Pinus brutia* forest, 550 m, 26 iv 1995, HÇ 650.

Chamaecytisus cassius (Boiss.) Rothm.

C5 Antakya: Mount Musa, İkizkörü Village, around Büyükdüz Tepesi, under *Pinus brutia* forest, 550 m, 26 iv 1995, HÇ 652.

Endemic. E. Medit. element.

C. drepanolobus (Boiss.) Rothm.

C5 Antakya: Mount Musa, around Tavuk Gediği, open places in *Quercus cerris* forest, 600 m, 01 vi 1995, HÇ 923, endemic.

E. Medit. element.

Colutea cilicica Boiss. & Balansa

C5 Antakya: Mount Musa, İkizkörü Village, around Büyükdüz Tepesi, under *Pinus brutia* forest, 550 m, 26 iv 1995, HÇ 656.

Coronilla cretica L.

C5 Antakya: Mount Musa, Salındırma Kayası, under *Carpinus orientalis* forest, 1100-1230 m, 02 vii 1995, HÇ 1225.

E. Medit. element.

C. emerus L. subsp. **emeroides** (Boiss. & Sprung) Uhrova

C5 Antakya: Mount Musa, Çamlıyayla Village, around Zindan Dere, in *Pinus brutia* plantation, 350-450 m, 21 iii 1995, HÇ 460.

C. varia L. subsp. **libanotica** Bornm.

C5 Antakya: Mount Musa, Teknepınarı Village, Mağara Dere Valley, overgrazed and cleared macchie, 450-500 m, 30 v 1995, HÇ 834.

E. Medit. element.

Cytisopsis dorycniifolia Jaub. & Spach subsp. **dorycniifolia**

C5 Antakya: Mount Musa, Ambar Deresi, roadside and in low macchie, 10 m, 23 ii 1995, HÇ 418.

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

C5 Antakya: Mount Musa, Aydın Yurdu, under *Pinus brutia* forest, 400 m, 01 vi 1995, HÇ 946.

Endemic. Ir.-Tur. element.

D. rectum (L.) Ser.

C5 Antakya: Mount Musa, Eriklikuyu Village, Çoban Kayası, in disturbed macchie, 520 m, 19 vii 1996, HÇ 1492.

Medit. element.

Genista carinalis Gris.

C5 Antakya: Mount Musa, Samandağ district, near to Çevlik, around Çamlıbel Kayası, in macchie vegetation, 140 m, 27 iv 1995, HÇ 704.

G. lydia Boiss. var. **antiochia** (Boiss.) P.Gibbs

C5 Antakya: Mount Musa, Büyükoba Village, around Kesmeli Tepe, in *Pinus nigra* subsp. *pallasiana* forest, 450 m, 01 vi 1995, HÇ 1326.

E. Medit. element.

Glycyrrhiza flavescens Boiss.

C5 Antakya: Mount Musa, between Tavuk Gediği and Kamlık, open places in *Pinus brutia* forest, 290 m, 22 iii 1995, HÇ 491.

Endemic. E. Medit. element.

Gonocytisus pterocladus (Boiss.) Spach

C5 Antakya: Mount Musa, Eriklikuyu Village, Çoban Kayası, in disturbed macchie, 520 m, 08 x 1994, HÇ 361.

E. Medit. element.

Hammatolobium lotoides Fenzl

C5 Antakya: Mount Musa, between Tavuk Gediği and Kamlık, open places in *Pinus brutia* forest, 290 m, 22 iii 1995, HÇ 494.

E. Medit. element.

Hymenocarpus circinnatus (L.) Savi

C5 Antakya: Mount Musa, Teknepınarı Village, Deli Kadir Tepesi, in macchie vegetation, 650 m, 30 v 1995, HÇ 831.

Medit. element.

Lathyrus annuus L.

C5 Antakya: Mount Musa, Teknepınarı Village, Karapınar Valley, in macchie vegetation, 520 m, 25 iv 1995, HÇ 595.

Medit. element.

L. aphaca L. var. **biflorus** Post

C5 Antakya: Mount Musa, between Tavuk Gediği and Kamlık, in deserted fields, 300 m, 22 iii 1995, HÇ 483.

L. aphaca L. var. **modestus** P.H.Davis

C5 Antakya: Mount Musa, Teknepınarı Village, around Çatak Boğazi, in macchie vegetation, 500-600m, 30 v 1995, HÇ 778.

E. Medit. element.

L. blepharicarpus Boiss.

C5 Antakya: Mount Musa, Samandağ district, near to Çevlik, around Çamlıbel Kayası, in macchie vegetation, 150-200 m, 27 iv 1995, HÇ 719.

E. Medit. element.

L. czeczottianus Bässler

C5 Antakya: Mount Musa, İkizkörü Village, around Büyükdüz Tepesi, under *Pinus brutia* forest, 550 m, 26 iv 1995, HÇ 657.

Endemic.

L. laxiflorus (Desf.) O.Kuntze subsp. **angustifolius** (Post ex Dinsm.) P.H.Davis

C5 Antakya: Mount Musa, Teknepinarı Village, around Çatak Boğazı, in macchie vegetation, 500-600m, 30 v 1995, HÇ 790.

Endemic. E. Medit. element.

L. nissolia L.

C5 Antakya: Mount Musa, Tataralan Yazlağı, around Sultan Tepe, in *Carpinus orientalis* forest, 800-900 m, 25 iv 1995, HÇ 633.

L. sphaericus Retz.

C5 Antakya: Mount Musa, Tataralan Yazlağı, around Sultan Tepe, in *Carpinus orientalis* forest, 800-900 m, 25 iv 1995, HÇ 632.

L. variabilis (Boiss. & Kotschy) Maly

C5 Antakya: Mount Musa, between Tavuk Gediği and Kamışlık, open places in *Pinus brutia* forest, 290 m, 22 iii 1995, HÇ 486.

E. Medit. element.

Lens ervoides (Brign.) Grande

C5 Antakya: Mount Musa, Teknepinarı Village, Ekinkuyu, in scrub of *Carpinus orientalis* and *Quercus coccifera*. 550 m, 25 iv 1995, HÇ 620.

Medit. element.

Lotus cytisoides L.

C5 Antakya: Mount Musa, Teknepinarı Village, Mağara Valley, overgrazed and cleared macchie, 450-500 m, 25 iv 1995, HÇ 622.

Medit. element.

L. halophilus Boiss. & Sprun. var. **halophilus**

C5 Antakya: Mount Musa, Büyükoba Village, Soğuksu Deresi, open places in *Pinus brutia* forest, 300-500m, 01 vi 1995, HÇ 981.

Medicago lupulina L.

C5 Antakya: Mount Musa, around Incebel, in *Carpinus orientalis* forest, 600-900 m, 29 viii 1994, HÇ 322.

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

C5 Antakya: Mount Musa, Teknepinarı Village, Çatak Boğazı, in macchie, 500-600m, 30 v 1995, HÇ 780.

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

C5 Antakya: Mount Musa, Samandağ district, near to Çevlik, around Çamlıbel Kayası, in macchie, 120 m, 27 iv 1995, HÇ 696.

M. praecox DC.

C5 Antakya: Mount Musa, Teknepinarı Village, Ekinkuyu, in scrub of *Carpinus orientalis* and *Quercus coccifera*, 550 m, 25 iv 1995, HÇ 621.

Medit. element.

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

C5 Antakya: Mount Musa, Teknepinarı Village, Çatak Boğazı, in macchie, 500-600m, 30 v 1995, HÇ.

Ononis adenotricha Boiss. var. **stenophylla** Boiss.

C5 Antakya: Mount Musa, Samandağ district, near to Çevlik, Çamlıbel Kayası, in macchie, 150 m, 27 iv 1995, HÇ 706.

E. Medit. element.

O. natrix L. subsp. **natrix**

C5 Antakya: Mount Musa, Teknepinarı Village, Karapınar Valley, in macchie, 520 m, 20 vii 1994, HÇ 218.

Medit. element.

O. pusilla L.

C5 Antakya: Mount Musa, Samandağ district, near to Çevlik, Çamlıbel Kayası, in macchie, 140 m, 27 iv 1995, HÇ 705.

Medit. element.

Pisum sativum L. subsp. **elatius** (M.Bieb.) Aschers. & Graebn. var. **elatius**

C5 Antakya: Mount Musa, Tataralan Yazlağı, around Armut Tepe, in macchie, 500 m, 31 v 1995, HÇ 864.

Medit. element.

Psoralea bituminosa L.

C5 Antakya: Mount Musa, Teknepinarı Village, Deli Kadir Tepesi, in macchie vegetation, 650 m, 30 v 1995, HÇ 820.

Medit. element.

Scorpiurus muricatus L. var. **villosus** (L.) Fiori

C5 Antakya: Mount Musa, Büleyik Komu, around Çolağın Tepesi, in macchie, 750 m, 31 v 1995, HÇ 862.

Medit. element.

Spartium junceum L.

C5 Antakya: Mount Musa, Tataralan Yazlağı, in macchie, 650 m, 31 v 1995, HÇ 916.

Medit. element.

Trifolium arvense L. var. **arvense**

C5 Antakya: Mount Musa, Büyükoba Village, Soğuksu Deresi, open places in *Pinus brutia* forest, 300-500m, 01 vi 1995, HÇ 976.

T. bocconei Savi

C5 Antakya: Mount Musa, Teknepinarı Village, around Çatak Boğazı, in macchie, 500-600m, 30 v 1995, HÇ 784.

Medit. element.

T. campestre Schreb.

C5 Antakya: Mount Musa, Samandağ district, near to Çevlik, Çamlıbel Kayası, in macchie, 150-200 m, 27 iv 1995, HÇ 723.

T. caucasicum Tausch.

C5 Antakya: Mount Musa, Büyükoba Village, Soğuksu Deresi, open places in *Pinus brutia* forest, 300-500m, 01 vi 1995, HÇ 967.

T. davisii Hossain

C5 Antakya: Mount Musa, Kiraz Gediği, in *Carpinus orientalis* forest, 900 m, 26 iv 1995, HÇ 661.

Endemic. E. Medit. element.

T. lappaceum L.

C5 Antakya: Mount Musa, Teknepinarı Village, Mağara Dere Valley, overgrazed and cleared macchie, 450-500 m, 30 v 1995, HÇ 840.

Medit. element.

T. latinum Seb.

C5 Antakya: Mount Musa, Büyükoba Village, Soğuksu Deresi, open places in *Pinus brutia* forest, 300-500m, 01 vi 1995, HÇ 983.

Medit. element.

T. physodes Stev. ex M.Bieb. var. **psilocalyx** Boiss.

C5 Antakya: Mount Musa, Teknepinarı Village, Karapınar Valley, in macchie, 520 m, 25 iv 1995, HÇ 574.

E. Medit. element.

T. purpureum Lois. var. **laxiusculum** (Boiss. & Balansa) Hossain

C5 Antakya: Mount Musa, Samandağ district, near to Çevlik, Çamlıbel Kayası, in macchie, 50 m, 27 iv 1995, HÇ 695.

E. Medit. element.

T. purpureum Lois. var. **purpureum**

C5 Antakya: Mount Musa, Teknepinarı Village, around Çatak Boğazı, in macchie, 500-600m, 30 v 1995, HÇ 765.

T. repens L. var. **repens**

C5 Antakya: Mount Musa, Çamlıyayla Village, Zindan Dere, in *Pinus brutia* plantation, 350-450 m, 21 iii 1995, HÇ 34, HÇ.457.

T. scabrum L.

C5 Antakya: Mount Musa, Teknepinarı Village, around Çatak Boğazı, in macchie, 500-600m, 30 v 1995, HÇ 759.

T. scutatatum Boiss.

C5 Antakya: Mount Musa, Teknepinarı Village, Karapınar Valley, in macchie, 520 m, 25 iv 1995, HÇ 592.

E. Medit. element.

T. stellatum L. var. **stellatum**

C5 Antakya: Mount Musa, Teknepinarı Village, Karapınar Valley, in destroyed macchie vegetation, 500 m, 25 iv 1995, HÇ 568.

Vicia canescens Lab. subsp. **canescens**

C5 Antakya: Mount Musa, Kara Komu, around Kandak Dere, under *Pinus brutia* forest. 100-200 m, 01 vi 1995, HÇ 941.

V. cassia Boiss.

C5 Antakya: Mount Musa, around Kısık, under *Carpinus orientalis* forest, 990 m, 02 vii 1995, HÇ 1235.

E. Medit. element.

V. cracca L. subsp. **cracca**

C5 Antakya: Mount Musa, İkizköprü Village, under *Pinus brutia* forest, 350-400 m, 18 iv 1996, HÇ 1323.

V. cracca L. subsp. **stenophylla** Vel.

C5 Antakya: Mount Musa, around Tavuk Gediği, under *Pinus brutia* forest, 510 m, 22 iii 1995, HÇ 471.

V. cracca L. subsp. **tenuifolia** (Roth) Gaudin

Antakya: Mount Musa, around Incebel, open places in *Carpinus orientalis* forest, 600 m, 22 iii 1995, HÇ 467.

V. galilaea Plitm. & Zoh.

C5 Antakya: Mount Musa, Teknepinarı Village, Deli Kadir Tepesi, in macchie vegetation, 650 m, 30 v 1995, HÇ 832.

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

C5 Antakya: Mount Musa, Teknepinarı Village, Karapınar Valley, in macchie, 520 m, 25 iv 1995, HÇ 580.

Euro-Sib. element.

V. hybrida L.

C5 Antakya: Mount Musa, Teknepinarı Village, around Ekinkuyu, in scrub of *Carpinus orientalis* and *Quercus coccifera*. 550 m, 25 iv 1995, HÇ 605.

V. laxiflora Brot.

C5 Antakya: Mount Musa, Samandağ district, near to Çevlik, around Çamlıbel Kayası, in macchie, 150-200 m, 27 iv 1995, HÇ 720.

Medit. element.

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

C5 Antakya: Mount Musa, Tataralan Yazlağı, around Sultan Tepe, in *Carpinus orientalis* forest, 800-900 m, 25 iv 1995, HÇ 629.

V. truncatula Fischer ex M.Bieb.

C5 Antakya: Mount Musa, Sulu Mağara, around Karanlık Dere, open places in *Pinus brutia* forest, 300 m, 22 iii 1995, HÇ 474.

Euro-Sib. element.

FAGACEAE

Fagus orientalis Lipsky

C5 Antakya: Mount Musa, Büyükoba Village, around Kesmeli Tepe, in *Pinus nigra* subsp. *pallasiana* forest, 550 m, 01 vi 1995, HÇ 1331.

Euro-Sib. element.

Quercus cerris L. var. **austriaca** (Willd.) Loudon

C5 Antakya: Mount Musa, around Incebel, in *Carpinus orientalis* forest, 700 m, 29 viii 1994, HÇ 338.

Medit. element.

Q. cerris L. var. **cerris**

C5 Antakya: Mount Musa, Aydın Yurdu, in *Pinus brutia* forest, 400 m, 01 vi 1995, HÇ 944.

Medit. element.

Q. coccifera L.

C5 Antakya: Mount Musa, Teknepinarı Village, Hamilin Tepe, open scrub, 700-800 m, 20 vii 1994, HÇ 228.

Medit. element.

Q. infectoria Olivier subsp. **boissieri** (Reuter) O.Schwarz

C5 Antakya: Mount Musa, Teknepinarı Village, around Ekinkuyu, in scrub of *Ostrya carpinifolia*, 550 m, 21 iii 1996, HÇ 1307.

Q. petraea (Mattuschka) Liebl. subsp. **pinnatiloba** (K.Koch) Menitsky

C5 Antakya: Mount Musa, Eriklikuyu Village, Çoban Kayası, in disturbed macchie, 500-600 m, 08 x 1994, HÇ 358.

Endemic.

GENTIANACEAE

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

C5 Antakya: Mount Musa, Aydın Yurdu, under *Pinus brutia* forest, 400 m, 01 vi 1995, HÇ 947.

GERANIACEAE

Erodium cicutarium (L.) L'Hérit. subsp. **cicutarium**

C5 Antakya: Mount Musa, between Tavuk Gediği and Kamaşlık, in deserted fields, 300 m, 22 iii 1995, HÇ 481a.

E. malacoides (L.) L'Hérit.

C5 Antakya: Mount Musa, Teknepinarı Village, Karapınar Valley, in macchie, 500 m, 25 iv 1995, HÇ 571.

Geranium columbinum L.

C5 Antakya: Mount Musa, Teknepinarı Village, Karapınar Valley, in macchie, 520 m, 25 iv 1995, HÇ 579.

G. lucidum L.

C5 Antakya: Mount Musa, Teknepinarı Village, Karapınar Valley, in macchie, 520 m, 25 iv 1995, HÇ 578.

G. molle L. subsp. *molle*

C5 Antakya: Mount Musa, Teknepinarı Village, Karapınar Valley, in destroyed macchie vegetation, 500 m, 25 iv 1995, HÇ 569.

G. purpureum Vill.

C5 Antakya: Mount Musa, Kirazlı Gedik, under *Carpinus orientalis* forest, 900 m, 26 iv 1995, HÇ 663.

G. pusillum Burm.

C5 Antakya: Mount Musa, Kamişlık Yurdu, under *Pinus brutia* forest, 300 m, 22 iii 1995, HÇ 482.

G. robertianum L.

C5 Antakya: Mount Musa, Teknepinarı Village, Karapınar Valley, shade places in macchie vegetation, 520 m, 25 iv 1995, HÇ 577.

GUTTIFERAE

Hypericum cardiophyllum Boiss.

C5 Antakya: Mount Musa, Göksivri Tepesi, on cliffs and steep slopes, 1250 m, 21 vii 1994, HÇ 285

H. hircinum L.

C5 Antakya: Mount Musa, Kapisuyu Village, around Kabaklı, roadsides, 300 m, 02 vii 1995, HÇ 1245.

Medit. element.

H. lanuginosum Lam. var. *lanuginosum*

C5 Antakya: Mount Musa, Teknepinarı Village, Karapınar Valley, in macchie, 520 m, 20 vii 1994, HÇ 217.

E. Medit. element.

H. montbretii Spach

C5 Antakya: Mount Musa, around Incebel, open places in *Carpinus orientalis* forest, 600-900 m, 29 viii 1994, HÇ 324.

H. pallens Banks & Sol.

C5 Antakya: Mount Musa, Teknepinarı Village, around Çatak Boğazı, on rocks, 500-600m, 30 v 1995, HÇ 766.

E. Medit. element.

H. perforatum L.

C5 Antakya: Mount Musa, Teknepinarı Village, Hamilin Tepe, open scrub, 700-800 m, 20 vii 1994, HÇ 240.

H. russeggeri (Fenzl) R.Keller

C5 Antakya: Mount Musa, Samandağ district, near to Çevlik, around Hava Gediği, stony places in macchie vegetation, 250 m, 21 vii 1994, HÇ 290.

E. Medit. element.

H. thymifolium Banks & Sol.

C5 Antakya: Mount Musa, Büyükoba Village, Soğuksu Deresi, open places in *Pinus brutia* forest, 300-500m, 27 vii 1995, HÇ 1251.

E. Medit. element.

H. triquetrifolium Turra

C5 Antakya: Mount Musa, Kapisuyu Village, in macchie, 300 m, 02 vii 1995, HÇ 1243.

ILLECEBRACEAE

Scleranthus annuus L. subsp. *polycarpus* (L.) Thell.

C5 Antakya: Mount Musa, Göksivri Tepesi, gravelly places, 1150 m, 31 v 1995, HÇ 902.

LAMIACEAE (LABIATAE)

Ajuga orientalis L.

C5 Antakya: Mount Musa, Çamlıyayla Village, around Zindan Dere, in *Pinus brutia* plantation, 350-450 m, 21 ii 1995, HÇ 378.

Calamintha betulifolia Boiss. & Balansa

C5 Antakya: Mount Musa, Teknepinarı Village, Karapınar Valley, in rock crevices, 520 m, 25 iv 1995, HÇ 576.

E. Medit. element.

Clinopodium vulgare L. subsp. *arundanum* (Boiss.) Nyman

C5 Antakya: Mount Musa, Büyükoba Village, Soğuksu Deresi, open places in *Pinus brutia* forest, 300-500m, 27 vii 1995, HÇ 1248.

C. vulgare L. subsp. *vulgare*

C5 Antakya: Mount Musa, around Incebel, in *Carpinus orientalis* forest, 600-900 m, 29 viii 1994, HÇ 316.

Euro-Sib. element.

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

C5 Antakya: Mount Musa, Göksivri Tepesi, shady places under *Carpinus orientalis* forest, 1250 m, 26 iv 1995, HÇ 22, Ç.673.

L. moschatum Mill. var. *micranthum* Boiss.

C5 Antakya: Mount Musa, Teknepinarı Village, around Çatak Boğazı, in macchie, 500-600m, 30 v 1995, HÇ 774.

E. Medit. element.

L. purpureum L. var. *aznavourii* Gand. ex Aznav.

C5 Antakya: Mount Musa, Büyükoba Village, Soğuksu Deresi, open places in *Pinus brutia* forest, 300-500m, 21 ii 1995, HÇ 396, endemic, Eu-Sib.el.

L. truncatum Boiss.

C5 Antakya: Mount Musa, Teknepinarı Village, around Ekinkuyu, in scrub of *Carpinus orientalis* and *Quercus coccifera*. 550 m, 25 iv 1995, HÇ 600.

E. Medit. element.

Lavandula stoechas L. subsp. *stoechas*

C5 Antakya: Mount Musa, İkizköprü Village, under *Pinus brutia* forest, 350-400 m, 26 iv 1995, HÇ 649.

Medit. element.

Melissa officinalis L. subsp. *inodora* (Bornm.) Bornm.

C5 Antakya: Mount Musa, Büyükoba Village, Soğuksu Deresi, open places in *Pinus brutia* forest, 450m, 27 vii 1995, HÇ 1257.

E. Medit. element.

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

C5 Antakya: Mount Musa, Soğukoluk, around small spring and wet places, 1000 m, 21 vii 1994, HÇ 256.

M. pulegium L.

C5 Antakya: Mount Musa, Büleyik Komu, open and wet places in *Pinus brutia* forest, 650 m, 27 vii 1995, HÇ 1264.

Micromeria fruticosa (L.) Druce subsp. *brachycalyx* P.H.Davis

C5 Antakya: Mount Musa, Teknepinarı Village, Mağara Dere Valley, in macchie, 520 m, 20 vii 1994, HÇ 208, E.Medit.el

M. myrtifolia Boiss. & Hohen.

C5 Antakya: Mount Musa, Teknepinarı Village, Karapınar Valley, in macchie, 530 m, 20 vii 1994, HÇ 224.

E. Medit. element.

M. nervosa (Desf.) Benth.

C5 Antakya: Mount Musa, Teknepinarı Village, around Çatak Boğazı, under scrub of *Carpinus orientalis*, 700 m, 30 v 1995, HÇ 846.

Medit. element.

Nepeta caesarea Boiss.

C5 Antakya: Mount Musa, east slopes, Tataralan Yazlağı, in scrub of *Laurus nobilis*, 700 m, HÇ 250.

Endemic. E. Medit. element.

N. flavida Hub.-Mor.

C5 Antakya: Mount Musa, Teknepinarı Village, around Çatak Boğazı, in macchie, 500-600m, 30 v 1995, HÇ 772.

E. Medit. element.

Origanum bargyılı Mouterde

C5 Antakya: Mount Musa, Teknepinarı Village, Hamilin Tepe, open scrub, 700-800 m, 20 vii 1994, HÇ 233.

E. Medit. element.

O. laevigatum Boiss.

C5 Antakya: Mount Musa, Kapisuyu Village, in macchie, 300 m, 02 vii 1995, HÇ 1290.

E. Medit. element.

O. onites L.

C5 Antakya: Mount Musa, Karagöl Yurdu, open places in mixed scrub of *Carpinus orientalis* and *Quercus coccifera*, 900 m, 02 vii 1995, HÇ 1240.

E. Medit. element.

O. syriacum L. var. *bevanii* (Holmes) Ietswaart

C5 Antakya: Mount Musa, Teknepinarı Village, Hamilin Tepe, open scrub, 700-800 m, 20 vii 1994, HÇ 241.

E. Medit. element.

O. vulgare L. subsp. *gracile* (K.Koch) Ietswaart

C5 Antakya: Mount Musa, Teknepinarı Village, around Ekinkuyu, in macchie, 560 m, 28 vii 1995, HÇ 1265.

Ir.-Tur. element.

O. vulgare L. subsp. *hirtum* (Link) Ietswaart

C5 Antakya: Mount Musa, Teknepinarı Village, Karapınar Valley, in macchie, 500 m, 08 x 1994, HÇ 343.

E. Medit. element.

Phlomis amanica Vierh.

C5 Antakya: Mount Musa, around Tavuk Gediği, open places in *Quercus cerris* forest, 620 m, 01 vi 1995, HÇ 924.

Endemic. E. Medit. element.

P. longifolia Boiss. & Balansa var. *longifolia*

C5 Antakya: Mount Musa, Samandağ district, near to Çevlik, around Çamlıbel Kayası, in macchie, 0-200 m, 27 iv 1995, HÇ 726.

Prunella vulgaris L.

C5 Antakya: Mount Musa, Büyükoba Village, Kabak Tepe, in mixed forest of *Pinus nigara* subsp. *pallasiana* and *Fagus orientalis*, 640 m, 11 vii 1996, HÇ 1444.

Euro-Sib. element.

Salvia glutinosa L.

C5 Antakya: Mount Musa, Büyükoba Village, Kabak Tepe, in mixed forest of *Pinus nigara* subsp. *pallasiana* and *Fagus orientalis*, 640 m, 11 vii 1996, HÇ 1452.

Euro-Sib. element.

S. recognita Fisch. & C.A.Mey.

C5 Antakya: Mount Musa, Teknepinarı Village, Karapınar Valley, in macchie, 500 m, 20 vii 1994, HÇ 211.

Endemic. Ir.-Tur. element.

S. sclarea L.

C5 Antakya: Mount Musa, between Tavuk Gediği and Kamışlık, on field banks, 300 m, 22 iii 1995, HÇ 477.

S. tigrina Hedge & Hub.-Mor.

C5 Antakya: Mount Musa, Teknepinarı Village, around Çatak Boğazı, in macchie, 500-600m, 30 v 1995, HÇ 797.

Endemic. E. Medit. element.

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

C5 Antakya: Mount Musa, Teknepinarı Village, around Deli Kadir Tepesi, in macchie, 650-700 m, 30 v 1995, HÇ 804.

Ir.-Tur. element.

Scutellaria diffusa Benth.

C5 Antakya: Mount Musa, Kızılca, under mixed forest of *Carpinus orientalis* and *Ostrya carpinifolia*, 1070 m, 01 vii 1995, HÇ 1199.

E. Medit. element.

S. glaphyrostachys Rech.f.

C5 Antakya: Mount Musa, Teknepinarı Village, Karapınar Valley, in macchie, 530 m, 20 vii 1994, HÇ 225.

Endemic. E. Medit. element.

Sideritis perfoliata L.

C5 Antakya: Mount Musa, around İncebel, under *Carpinus orientalis* forest, 850 m, 29 viii 1994, HÇ 331.

E. Medit. element.

Stachys alpina L. subsp. *macrophylla* (Albov) Bhattacharjee

C5 Antakya: Mount Musa, Teknepinarı Village, around Deli Kadir Tepesi, in macchie, 650-700 m, 30 v 1995, HÇ 810.

Euro-Sib. element.

S. cretica L. subsp. *mersinaea* (Boiss.) Rech.f.

C5 Antakya: Mount Musa, Büyükoba Village, Kabak Tepe, in mixed forest of *Pinus nigara* subsp. *pallasiana* and *Fagus orientalis*, 640 m, 11 vii 1996, HÇ 1449.

Endemic. E. Medit. element.

S. diversifolia Boiss.

C5 Antakya: Mount Musa, Büyükoba Village, Kabak Tepe, in mixed forest of *Pinus nigara* subsp. *pallasiana* and *Fagus orientalis*, 640 m, 27 vii 1995, HÇ 1258.

E. Medit. element.

S. petrokosmos Rech.f.

C5 Antakya: Mount Musa, Samandağ district, near to Çevlik, around Hava Gediği, on rocks, 250 m, 21 vii 1994, HÇ 289.

Endemic. E. Medit. element.

S. pinetorum Boiss. & Balansa

C5 Antakya: Mount Musa, İncebel, around Soğukoluk, in mixed forest of

Carpinus orientalis and *Ostrya carpinifolia*.

1000 m, 21 vii 1994, HÇ 262.

E. Medit. element.

S. pumila Banks & Sol.

C5 Antakya: Mount Musa, Samandağ district, near to Çevlik, around Çamlıbel Kayası, stony places, 50 m, 27 iv 1995, HÇ 694.

Endemic. E. Medit. element.

S. rupestris Montbret & Aucher ex Benth

C5 Antakya: Mount Musa, Teknepinarı Village, Karapınar Valley, in rock crevices, 520 m, 25 iv 1995, HÇ 584.

Endemic. E. Medit. element.

Teucrium chamaedrys L. subsp. **tauricum** Rech.f.

C5 Antakya: Mount Musa, Teknepinarı Village, Karapınar Valley, in macchie, 530 m, 20 vii 1994, HÇ 226.

Endemic. E. Medit. element.

T. lamiifolium d'Urv. subsp. **stachyophyllum** (P.H.Davis) Hedge & Ekim

C5 Antakya: Mount Musa, Teknepinarı Village, around Deli Kadir Tepesi, in macchie, 650-700 m, 30 v 1995, HÇ 803.

E. Medit. element.

T. montbretii Benth subsp. **montbretii**

C5 Antakya: Mount Musa, Teknepinarı Village, Deli Kadir Tepesi, in rock crevices, 650 m, 18 vii 1996, HÇ 1490.

E. Medit. element.

T. polium L.

C5 Antakya: Mount Musa, east slopes, Tataralan Yazlağı, in scrub of *Laurus nobilis*, 700 m, HÇ 249.

Lauraceae

Laurus nobilis L.

C5 Antakya: Mount Musa, Teknepinarı Village, Hamilin Tepe, open scrub, 700-800 m, 20 vii 1994, HÇ 243.

Linaceae

Linum bienne Mill.

C5 Antakya: Mount Musa, Samandağ district, near to Çevlik, around Çamlıbel Kayası, in macchie, 0-200 m, 27 iv 1995, HÇ 721.

Medit. element.

Lythraceae

Lythrum junceum Banks & Sol.

C5 Antakya: Mount Musa, Aydın Yurdu, wet places in *Pinus brutia* forest, 400 m, 01 vi 1995, HÇ 950.

Medit. element.

Malvaceae

Alcea apterocarpa (Fenzl) Boiss.

C5 Antakya: Mount Musa, Teknepinarı Village, Deli Kadir Tepesi, in macchie vegetation, 650 m, 30 v 1995, HÇ 814.

Endemic. Ir.-Tur. element.

Althaea cannabina L.

C5 Antakya: Mount Musa, Teknepinarı Village, Hamilin Tepe, open scrub, 700-800 m, 20 vii 1994, HÇ 235.

Malva neglecta Wallr.

C5 Antakya: Mount Musa, Salındırma Kayası, rocky places, 1100-1230 m, 31 v 1995, HÇ 885.

M. nicaeensis All.

C5 Antakya: Mount Musa, Teknepinarı Village, Karapınar Valley, in macchie, 520 m, 25 iv 1995, HÇ 596.

Moraceae

Ficus carica L. subsp. **rupestris** (Hauskn.) Browicz

C5 Antakya: Mount Musa, Yazlak Yurdu, rocky cliff, 600-850 m, 31 v 1995, HÇ 907.

Myrtaceae

Myrtus communis L. subsp. **communis**

C5 Antakya: Mount Musa, Teknepinarı Village, Mağara Dere Valley, in macchie, 490 m, 20 vii 1994, HÇ 201.

Oleaceae

Fraxinus ornus L. subsp. **cilicica** (Lingelsh.) Yalt.

C5 Antakya: Mount Musa, İkizkörü Village, around Büyükdüz Tepesi, under *Pinus brutia* forest, 550 m, 26 iv 1995, HÇ 651.

Endemic. E. Medit. element.

Phillyrea latifolia L.

C5 Antakya: Mount Musa, Çamlıyayla Village, around Zindan Dere, in *Pinus brutia* plantation, 350-450 m, 21 iii 1995, HÇ 463.

Medit. element.

Onagraceae

Epilobium gemmascens C.A.Mey.

C5 Antakya: Mount Musa, Kible Kayası, open places in *Carpinus orientalis* forest, 900 m, 01 vii 1995, HÇ 1217.

Orobanchaceae

Orobanche minor C.Sm.

C5 Antakya: Mount Musa, Teknepinarı Village, Deli Kadir Tepesi, in macchie vegetation, 650 m, 30 v 1995, HÇ 833.

O. ramosa L.

C5 Antakya: Mount Musa, Samandağ district, near to Çevlik, around Çamlıbel Kayası, in macchie, 140 m, 27 iv 1995, HÇ 703.

O. schultzei Mutel

C5 Antakya: Mount Musa, Teknepinarı Village, Deli Kadir Tepesi, in macchie vegetation, 650 m, 30 v 1995, HÇ 817.

Medit. element.

Oxalidaceae

Oxalis corniculata L.

C5 Antakya: Mount Musa, around Incebel, open places in *Carpinus orientalis* forest, 820 m, 29 viii 1994, HÇ 335, cozmopolit.

Paeaniaceae

Paeonia daurica Andrews

C5 Antakya: Mount Musa, Tataralan Yazlağı, around Sultan Tepe, in *Carpinus orientalis* forest, 830 m, 25 iv 1995, HÇ 636.

P. kesrouanensis Thiéb.

C5 Antakya: Mount Musa, Kible Kayası, under *Carpinus orientalis* forest, 1070 m, 26 iv 1995, HÇ 681.

E. Medit. element.

P. mascula (L.) Mill. subsp. **mascula**

C5 Antakya: Mount Musa, Kızılca, in mixed forest of *Carpinus orientalis* and *Ostrya carpinifolia*, 1070 m, 31 v 1995, HÇ 880.

Papaveraceae

Papaver syriacum Boiss. & Blanche

C5 Antakya: Mount Musa, Teknepinarı Village, around Çatak Boğazı, in macchie, 500-600m, 30 v 1995, HÇ 741

PHYTOLACCACEAE

Phytolacca pruinosa Fenzl

C5 Antakya: Mount Musa, around Yangın Kulesi, roadsides, 1100-1250 m, 21 vii 1994, HÇ 271.

E. Medit. element.

PLANTAGINACEAE

Plantago afra L. C5 Antakya: Mount Musa, Samandağ district, around Çevlik, in macchie, 20 m, 27.04.1995, HÇ 689.

E. Medit. element.

P. lagopus L.

C5 Antakya: Mount Musa, Samandağ district, near to Çevlik, around Çamlıbel Kayası, in macchie, 20 m, 27 iv 1995, HÇ 693.

Medit. element.

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

C5 Antakya: Mount Musa, around Incebel, open places in *Carpinus orientalis* forest, 600-900 m, 29 viii 1994, HÇ 319.

PLATANACEAE

Platanus orientalis L.

C5 Antakya: Mount Musa, Kara Komu, around Kandak Dere, streamsides, 100 m, 01 vi 1995, Ç.943.

PLUMBAGINACEAE

Plumbago europaea L.

C5 Antakya: Mount Musa, Eriklikuyu Village, Çoban Kayası, in disturbed macchie, 500-600 m, 08 x 1994, HÇ 349.

Euro-Sib. element.

POLYGALACEAE

Polygala comosa Schkuhr

C5 Antakya: Mount Musa, Çanaklık Komu, under *Pinus brutia* forest, 280 m, 22 ii 1995, HÇ 409.

P. supina Schreb.

C5 Antakya: Mount Musa, Tataralan Yazlağı, around Sultan Tepe, in *Carpinus orientalis* forest, 800-900 m, 25 iv 1995, HÇ 635

POLYGONACEAE

Polygonum aviculare L.

C5 Antakya: Mount Musa, Büyükoba Village, Soğuksu Deresi, open places in *Pinus*

brutia forest, 300-500m, 01 vi 1995, HÇ 959, cozmopolit.

P. convolvulus L.

C5 Antakya: Mount Musa, Incebel, around Soğukoluk, in mixed forest of *Carpinus orientalis* and *Ostrya carpinifolia*. 1000 m, 21 vii 1994, HÇ 255.

P. dumetorum L.

C5 Antakya: Mount Musa, Eriklikuyu Village, Çoban Kayası, in disturbed macchie, 520 m, 08 x 1994, HÇ 363.

Rumex pulcher L.

C5 Antakya: Mount Musa, Teknepinarı Village, around Çatak Boğazı, in macchie, 500-600m, 30 v 1995, HÇ 775.

PRIMULACEAE

Anagallis arvensis L. var. *arvensis*

C5 Antakya: Mount Musa, between Tavuk Gediği and Kamışlık, on field banks, 300 m, 22 iii 1995, HÇ 476.

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

C5 Antakya: Mount Musa, Teknepinarı Village, around Ekinkuyu, in scrub of *Carpinus orientalis* and *Quercus coccifera*. 550 m, 25 iv 1995, HÇ 619.

Cyclamen coum Mill. var. *coum*

C5 Antakya: Mount Musa, Çamlıyayla Village, around Zindan Dere, in *Pinus brutia* plantation, 350-450 m, 21 ii 1995, HÇ 380.

Primula vulgaris Hudson subsp. *sibthorpii* (Hoffmanns.) W.W.Sm. & Forrest

C5 Antakya: Mount Musa, Çamlıyayla Village, around Zindan Dere, in *Pinus brutia* plantation, 350-450 m, 21 ii 1995, HÇ 390, Eu-Sib.el.

RANUNCULACEAE

Clematis vitalba L.

C5 Antakya: Mount Musa, around Incebel, in *Carpinus orientalis* forest, 600-900 m, 29 viii 1994, HÇ 320.

Ranunculus chius DC.

C5 Antakya: Mount Musa, Teknepinarı Village, around Ekinkuyu, in scrub of *Carpinus orientalis* and *Quercus coccifera*. 550 m, 25 iv 1995, HÇ 604.

R. ficaria L. subsp. *calthifolius* (Rchb.) Arc.

C5 Antakya: Mount Musa, Büyükoba Village, Soğuksu Deresi, open places in *Pinus*

brutia forest, 300-500m, 21 ii 1995 33, HÇ 391.

R. millefolius Banks & Sol. subsp. *millefolius*

C5 Antakya: Mount Musa, Tataralan Yazlağı, around Sultan Tepe, in *Carpinus orientalis* forest, 800-900 m, 25 iv 1995, HÇ 630.

R. muricatus L.

C5 Antakya: Mount Musa, between Tavuk Gediği and Kamışlık, deserted fields, 300 m, 22 iii 1995, HÇ 479b.

R. neapolitanus Ten.

C5 Antakya: Mount Musa, Teknepinarı Village, Deli Kadir Tepesi, in macchie vegetation, 650 m, 30 v 1995, HÇ 818.

R. paludosus Poir.

C5 Antakya: Mount Musa, Teknepinarı Village, around Ekinkuyu, in scrub of *Carpinus orientalis* and *Quercus coccifera*. 550 m, 25 iv 1995, HÇ 614.

Thalictrum orientale Boiss.

C5 Antakya: Mount Musa, Teknepinarı Village, around Ekinkuyu, in scrub of *Carpinus orientalis* and *Quercus coccifera*. 550 m, 25 iv 1995, HÇ 622.

E. Medit. element.

RESEDACEAE

Reseda lutea L. var. *lutea*

C5 Antakya: Mount Musa, Büyükoba Village, Soğuksu deresi, open places in *Pinus brutia* forest, 300-500m, 01 vi 1995, HÇ 953.

RHAMNACEAE

Rhamnus oleoides L.

C5 Antakya: Mount Musa, Yoğunluk Village, between Tekerek Yazı and Oturak Tepe, in distributed macchie, 400-450m, 08 x 1994, HÇ 370.

It is cited in The Flora of Turkey as a polymorphic species (Davis, 1965-1988). It is divided as two subspecies (subsp. *graecus* and subsp. *oleoides*). Subsp. *oleoides* can be distinguished from subsp. *graecus* with coriaceous, evergreen, drying yellowish green, with dark reticulate venation below and usually glabrous leaves. But, the specimens from our research area is intermediate between *R. oleoides* subsp. *oleoides* and *R. oleoides* subsp. *graecus*; our specimens from

Mount Mousa have remotely serrulate leaves, hairy only on the pedicels, other part totally glabrous, deciduous, drying yellowish green, apex emarginate or rounded. So, these specimens from Mount Musa hadn't been considered as subspecific rank.

R. punctatus Boiss. var. **angustifolius** Post

C5 Antakya: Mount Musa, Samandağ district, near to Çevlik, around Çamlıbel Kayası, in macchie, 120 m, 27 iv 1995, HÇ 691.

E. Medit. element.

ROSACEAE

Agrimonia eupatoria L.

C5 Antakya: Mount Musa, Teknepinarı Village, Mağara Dere Valley, in rock crevices, 470 m, 20 vii 1994, HÇ 205.

Crataegus monogyna Jacq. subsp. **monogyna**

C5 Antakya: Mount Musa, Teknepinarı Village, around Çatak Boğazı, in scrub of *Carpinus orientalis*, 700 m, 30 v 1995, HÇ 850.

C. pseudoheterophylla Pojark.

C5 Antakya: Mount Musa, Kamışlık Yurdu, under *Pinus brutia* forest, 310 m, 22 iii 1995, HÇ 934.

Ir.-Tur. element.

Fragaria vesca L.

C5 Antakya: Mount Musa, Çamlıyayla Village, around Zindan Dere, under *Pinus brutia* plantation, 350-450 m, 21 ii 1995, HÇ 377.

Geum urbanum L.

C5 Antakya: Mount Musa, Teknepinarı Village, Karapınar Valley, in shady places, 500 m, 25 iv 1994, HÇ 566.

Euro-Sib. element.

Laurocerasus officinalis Roem.

C5 Antakya: Mount Musa, Göksivri Tepesi, shady edges of rocks, 1250 m, 26 iv 1995, HÇ 674.

Potentilla recta L.

C5 Antakya: Mount Musa, Teknepinarı Village, Çatak Boğazı, under scrub of *Carpinus orientalis*, 700 m, 30 v 1995, HÇ 845.

Rosa dumalis Bechst. subsp. **boissieri** (Crépin) Ö.Nilsson var. **boissieri**

C5 Antakya: Mount Musa, around Kızılca, in mixed forest of *Carpinus orientalis* and *Ostrya carpinifolia*, 1070 m, 01 vii 1995, HÇ 1206.

Rubus canescens DC. var. **glabratus** (Godron) P.H.Davis & Meikle

C5 Antakya: Mount Musa, İncebel, around Soğukoluk, in mixed forest of *Carpinus orientalis* and *Ostrya carpinifolia*. 1000 m, 21 vii 1994, HÇ 264.

R. discolor Weihe & Nees

C5 Antakya: Mount Musa, Kamışlık Yurdu, open places in *Pinus brutia* forest, 310 m, 01 vi 1995, HÇ 930.

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

C5 Antakya: Mount Musa, Teknepinarı Village, around Çatak Boğazı, in macchie, 500-600m, 30 v 1995, HÇ 794.

Sorbus torminalis (L.) Crantz var. **pinnatifida** Boiss.

C5 Antakya: Mount Musa, Kiraz Gediği, in *Carpinus orientalis* forest, 900 m, 26 iv 1995, HÇ 662.

Euro-Sib. element.

RUBIACEAE

Asperula cymulosa (Post) Post

C5 Antakya: Mount Musa, Tombulun Yazlağı, in tall scrub of *Carpinus orientalis*, 900-950 m, 31 v 1995, HÇ 914.

Endemic. E. Medit. element.

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

C5 Antakya: Mount Musa, Teknepinarı Village, Hamilin Tepe, open scrub, 700-800 m, 20 vii 1994, HÇ 231, endemic, Ir.-Tur.

A. stricta Boiss. subsp. **monticola** Ehrend.

C5 Antakya: Mount Musa, Yazlak Yurdu, rocky cliff, 600-850 m, 31 v 1995, HÇ 908.

Endemic. E. Medit. element.

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

C5 Antakya: Mount Musa, Salındırma Kayası, under *Carpinus orientalis* forest, 1100-1230 m, 02 vii 1995, HÇ 1223.

E. Medit. element.

Crucianella imbricata Boiss.

C5 Antakya: Mount Musa, Teknepinarı Village, Mağaradere Valley, in macchie, 520 m, 20 vii 1994, HÇ 207.

E. Medit. element.

C. latifolia L.

C5 Antakya: Mount Musa, Samandağ district, near to Çevlik, around Çamlıbel Kayası, in macchie, 0-200 m, 27 iv 1995, HÇ 688.

Medit. element.

Cruciata taurica (Pallas ex Willd.) Ehrend.

C5 Antakya: Mount Musa, Tataralan Yazlağı, around Armut Tepe, in macchie, 500 m, 31 v 1995, HÇ 870.

Ir.-Tur. element.

Galium album Mill. subsp. **amani** Ehrend. & Schönb-Tem.

C5 Antakya: Mount Musa, Kızılca, under mixed forest of *Carpinus orientalis* and *Ostrya carpinifolia*, 1070 m, 01 vii 1995, HÇ 1196.

Endemic. E. Medit. element.

G. aparine L.

C5 Antakya: Mount Musa, Tataralan Yazlağı, around Armut Tepe, in macchie, 500 m, 31 v 1995, HÇ 865.

G. canum Req. ex DC. subsp. **antalyense** Ehrend.

C5 Antakya: Mount Musa, Samandağ district, near to Çevlik, around Çamlıbel Kayası, in rock crevices, 20 m, 27 iv 1995, HÇ 697.

Endemic. E. Medit. element.

G. cassium Boiss.

C5 Antakya: Mount Musa, Samandağ district, near to Çevlik, around Çamlıbel Kayası, in macchie, 150 m, 27 iv 1995, HÇ 708.

E. Medit. element.

G. heldreichii Hal.

C5 Antakya: Mount Musa, Teknepinarı Village, around Deli Kadir Tepesi, in macchie, 650-700 m, 30 v 1995, HÇ 808.

E. Medit. element.

G. murale (L.) All.

C5 Antakya: Mount Musa, Samandağ district, near to Çevlik, around Çamlıbel

Kayası, in macchie, 150 m, 27 iv 1995, HÇ 709.

Medit. element.

G. verum L. subsp. *glabrescens* Ehrend.

C5 Antakya: Mount Musa, Eriklikuyu Village, Çoban Kayası, in disturbed macchie, 500-600 m, 08 x 1994, HÇ 352.

G. verum L. subsp. *verum*

C5 Antakya: Mount Musa, Kamişlık Yurdu, under *Pinus brutia* forest, 310 m, 22 iii 1995, HÇ 937.

Euro-Sib. element.

Putoria calabrica (L.f.) DC.

C5 Antakya: Mount Musa, Büyükoba Village, Soğuksu Deresi, open places in *Pinus brutia* forest, 300-500m, 01 vi 1995, HÇ 978.

Medit. element.

Rubia rotundifolia Banks & Sol.

C5 Antakya: Mount Musa, Tataralan Yazlağı, around Armut Tepe, in macchie, 500 m, 31 v 1995, HÇ 867.

E. Medit. element.

R. tenuifolia d'Urv. subsp. *brachypoda* (Boiss.) Ehrend. & Schönb.-Tem.

C5 Antakya: Mount Musa, between Tavuk Gediği and Kamişlık, open places in *Pinus brutia* forest, 290 m, 22 iii 1995, HÇ 493.

Medit. element.

R. tenuifolia d'Urv. subsp. *tenuifolia*

C5 Antakya: Mount Musa, Teknepinarı Village, Karapınar Valley, in macchie, 500 m, 08 x 1994, HÇ 345.

E. Medit. element.

Sherardia arvensis L.

C5 Antakya: Mount Musa, Samandağ district, near to Çevlik, around Çamlıbel Kayası, in macchie, 160 m, 27 iv 1995, HÇ 711.

Medit. element.

Valantia hispida L.

C5 Antakya: Mount Musa, Samandağ district, near to Çevlik, around Çamlıbel Kayası, in macchie, 120 m, 27 iv 1995, HÇ 687.

Medit. element.

SANTALACEAE

Osyris alba L.

C5 Antakya: Mount Musa, Eriklikuyu Village, Çoban Kayası, in disturbed macchie, 520 m, 08 x 1994, HÇ 360.

Medit. element.

Thesium humile Vahl

C5 Antakya: Mount Musa, Samandağ district, near to Çevlik, around Çamlıbel Kayası, in macchie, 150-200 m, 27 iv 1995, HÇ 727.

Medit. element.

T. procumbens C.A.Mey.

C5 Antakya: Mount Musa, Büyükoba Village, Soğuksu Deresi, open places in *Pinus brutia* forest, 300-500m, 01 vi 1995, HÇ 973.

SAXIFRAGACEAE

Saxifraga hederacea L. var. *libanotica* (Bornm.) Matthews

C5 Antakya: Mount Musa, Teknepinarı Village, Karapınar Valley, in rock crevices, 520 m, 25 iv 1995, HÇ 585.

S. tridactylites L.

C5 Antakya: Mount Musa, Teknepinarı Village, around Ekinkuyu, in scrub of *Carpinus orientalis* and *Quercus coccifera*. 550 m, 25 iv 1995, HÇ 601.

SCROPHULARIACEAE

Anarrhinum orientale Benth.

C5 Antakya: Mount Musa, around Tavuk Gediği, on rocky slopes, 610 m, 01 vi 1995, HÇ 925.

Ir.-Tur. element.

Digitalis ferruginea L. subsp. *ferruginea*

C5 Antakya: Mount Musa, around Incebel, under *Carpinus orientalis* forest, 600-900 m, 29 viii 1994, HÇ 325.

Euro-Sib. element.

Lesquereuxia syriaca Boiss. & Reut.

C5 Antakya: Mount Musa, Büyükoba Village, Soğuksu deresi, open places in *Pinus brutia* forest, 450m, 27 vii 1995, HÇ 1253.

E. Medit. element.

Scrophularia cryptophila Boiss. & Heldr.

C5 Antakya: Mount Musa, around Incebel, in *Carpinus orientalis* forest, 600-900 m, 29 viii 1994, HÇ 315.

Endemic. E. Medit. element.

S. libanotica Boiss. subsp. *libanotica* var. *australis* R. Mill

C5 Antakya: Mount Musa, Salındırma Kayası, steep cliffs, 1100-1230 m, 31 v 1995, HÇ 888.

Endemic. Ir.-Tur. element.

S. lucida L.

C5 Antakya: Mount Musa, Ambar Deresi, roadsides, 5-10 m, 23 ii 1995, HÇ 415.

Medit. element.

S. scopolii (Hoppe ex) Pers. var. *nusairiensis* (Post) Lall

C5 Antakya: Mount Musa, Teknepinarı Village, Karapınar Valley, on rocky slopes, 500 m, 25 iv 1995, HÇ 572.

E. Medit. element.

S. scopolii (Hoppe ex) Pers. var. *scopolii*

C5 Antakya: Mount Musa, Göksivri Tepesi, on cliffs and steep slopes, 1250 m, 26 iv 1995, HÇ 669.

Verbascum amanum Boiss.

C5 Antakya: Mount Musa, between Kızılca and Kible Kayası, open places in *Ostrya carpinifolia* forest, 900, m, 31 v 1995, HÇ 874.

Endemic. E. Medit. element.

V. caesareum Boiss.

C5 Antakya: Mount Musa, Ambar Deresi, roadsides, 10 m, 23 ii 1995, HÇ 410.

E. Medit. element.

V. discolor Murb.

C5 Antakya: Mount Musa, between Kızılca and Kible Kayası, open places in *Ostrya carpinifolia* forest, 900, m, 31 v 1995, HÇ 875.

Endemic. E. Medit. element.

V. pinetorum (Boiss.) O.Kuntze

C5 Antakya: Mount Musa, Kara Komu, around Kandak Dere, under *Pinus brutia* forest. 100-200 m, 01 vi 1995, HÇ 938.

Endemic. E. Medit. element.

V. sinuatum L. var. *adenosepalum* Murb.

C5 Antakya: Mount Musa, Teknepinarı Village, Karapınar Valley, in macchie, 530 m, 20 vii 1994, HÇ 221.

E. Medit. element.

V. sinuatum L. var. *sinuatum*

C5 Antakya: Mount Musa, Göksivri Tepesi, on cliffs and steep slopes, 1250 m, 21 vii 1994, HÇ 287.

Medit. element.

V. tauri Boiss. & Kotschy

C5 Antakya: Mount Musa, , Salındırma Kayası, under *Carpinus orientalis* forest, 1100-1230 m, 02 vii 1995, HÇ 1218.

Endemic. E. Medit. element.

Veronica ceratocarpa C.A.Mey.

C5 Antakya: Mount Musa, between Tavuk Gediği and Kamışlık, deserted fields, 300 m, 22 iii 1995, HÇ 478.

Euro-Sib. element.

V. cymbalaria Bodard

C5 Antakya: Mount Musa, Büyükoba Village, Soğuksu Deresi, open places in *Pinus brutia* forest, 300-500m, 21 ii 1995, HÇ 398.

Medit. element.

V. hederifolia L.

C5 Antakya: Mount Musa, Büyükoba Village, Soğuksu Deresi, open places in *Pinus brutia* forest, 300-500m, 21 ii 1995, HÇ 394.

Cosmopolitan.

V. leiocarpa Boiss.

C5 Antakya: Mount Musa, Teknepinarı Village, Hamilin Tepe, open scrub, 700-800 m, 20 vii 1994, HÇ 230.

E. Medit. element.

V. macrostachya Vahl subsp. *macrostachya*

C5 Antakya: Mount Musa, Samandağ district, near to Çevlik, around Çamlıbel Kayası, in macchie, 160 m, 27 iv 1995, HÇ 712.

E. Medit. element.

Wulfenia orientalis Boiss.

C5 Antakya: Mount Musa, Teknepinarı Village, Karapınar Valley, on rocks, 520 m, 25 iv 1995, HÇ 589.

E. Medit. element.

SOLANACEAE

Atropa belladonna L.

C5 Antakya: Mount Musa, İncebel, around Soğukoluk, roadsides, 1000 m, 21 vii 1994, HÇ 261.

Euro-Sib. element.

Physalis alkekengi L. C5 Antakya: Mount Musa, around İncebel, in *Carpinus orientalis* forest, 600-900 m, 29 viii 1994, HÇ 306.

Solanum alatum Moench

C5 Antakya: Mount Musa, around İncebel, open places in *Carpinus orientalis* forest, 720 m, 29 viii 1994, HÇ 327.

STAPHYLEACEAE

Staphylea pinnata L.

C5 Antakya: Mount Musa, Göksivri Tepesi, on cliffs and steep slopes, 1250 m, 21 vii 1994.664.

STYRACACEAE

Styrax officinalis L.

C5 Antakya: Mount Musa, Teknepinarı Village, Mağara Dere Valley, in macchie, 470 m, 20 vii 1994, HÇ 199.

THYMELAEACEAE

Daphne sericea Vahl

C5 Antakya: Mount Musa, Çamlıyayla Village, around Zindan Dere, open places in *Pinus brutia* plantation, 350-450 m, 21 ii 1995, HÇ 384.

ULMACEAE

Ulmus glabra Hudson

C5 Antakya: Mount Musa, Kiraz Gediği, in *Carpinus orientalis* forest, 900 m, 26 iv 1995, HÇ 660, Eu.Sib.el.

U. minor Mill. subsp. *canescens* (Melville) Browicz & Zielinski

C5 Antakya: Mount Musa, İncebel, around Soğukoluk, in mixed forest of *Carpinus orientalis* and *Ostrya carpinifolia*, 1000 m, 21 vii 1994, HÇ 267.

E. Medit. element.

URTICACEAE

Parietaria cretica L.

C5 Antakya: Mount Musa, Teknepinarı Village, Karapınar Valley, in rock crevices, 520 m, 25 iv 1995, HÇ 582.

Medit. element.

P. lusitanica L.

C5 Antakya: Mount Musa, Yoğunluk Village, between Tekerek Yazı and Oturak Tepe, in rock crevices, 400-450m, 08 x 1994, HÇ 369.

Medit. element.

Urtica urens L.

C5 Antakya: Mount Musa, Teknepinarı Village, Karapınar Valley, shady places in macchie vegetation, 520 m, 25 iv 1995, HÇ 575.

VALERIANACEAE

Centranthus longiflorus Stev. subsp. *longiflorus*

C5 Antakya: Mount Musa, Kızılca, in mixed forest of *Carpinus orientalis* and *Ostrya carpinifolia*, 1070 m, 31 v 1995, HÇ 879.

Ir.-Tur. element.

Valeriana alliariifolia Adams

C5 Antakya: Mount Musa, Göksivri Tepesi, shady edges of rocks, 1150 m, 31 v 1995, HÇ 896.

Valerianella carinata Lois.

C5 Antakya: Mount Musa, Teknepinarı Village, around Ekinkuyu, in scrub of *Carpinus orientalis* and *Quercus coccifera*. 550 m, 25 iv 1995, HÇ 598.

VERBENACEAE

Phyla canescens (Kunth) Greene

C5 Antakya: Mount Musa, Teknepinarı Village, around Mağara Dere Valley, in macchie, 470-600 m, 12 vii 1996, HÇ 1462.

VIOLACEAE

Viola alba Besser subsp. *dehnhardtii* (Ten.) W.Becker

C5 Antakya: Mount Musa, Çamlıyayla Village, around Zindan Dere, in *Pinus brutia* plantation, 350-450 m, 21 ii 1995, HÇ 379.

V. cilicica Contandr. & Quézel

C5 Antakya: Mount Musa, Büyükoba Village, around Kesmeli Tepe, under *Pinus*

nigara subsp. pallasiana forest, 450 m, 01 vi 1995, HÇ 1327.

Endemic. E. Medit. element.

V. isaurica Contandr. & Quézel

C5 Antakya: Mount Musa, Çamlıyayla Village, around Zindan Dere, under *Pinus brutia* plantation, 350-450 m, 21 ii 1995, HÇ 376.

Endemic. E. Medit. element.

V. odorata L.

C5 Antakya: Mount Musa, Büleyik Komu, around Bakacak Dere, under *Pinus brutia* forest, 400-450 m, 21 iii 1996, HÇ 1304.

V. suavis M.Bieb.

C5 Antakya: Mount Musa, around Tavukgediği, under *Pinus brutia* forest, 300-510 m, 22 ii 1995, HÇ 408.

VITACEAE

Ampelopsis orientale (Lam.) Planchon

C5 Antakya: Mount Musa, Incebel, around Soğukoluk, in mixed forest of *Carpinus orientalis* and *Ostrya carpinifolia*. 1000 m, 21 vii 1994, HÇ 253.

MONOCOTYLEDONES

AMARYLLIDACEAE

Galanthus fosteri Baker

C5 Antakya: Mount Musa, around Incebel, under *Carpinus orientalis* forest, 600 m, 22 ii 1995, HÇ 400.

E. Medit. element.

CYPERACEAE

Carex digitata L.

C5 Antakya: Mount Musa, Göksivri Tepesi, shady places under scrub, 1250 m, 26 iv 1995, HÇ 672.

Euro-Sib. element.

C. divulsa Stokes subsp. *coriogyne* (Nelmes) Ö.Nilsson

C5 Antakya: Mount Musa, Göksivri Tepesi, under scrub, 1250 m, 26 iv 1995, HÇ 671.

Endemic. E. Medit. element.

C. divulsa Stokes subsp. *leersii* (Kneucker) W.Koch

C5 Antakya: Mount Musa, Büleyik Komu, around Çolağın Tepesi, in scrub of *Carpinus orientalis*, 500-750 m, 31 v 1995, HÇ 860.

Euro-Sib. element.

C. flacca Schreber subsp. *serrulata* (Biv.) Greuter

C5 Antakya: Mount Musa, Çamlıyayla Village, around Zindan Dere, in *Pinus brutia* plantation, 350-450 m, 21 iii 1995, HÇ 461.

C. pendula Hudson

C5 Antakya: Mount Musa, İkizköprü Village, streamsides in *Pinus brutia* forest, 350-400 m, 18 iv 1996, HÇ 1322.

Euro-Sib. element.

DIOSCOREACEAE

Tamus comunis L. subsp. *communis*

C5 Antakya: Mount Musa, Teknepınarı Village, Hamilin Tepe, open scrub, 700-800 m, 20 vii 1994, HÇ 245.

IRIDACEAE

Gladiolus italicus Mill.

C5 Antakya: Mount Musa, Kara Komu, around Kandak Dere, under *Pinus brutia* forest. 100-200 m, 01 vi 1995, HÇ 939.

JUNCACEAE

Juncus inflexus L.

C5 Antakya: Mount Musa, Büyükoba Village, Soğuksu Deresi, streamsides, 340m, 27 vii 1995, HÇ 1254.

Luzula forsteri (C.Sm.) DC.

C5 Antakya: Mount Musa, Kiraz Gediği, in *Carpinus orientalis* forest, 900 m, 21 iii 1995, HÇ 447.

Euro-Sib. element.

LILIACEAE

Allium chloranthum Boiss.

C5 Antakya: Mount Musa, between Kızılca and Kible Kayası, open places in *Ostrya carpinifolia* forest, 900, m, 31 v 1995, HÇ 873.

E. Medit. element.

A. paniculatum L. subsp. *fuscum* (Waldst. & Kit.) Arc.

C5 Antakya: Mount Musa, Yoğunluk Village, between Tekerek Yazı and Oturak Tepe, in low macchie, 400-450m, 08 x 1994, HÇ 367.

E. Medit. element.

A. paniculatum L. subsp. *paniculatum*

C5 Antakya: Mount Musa, Kızılca, under mixed forest of *Carpinus orientalis* and *Ostrya carpinifolia*, 1070 m, 01 vii 1995, HÇ 1205.

Medit. element.

Asparagus acutifolius L.

C5 Antakya: Mount Musa, Teknepınarı Village, Hamilin Tepe, open scrub, 700-800 m, 20 vii 1994, HÇ 238.

Medit. element.

Colchicum cilicicum (Boiss.) Dammer

C5 Antakya: Mount Musa, Kiraz Gediği, under *Carpinus orientalis* forest, 900 m, 26 iv 1995, HÇ 659.

E. Medit. element.

C. troodii Kotschy

C5 Antakya: Mount Musa, Çamlıyayla Village, around Zindan Dere, in *Pinus brutia* plantation, 350-450 m, 02 xi 1995, HÇ 1295.

E. Medit. element.

Danaë racemosa (L.) Moench

C5 Antakya: Mount Musa, Göksivri Tepesi, shady edges of rocks, 1250 m, 26 iv 1995, HÇ 676.

Fritillaria alfredae Post subsp. *platyptera* (Samuelsson) Rix

Antakya: Mount Musa, around Incebel, in *Carpinus orientalis* forest, 600 m, 22 iii 1995, HÇ 466.

E. Medit. element.

Muscari comosum (L.) Mill.

C5 Antakya: Mount Musa, Salındırma Kayası, under *Carpinus orientalis* forest, 1100-1230 m, 02 vii 1995, HÇ 1229.

Medit. element.

M. tenuiflorum Taush

C5 Antakya: Mount Musa, Teknepınarı Village, Mağara Dere Valley, overgrazed and cleared macchie, 450-500 m, 30 v 1995, HÇ 842.

Ornithogalum narbonense L.

C5 Antakya: Mount Musa, Teknepınarı Village, Deli Kadir Tepesi, in macchie vegetation, 650 m, 30 v 1995, HÇ 816.

Medit. element.

O. oligophyllum E.D.Clarke

C5 Antakya: Mount Musa, Kible Kayası, open places in *Carpinus orientalis* forest, 900-1070 m, 26 iv 1995, HÇ 680.

O. umbellatum L.

C5 Antakya: Mount Musa, Teknepinarı Village, Mağara Dere Valley, overgrazed and cleared macchie, 450-500 m, 18 iv 1996, HÇ 1318.

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

C5 Antakya: Mount Musa, Tataralan Yazlağı, in macchie, 650 m, 31 v 1995, HÇ 919.

Smilax aspera L.

C5 Antakya: Mount Musa, Kızılca, in mixed forest of *Carpinus orientalis* and *Ostrya carpinifolia*, 1070 m, 31 v 1995, HÇ 878.

S. excelsa L.

C5 Antakya: Mount Musa, south slopes, around Kısık, under *Carpinus orientalis* forest, 990 m, 02 vii 1995, HÇ 1238.

ORCHIDACEAE

Anacamptis pyramidalis (L.) Rich.

C5 Antakya: Mount Musa, Teknepinarı Village, Mağara Dere Valley, overgrazed and cleared macchie, 450-500 m, 18 iv 1996, HÇ 837.

Cephalanthera longifolia (L.) Fritsch

C5 Antakya: Mount Musa, İkizkörü Village, around Büyükdüz Tepesi, under *Pinus brutia* forest, 400-550 m, 26 iv 1995, HÇ 653.

Euro-Sib. element.

Dactylorhiza romana (Seb.) Soò subsp. *romana*

C5 Antakya: Mount Musa, around Tavuk Gediği, under *Pinus brutia* forest, 300-510 m, 22 iii 1995, HÇ 468.

Medit. element.

Limodorum abortivum (L.) Swartz

C5 Antakya: Mount Musa, between Tavuk Gediği and Kamışlık, open places in *Pinus brutia* forest, 290 m, 22 iii 1995, HÇ 485.

Orchis anatolica Boiss.

C5 Antakya: Mount Musa, Tataralan Yazlağı, around Sultan Tepe, in *Carpinus orientalis* forest, 800-900 m, 25 iv 1995, HÇ 625.

O. morio L. subsp. **syriaca** Camus et al.

C5 Antakya: Mount Musa, Teknepinarı Village, Mağara Dere Valley, under *Pinus brutia* forest, 450-500 m, 18 iv 1996, HÇ 1319

O. simia Lam.

C5 Antakya: Mount Musa, Teknepinarı Village, between Çifte Kuyular and Tattepe, rocky areas, macchie, 500-600m, 25 iv 1995, HÇ 641.

Medit. element.

O. tridentata Scop.

C5 Antakya: Mount Musa, Teknepinarı Village, between Çifte Kuyular and Tattepe, in macchie, 500-600m, 25 iv 1995, HÇ 642.

Medit. element.

POACEAE (GRAMINEAE)

Avena barbata Pott ex Link subsp. *barbata*

C5 Antakya: Mount Musa, Teknepinarı Village, around Çatak Boğazı, in macchie, 500-600m, 30 v 1995, HÇ 757.

Medit. element.

A. byzantina K.Koch

C5 Antakya: Mount Musa, Teknepinarı Village, Deli Kadir Tepesi, in macchie vegetation, 650 m, 30 v 1995, HÇ 829.

A. sterilis L. subsp. *sterilis*

C5 Antakya: Mount Musa, Teknepinarı Village, around Çatak Boğazı, in macchie, 500-600m, 30 v 1995, HÇ 793.

Brachypodium pinnatum (L.) P.Beauv.

C5 Antakya: Mount Musa, Büyükoba Village, Soğuksu Deresi, open places in *Pinus brutia* forest, 300-500m, 01 vi 1995, HÇ 974.

Euro-Sib. element.

B. sylvaticum (Hudson) P.Beauv.

C5 Antakya: Mount Musa, Tombulun Yazlağı, in tall scrub of *Carpinus orientalis*, 900-950 m, 31 v 1995, HÇ 911.

Euro-Sib. element.

Bromus alopecuroides Poir. subsp. *alopecuroides*

C5 Antakya: Mount Musa, Teknepinarı Village, around Armut Tepe, in scrub vegetation, 650 m, 31 v 1995, HÇ 851.

Medit. element.

B. fasciculatus C.Presl

C5 Antakya: Mount Musa, Teknepinarı Village, around Çatak Boğazı, in macchie, 500-600m, 30 v 1995, HÇ 783.

E. Medit. element.

B. lanceolatus Roth

C5 Antakya: Mount Musa, Teknepinarı Village, around Çatak Boğazı, in macchie, 500-600m, 30 v 1995, HÇ 758.

B. ramosus Hudson

C5 Antakya: Mount Musa, Büyükoba Village, Soğuksu Deresi, open places in *Pinus brutia* forest, 300-500m, 01 vi 1995, HÇ 968.

B. rigidus Roth

C5 Antakya: Mount Musa, Teknepinarı Village, around Ekinkuyu, in scrub of *Carpinus orientalis* and *Quercus coccifera*. 550 m, 25 iv 1995, HÇ 607.

B. sterilis L.

C5 Antakya: Mount Musa, Salındırma Kayası, stony places, 1100-1230 m, 31 v 1995, HÇ 884.

Catapodium rigidum (L.) C.E.Hubb. ex Dony subsp. *rigidum* var. *rigidum*

C5 Antakya: Mount Musa, Teknepinarı Village, around Çatak Boğazı, in macchie, 500-600m, 30 v 1995, HÇ 764.

Cleistogenes serotina (L.) Keng subsp. *serotina*

C5 Antakya: Mount Musa, Çamlıyayla Village, around Zindan Dere, in *Pinus brutia* plantation, 350-450 m, 02 xi 1995, HÇ 1296

Cynosurus echinatus L.

C5 Antakya: Mount Musa, Teknepinarı Village, around Çatak Boğazı, in macchie, 500-600m, 30 v 1995, HÇ 779.

Medit. element.

Dactylis glomerata L. subsp. *glomerata*

C5 Antakya: Mount Musa, Teknepinarı Village, Deli Kadir Tepesi, in macchie vegetation, 650 m, 30 v 1995, HÇ 812.

Euro-Sib. element.

Elymus repens (L.) Gould subsp. *repens*

C5 Antakya: Mount Musa, Teknepinarı Village, around Çatak Boğazı, in macchie, 500-600m, 30 v 1995, HÇ 782.

Eremopoa attalica H.Scholz

C5 Antakya: Mount Musa, Teknepinarı Village, Deli Kadir Tepesi, in macchie vegetation, 650 m, 30 v 1995, HÇ 827.

Endemic. E. Medit. element.

E. capillaris R.R.Mill

C5 Antakya: Mount Musa, Büyükoba Village, Soğuksu Deresi, open places in *Pinus brutia* forest, 300-500m, 01 vi 1995, HÇ 957.

E. Medit. element.

Festuca drymeja Mertens & K.Koch

C5 Antakya: Mount Musa, around Kısık, under *Carpinus orientalis* forest, 990 m, 02 vii 1995, HÇ 1231.

Euro-Sib. element.

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

C5 Antakya: Mount Musa, Büyükoba Village, around Kesmeli Tepe, in *Pinus nigra* subsp. *pallasiana* forest, 450 m, 01 vi 1995, HÇ 952.

Medit. element.

Hordeum bulbosum L.

C5 Antakya: Mount Musa, Teknepinarı Village, around Çatak Boğazı, in macchie, 500-600m, 30 v 1995, HÇ 786.

H. murinum L. subsp. **glaucom** (Steudel) Tzvelev

C5 Antakya: Mount Musa, Teknepinarı Village, around Çatak Boğazı, in macchie, 500-600m, 30 v 1995, HÇ 762.

H. murinum L. subsp. **leporinum** (Link) Arc. var. *leporinum*

C5 Antakya: Mount Musa, Salındırma Kayası, steep cliffs, 1100-1230 m, 31 v 1995, HÇ 883.

Hyparrhenia hirta (L.) Stapf

C5 Antakya: Mount Musa, Kamışlık Yurdu, open places in *Pinus brutia* forest, 310 m, 01 vi 1995, HÇ 932.

Lolium perenne L.

C5 Antakya: Mount Musa, Teknepinarı Village, around Çatak Boğazı, in macchie, 500-600m, 30 v 1995, HÇ 761.

Euro-Sib. element.

L. temulentum L. var. **temulentum**

C5 Antakya: Mount Musa, Teknepinarı Village, Mağara Dere Valley, overgrazed and cleared macchie, 450-500 m, 30 v 1995, HÇ 836.

Melica ciliata L. subsp. **ciliata**

C5 Antakya: Mount Musa, Yazlak Yurdu, rocky cliffs, 600-850 m, 31 v 1995, HÇ 909.

M. eligulata Boiss.

C5 Antakya: Mount Musa, around Tavuk Gediği, under *Pinus brutia* forest, 410 m, 22 iii 1995, HÇ 472.

E. Medit. element.

M. uniflora Retz.

C5 Antakya: Mount Musa, Büyükoba Village, around Kesmeli Tepe, in *Pinus nigra* subsp. *pallasiana* forest, 450 m, 01 vi 1995i HÇ 1329.

Euro-Sib. element.

Milium pedicellare (Bornm.) Roshev. ex Melderis

C5 Antakya: Mount Musa, Tataralan Yazlağı, around Sultan Tepe, in *Carpinus orientalis* forest, 800-900 m, 25 iv 1995, HÇ 624.

Ir.-Tur. element.

M. vernale M.Bieb. subsp. **montianum** (Parl.) Jah. & Maire

C5 Antakya: Mount Musa, Göksivri Tepesi, on cliffs and steep slopes, 1250 m, 26 iv 1995, HÇ 668.

Medit. element.

Pennisetum orientale Rich.

C5 Antakya: Mount Musa, Ambar Deresi, roadsides, 20 m, 23 ii 1995, HÇ 417.

Ir.-Tur. element.

Piptatherum miliaceum (L.) Cosson subsp. **thomasii** (Duby) Freitag

C5 Antakya: Mount Musa, Kamışlık Yurdu, under *Pinus brutia* forest, 300 m, 22 iii 1995, HÇ 928.

P. virescens (Trin.) Boiss.

C5 Antakya: Mount Musa, around Kısık, under *Carpinus orientalis* forest, 990 m, 02 vii 1995, HÇ 1232.

Poa bulbosa L.

C5 Antakya: Mount Musa, Teknepinarı Village, Karapınar Valley, in macchie, 500 m, 25 iv 1995, HÇ 570.

P. pratensis L.

C5 Antakya: Mount Musa, Teknepinarı Village, around Çatak Boğazı, in macchie, 500-600m, 30 v 1995, HÇ 787.

P. timeolontis Heldr. ex Boiss.

C5 Antakya: Mount Musa, Teknepinarı Village, around Ekinkuyu, in scrub of *Carpinus orientalis* and *Quercus coccifera*. 550 m, 25 iv 1995, HÇ 609.

E. Medit. element.

Psilurus incurvus (Gouan) Schinz & Thell.

C5 Antakya: Mount Musa, Büleyik Komu, around Çolağın Tepesi, in scrub of *Carpinus orientalis*, 500-750 m, 31 v 1995, HÇ 855.

Sesleria alba C.Sm.

C5 Antakya: Mount Musa, around Incebel, in *Carpinus orientalis* forest, 600-900 m, 29 viii 1994, HÇ 310.

Setaria viridis (L.) P.Beauv.

C5 Antakya: Mount Musa, around Incebel, under *Carpinus orientalis* forest, 820 m, 29 viii 1994, HÇ 333.

Stipa bromoides (L.) Dörfler

C5 Antakya: Mount Musa, Teknepinarı Village, around Çatak Boğazı, in macchie, 500-600m, 30 v 1995, HÇ 771.

Medit. element.

Themeda triandra Forsskal

C5 Antakya: Mount Musa, Kamışlık Yurdu, open places in *Pinus brutia* forest, 300 m, 22 iii 1995, HÇ 933.