



## Contributions to the flora between Amasra and İnkum (Bartın/Turkey) located in Western Black Sea Region

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### Abstract

The aim of the study is to determine the flora that is an important part of the studies implemented for the identification and mapping of the biotopes as a basis of the landscape planning studies. 3336 herbarium samples were collected between the years of 2006 and 2009 from 156 survey areas. 521 natural taxa were identified in these studies. 136 of them belong to European-Siberian, 69 of them belong to Mediterranean and 6 of them belong to Iran-Turan phytogeographic regions. 13 endemic species, 44 species including 7 endangered species according to IUCN Red List, 12 taxa which are not included in the Red List but that are still rare species along with 28 geophytes stated in Ekim et al. (2000) are the taxa require priority in-situ conservation. 109 new taxa were identified in the study area for the first time.

**Key words:** flora, biyotop, peyzaj ekolojisi, Amasra, İnkum

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## Batı Karadeniz Bölgesinde yer alan Amasra ve İnkum arasında kalan bölgenin (Bartın) Florası'na Katkılar

### Özet

Bu araştırmanın amacı, peyzaj planlama çalışmalarına temel olacak biyotopların tespit edilmesi ve haritalanmasına yönelik çalışmalarda çok önemli bir yer tutan floranın tespitidir. 2006-2009 yılları arasında 156 röleve alanından 3336 adet herbarium örneği toplanmıştır. Bu çalışmalarda 521 adet doğal takson belirlenmiştir. Bunların 136'sı Avrupa-Sibirya, 69'u Akdeniz, 6 adedi de İran-Turan fitocoğrafik bölgesine aittir. Araştırma alanında belirlenen 13 adet endemik tür, IUCN Kırmızı Listesi'nde bulunan 7 adedi tehlike altında olan 44 adet tür, Ekim et al. (2000)'de belirtilen Kırmızı Liste'de yer almayan ancak nadir tür olan 12 takson ve 28 adet geofit, biyotopları ile birlikte öncelikle korunması gereken taksonlardır. Araştırma alanında 109 takson ilk defa tespit edilmiştir.

**Anahtar kelimeler:** flora, biotope, landscape ecology, Amasra, İnkum

### 1. Introduction

Landscape is defined as 'a heterogeneous land area composed of a cluster of interacting ecosystems that is repeated in similar form throughout' (Forman and Godron, 1986). The repeated ecosystems defined here are actually known as landscape elements and landscape is concerned as an ecosystem texture. Regarding the historical development of the landscape ecology, landscape elements are described as different concepts as biotope and ecotope. Biotope represents 'An area of uniformity in climate and distribution of biotic and abiotic components' (Dahl, 1908). Whereas ecotope is the space that the individual organisms sharing in relatively homogeneous ecosystems. Ecotope is very widely named as biotope also.

The terms ecotope and biotope are used as basic landscape elements in landscape ecology and are accepted as the smallest units representing a whole. In this respect, landscape ecology covers researches on structure, function and

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change of a landscape (Ayaşlıgil, 2008). Landscape structure involves the spatial relationships between distinguishable ecosystems or landscape elements. It denotes the ecosystems according to their sizes, shapes, numbers and varieties. The function of the landscape is to describe the energy, material and species flow between ecosystems. As for the landscape change, it describes the differentiation in the structure and the function of landscape mosaic in time (Dramstad et al., 1996; Forman and Godron, 1986).

Landscape ecology studies are limited with terrestrial ecosystems; vegetation is the most suitable means for the examination of terrestrial ecosystems. As described by Odum and Barrett (2005), a classification based on vegetation and abiotic environmental factors where vegetation interacts with is in question in terrestrial ecosystems. Therefore, a detailed examination of vegetation is of great importance in landscape ecology studies. A successful vegetation research is possible only with a very good knowledge of the flora. Hence, landscape ecology studies consisting of scientific foundations should be based on vegetation analysis and evaluations during the process of ecological planning and design as well as preparation of management plans. It is observed in our country that the biological and ecological data are not sufficient in studies related with environmental conservation and landscape planning. The landscape planner or landscape specialist working on topics such as landscape identification, character determination, protection, planning and management should perform the essential studies in person whenever there is no sufficient data available (Ayaşlıgil, 1987). Otherwise, it is not possible for the landscape planner or landscape specialist to analyze and assess the available data and sources properly for the purpose of landscape planning called as ‘creative nature conservation’.

After ‘Flora of Turkey and East Aegean Islands’ was published, it became possible to implement studies on flora in all regions of Turkey. Davis and colleagues have in many occasions put forth that the studies should be carried out at a local level and in a detailed manner following the publication of ‘Flora of Turkey and East Aegean Islands’ (Davis, 1965-1985).

Research area of this study is located to Western Black Sea Region of Turkey and in the Bartın Province. It covers the coastal mountains stretching between Amasra and İnkum settlements facing the Black Sea and the area around the Bartın estuary. The research area is approximately 20 km-long, 3 km-wide and a total of 4,715 hectares and located between 41° 38’ 46’’ and 41° 45’ 21’’ north latitude and between 32° 11’ 44’’ and 32° 24’ 29’’ east longitudes (Sarı Nayim, 2010).

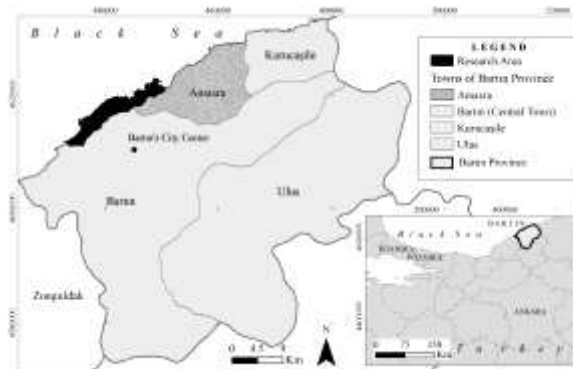


Figure 1. Location of the research area

Tourism centers of Amasra and İnkum as well as the rural settlements of Kapaklı, Karasu, Esenpınar, Tarlaağzı and Gömü have been included in the research area. Amasra is a small historical and touristic harbor town located 17 km northeast of the city centrum. As for İnkum, it is located 15 km north of the city centrum and is remarked as the nearest tourism area to Bartın (Figure 1). The altitude of the coastal mountains increase from İnkum to Amasra. The highest peak of the area is Dınlence Tepe with a height of 489 m. Bartın River is the most important hydraulic asset of the province dividing the study area with a deep valley. The Bartın Strait where the river flows into Black Sea is within the research area. The indented morphologic structure in the inner part of the area transforms to Steep Rocky Areas at the shore (Sarı Nayim, 2010).

In terms of geologic structure, the research area is located at a region known as the West Pontid in Turkey. The most distinguished characteristics of this zone are Devonian age shallow marine carbonates and carboniferous age terrestrial carbonaceous sediments (Tüysüz et al., 2001). All of the units containing upper cretaceous and older rocks that make up the calcareous mountain ridges to the north of the Bartın province can be observed between Amasra and İnkum. The surroundings of İnkum and Bartın Strait have grey brown podzolic soil characteristics. Alluvial soils are observed at the flat land around the Bartın River and the Karasu Stream. In the wide mountainous terrain between the Strait and Amasra brown forest soil prevail (Sarı Nayim, 2010). The Black Sea coastal region that contains the research area is located in ‘warm, mild and humid climate zone’. According to the data of Bartın Province Meteorological Service (2006), the mean annual temperature is 12°C with a mean precipitation level of 1054 mm. The mean annual relative humidity is at the rate of 78%. The research area is in the scope of Euxine province of European Siberian Region, A4 Bartın square (Davis, 1965-1985).

Biotope maps are the backbones of the landscape ecology data. While determining biotopes that are the fundamental elements of landscape, vegetation is studied in detail which in turn requires a good knowledge of the flora. The biotope mapping studies in which detailed flora and vegetation researches are performed are the important tools that help the definition of landscape and so direct the landscape planning, design and management studies. In this research, the diversity of the plants was considered as a significant factor for the classification of the biotopes and detailed floristic researches were performed.

## 2. Materials and methods

During the course of these studies, plant specimens were collected from 117 of the 156 survey areas (between 1 and 116 and 143), as for the remaining 39 survey points, plant specimens were recorded in the sample areas. The detailed survey areas such as location names, biotope types, geology, elevation, slope, aspect are explained in Appendix 2. The flora and vegetation studies were

implemented regularly in sample areas during the vegetation period between the years of 2006 and 2009 and 3336 plant specimens were collected. The collected herbarium specimens were identified mainly using 'Flora of Turkey and East Aegean Islands' prepared by Davis (1965-1985) and various sources such as Bonnier (1934), Polunin and Huxley (1966), Polunin (1969), Zohary (1966, 1972), Tutin et al. (1964, 1968, 1972), Fiori and Paoletti (1974), Schauer and Caspari (1978), Sezik (1984), Yaltırık (1984, 1988a, 1988b, 1991), Mitchell and Wilkinson (1991), As and Riedmiller (1991), Hay and Syngé (1992), Coombes (1992), Yaltırık ve Efe (1996, 2000), Blamey (1997), Baytop (1998), Garrard and Streeter (1998), Kreutz ve Çolak (2009). Floristic list is given in Appendix 1.

In this study, denominations were done according to Davis (1965-1985). Collector numbers of the herbarium specimens are given in the parenthesis between 1-3336. The initials of Yeliz Sarı Nayım-(YSN) is not indicated in floristic list to save space.

In the Floristic list, the species added to the Bartın Flora at the first time were marked with (\*) in the list. 'A4 Bartın' remark was added in the location properties of the species those are not mentioned in A4 square of Flora of Turkey. The native lands of species were indicated if it is known. The name of that species was written by indicating where they located. The endemic species according to Davis (1965-1985) was indicated among the species in research area. The locality numbers are given in bold before the collection date.

Floristic list obtained from the study was compared by the floristic lists of the studies performed in the region by Yatgın (1996), Kaya et al. (1999), Sarıbaş et al. (1999), Yılmaz (2001), Başaran ve Adıgüzel (2001), Aydın (2005), Kaya ve Başaran (2006) and Aktaş (2006). Endemic species were identified according to Davis (1965-1985) and endangered categories were determined concerning Ekim et al. (2000), Özhatay et al. (2005) and IUCN (2015). One herbarium sample from each of the taxa identified were given to the Istanbul University Faculty of Forestry Herbarium (ISTO), the others are kept in Bartın University Landscape Architecture Department.

### 3. Results

Flora and vegetation studies took a substantial part of the identification and mapping of the biotopes between Amasra and İnkum, important coastal settlement of Bartın. Because of that, vegetation and inventory studies were carried out at 156 sample areas during the vegetation seasons of 2006-2009 periods. During the study, 3336 plant specimens were collected.

At the end of the research, 521 natural taxa and 99 cultivated taxa were determined from the urban and rural landscape areas. 8 natural species were not collected and recorded from the area survey notes. Therefore, they have no reference numbers in the Appendix 1. The phytogeographic regions of the 311 taxa are unknown or these taxa are cosmopolit. The phytogeographic region of the 211 taxa is shown in Table 1.

Table 1. Taxa numbers according to the phytogeographic regions

Number of Taxa	Phytogeographic Regions	
106	Euro-Siberian	Euro-Siberian (136)
26	Euxine	
3	Hyrcano-Euxine	
1	Hyrcano-Euxine (mt.)	
48	Mediterranean	Mediterranean (69)
16	East Mediterranean	
4	West Mediterranean	
1	Omni- Mediterranean	
6	Irano-Turanian	Irano-Turanian (6)

The intensive distribution of the species belonging to the Mediterranean elements is a consequence of the seashore mild climate and coastal morphology. These species were generally encountered in the seashore calcareous reef biotopes and dry hilly terrains where the habitat conditions of broad-leaved forests unique to Black Sea Region were limited. The largest five families are shown in Table 2. The highest number belongs to ASTERACEAE family with 60 taxa in the study.

Table 2. The families with the highest number of taxa

Family Name	Numbers of Taxa
ASTERACEAE	60
POACEAE	48
FABACEAE	44
LAMIACEAE	30
ROSACEAE	27

### 4. Discussion

13 endemic species were identified in the study area. *Euonymus latifolius* ssp. *cauconis* is the local endemic taxon growing only in this region (Davis, 1965-1985 [II:551]). *Euonymus latifolius* ssp. *cauconis* [LR(nt)] and *Lamium purpureum* var. *aznavourii*\* [CR] endemic taxa are in the list of endangered species in global scale (Ekim et al., 2000; Özhatay et al., 2005). In this study, new localities of *Lamium purpureum* var. *aznavourii* taxon which was identified only for Istanbul vicinity according to 'Flora of Turkey and East Aegean Islands', were determined around Amasra (Bartın). *Seseli resinosum* is an endemic taxon growing in Zonguldak, Bartın-Amasra and Kastamonu of the West Black Sea Region. The other endemic species are the taxa of *Asyneuma limoniifolium* ssp. *pestalozzae*\*, *Tragopogon aureus*, *Knautia degenii*\*, *Crocus ancyrensis*, *Ballota nigra* ssp. *anatolica*\*, *Sideritis dichotoma*\*

*Stachys cretica* ssp. *anatolica*\*, *Bupleurum setaceum*, *Heracleum platytaenium*\* and *Ferulago plathycarpa*. With this study, 7 new endemic taxa (taxa with \* mark) were added to the list of endemic species determined in the studies about Bartın flora.

For the other non-endemic plants, the red list in the Plants of Turkey prepared by Ekim et al. (2000) and IUCN (2015) was considered. According to that Ekim et al. (2000) study, *Ilex aquifolium* [VU], *Leucojum aestivum* [VU], *Symphytum tuberosum* ssp. *nodosum* [VU], *Brassica cretica* [VU] taxa are in the category of ‘Vulnerable’ among the endangered species list of Turkey. *Calendula suffruticosa* [LR(nt)] is at a lower risk level and in ‘Near threatened’ class. *Pancreatium maritimum* [EN] sand dune plant from İnkum is in ‘Endangered’ category. In the rare species list prepared by Özhatay et al. (2005), the Red lists prepared in the years between 1989 and 2000 were compared. In the study, the rare species removed from the Red list or the rare species those are not included in the red list but must be included in the National Red list were also mentioned. The particular floristic list of the research area was assessed according to this comparison and results were shown in Table 3.

As shown in Table 3, some rare taxa found in the research area were completely removed from the Red list in Ekim et al. (2000). The taxa indicated as (n/l) in Table 3 should be protected with the species in the other Red list together with their habitat. Besides, it is observed that *Cyclamen coum*, *Scilla bithynica* and *Vaccinium arctostaphylos* are not included in both Red Lists. *Cyclamen coum* and *Vaccinium arctostaphylos* species are listed in Bern Convention Supplementary List as in-situ conservation.

According to the IUCN (2015) data given in Table 3, *Rhus coriaria* is classified as [VU], *Juglans regia* is classified as [NT], *Luzula forsteri* is classified as [DD] and the other species are classified as [LC]. *Leucojum aestivum* taxa was classified as [VU] according to Ekim et al. (2000) but transferred to [LC] category according to IUCN (2015). *Alnus glutinosa* was removed from IUCN Red List at 2000 but now, reinstated as [LC] in Red List.

Table 3. The assessment of taxa according to the IUCN Red Lists (Ekim et al., 2000; Özhatay et al., 2005; IUCN, 2015)

Plant Taxa	Ekim et al. (2000)	Özhatay et al. (2005)	Red List Category (IUCN, 2015)
<i>Ilex aquifolium</i>	VU		
<i>Leucojum aestivum</i>	VU		LC
<i>Symphytum tuberosum</i> ssp. <i>nodosum</i>	VU		
<i>Brassica cretica</i>	VU		
<i>Calendula suffruticosa</i>	LR(nt)		
<i>Pancreatium maritimum</i>	EN		
<i>Alnus glutinosa</i> ssp. <i>glutinosa</i>		n/l	LC
<i>Angelica sylvestris</i> var. <i>sylvestris</i>		n/l	
<i>Atriplex halimus</i>		n/l	
<i>Carex flacca</i> ssp. <i>serrulata</i>		n/l	
<i>Catapodium rigidum</i>		n/l	
<i>Cyclamen coum</i>		n/l	
<i>Cymbalaria longipes</i>		n/l	
<i>Doronicum orientale</i>		n/l	
<i>Malva cretica</i>		n/l	
<i>Ruscus aculeatus</i> var. <i>aculeatus</i>		n/l	
<i>Scilla bithynica</i>		n/l	
<i>Vaccinium arctostaphylos</i>		n/l	
<i>Viola canina</i>		n/l	
<i>Rhus coriaria</i>			VU
<i>Senecio aquaticus</i>			LC
<i>Carpinus betulus</i>			LC
<i>Corylus avellana</i>			LC
<i>Ostrya carpinifolia</i>			LC
<i>Barbarea vulgaris</i>			LC
<i>Equisetum telmateia</i>			LC
<i>Chrozophora tinctoria</i>			LC
<i>Quercus robur</i>			LC
<i>Centaurium erythraea</i>			LC
<i>Centaurium pulchellum</i>			LC
<i>Agrostis stolonifera</i>			LC
<i>Phragmites australis</i>			LC
<i>Iris pseudacorus</i>			LC
<i>Juglans regia</i>			NT
<i>Juncus articulatus</i>			LC
<i>Juncus effusus</i>			LC
<i>Juncus inflexus</i>			LC
<i>Luzula forsteri</i>			Data Deficient
<i>Lycopus europaeus</i>			LC
<i>Mentha longifolia</i>			LC
<i>Mentha pulegium</i>			LC
<i>Robinia pseudoacacia</i>			LC
<i>Trifolium angustifolium</i>			LC
<i>Trifolium pratense</i>			LC
<i>Trifolium scabrum</i>			LC
<i>Vicia cracca</i>			LC
<i>Lythrum salicaria</i>			LC
<i>Ficus carica</i>			LC

Table 3. devam ediyor

<i>Epilobium hirsutum</i>			LC
<i>Epilobium parviflorum</i>			LC
<i>Pinus brutia</i>			LC
<i>Platanus orientalis</i>			LC
<i>Polygonum persicaria</i>			LC
<i>Salix alba</i>			LC
<i>Angelica sylvestris</i>			LC
<i>Apium nodiflorum</i>			LC

Table 5. Woody and herbaceous taxa added to Bartın Flora as genus at the first time

Names of Taxa	
<i>Aristolochia clematitidis</i>	<i>Eragrostis minor</i>
<i>Symphytum tuberosum</i> subsp. <i>nodosum</i>	<i>Millium effusum</i>
<i>Lonicera caprifolium</i>	<i>Phragmites australis</i>
<i>Atriplex halimus</i>	<i>Secale cereale</i> var. <i>cereale</i>
<i>Fumana thymifolia</i> var. <i>viridis</i>	<i>Vulpia myuros</i>
<i>Hedypnois cretica</i>	<i>Acinos rotundifolius</i>
<i>Reichardia glauca</i>	<i>Ballota nigra</i> subsp. <i>anatolica</i>
<i>Alyssum</i> spp.	<i>Spiranthes spiralis</i>
<i>Cheiranthus cheiri</i>	<i>Cruciata laevipes</i>
<i>Draba muralis</i>	<i>Misopates orantium</i>
<i>Arbutus andrachne</i>	<i>Angelica sylvestris</i> var. <i>sylvestris</i>
<i>Chrozophora tinctoria</i>	<i>Apium nodiflorum</i>
<i>Gentiana asclepiadea</i>	<i>Heracleum platytaenium</i>
<i>Catapodium rigidum</i> subsp. <i>rigidum</i> var. <i>majus</i>	<i>Laser trilobum</i>

As the floristic lists belonging to the previous studies implemented by Yatgın (1996), Kaya et al. (1999), Sarıbaşı et al. (1999), Yılmaz (2001), Başaran ve Adıgüzel (2001), Aydın (2005), Kaya ve Başaran (2006) and Aktaş (2006) in Bartın Province were compared with the floristic list of this study, it was discovered that 109 taxa were collected and identified at the first time. These species were marked with (\*) in the floristic list. 28 of them were recorded as now the new genus to flora of Bartın (Table 5). This study is remarked as it contains more endemic species compared with other studies. The result of flora studies indicates that the species belong to Euro-Siberian and Mediterranean phytogeographic region have majority in comparison with the species belong to Irano-Turanian Region (Table 6). Among them, the samples of *Gentiana asclepiadea* and *Alyssum* spp. were found as single individuals in a locality of the field. The studies should be performed for these rare species on better herbarium specimens. Again, 9 taxa were added to the Bartın Flora for the first time (Table 7).

Table 6. The comparison of research with other related flora studies

	The number of identified species	The number of endemic species	Phytogeographic elements			
			Euro-Siberian	Irano-Turanian	Mediterranean	Unknown or cosmopolit
Yatgın (1996)	265	1	-	-	-	-
Kaya et. al. (1999)	629	3	174	10	81	364
Sarıbaşı et. al. (1999)	518	11	145	8	61	210
Yılmaz (2001)	556	8	-	-	-	-
Başaran ve Adıgüzel (2001)	274	4	73	5	20	176
Aydın (2005)	75	2	-	-	-	-
Kaya ve Başaran (2006)	672	7	176	13	88	395
Aktaş (2006)	102	-	-	-	-	-
<b>Sarı Nayim (2010)</b>	<b>521</b>	<b>13</b>	<b>136</b>	<b>6</b>	<b>69</b>	<b>311</b>

Table 7. The taxa those are added to Bartın flora for the first time.

Names of Taxa
<i>Quercus pubescens</i>
<i>Hedera colchica</i>
<i>Arbutus andrachne</i>
<i>Crataegus monogyna</i> subsp. <i>azarella</i>
<i>Prunus divaricata</i> subsp. <i>divaricata</i>
<i>Rubus ideaus</i>
<i>Rosa gallica</i>
<i>Rosa horrida</i>
<i>Vitis sylvestris</i>

The data of the flora are important for determination of the priorities in nature conservation and establishing essential protection strategies. Especially endemic, endangered and rare species are indicators in the landscape protection. These species should be put under protection together with their biotopes.

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#### Appendix 1 Floristic List

##### ACERACEAE

*Acer campestre* L. subsp. *campestre* [II:513]  
24 07.06.06 (3-5.), 41 15.09.06 (6, 7), 49 16.09.06 (8), 61 19.09.06 (10), 71 14.04.07 (12), 75 27.09.06 (11), 101 30.05.07 (13-15.).  
Euro-Sib. element.

##### AMARANTHACEAE

*Amaranthus albus* L. [II:343]  
67 22.09.06 (17).  
*Amaranthus retroflexus* L. [II:340]  
58 19.09.06 (18), 67 22.09.06 (16).  
A4 Bartın.

##### AMARYLLIDACEAE

*Leucojum aestivum* L. [VIII:364]  
104 14.04.07 (19).  
A4 Bartın, Euro-Sib. element.

##### ANACARDIACEAE

*Cotinus coggygria* Scop. [II:543]  
33 14.09.06 (34-36.), 39 15.09.06 (37).  
*Pistacia terebinthus* L. subsp. *terebinthus* [II:548]  
20 06.06.06 (21-23.), 25 07.06.06 (24, 25), 30 10.06.06 (26), 33 14.09.06 (27), 54 18.09.06 (28), 77 28.09.06 (30).  
A4 Bartın, Medit. element.  
*Rhus coriaria* L. [II:543]  
77 28.09.06 (31-33.).

## APOCYNACEAE

*Vinca major* L. subsp. *hirsuta* (Boiss.) Stearn [VI:163]  
12 25.03.06 (134), 31 10.06.06 (127), 87 13.04.07 (128), 89  
13.04.07 (129), 90 13.04.07 (130), 101 30.05.07 (135-137.), 102  
30.05.07 (131), 105 31.05.07 (132).

A4 Bartın, Euxine element.

## AQUIFOLIACEAE

*Ilex colchica* Poj. [II:541]

8 23.09.06 (145), 30 10.06.06 (138), 31 10.06.06 (139), 36  
14.06.06 (140), 40 15.09.06 (141, 142), 48 16.09.06 (143), 50  
16.09.06 (144).

Euxine element.

## ARACEAE

\**Arum italicum* Miller [VIII:44]

13 26.03.06 (147).

A4 Bartın.

*Arum orientale* Bieb. subsp. *orientale* [VIII:47]

14 02.03.07 (146).

Euxine element.

## ARALIACEAE

\**Hedera colchica* (C. Koch) C. Koch [IV:539]

23 07.06.06 (160), 24 07.06.06 (159), 44 16.09.06 (152), 56  
18.09.06 (161).

Euxine element.

*Hedera helix* L. [IV:538]

3 25.03.06 (148, 149), 5 28.02.07 (157, 158), 13 26.03.06 (151), 20  
28.02.07 (155, 156), 51 16.09.06

(153), 54 18.09.06 (154).

## ARISTOLOCHACEAE

\**Aristolochia clematitidis* L. [VII:555]

16 02.06.07 (162-164.).

A4 Bartın, Euro-Sib. element.

## ASCLEPIADACEAE

*Cionura erecta* (L.) Griseb. [VI:174]

15 10.06.06 (166), 20 06.06.06 (165).

E. Medit. element.

*Periploca graeca* L. var. *graeca* [VI:165]

26 29.09.07 (170), 30 10.06.06 (167), 105 31.05.07 (168, 169).

E. Medit. element.

## ASPIDACEAE

*Dryopteris filix-max* (L.) Schott [I:58]

27 23.06.07 (171).

*Polystichum aculeatum* (L.) Roth [I:56]

36 14.09.06 (181), 73 14.04.07 (180).

*Polystichum setiferum* (Forsk.) Woyнар [I:57]

13 26.03.06 (172), 26 29.09.07 (179), 38 15.09.06 (173), 75  
27.09.06 (174), 102 30.05.07 (175, 176),

106 31.05.07 (177, 178).

A4 Bartın.

*Asplenium adiantum-nigrum* L. [I:50]

11 25.03.06 (189), 13 02.06.07 (194), 48 16.09.06 (190), 53  
18.09.06 (191), 71 14.04.07 (192), 102 30.05.07 (193).

*Asplenium onopteris* L. [I:50]

23 07.06.06 (197), 24 07.06.06 (195, 196), 106 31.05.07 (198).

A4 Bartın.

*Asplenium trichomanes* L. [I:48]

24 07.06.06 (200), 71 14.04.07 (199).

A4 Bartın.

*Phyllitis scolopendrium* (L.) Newm. [I:52]

13 26.03.06 (182), 02.06.07 (188), 24 07.06.06 (183), 26 07.06.06  
(184, 185), 73 27.09.06 (186), 101 30.05.07 (187).

## ASTERACEAE

*Anthemis cotula* L. [V:208]

57 18.09.06 (479), 58 19.09.06 (478).

*Anthemis tinctoria* L. var. *pallida* DC. [V:213]

3 07.06.06 (511), 5 28.02.07 (514, 515), 8 23.09.06 (527, 528), 16  
02.06.07 (508), 18 05.06.06 (505),

20 06.06.06 (504, 506), 26 07.06.06 (507), 27 27.09.06 (497, 498),

23.06.07 (500), 28 10.06.06 (503), 28.09.06 (512), 30 10.06.06

(502), 33 14.09.06 (523), 35 14.09.06 (522), 44 16.09.06 (525), 51

16.09.06 (524), 53 18.09.06 (529), 54 18.09.06 (526), 71 23.09.06

(493, 494), 72 27.09.06 (495), 75 27.09.06 (496), 76 28.09.06

(513), 78 02.03.07 (518, 519), 81 02.03.07 (516), 82 02.03.07

(517), 102 30.05.07 (501), 105 31.05.07 (520), 107 31.05.07 (521),

108 02.06.07 (509), 109 02.06.07 (510), 112 02.06.07 (499).

*Arctium minus* (Hill) Bernh. subsp. *pubens* (Babington) Arenes  
[V:355]

67 22.09.06 (296, 297).

Euro-Sib. element.

*Artemisia absinthium* L. [V:318]

58 19.09.06 (385).

A4 Bartın.

\**Artemisia vulgaris* L. [V:313]

30 10.06.06 (384).

A4 Bartın.

*Bellis perennis* L. [V:135]

3 25.03.06 (292, 293), 13 26.03.06 (291).

Euro-Sib. element.

\**Bellis sylvestris* Cyr. [V:136]

77 28.09.06 (290), 78 28.09.06 (289).

Medit. element.

*Calendula suffruticosa* Vahl [V:171]

4 25.03.06(234), 20 28.02.07 (235).

A4 Bartın, W. Medit. element.

*Calendula arvensis* L. [V:171]

17 05.06.06 (240), 20 06.06.06 (236, 239), 22 06.06.06 (237, 238),  
116 29.09.07 (241).

A4 Bartın.

\**Carduus nutans* L. subsp. *leiophyllus* (Petr.) Stoj. & Stef.  
[V:425]

23 07.06.06 (458, 459).

A4 Bartın.

*Carduus pycnocephalus* L. subsp. *albidus* (Bieb.) Kazmi [V:436]

3 25.03.06 (463), 07.06.06 (465), 32 10.06.06 (464), 77 02.03.07  
(460), 78 28.09.06 (466), 84 02.03.07 (461), 92 13.04.07 (462).

*Carlina vulgaris* L. [V:601]

33 14.09.06 (344), 53 18.09.06 (343, 347), 54 18.09.06 (346), 55  
18.09.06 (345), 72 27.09.06 (340), 73 27.09.06 (339), 75 27.09.06

(341), 105 31.05.07 (342).

\**Carthamus glaucus* Bieb. subsp. *glaucus* [V:593]

1 22.09.06 (338), 59 19.09.06 (451).

A4 Bartın.

\**Centaurea cyanus* L. [V:581]

30 10.06.06 (417).

A4 Bartın.

*Centaurea iberica* Trev. ex Sprengel [V:543]

30 10.06.06 (408), 47 16.09.06 (413), 48 16.09.06 (412), 50

16.09.06 (414), 58 19.09.06 (415), 61 19.09.06 (416), 68 22.09.06  
(410), 71 23.09.06 (411), 100 30.05.07 (409).

*Chondrilla juncea* L. var. *juncea* [V:812]

1 22.09.06 (337), 33 14.09.06 (336), 41 15.09.06 (335), 53

18.09.06 (334), 72 27.09.06 (332, 333).

*Cichorium intybus* L. [V:627]

42 15.09.06 (324, 325), 51 16.09.06 (322), 52 16.09.06 (323), 55

18.09.06 (321), 56 18.09.06 (320), 60 19.09.06 (326-328.), 66

22.09.06 (319), 72 27.09.06 (330), 76 28.09.06 (329).

*Cirsium arvense* (L.) Scop. subsp. *vestitum* (Wimmer & Grab.)

Petrak [V:410]

27 23.06.07 (420), 72 27.09.06(418, 419).

*Cirsium hypoleucum* DC. [V:398]

24 07.06.06 (432), 27 14.04.07 (435), 38 15.09.06 (430), 48

16.09.06 (434), 54 18.09.06 (428, 429), 65 22.09.06 (427), 73

27.09.06 (433), 105 31.05.07 (431).

Euxine element.

*Cirsium ligulare* Boiss. [V:378]

39 15.09.06 (438), 72 27.09.06 (437), 74 27.09.06 (436).

*Cirsium* sp. [V:370]

8 23.09.06 (421, 422), 55 18.09.06 (426), 58 19.09.06 (424, 425),  
68 22.09.06 (423).

Because of having no sufficient data, this taxon was identified as  
genus.

*Cirsium vulgare* (Savi) Ten. [V:397]

33 14.09.06 (444, 445), 36 14.09.06 (440), 47 16.09.06 (448), 48

16.09.06 (449), 56 18.09.06 (447), 57 18.09.06 (442), 59 19.09.06

(446), 66 22.09.06 (441), 71 23.09.06 (439), 73 27.09.06 (443).

*Conyza bonariensis* (L.) Cronquist [V:133]

59 19.09.06 (356), 73 27.09.06 (355).

A4 Bartın.

*Conyza canadensis* (L.) Cronquist [V:132]

8 23.09.06 (368), 28 28.09.06 (358), 33 14.09.06 (360, 361), 56

18.09.06 (362), 58 19.09.06 (367, 371, 372), 59 19.09.06 (364-

366.), **61** 19.09.06 (363), **67** 22.09.06 (370), **69** 22.09.06 (369), **73** 27.09.06 (357), **76** 28.09.06 (359).  
A4 Bartın.

***Crepis foetida* L. subsp. *rhoeadifolia* (Bieb.) Celak. [V:832]**  
**6** 25.03.06 (555), **33** 14.09.06 (554), **57** 18.09.06 (557), **58** 19.09.06 (560, 561), **59** 19.09.06 (558), **60** 19.09.06 (559), **72** 27.09.06 (553), **78** 28.09.06 (552), **81** 02.03.07 (556).

***Crepis sancta* (L.) Babcock [V:834]**  
**20** 28.02.07 (549), **27** 14.04.07 (550), **71** 14.04.07 (546), **80** 28.02.07 (548), **85** 12.04.07 (551), **88** 13.04.07 (547).

***Doronicum orientale* Hoffm. [V:143]**  
**25** 14.04.07 (318), **97** 14.04.07 (315-317.).

***Eupatorium cannabinum* L. [V:173]**  
**8** 23.09.06 (373), **23** 07.06.06 (380), **35** 14.09.06 (378, 379), **54** 18.09.06 (377), **56** 18.09.06 (376), **68** 22.09.06 (374), **69** 22.09.06 (375), **73** 27.09.06 (381-383.).  
A4 Bartın, Euro-Sib. element.

**\**Hedypnois cretica* (L.) Dum.-Cours. [V:686]**  
**29** 10.06.06 (295), **109** 02.06.07 (294).

A4 Bartın, Medit. element.  
***Helminthotheca echioides* (L.) Holub [V:684]**  
**8** 23.09.06 (220), **16** 02.06.07 (229, 230), **28** 28.09.06 (228, 232), **36** 14.09.06 (226), **38** 15.09.06 (225), **55** 18.09.06 (224), **60** 19.09.06 (223), **66** 22.09.06 (221, 222), **71** 23.09.06 (233), **72** 27.09.06(219), **76** 22.09.06 (227), **114** 23.06.07 (231).  
A4 Bartın.

***Hieracium sabaudum* L. [V:745]**  
**44** 16.09.06 (569), **51** 16.09.06 (563), **53** 18.09.06 (562), **73** 27.09.06 (564-567., 570), **74** 27.09.06 (568).  
Euro-Sib. element.

***Inula graveolens* (L.) Desf. [V:72]**  
**7** 22.09.06 (407), **28** 28.09.06 (406).  
A4 Bartın, Medit. element.

**\**Inula viscosa* (L.) Aiton [V:73]**  
**28** (398, 399), **23** 07.06.06 (395), **7** 25.03.06 (400), 22.09.06 (393), **53** 18.09.06 (394, 396), **78** 28.09.06 (397).  
Medit. element.

***Inula vulgaris* (Lam.) Trevisan [V:67]**  
**10** 25.03.06 (405), **53** 18.09.06 (401), **73** 27.09.06 (402), **74** 27.09.06 (403), **81** 02.03.07 (404).  
Euro-Sib. element.

***Jurinea consanguinea* DC. [V:442]**  
**77** 02.06.07 (455), **112** 02.06.07 (454).

***Lactuca serriola* L. [V:778]**  
**71** 23.09.06 (331).  
Euro-Sib. element.

***Lapsana communis* L. subsp. *intermedia* (Bieb.) Hayek [V:787]**  
**3** 07.06.06 (576, 599), **8** 23.09.06 (577, 583), **11** 23.09.06 (584), **13** 02.06.07 (579), **17** 05.06.06 (574), **20** 06.06.06 (582, 601), **24** 07.06.06 (598, 575), **33** 14.09.06 (591), **36** 14.09.06 (592), **48** 16.09.06 (589), **51** 16.09.06 (590), **54** 18.09.06 (586), **55** 18.09.06 (587, 588), **65** 22.09.06 (585), **71** 23.09.06 (571, 573), **72** (607), **73** 27.09.06 (578, 580, 608), **74** 27.09.06 (581), **75** 27.09.06 (604, 605), **77** 28.09.06 (606), 02.03.07 (596), **78** 28.09.06 (597), **85** 12.04.07 (572), **98** 14.04.07 (595), **101** 30.05.07 (602), **102** 30.05.07 (603), **105** 31.05.07(594), **106** 31.05.07 (593), **109** 02.06.07 (600).

***Leontodon crispus* Vill. subsp. *asper*(Waldst. & Kit.) Rohl. var. *asper* [V:675]**  
**77** 02.06.07 (543-545.).

***Leontodon hispidus* L. var. *hispidus* [V:674]**  
**25** 14.04.07 (542).  
Euro-Sib. element.

***Leontodon tuberosus* L. [V:673]**  
**1** 22.09.06 (540), **76** 28.09.06 (541).  
Medit. element.

***Matricaria chamomilla* L. s.l. [V:293]**  
**32** 10.06.06 (477), **100** 30.05.07 (475), **103** 30.05.07 (474), **104** 31.05.07 (476).  
A4 Bartın.

***Mycelis muralis* (L.) Dum. [V:784]**  
**65** 22.09.06 (611), **73** 27.09.06 (610, 612), 14.04.07 (613).  
Euro-Sib. element.

***Onopordum tauricum* Willd. [V:366]**  
**3** 07.06.06 (456), **112** 02.06.07 (457).  
Euro-Sib. element.

***Pallenis spinosa* (L.) Cass. [V:51]**  
**3** 07.06.06 (349), **20** 06.06.06 (350, 351), **28** 10.06.06 (352), **33** 14.09.06 (348), **112** 02.06.07 (353, 354).

A4 Bartın, Medit. element.

***Pilosella piloselloides* (Vill.) Sojak subsp. *piloselloides* [V:753]**  
**28** 10.06.06 (473), **77** 02.06.07 (470), **101** 30.05.07 (469), **102** 30.05.07 (471, 472), **105** 31.05.07 (468).

***Pulicaria dysenterica* (L.) Bernh. [V:75]**  
**33** 14.09.06 (267), **36** 14.09.06 (259, 261), **51** 16.09.06 (266), **55** 18.09.06 (263, 264, 271), **56** 18.09.06 (268), **57** 18.09.06 (260), **58** 19.09.06 (256), **66** 22.09.06 (265), **68** 22.09.06 (262), **69** 22.09.06(269), **71** 23.09.06 (270), **73** 27.09.06 (258), **75** 27.09.06 (257).

**\**Reichardia glauca* Matthews [V:694]**  
**53** 18.09.06 (202-207.).

Ir.-Tur. element.

***Scolymus hispanicus* L. [V:624]**  
**22** 06.06.06(453), **58** 19.09.06 (452).  
Medit. element.

***Senecio aquaticus* Hill subsp. *erraticus* (Bertol.) Matthews [V:150]**  
**10** 23.09.06 (275), **28** 28.09.06 (277), **57** 18.09.06 (278), **67** 22.09.06 (272, 276), **72** 27.09.06 (273), **73** 27.09.06 (274).  
Euro-Sib. element.

***Senecio vulgaris* L. [V:165]**  
**2** 25.03.06 (285), **3** 25.03.06 (287), **5** 05.03.06 (286), **6** 25.03.06(288), **15** 26.03.06 (284), **20** 28.02.07 (282), **21** 28.02.07 (281), **58** 02.03.07 (280), **69** 25.02.07 (283), **83** 02.03.07 (279).  
A4 Bartın.

***Sonchus oleraceus* L. [V:691]**  
**3** 07.06.06 (218), **13** 26.03.06 (537), **20** 28.02.07 (211), **21** 06.06.06 (213), 28.02.07 (210), **22** 06.06.06 (212), **29** 10.06.06 (208), **53** 18.09.06 (214), **56** 18.09.06 (538), **57** 18.09.06(215), **77** 02.03.07 (536), **78** 28.09.06 (535), **83** 02.03.07 (217), **101** 30.05.07 (216), **106** 31.05.07 (209).

***Tanacetum parthenium* (L.) Schultz Bip. [V:268]**  
**22** 06.06.06 (490), **27** 23.06.07 (489), **69** 22.09.06 (491, 492).

***Tanacetum poteriifolium* (Ledeb.) Grierson [V:262]**  
**14** 02.03.07 (485), **20** 06.06.06 (483), **70** 23.09.06 (480-482.), **77** 02.06.07 (486), **83** 02.03.07 (484).  
Euxine element.

***Taraxacum serotinum*(Waldst. & Kit.) Poirlet [V:795]**  
**21** 06.06.06 (244), **58** 02.03.07 (251, 252), **67** 22.09.06 (467), **75** 27.09.06 (242).

***Taraxacum* sp. [V:788]**  
**5** 28.02.07 (254, 255), **13** 26.03.06 (249, 250), **20** 28.02.07 (246), **57** 18.09.06 (245), **71** 14.04.07 (243).

Because of having no sufficient data, this taxon was identified as genus.

***Taraxacum* sp. [V:788]**  
**5** 28.02.07 (247), **51** (531), **55** 18.09.06 (248), **69** 25.02.07 (253), **71** 23.09.06 (532).

Because of having no sufficient data, this taxon was identified as genus.

***Tragopogon aureus* Boiss. [V:667]**  
**105** 31.05.07 (299), **107** 31.05.07 (298).

Endemic.

***Tussilago farfara* L. [V:168]**  
**3** 25.03.06 (310, 311), **7** 25.03.06 (309), **8** 25.03.06 (308), **13** 26.03.06 (312), **15** 02.03.07 (303), **28** 28.09.06 (300), **55** 18.09.06 (301), **77** 28.09.06 (314), **78** 28.09.06 (313), **81** 02.03.07 (304-307.), **105** 31.05.07 (302).  
Euro-Sib. element.

***Urospermum picroides* (L.) F. W. Schmidt [V:685]**  
**16** 02.06.07 (533, 534), **107** 31.05.07 (201).

A4 Bartın, Medit. element.

***Xanthium spinosum* L. [V:48]**  
**36** 14.09.06 (388), **48** 16.09.06 (387), **58** 19.09.06 (386).

***Xanthium strumarium* L. subsp. *strumarium* [V:48]**  
**15** 26.03.06 (389), **28** 28.09.06 (391), **29** 10.06.06 (390), **77** 28.09.06 (392).

A4 Bartın.

#### BERBERIDACEAE

***Epimedium pubigerum* (DC.) Moren & Decaisne [I:211]**  
**81** 02.03.07 (616), **88** 13.04.07 (615).

Euxine element.



**BETULACEAE**

*Alnus glutinosa* (L.) Gaertner subsp. *glutinosa* [VII:692]  
27 14.04.07 (617, 620.), 26 07.06.06 (618), 44 16.09.06 (619), 59  
19.09.06 (621).  
Euro-Sib. element.

**BORAGINACEAE**

*Echium angustifolium* Miller [VI:323]  
28 10.06.06 (647), 30 10.06.06 (646), 32 10.06.06 (645).  
A4 Bartın, E. Medit. element.

*Echium italicum* L. [VI:321]

32 10.06.06 (641).  
Medit. element.

*Echium vulgare* L. [VI:322]

25 07.06.06 (642), 28 28.09.06 (639), 10.06.06 (640), 53 18.09.06  
(637), 66 22.09.06 (638), 77 02.06.07 (644), 112 02.06.07(643).  
Euro-Sib. element.

*Heliotropium dolosum* De Not. [VI:253]

58 19.09.06 (655).

*Heliotropium europaeum* L. [VI:252]

34 14.09.06 (657-658.), 42 15.09.06 (656), 58 19.09.06 (654).  
Medit. element.

*Lithospermum officinale* L. [VI:314]

7 22.09.06 (630, 631), 59 19.09.06 (633), 75 27.09.06 (623).  
Euro-Sib. element.

*Lithospermum purpureoaceruleum* L. [VI:314]

13 02.06.07 (626, 627), 71 23.09.06 (632), 77 02.06.07 (628, 629),  
82 02.03.07 (625), 88 13.04.07 (624).

A4 Bartın, Euro-Sib. element.

*Myosotis ramosissima* Rochel ex Schultes subsp. *ramosissima*  
[VI:270]

97 14.04.07 (636).

\**Symphytum tuberosum* L. subsp. *nodosum* (Schur) Soo [VI:385]

85 12.04.07 (634, 635).

A4 Bartın, Euro-Sib. element.

*Trachystemon orientalis* (L.) G. Don [VI:387]

5 25.03.06 (651, 652), 13 26.03.06 (653), 74 27.09.06 (648), 81  
02.03.07 (650), 90 13.04.07 (649).

Euxine element.

**BUXACEAE**

*Buxus sempervirens* L. [VII:631]

2 25.03.06 (660), 15 26.03.06 (659).

Euro-Sib. element.

**CAMPANULACEAE**

\**Asyneuma limoniifolium* (L.) Janchen subsp. *pestalozzae* (Boiss.)

Damboldt [VI:72]

77 02.06.07 (684).

Endemic.

*Campanula olympica* Boiss. [VI:58]

13 02.06.07 (664), 18 05.06.06 (663), 07.06.06 (683), 23 07.06.06  
(683), 24 07.06.06 (665, 680), 27 23.06.07 (681), 101 30.05.07  
(667, 682).

Euxine element.

*Campanula rapunculoides* L. subsp. *cordifolia* (C. Koch.)

Damboldt [VI:16]

35 14.09.06 (679).

*Campanula rapunculoides* L. subsp. *rapunculoides* L. [VI:16]

54 18.09.06 (677), 65 22.09.06 (675, 676), 73 27.09.06 (674), 81  
02.03.07 (678).

Euro-Sib. element.

*Campanula rapunculus* L. var. *rapunculus* [VI:59]

8 (671), 27 07.06.06 (666), 23.06.07 (661, 662, 673), 65 (670), 101  
30.05.07 (668,669), 106 31.05.07 (672).

Euro-Sib. element.

**CANNABACEAE**

*Humulus lupulus* L. [VII:640]

26 07.06.06 (689), 67 22.09.06 (685, 686), 86 12.04.07 (687, 688).

A4 Bartın, Euro-Sib. element.

**CAPRIFOLIACEAE**

\**Lonicera caprifolium* L. [IV:550]

24 07.06.06 (691), 101 30.05.07 (690).

A4 Bartın.

*Sambucus ebulus* L. [IV:542]

3 25.03.06 (696), 07.06.06 (699), 22 06.06.06 (698), 28 10.06.06  
(697), 36 14.09.06 (694), 56 18.09.06 (695).

Euro-Sib. element.

*Sambucus nigra* L. [IV:542]

22 06.06.06 (692), 69 22.09.06 (693).

A4 Bartın, Euro-Sib. element.

**CARYOPHYLLACEAE**

*Cerastium glomeratum* Thuill. [II:82]

24 07.06.06 (730), 27 14.04.07 (731), 96 13.04.07 (732).

A4 Bartın, Cosmopolitan.

*Dianthus giganteus* d'Urv. [II:131]

27 23.06.07 (745).

A4 Bartın, Euro-Sib. element.

*Saponaria officinalis* L. [II:141]

74 27.09.06 (746).

*Silene alba* (Miller) Krause subsp. *divaricata* (Reichb.) Walters  
[II:226]

15 02.03.07 (718), 16 02.06.07 (720-722., 727), 28 10.06.06 (725),

30 10.06.06 (723, 724), 32 10.06.06 (726), 33 14.09.06 (714, 715),

56 02.03.07 (716, 717), 107 31.05.07 (719).

A4 Bartın.

*Silene dichotoma* Ehrh. subsp. *dichotoma* [II:234]

15 10.06.06 (708), 29 31.05.07 (705, 706, 712, 713), 02.06.07 (703),

10.06.06 (707, 709-711.), 30 10.06.06 (704).

A4 Bartın.

\**Silene gallica* L. [II:238]

32 10.06.06 (729), 100 30.05.07 (700).

A4 Bartın, Cosmopolitan.

*Silene italica* (L.) Pers. [II:192]

51 16.09.06 (701, 702).

\**Silene vulgaris* (Moench) Garcker var. *vulgaris* [II:213]

100 30.05.07 (728).

\**Stellaria holostea* L. [II:71]

24 07.06.06 (743), 93 13.04.07 (744).

Euro-Sib. element.

*Stellaria media* (L.) Vill. subsp. *media* [II:69]

21 28.02.07(738), 79 25.02.07 (741).

\**Stellaria media* (L.) Vill. subsp. *pallida* (Dumort.) Aschers. &

Graebn. [II:70]

6 25.03.06 (733), 27 14.04.07 (734), 69 25.02.07 (740), 77

02.03.07 (736), 80 28.02.07 (739), 83 02.03.07 (735), 85 12.04.07  
(737).

A4 Bartın.

**CELASTRACEAE**

*Euonymus latifolius* (L.) Miller subsp. *caucanensis* Coode & Cullen  
[II:551]

1 22.09.06 (753), 13 26.03.06 (748), 28 10.06.06 (755), 28.09.06

(754), 31 10.06.06 (747-749.), 55 18.09.06 (751, 752), 88 13.04.07

(757), 101 30.05.07 (756), 102 30.05.07(750), 106 31.05.07 (758).

Endemic.

**CHENOPODIACEAE**

\**Atriplex halimus* L. [II:306]

59 19.09.06 (763-765.).

A4 Bartın.

*Chenopodium album* L. subsp. *album* var. *album* [II:304]

22 22.09.06 (770), 58 19.09.06 (768), 66 22.09.06 (769), 67

22.09.06 (766, 767).

A4 Bartın.

*Chenopodium botrys* L. [II:300]

58 19.09.06(762), 67 22.09.06 (760, 761).

*Salsola tragus* L. [II:330]

29 10.06.06 (759).

A4 Bartın.

**CISTACEAE**

*Cistus creticus* L. [I:507]

3 25.03.06 (789-792.,796), 07.06.06 (797, 798), 10 25.03.06 (793-

795.), 14.04.07 (785), 41 15.09.06 (788), 59 19.09.06 (784), 66

22.09.06 (787), 69 25.02.07 (786).

Omni-Mediterranean element.

*Cistus salviifolius* L. [I:508]

3 25.03.06 (780), 07.06.06 (783), 24 07.06.06 (781), 39 15.09.06

(799, 782).

A4 Bartın.

\**Fumana thymifolia* (L.) Verlot var. *viridis* (Ten.) Boiss. [I:521]

10 23.09.06 (771), 77 28.09.06 (773), 02.06.07 (772).

Medit. element.

*Helianthemum nummularium* (L.) Miller subsp. *nummularium*  
[I:512]

15 10.06.06 (779), 59 19.09.06 (775), 77 02.06.07 (777), 87 13.04.07 (774-778.), 102 30.05.07 (776).

#### CONVOLVULACEAE

*Calystegia sepium* (L.) R. Br. subsp. *sepium* [VI:220]  
23 07.06.06 (2747), 26 07.06.06 (2748), 106 31.05.07 (2749).  
A4 Bartın.

*Calystegia silvatica* (Kit.) Griseb. [VI:220]  
21 06.06.06 (817).

*Convolvulus arvensis* L. [VI:213]  
17 05.06.06 (821), 21 06.06.06 (819), 22 06.06.06 (818), 30 10.06.06 (820).

*Convolvulus cantabrica* L. [VI:206]  
10 23.09.06 (806), 20 06.06.06 (808-816.), 29.09.07 (800), 23 07.06.06 (803), 25 07.06.06 (802), 28 10.06.06 (801, 805), 77 02.06.07 (804), 105 31.05.07 (807).

#### CORNACEAE

*Cornus mas* L. [IV:541]  
6 25.03.06 (846), 26 07.06.06 (843), 31 10.06.06 (844, 845), 50 16.09.06 (840), 54 18.09.06 (842, 850), 56 18.09.06 (835), 74 27.09.06 (849), 81 02.03.07 (848), 92 13.04.07 (851), 101 30.05.07 (847).

Euro-Sib. element.

\**Cornus sanguinea* L. subsp. *australis* (C. A. Meyer) Jav. [IV:540]

8 23.09.06 (833), 11 25.03.06 (822), 24 07.06.06 (823-827.), 28 28.09.06 (831), 36 14.09.06 (841), 53 18.09.06 (834), 55 18.09.06 (829, 838, 839), 56 18.09.06 (837), 71 23.09.06 (832), 14.04.07 (828), 75 27.09.06 (830), 85 12.04.07 (836).

Euro-Sib. element.

#### CORYLACEAE

*Carpinus betulus* L. [VII:684]  
1 (898, 899), 3 25.03.06 (901), 6 25.03.06 (902), 10 25.03.06 (900), 13 02.03.07 (898, 899), 28 28.09.06 (894), 36 14.09.06 (888), 51 16.09.06 (903), 55 18.09.06 (889, 890), 71 23.09.06 (891), 74 27.09.06 (892), 75 27.09.06 (893), 88 13.04.07 (895), 101 30.05.07 (896, 897).

Euro-Sib. element.

*Corylus avellana* L. var. *avellana* [VII:687]  
50 16.09.06 (852).

Euro-Sib. element.

*Ostrya carpinifolia* Scop. [VII:685]  
3 25.03.06 (887), 6 25.03.06 (874-876.), 9 25.03.06 (873, 882), 11 25.03.06 (879-881.), 13 26.03.06 (853), 02.06.07 (870), 14 26.03.06 (878), 10.06.06 (884), 24 07.06.06 (867-869.), 25 07.06.06 (877), 28 28.09.06 (862), 30 10.06.06 (883), 31 10.06.06 (885), 33 14.09.06 (854, 855), 38 15.09.06 (856), 52 16.09.06 (857), 53 18.09.06 (859-861.), 54 18.09.06 (858), 77 (863-866.), 98 14.04.07 (886), 109 02.06.07 (871, 872).

Medit. element.

#### CRASSULACEAE

*Sedum hispanicum* L. var. *hispanicum* [IV:241]  
20 06.06.06 (906, 907, 910), 28.02.07 (914), 27 14.04.07 (908, 909), 79 25.02.07 (913), 93 13.04.07 (912), 94 13.04.07 (911).

Ir.-Tur. element.

\**Sedum sediforme* (Jacq.) Pau [IV:230]  
20 06.06.06 (905).

A4 Bartın, Medit. element.  
*Sedum stoloniferum* Gmelin [IV:227]  
24 07.06.06 (904).

Hyrcano-Euxine (mt.) element.

#### CRUCIFERAE

*Alliaria petiolata* (Bieb.) Cavara & Grande [I:480]  
23 07.06.06 (930), 85 12.04.07 (931, 932).

A4 Bartın.

\**Alyssum* sp. [I:362]  
59 19.09.06 (3333).

Because of having no sufficient data, this taxon was identified as genus.

*Arabis caucasica* Willd. subsp. *caucasica* [I:426]  
2 25.03.06 (935), 5 25.03.06 (936, 937), 14 26.03.06 (933, 934), 20 28.02.07 (940-942.), 78 28.09.06 (943, 944), 83 02.03.07 (938,939).

*Barbarea vulgaris* R. Br. [I:434]  
58 12.04.07 (991, 992).

\**Brassica cretica* Lam. [I:264]  
20 06.06.06 (973), 11.04.07 (972), 77 02.03.07 (974).  
A4 Bartın, E. Medit. element.

*Cakile maritima* Scop. [I:275]

29 10.06.06 (927-929.), 31.05.07 (925, 926).

*Capsella bursa-pastoris* (L.) Medik. [I:343]  
4 25.03.06 (945), 5 28.02.07 (950), 21 28.02.07 (947-949.), 85 12.04.07 (946).

Cosmopolitan.

\**Cardamine bulbifera* (L.) Crantz [I:440]  
89 13.04.07 (965), 99 14.04.07 (964).

A4 Bartın, Euro-Sib. element.

*Cardamine hirsuta* L. [I:443]  
2 25.02.07 (966), 77 02.03.07 (968), 78 02.03.07 (967).

Cosmopolitan.

*Cardamine impatiens* L. var. *pectinata* (Pallas) Trautv. [I:443]  
27 14.04.07 (969-971.).

Euro-Sib. element.

*Cardamine quinquefolia* (Bieb.) Schmalh. [I:441]  
13 26.09.06 (959-961), 27 14.04.07 (962), 73 14.04.07 (963), 81 02.03.07 (956, 957), 87 13.04.07 (954), 92 13.04.07 (955), 99 14.04.07 (958).

A4 Bartın, Euro-Sib. element.

*Cardaria draba* (L.) Desv. subsp. *draba* [I:286]  
58 02.03.07 (923), 80 28.02.07 (951-953.), 103 30.05.07 (918).

\**Cheiranthus cheiri* L. [I:478]  
11 25.03.06 (916).

A4 Bartın.

\**Draba muralis* L. [I:419]  
27 14.04.07 (917).

*Hirschfeldia incana* (L.) Lag.-Foss. [I:267]  
16 02.06.07 (1011-1013).

A4 Bartın.

*Lepidium campestre* (L.) R. Br. [I:280]  
88 13.04.07 (919).

*Lepidium sativum* L. subsp. *sativum* [I:281]  
58 19.09.06 (922), 67 22.09.06 (921).

*Raphanus raphanistrum* L. [I:270]  
14 26.03.06 (998), 15 02.03.07 (999), 16 02.06.07 (994), 18 05.06.06 (1004), 21 28.07.09 (995-997.), 26 07.06.06 (1005, 1008), 29 10.06.06 (1006, 1007), 02.06.07 (1000), 35 14.09.06 (1002), 67 22.09.06 (1003), 96 13.04.07 (1001).

A4 Bartın.

*Rapistrum rugosum* (L.) All. [I:273]  
88 13.04.07 (1010).

*Rorippa sylvestre* (L.) Bess. [I:432]  
113 02.06.07 (915).

A4 Bartın.

*Sinapis arvensis* L. [I:266]  
58 12.04.07 (993).

A4 Bartın.

\**Sisymbrium loeselii* L. [I:485]  
7 25.03.06 (983), 20 06.06.06 (981), 28.02.07 (976, 977), 29.09.07 (984), 21 06.06.06 (987), 22 06.06.06 (980, 982, 986), 67 22.09.06 (978, 985), 72 27.09.06 (979), 114 23.06.07 (975).

*Sisymbrium officinale* (L.) Scop. [I:483]  
3 07.06.06 (990), 103 30.05.07 (988, 989).

A4 Bartın.

\**Thlaspi arvense* L. [I:331]  
96 13.04.07 (924).

A4 Bartın.

#### CUCURBITACEAE

*Ecballium elaterium* (L.) A. Rich. [IV:203]  
58 19.09.06 (1014).

A4 Bartın, Medit. element.

#### CUPRESSACEAE

*Juniperus oxycedrus* L. subsp. *oxycedrus* [I:80]  
3 25.03.06 (1020-1023.), 10 25.03.06 (1024-1026.), 23.09.06 (1016, 1017), 24 07.06.06 (1027), 30 10.06.06 (1018, 1019), 70 23.09.06 (1015).

#### CYPERACEAE

*Carex flacca* Schreber subsp. *serrulata* (Biv.) Greuter [IX:120]  
7 22.09.06 (1035), 28 10.06.06 (1029), 28.09.06 (1034), 64 19.09.06 (1036), 71 14.04.07 (1041), 76 28.09.06 (1033), 77 02.06.07 (1028), 82 02.03.07 (1031, 1032), 98 14.04.07 (1030), 102 30.05.07 (1037).

Medit. element.

*Carex otrubae* Podp. [IX:93]  
110 02.06.07 (1038).

Euro-Sib. element.

*Carex sylvatica* Hudson subsp. *sylvatica* [IX:118]

13 02.06.07 (1040), 27 23.06.07 (1044), 65 22.09.06 (1039, 1042, 1043).

Euro-Sib. element.

*Cyperus longus* L. [IX:35]

104 31.05.07 (1045).

#### DIOSCOREACEAE

\**Tamus communis* L. subsp. *cretica* (L.) Kit Tan [VIII:553]

26 07.06.06 (1047, 1048), 28 10.06.06 (1046), 106 31.05.07 (1049).  
A4 Bartın.

#### DIPSACACEAE

\**Knautia degenii* Borbasex Formanek [IV:599]

102 30.05.07 (1066).

A4 Bartın. Endemic. W. Medit. element.

*Knautia orientalis* L. [IV:598]

8 23.09.06 (1088).

A4 Bartın, E. Medit. element.

*Scabiosa atropurpurea* L. subsp. *maritima* (L.) Arc. [IV:610]

3 07.06.06 (1060), 7 22.09.06 (1087), 10 23.09.06 (1085), 16 02.06.07 (1059), 20 06.06.06 (1061, 1062), 28 10.06.06 (1063), 28.09.06 (1067, 1084), 30 10.06.06 (1064), 36 14.09.06 (1086), 53 18.09.06 (1071), 55 18.09.06 (1076, 1079), 58 19.09.06 (1073), 72 27.09.06 (1083), 73 27.09.06 (1077), 75 27.09.06 (1081, 1082), 77 02.06.07 (1057), 78 28.09.06 (1080), 100 30.05.07 (1065), 112 02.06.07 (1058).

*Scabiosa columbaria* L. subsp. *columbaria* var. *columbaria*

[IV:604]

20 06.06.06 (1051-1053.), 22 06.06.06 (1056), 42 15.09.06 (1068, 1069), 53 18.09.06 (1070, 1074, 1075, 1078), 77 22.09.06 (1072), 28.09.06 (1050, 1055), 02.06.07 (1054).

A4 Bartın.

#### EQUISETACEAE

*Equisetum telmateia* Ehrh. [I:34]

8 23.09.06 (1091), 26 07.06.06 (1090).

A4 Bartın.

#### ERICACEAE

\**Arbutus andrachne* L. [VI:100]

10 25.03.06 (1104), 39 15.09.06 (1105, 1106).

A4 Bartın.

*Arbutus unedo* L. [VI:99]

3 25.03.06 (1099), 9 25.03.06 (1103), 10 25.03.06 (1102), 25 07.06.06 (1101), 28 28.09.06 (1098), 30 10.06.06 (1095, 1100), 39 15.09.06 (1096), 54 18.09.06 (1097).

A4 Bartın.

*Erica arborea* L. [VI:96]

3 25.03.06 (1117-1119.), 9 25.03.06 (1113), 10 25.03.06 (1115), 11 25.03.06 (1114), 24 07.06.06 (1107), 27 23.06.07 (1112), 28 28.09.06 (1121), 30 10.06.06 (1116), 33 14.09.06 (1111), 36 14.09.06 (1125), 51 16.09.06 (1124), 54 18.09.06 (1123), 56 02.03.07 (1109, 1110), 76 28.09.06 (1120), 77 28.09.06 (1122), 10 30.05.07 (1108).

*Rhododendron ponticum* L. subsp. *ponticum* [VI:93]

9 25.03.06 (1093), 24 07.06.06 (1094), 50 16.09.06 (1092).

Euxine element.

*Vaccinium arctostaphylos* L. [VI:102]

41 15.09.06 (2789, 2790).

Euxine element.

#### EUPHORBIACEAE

\**Chrozophora tinctoria* (L.) Rafin. [VII:568]

58 19.09.06 (1186).

*Euphorbia amygdaloides* L. var. *amygdaloides* [VII:626]

6 25.03.06 (1177), 8 25.03.06 (1176), 23 07.06.06 (1174), 26 07.06.06 (1175), 65 22.09.06 (1180, 1181), 77 02.06.07 (1173), 79 25.02.07 (1179), 84 02.03.07 (1178), 88 13.04.07 (1182), 92 13.04.07 (1183, 1184).

Euro-Sib. element.

\**Euphorbia chamaesyce* L. [VII:580]

58 19.09.06 (1185).

*Euphorbia helioscopia* L. [VII:597]

3 25.03.06 (1156), 6 25.03.06 (1158), 9 25.03.06 (1157), 68 22.09.06 (1153), 80 28.02.07 (1150-1152.), 83 02.03.07 (1154), 96 13.04.07 (1155).

*Euphorbia paralias* L. [VII:614]

79 25.02.07 (1138), 61 19.09.06 (1137).

A4 Bartın, Medit. element.

*Euphorbia peplus* L. var. *peplus* [VII:605]

5 25.03.06 (1165), 28.02.07 (1168), 17 05.06.06 (1162), 21 06.06.06 (1163, 1164), 30 10.06.06 (1166), 68 22.09.06 (1167), 77 28.09.06 (1169), 83 02.03.07 (1160, 1161).

*Euphorbia seguieriana* Necker subsp. *seguieriana* [VII:620]

28 10.06.06 (1172), 53 18.09.06 (1170), 105 31.05.07 (1171).

Euro-Sib. element.

*Euphorbia stricta* L. [VII:593]

5 25.03.06 (1139, 1141), 6 25.03.06 (1142), 26 07.06.06 (1148), 61 19.09.06 (1140), 66 22.09.06 (1159), 73 27.09.06 (1144, 1145), 86 12.04.07 (1143), 96 13.04.07 (1146), 103 30.05.07 (1147), 104 31.05.07 (1149).

Euro-Sib. element.

*Mercurialis annua* L. [VII:569]

4 25.03.06 (1132), 5 28.02.07 (1131), 21 06.06.06 (1126), 28.02.07 (1129, 1130), 83 02.03.07 (1127), 86 12.04.07 (1128).

*Mercurialis perennis* L. [VII:570]

57 18.09.06 (1133), 83 02.03.07 (1135, 1136), 89 13.04.07 (1134).

A4 Bartın, Euro-Sib. element.

#### FABACEAE

*Anthyllis vulneraria* L. subsp. *boissieri* (Sag.) Bornm. [III:535]

24 07.06.06 (1210), 30 10.06.06 (1211), 77 02.06.07 (1207, 1208), 112 02.06.07 (1209).

*Argyrobolium biebersteinii* Ball [III:37]

77 02.06.07 (1466), 102 30.05.07 (1462-1464.), 112 02.06.07 (1465).

\**Astragalus glycyphyllos* L. subsp. *glycyphyllos* [III:96]

6 25.03.06 (1441), 24 07.06.06 (1443), 27 23.06.07 (1444), 79 25.02.07 (1442).

A4 Bartın, Euro-Sib. element.

*Chamaecytisus hirsutus* (L.) Link [III:17]

3 25.03.06 (1192, 1193), 10 14.04.07 (1194), 94 13.04.07 (1195, 1196), 95 13.04.07 (1197, 1198).

\**Coronilla parviflora* Willd. [III:542]

77 02.06.07 (1205), 87 13.04.07 (1404), 112 02.06.07 (1206).

A4 Bartın, E. Medit. element.

\**Coronilla scorpioides* (L.) Koch [III:540]

112 02.06.07 (1204).

*Coronilla varia* L. subsp. *varia* [III:543]

1 07.06.06 (1203), 20 06.06.06 (1199, 1200), 103 30.05.07 (1201), 105 31.05.07 (1202).

*Dorycnium graecum* (L.) Ser. [III:514]

8 23.09.06 (1307-1309.), 16 02.06.07 (1292, 1293), 24 07.06.06 (1289), 27 23.06.07 (1290, 1291, 1316), 28 28.09.06 (1315), 51 16.09.06 (1300), 53 18.09.06 (1303), 56 18.09.06 (1301, 1302), 64 19.09.06 (1304), 65 22.09.06 (1306), 66 22.09.06 (1305), 69 25.02.07 (1296), 72 27.09.06 (1313), 73 27.09.06 (1311, 1312, 1314), 74 27.09.06 (1310), 77 02.03.07 (1317), 79 25.02.07 (1297, 1298), 98 14.04.07 (1299), 101 30.05.07 (1294, 1295).

Euxine element.

*Dorycnium pentaphyllum* Scop. subsp. *herbaceum* (Vill.) Rouy [III:516]

6 25.03.06 (1275), 7 22.09.06 (1285), 28 10.06.06 (1270-1272.), 39 15.09.06 (1281, 1282), 55 18.09.06 (1283, 1284), 68 22.09.06 (1286), 70 23.09.06 (1274, 1288), 71 23.09.06 (1287), 76 28.09.06 (1276, 1279, 1280), 77 02.06.07 (1277), 82 02.03.07 (1273), 112 02.06.07 (1278).

*Galega officinalis* L. [III:41]

23 07.06.06 (1428), 24 07.06.06 (1423, 1424), 27 23.06.07 (1429-1431.), 30 10.06.06 (1425), 44 16.09.06 (1438), 47 16.09.06 (1439), 58 19.09.06 (1436), 61 19.09.06 (1435), 63 19.09.06 (1434), 72 27.09.06 (1422, 1433), 73 27.09.06 (1432), 100 31.05.07 (1426), 102 30.05.07 (1440), 103 31.05.07 (1427).

Euro-Sib. element.

*Genista tinctoria* L. [III:25]

23 07.06.06 (1189).

Euro-Sib. element.

*Hippocrepis unisiliquosa* L. subsp. *unisiliquosa* [III:546]

9 25.03.06 (1498).

A4 Bartın.

*Lathyrus laxiflorus* (Desf.) O. Kuntze subsp. *laxiflorus* [III:347]

23 07.06.06 (1487, 1488), 24 07.06.06 (1489), 27 14.04.07 (1475, 1477), 65 22.09.06 (1483, 1485), 71 14.04.07 (1474), 75 27.09.06 (1484), 77 02.06.07 (1490), 87 13.04.07 (1486), 88 13.04.07 (1478,

1479), **90** 13.04.07 (1480), **93** 13.04.07 (1481), **99** 14.04.07 (1476),

**101** 30.05.07 (1473), **106** 31.05.07 (1482).

\**Lathyrus venetus* (Miller) Wohlf. [III:334]

**88** 13.04.07 (1470, 1471), **92** 13.04.07 (1472).

Euro-Sib. element.

*Lotus corniculatus* L. var. *corniculatus* [III:526]

**7** 22.09.06 (1447), **8** 23.09.06 (1449), **11** 23.09.06 (1450), **18** 05.06.06 (1459), **28** 10.06.06 (1461), **38** 15.09.06 (1452), **42** 15.09.06 (1458), **51** 16.09.06 (1453), **56** 18.09.06 (1456), **58** 19.09.06 (1446), **59** 19.09.06 (1448, 1451, 1455), **60** 19.09.06 (1445), **73** 27.09.06 (1454), **100** 30.05.07 (1467), **104** 31.05.07 (1460), **106** 02.06.07 (1457).

\**Lotus ornithopodioides* L. [III:523]

**20** 11.04.07 (1468), **25** 14.04.07 (1469).

Medit. element.

*Medicago arabica* (L.) Huds. [III:500]

**20** 28.02.07 (1235), 11.04.07 (1236), **85** 12.04.07 (1237).

A4 Bartın.

*Medicago littoralis* Rohde ex Lois. var. *littoralis* [III:502]

**29** 10.06.06 (1262, 1263), 02.06.07 (1267), **32** 10.06.06 (1266, 1268), **77** 02.03.07 (1269).

A4 Bartın.

*Medicago lupulina* L. [III:487]

**8** 23.09.06 (1260), **24** 07.06.06 (1249, 1250), **30** 10.06.06 (1255), **55** 18.09.06 (1257), **56** 18.09.06 (1258, 1259), **71** 23.09.06 (1261), **98** 14.04.07 (1251), **101** 30.05.07 (1256), **102** 30.05.07 (1254), **104** 31.05.07 (1252), **106** 31.05.07 (1253), 02.06.07 (1246), **112** 02.06.07 (1247, 1248).

A4 Bartın.

*Medicago marina* L. [III:501]

**29** 31.05.07 (1238).

A4 Bartın.

*Medicago orbicularis* (L.) Bart. [III:486]

**30** 10.06.06 (1241), **77** 02.06.07 (1239), **108** 02.06.07 (1240).

A4 Bartın.

*Medicago polymorpha* L. var. *vulgaris* (Benth.) Shinnars [III:500]

**89** 13.04.07 (1265), **100** 30.05.07 (1264).

A4 Bartın.

\**Medicago sativa* L. subsp. *sativa* [III:488]

**30** 10.06.06 (1245), **32** 10.06.06 (1242, 1243).

A4 Bartın.

*Melilotus alba* Desr. [III:451]

**67** 22.09.06 (1212), **72** 27.09.06 (1213).

*Melilotus officinalis* (L.) Desr. [III:450]

**1** 22.09.06 (1214), **15** 10.06.06 (1215), **21** 06.06.06 (1217), **22** 06.06.06 (1216), **24** 07.06.06 (1221), **28** 10.06.06 (1219), **30** 10.06.06 (1218), **103** 30.05.07 (1220).

*Psoralea bituminosa* L. [III:264]

**3** 07.06.06 (1233), **24** 07.06.06 (1231), **28** 10.06.06 (1229), 28.09.06 (1222, 1223), **33** 14.09.06 (1226-1228.), **55** 18.09.06 (1225), **66** 22.09.06 (1224), **78** 28.09.06 (1232), **103** 30.05.07 (1230), **112** 02.06.07 (1234).

A4 Bartın, Medit. element.

*Robinia pseudoacacia* L. [III:41]

**78** 02.03.07 (1187).

A4 Bartın.

*Sophora jaubertii* Spach [III:12]

**69** 22.09.06 (1188).

Euxine element.

*Spartium junceum* L. [III:32]

**3** 25.03.06 (1494), 07.06.06 (1497), **6** 25.03.06 (1496), **10** 25.03.06 (1495), **15** 10.06.06 (1492), **20** 06.06.06 (1493), **73** 27.09.06 (1491).

Medit. element.

*Trifolium angustifolium* L. var. *angustifolium* [III:434]

**24** 07.06.06 (1403), **28** 10.06.06 (1398), **30** 10.06.06 (1399), **70** 23.09.06 (1395-1397.), **72** 27.09.06 (1394), **76** 28.09.06 (1400), **109** 02.06.07 (1402), **112** 02.06.07 (1401).

A4 Bartın.

*Trifolium arvense* L. var. *arvense* [III:432]

**27** 23.06.07 (1335-1337.).

*Trifolium campestre* Schreb. [III:404]

**3** 07.06.06 (1358, 1359), **16** 02.06.07 (1363-1365.), **24** 07.06.06 (1360, 1361.), **27** 23.06.07 (1356), **100** 30.05.07 (1368), **103** 30.05.07 (1366, 1367), **109** 02.06.07 (1362), **112** 02.06.07 (1357).

A4 Bartın.

*Trifolium fragiferum* L. var. *fragiferum* [III:409]

**27** 14.04.07 (1342), **32** 10.06.06 (1353, 1354), **55** 18.09.06 (1348, 1349), **58** 19.09.06 (1343), **77** 02.06.07 (1346), **100** 30.05.07 (1344, 1352), **101** 30.05.07 (1355), **103** 30.05.07 (1345, 1351), **108** 02.06.07 (1350), **109** 02.06.07 (1347).

A4 Bartın.

*Trifolium hybridum* L. var. *hybridum* [III:395]

**27** 23.06.07 (1339-1341.).

*Trifolium lappaceum* L. [III:430]

**28** 10.06.06 (1333).

A4 Bartın, Medit. element.

\**Trifolium nigrescens* Viv. subsp. *petrisavii* (Clem.) Holmboe [III:396]

**27** 23.06.07 (1338).

A4 Bartın.

*Trifolium* sp. [III:422]

**30** 10.06.06 (1334).

Beacuse of having no sufficient data, this taxon was identified as genus.

*Trifolium pratense* L. var. *pratense* [III:415]

**8** 3.09.06 (1372), **16** 31.05.07 (1387), **18** 05.06.06 (1390), **19** 05.06.06 (1389), **24** 07.06.06 (1393), **26** 07.06.06 (1385), **28** 10.06.06 (1383), 28.09.06 (1375), **34** 14.04.07 (1381, 1382), **36** 14.09.06 (1378-1380.), **54** 19.09.06 (1388), **55** 18.09.06 (1377), **56** 18.09.06 (1370, 1371), **65** 22.09.06 (1376), **73** 27.09.06 (1369, 1373, 1374, 1384), **76** 28.09.06 (1386), **106** 02.06.07 (1391, 1392).

*Trifolium repens* L. var. *repens* [III:392]

**5** 28.02.07 (1322, 1323), **13** 02.06.07 (1326), **23** 07.06.06 (1330), **26** 07.06.06 (1318), **55** 18.09.06 (1327, 1328), **86** 12.04.07 (1321), **102** 30.05.07 (1320), **103** 30.05.07 (1329), **104** 31.05.07 (1319), **106** 02.06.07 (1325), **112** 02.06.07 (1324).

A4 Bartın.

\**Trifolium scabrum* L. [III:428]

**24** 07.06.06 (1331, 1332).

A4 Bartın.

*Vicia cracca* L. subsp. *cracca* [III:282]

**36** 14.09.06 (1409), **105** 31.05.07 (1406), **112** 02.06.07 (1407, 1408).

A4 Bartın, Euro-Sib. element.

*Vicia lathyroides* L. [III:317]

**17** 05.06.06 (1417), **20** 11.04.07 (1418), **25** 14.04.07 (1419-1421.), **98** 14.04.07 (1416).

A4 Bartın.

\**Vicia lutea* L. var. *lutea* [III:311]

**20** 11.04.07 (1405).

A4 Bartın.

*Vicia sativa* L. subsp. *sativa* [III:319]

**22** 06.06.06 (1411), **27** 23.06.07 (1414), **101** 30.05.07 (1412), **106** 31.05.07 (1410, 1413, 1415).

Cosmopolitan.

**FAGACEAE**

*Castanea sativa* Miller [VII:659]

**11** 25.03.06 (1676), **13** 26.03.06 (1675), **24** 07.06.06 (1674), **50** 16.09.06 (1673), **56** 02.03.07 (1671), **62** 19.09.06 (1672), **69** 25.02.07 (1669), **79** 25.02.07 (1670).

Euro-Sib. element.

*Fagus orientalis* Lipsky [VII:657]

**28** 28.09.06 (1683), **56** 18.09.06 (1682), 02.03.07 (1679), **62** 19.09.06 (1681), **69** 25.02.07 (1677), **75** 27.09.06 (1684, 1685), **79** 25.02.07 (1678), **93** 13.04.07 (1680).

Euro-Sib. element.

*Quercus cerris* L. var. *cerris* [VII:674]

**1** 22.09.06 (1540, 1549, 1566), **3** 25.03.06 (1508), 07.06.06 (1565), **8** 23.09.06 (1541, 1557, 1558), **11** 25.03.06 (1538, 1547), **16** 02.06.07 (1575-1578.), **25** 07.06.06 (1545, 1546, 1574), **28** 10.06.06 (1509), 28.09.06 (1534, 1569-1573.), **34** 14.09.06 (1529), **36** 14.09.06 (1525), **38** 15.09.06 (1532, 1562), **39** 15.09.06 (1527, 1544, 1530), **41** 15.09.06 (1582, 1583), **48** 16.09.06 (1561), **50** 16.09.06 (1535, 1543, 1560, 1584, 1585), **54** 18.09.06 (1553), **55** 18.09.06 (1531, 1554, 1555, 1559, 1567, 1586, 1589), **59** 19.09.06 (1550), **61** 19.09.06 (1536, 1537, 1592-1597.), **62** 19.09.06 (1510, 1551, 1598, 1599), **64** 19.09.06 (1524, 1539, 1552, 1590, 1591), **66** 22.09.06 (1522, 1523), **69** 25.02.07 (1501), **70** 23.09.06 (1511, 1542), **71** 14.04.07 (1504), **72** 27.09.06 (1526), **73** 27.09.06 (1533, 1556), **74** 27.09.06 (1548), **76** 28.09.06 (1499,

1500), **77** 28.09.06 (1512-1515.), 02.06.07 (1516, 1519-1521., 1563, 1580, 1581), **87** 13.04.07 (1502), **88** 13.04.07 (1528), **90** 13.04.07 (1503), **102** 30.05.07 (1507), **106** 31.05.07 (1505, 1506), **109** 02.06.07 (1579, 1518, 1568), **112** 02.06.07 (1564).  
Medit. element.

**Quercus infectoria** Olivier subsp. *infectoria* [VII:671]

**54** 18.09.06 (1653, 1654), **61** 19.09.06 (1640), **71** 29.09.07 (1645-1648.), **77** 28.09.06 (1652), **102** 30.05.07 (1638), **109** 02.06.07 (1517, 1639, 1651).  
Euro-Sib. element.

**Quercus petraea** (Mattuschka) Liebl. subsp. *iberica* (Steven ex Bieb.) Krassiln. [VII:668]

**11** 23.09.06 (1612, 1613), **39** 15.09.06 (1623), **40** 15.09.06 (1618, 1620), **44** 16.09.06 (1632), **49** 16.09.06 (1610, 1611), **51** 16.09.06 (1621, 1622), **56** 18.09.06 (1630), **61** 19.09.06 (1633, 1625, 1633), **62** 19.09.06 (1624), **64** 19.09.06 (1626-1629.), **69** 25.02.07 (1603), **70** 23.09.06 (1614, 1615), **71** 23.09.06 (1616, 1617), 14.04.07 (1608), **79** 25.02.07 (1604), **84** 18.09.06 (1631), 02.03.07 (1605), **87** 13.04.07 (1606), **93** 13.04.07 (1607), **105** 31.05.07 (1609).

\***Quercus pubescens** Willd. [VII:672]

**3** 07.06.06 (1665), **10** 23.09.06 (1656), 14.04.07 (1636), **11** 25.03.06 (1667), 23.09.06 (1666, 1668), **25** 07.06.06 (1664), 14.04.07 (1659), **33** 14.09.06 (1655), **47** 16.09.06 (1649), **50** 16.09.06 (1650), **62** 19.09.06 (1662), **71** 14.04.07 (1637), **76** 28.09.06 (1634, 1663), **77** 28.09.06 (1657), 29.09.07 (1641-1644.), **82** 02.03.07 (1635).

**Quercus robur** L. subsp. *robur* [VII:663]

**66** 22.09.06 (1601, 1602), **71** 22.09.06 (1600).  
Euro-Sib. element.

GENTIANACEAE

**Blackstonia perfoliata** (L.) Hudson subsp. *perfoliata* [VI:177]

**8** 23.09.06 (1692), **24** 07.06.06 (1701), **28** 10.06.06 (1698, 1699), 28.09.06 (1694), **30** 10.06.06 (1697), **71** 23.09.06 (1691, 1693), **76** 28.09.06 (1695), **105** 31.05.07 (1696), **108** 02.06.07 (1700), **112** 02.06.07 (1702).  
A4 Bartın.

**Centaureum erythraea** Rafn subsp. *erythraea* [VI:179]

**28** 10.06.06 (1689), **30** 10.06.06 (1688), **77** 02.06.07 (1690).  
Euro-Sib. element.

\***Centaureum pulchellum** (Swartz) Druce [VI:180]

**30** 10.06.06 (1687).

\***Gentiana asclepiadea** L. [VI:184]

**24** 07.06.06 (1686).  
Euro-Sib. element.

GERANIACEAE

**Erodium cicutarium** (L.) L'Herit. subsp. *cutarium* [II:485]

**15** 02.03.07 (1706, 1709), **29** 10.06.06 (1707), **77** 02.03.07 (1708), **80** 28.02.07 (1703-1705.).

\***Erodium malacoides** (L.) L'Herit. [II:480]

**20** 28.02.07 (1710).  
A4 Bartın, Medit. element.

**Geranium asphodeloides** Burm. Fil. subsp. *asphodeloides* [II:469]

**23** 07.06.06 (1729, 1730), **24** 07.06.06 (1731), **85** 12.04.07 (1726, 1728), **101** 30.05.07 (1727).  
Euro-Sib. element.

**Geranium columbinum** L. [II:461]

**112** 02.06.07 (1736).  
A4 Bartın.

**Geranium dissectum** L. [II:461]

**5** 25.03.06 (1737), **96** 13.04.07 (1738).  
A4 Bartın.

\***Geranium molle** L. subsp. *brutium* (Gasp.) Davis [II:460]

**6** 25.03.06 (1733).  
A4 Bartın.

**Geranium molle** L. subsp. *molle* [II:459]

**16** 26.03.06 (1735), **58** 02.03.07 (1732), **89** 13.04.07 (1734).  
A4 Bartın.

**Geranium robertianum** L. [II:458]

**16** 02.06.07 (1715), **24** 07.06.06 (1717, 1718, 1721), **27** 23.06.07 (1714), **78** 02.03.07 (1722), **83** 02.03.07 (1723-1725.), **90** 13.04.07 (1713), **101** 30.05.07 (1711, 1712), **106** 31.05.07 (1716, 1719, 1720).

GUTIFERAE

**Hypericum androsaemum** L. [II:366]

**23** 07.06.06 (1750), **55** 18.09.06 (1748).  
Euro-Sib. element.

**Hypericum bithynicum** Boiss. [II:390]

**26** 07.06.06 (1778, 1780), **27** 23.06.07 (1777, 1779), **56** 18.09.06 (1786), **64** 19.09.06 (1785), **65** 22.09.06 (1784), **71** 23.09.06 (1783), **101** 30.05.07 (1781), **105** 31.05.07 (1782).  
Euxine element.

\***Hypericum calycinum** L. [II:365]

**23** (1749), **27** 23.06.07 (1743, 1746, 1747), **30** 10.06.06 (1744), **55** 18.09.06 (1745).  
Euxine element.

\***Hypericum origanifolium** Willd. [II:396]

**59** 19.09.06 (1740), **77** 02.06.07 (1741, 1742).

**Hypericum perforatum** L. [II:400]

**8** 23.09.06 (1764-1766.), **16** 02.06.07 (1756), **23** 07.06.06 (1757), **24** 07.06.06 (1754), **27** 23.06.07 (1751, 1752), **30** 10.06.06 (1758, 1759), **33** 14.09.06 (1774, 1775), **35** 14.09.06 (1776), **53** 18.09.06 (1770), **55** 18.09.06 (1771-1773.), **60** 19.09.06 (1769), **61** 19.09.06 (1768), **66** 22.09.06 (1767), **70** 23.09.06 (1763), **72** 27.09.06 (1762), **76** 28.09.06 (1761), **100** 30.05.07 (1760), **109** 02.06.07 (1755), **112** 02.06.07 (1753).

HYPOLEPIDACEAE

**Pteridium aquilinum** (L.) Kuhn [I:46]

**24** 07.06.06 (1793), **26** 07.06.06 (1792), **54** 18.09.06 (1790), **79** 25.02.07 (1791), **92** 13.04.07 (1789).

IRIDACEAE

**Crocus ancyrensis** (Herbert) Maw [VIII:418]

**77** 02.03.07 (1798).  
Endemic. Ir.-Tur. element.

**Iris germanica** L. [VIII:392]

**20** 26.03.06 (1797).  
A4 Bartın.

**Iris pseudacorus** L. [VIII:387]

**104** 31.05.07 (1794).  
A4 Bartın.

**Iris sintenisii** Janka [VIII:390]

**77** 02.06.07 (1796), **102** 30.05.07 (1795).  
Euro-Sib. element.

JUGLANDACEAE

**Juglans regia** L. [VII:654]

**79** 25.02.07 (1799), **85** 12.04.07 (1800).

JUNCACEAE

**Juncus articulatus** L. [IX:21]

**59** 19.09.06 (1801, 1802).  
Euro-Sib. element.

**Juncus effusus** L. [IX:10]

**27** 23.06.07 (1803).  
Cosmopolitan.

**Juncus inflexus** L. [IX:9]

**5** 28.02.07 (1805), **26** 07.06.06 (1804), **58** 19.09.06 (1806).

**Luzula forsteri** (Sm.) DC. [IX:26]

**69** 25.02.07 (1808-1810.), **73** 14.04.07 (1807).  
Euro-Sib. element.

\***Luzula multiflora** (Ehrh. ex Retz.) Lej. [IX:31]

**102** 30.05.07 (1812).

LAMIACEAE

\***Acinos rotundifolius** Pers. [VII:334]

**10** 23.09.06 (1899).

**Ajuga chamaepitys** (L.) Schreber subsp. *chia* (Schreber)

**Arcangeli** var. *chia* [VII:48]

**33** 14.09.06 (1850), **61** 19.09.06 (1851), **72** 27.09.06 (1852, 1853).

**Ajuga reptans** L. [VII:44]

**27** 14.04.07 (1856-1858.), **98** 14.04.07 (1855).  
Euro-Sib. element.

\***Ballota nigra** L. subsp. *anatolica* P. H. Davis [VII:164]

**35** 14.09.06 (2094, 2095).  
Endemic. Ir.-Tur. element.

**Calamintha nepeta** (L.) Savi subsp. *glandulosa* (Req.) P. W. Ball

[VII:328]

**10** 23.09.06 (1985), **20** 06.06.06 (1988, 1989), **28** 10.06.06 (1995), 28.09.06 (1990), **30** 10.06.06 (1994), **32** 10.06.06 (1996, 1998), **33** 14.09.06 (1975, 1976), **38** 15.09.06 (1973), **39** 15.09.06 (1974), **44** 16.09.06 (1968), **47** 16.09.06 (1969), **51** 16.09.06 (1972), **53** 18.09.06 (1980, 1981), **55** 18.09.06 (1977-1979.), **57** 18.09.06 (1967), **58** 19.09.06 (1982), **61** 19.09.06 (1983), **70** 23.09.06 (1971), **71** 23.09.06 (1986), **72** 27.09.06 (1987), **76** 28.09.06 (1992), **77** 02.03.07 (1993), **78** 28.09.06 (1991), **112** 02.06.07 (1984, 1997).

***Clinopodium vulgare* L. subsp. *vulgare* [VII:329]**

8 23.09.06 (2006-2008.), 10 23.09.06 (2010), 23 07.06.06 (2031), 27 07.06.06 (2003), 23.06.07 (1999-2001., 2005, 2024), 28 28.09.06 (2041, 2043), 36 14.09.06 (1914), 38 15.09.06 (2013), 41 15.09.06 (2012), 44 16.09.06 (1913, 2015-2017.), 47 16.09.06 (2014), 48 16.09.06 (2011), 53 18.09.06 (2027), 54 18.09.06 (2028), 55 18.09.06 (1907, 1909, 1911, 2018, 2029, 2030, 2044), 57 18.06.06 (1910, 1912), 59 19.09.06 (2039), 61 19.09.06 (2025, 2026), 66 22.09.06 (2038), 70 23.09.06 (2009, 2023), 72 27.09.06 (2022, 2042), 73 27.09.06 (1908, 2002, 2021), 74 27.09.06 (2019, 2020), 75 27.09.06 (2004, 2040), 76 28.09.06 (2034-2037.), 81 02.03.07 (2033), 105 31.05.07 (2032).

**\**Lamium maculatum* L. var. *maculatum* [VII:142]**

5 25.03.06 (1866), 28.02.07 (1868, 1870), 69 25.02.07 (1865, 1869), 86 12.04.07 (1864), 99 14.04.07 (1867).

Euro-Sib. element.

**\**Lamium purpureum* L. var. *aznavourii* Gand. ex Aznav. [VII:141]**

27 14.04.07 (3336), 85 12.04.07 (1861-1863.).

Endemic. Euxine element.

***Lamium purpureum* L. var. *purpureum* [VII:141]**

5 28.02.07 (1873), 6 25.03.06 (1874), 9 (1878), 20 28.02.07 (1875), 69 25.02.07 (1871), 83 02.03.07 (1872), 90 13.04.07 (1877), 92 13.04.07 (1876), 93 13.04.07 (1879), 96 13.04.07 (1878)

Euro-Sib. element.

***Lycopus europaeus* L. [VII:394]**

56 18.09.06 (1859), 58 19.09.06 (1860).

Euro-Sib. element.

***Melissa officinalis* L. subsp. *officinalis* [VII:262]**

5 25.03.06 (1814, 1815), 42 15.09.06 (1818), 48 16.09.06 (1813), 71 23.09.06 (1816), 75 27.09.06 (1817).

***Mentha longifolia* (L.) Hudson subsp. *longifolia* [VII:389]**

7 22.09.06 (1922-1924.), 28 28.09.06 (1921), 32 10.06.06 (1919, 1920), 33 14.09.06 (1930), 42 15.09.06 (1931), 57 18.09.06 (1932), 58 19.09.06 (1929), 66 22.09.06 (1925), 67 22.09.06 (1928), 68 22.09.06 (1927), 75 27.09.06 (1926), 100 30.05.07 (1917), 101 30.05.07 (1916), 110 02.06.07 (1918), 116 29.09.07 (1915).

Euxine element.

***Mentha pulegium* L. [VII:385]**

8 23.09.06 (1904), 26 29.09.07 (1906), 38 15.09.06 (1895), 48 16.09.06 (1896), 55 18.09.06 (1903), 58 19.09.06 (1902, 1905), 61 19.09.06 (1900, 1901), 71 23.09.06 (1897, 1898).

***Origanum vulgare* L. subsp. *viride* (Boiss.) Hayek [VII:311]**

105 31.05.07 (1970).

***Origanum vulgare* L. subsp. *vulgare* [VII:311]**

41 15.09.06 (1819), 53 18.09.06 (1820, 1821).

Euro-Sib. element.

***Prunella laciniata* (L.) L. [VII:296]**

20 06.06.06 (1941), 24 07.06.06 (1933-1936.), 28 10.06.06 (1937, 1938), 76 28.09.06 (1940), 105 31.05.07 (1939).

Euro-Sib. element.

***Prunella vulgaris* L. [VII:295]**

8 23.09.06 (1959, 1960), 27 23.06.07 (1961), 28 28.09.06 (1942), 35 14.09.06 (1946), 48 16.09.06 (1947, 1948), 55 18.09.06 (1964-1966.), 56 18.09.06 (1963), 57 18.09.06 (1944, 1949), 58 19.09.06 (1962), 66 22.09.06 (1945), 71 23.09.06 (1956-1958.), 73 27.09.06 (1950-1952., 1954, 1955), 75 27.09.06 (1953), 108 02.06.07 (1943).

Euro-Sib. element.

***Salvia forskahlei* L. [VII:451]**

1 22.09.06 (1835), 27 23.06.07 (1829-1831.), 36 14.09.06 (1825), 44 16.09.06 (1823, 1824), 54 18.09.06 (1828), 55 18.09.06 (1827), 61 18.09.06 (1826), 65 22.09.06 (1834), 71 23.09.06 (1832), 29.09.07 (1836), 73 27.09.06 (1833).

Euxine element.

***Salvia tomentosa* Miller [VII:414]**

15 26.03.06 (1843).

Medit. element.

***Salvia verbenaca* L. [VII:458]**

16 31.05.07 (1839, 1840), 76 28.09.06 (1838), 106 02.06.07 (1837), 112 02.06.07 (1841, 1842).

Medit. element.

***Satureja hortensis* L. [VII:322]**

60 19.09.06 (2096, 2097).

**\**Scutellaria albida* L. subsp. *albida* [VII:82]**

33 14.09.06 (1886, 1887).

E. Medit. element.

***Scutellaria rubicunda* subsp. *subvelutina* (Rech. Fil.) Edmondson [VII:86]**

30 10.06.06 (1882), 31 10.06.06 (1883, 1884), 73 27.09.06 (1881), 106 31.05.07 (1880, 1885).

E. Medit. element.

**\**Sideritis dichotoma* Huter [VII:192]**

20 06.06.06 (1822).

Endemic.

***Stachys annua* (L.) L. subsp. *annua* var. *annua* [VII:249]**

40 15.09.06 (2078), 78 28.09.06 (2079), 79 25.02.07 (1888).

**\**Stachys cretica* L. subsp. *anatolica* Rech. Fil. [VII:220]**

108 02.06.07 (1891-1894.).

Endemic. Ir.-Tur. element.

***Stachys sylvatica* L. [VII:230]**

107 31.05.07 (1889, 1890).

Euro-Sib. element.

***Teucrium chamaedrys* L. subsp. *chamaedrys* [VII:63]**

1 07.06.06 (2077), 10 23.09.06 (2055-2057.), 14 10.06.06 (2073), 20 06.06.06 (2061-2063.), 23 07.06.06 (2075), 24 07.06.06 (2074, 2076), 26 07.06.06 (2064), 28 10.06.06 (2071, 2072), 28.09.06 (2058), 35 14.09.06 (2046), 41 15.09.06 (2045), 53 18.09.06 (2048-2050.), 54 18.09.06 (2047), 66 22.09.06 (2060), 70 23.09.06 (2053, 2054), 72 27.09.06 (2059), 76 28.09.06 (2065), 77 02.03.07 (2068), 02.06.07 (2052), 78 02.03.07 (2067), 81 02.03.07 (2066), 102 30.05.07 (2070), 105 31.05.07 (2069), 112 02.06.07 (2051).

Euro-Sib. element.

***Teucrium polium* L. [VII:69]**

10 23.09.06 (2085, 2086), 15 26.03.06 (2088), 10.06.06 (2092, 2093), 02.03.07 (2089), 30 10.06.06 (2091), 39 15.09.06 (2081), 53 18.09.06 (2082), 77 28.09.06 (2087), 02.03.07 (2090), 02.06.07 (2084), 112 02.06.07 (2083).

***Thymus longicaulis* C. Presl subsp. *longicaulis* var. *longicaulis* [VII:379]**

3 07.06.06 (1846), 23 07.06.06 (1844), 70 23.09.06 (1848), 77 02.06.07 (1845), 102 30.05.07 (1847), 112 02.06.07 (1849).

**LAURACEAE*****Laurus nobilis* L. [VII:535]**

3 25.03.06 (2110), 6 25.03.06 (2109), 9 25.03.06 (2113, 2114), 10 25.03.06 (2111, 2115, 2117), 13 26.03.06 (2116), 20 06.06.06 (2118), 33 14.09.06 (2098), 44 16.09.06 (2103, 2105), 45 18.09.06 (2104), 47 16.09.06 (2099), 48 16.09.06 (2100), 50 16.09.06 (2101, 2102), 59 19.09.06 (2107), 61 19.09.06 (2106), 79 25.03.06 (2108), 109 02.06.07 (2112).

Medit. element.

**LILIACEAE*****Allium flavum* L. subsp. *tauricum* (Besser ex Reichb.) Stearn var. *tauricum* [VIII:150]**

20 06.06.06 (2172, 2173), 27 23.06.07 (2167), 28 10.06.06 (2171), 70 23.09.06 (2169, 2170), 77 02.06.07 (2168).

Medit. element.

***Asparagus acutifolius* L. [VIII:76]**

14 26.03.06 (2135), 02.03.07 (2120), 30 10.06.06 (2130), 33 14.09.06 (2127), 54 18.09.06 (2125), 77 28.09.06 (2122).

A4 Bartın, Medit. element.

***Asparagus aphyllus* L. subsp. *orientalis* (Baker) P. H. Davis [VIII:77]**

7 25.03.06 (2134), 10 25.03.06 (2133), 20 06.06.06 (2131, 2132), 28.02.07 (2121), 28 10.06.06 (2129), 48 16.09.06 (2126), 55 18.09.06 (2124), 61 19.09.06 (2123), 77 02.06.07 (2119).

E. Medit. element.

**\**Asparagus officinalis* [VIII:78]**

31 10.06.06 (2128).

***Fritillaria pontica* Wahlenb. [VIII:288]**

13 26.03.06 (2164), 32 10.06.06 (2163), 88 13.04.07 (2162).

A4 Bartın, Euro-Sib. element.

***Muscari armeniacum* Leichtlin ex Baker [VIII:255]**

13 26.03.06 (2196), 70 23.09.06 (2195), 77 02.06.07 (2193), 102 30.05.07 (2180), 112 02.06.07 (2194).

***Muscari neglectum* Guss. [VIII:257]**

2 25.03.06 (2192), 10 23.09.06 (2186), 15 02.03.07 (2181), 20 06.06.06 (2191), 28.02.07 (2182, 2183), 30 10.06.06 (2189, 2190), 41 15.09.06 (2186, 2188), 55 18.09.06 (2187), 72 27.09.06 (2184, 2185).

A4 Bartın.

***Ornithogalum fimbriatum* Willd. [VIII:238]**

77 02.03.07 (2166).

E. Medit. element.

***Ornithogalum narbonense* L.[VIII:233]**

Medit. element.

***Ornithogalum wiedemannii* Boiss. [VIII:238]**

99 14.04.07 (2165).

***Panocratium maritimum* L. [VIII:380]**

A4 Bartın, Medit. element.

***Ruscus aculeatus* L. var. *aculeatus* [VIII:72]**

13 26.03.06 (2143), 30 10.06.06 (2142), 39 15.09.06 (2141), 50 16.09.06 (2139), 51 16.09.06 (2138), 54 18.09.06 (2140), 71 23.09.06 (2137), 84 02.03.07 (2136).

A4 Bartın.

***Ruscus hypoglossum* L. [VIII:73]**

23 07.06.06 (2147), 24 07.06.06 (2148-2150.), 31 10.06.06 (2146), 36 14.09.06 (2145), 81 02.03.07 (2144).

Euro-Sib. element.

**\**Scilla autumnalis* L. [VIII:223]**

10 23.09.06 (2198), 76 28.09.06 (2197).

Medit. element.

***Scilla bifolia* L. [VIII:216]**

13 26.03.06 (2179), 14 02.03.07 (2176), 90 13.04.07 (2174, 2175).

Medit. element.

***Scilla bithynica* Boiss. [VIII:217]**

13 26.03.06 (2178), 81 02.03.07 (2177).

Euxine element.

***Smilax excelsa* L. [VIII:71]**

13 26.03.06 (2160, 2161), 26 07.06.06 (2159), 28 28.09.06 (2154), 30 10.06.06 (2158), 39 15.09.06(2156, 2157), 54 18.09.06 (2155), 78 28.09.06 (2153), 92 13.04.07 (2152), 102 30.05.07 (2151).

Euxine element.

**LINACEAE****\**Linum aroanium* Boiss. & Orph. [II:443]**

77 02.06.07 (2199).

**LORANTHACEAE*****Viscum album* L. subsp. *album* [VII:547]**

58 19.09.06 (2202).

**LYTHRACEAE*****Lythrum salicaria* L. [IV:175]**

8 23.09.06 (2203, 2204), 57 18.09.06 (2206, 2207), 58 19.09.06 (2205).

Euro-Sib. element.

**MALVACEAE*****Alcea pallida* (Willd.) Waldst. & Kitaib.[II:417]**

This taxon was recorded as species without any sample collection, during the area survey.

***Alcea rosea* L.[II:417]**

A4 Bartın.

**\**Malva cretica* Cav. [II:405]**

30 10.06.06(2208), 58 19.09.06 (2215).

A4 Bartın, Medit. element.

**\**Malva neglecta* Wallr. [II:407]**

19 05.06.06 (2210).

A4 Bartın.

**\**Malva nicaeensis* All. [II:406]**

22 06.06.06 (2213).

A4 Bartın.

***Malva sylvestris* L. [II:406]**

3 07.06.06 (2211), 16 02.06.07 (2212), 22 06.06.06 (2214), 67 22.09.06 (2209).

A4 Bartın.

**MORACEAE*****Ficus carica* L. (F) [VII:643]**

This taxon was recorded as species without any sample collection, during the area survey.

**MYRTACEAE*****Myrtus communis* L. subsp. *communis* [IV:172]**

3 25.03.06 (2228-2230.), 07.06.06 (2217, 2218), 6 25.03.06 (2222, 2231), 7 22.09.06 (2232), 10 25.03.06 (2225), 13 26.03.06 (2223, 2224), 02.06.07 (2216), 25 07.06.06 (2220, 2221), 30 10.06.06 (2227), 32 10.06.06 (2226), 33 14.09.06 (2233), 108 02.06.07 (2219).

**OLEACEAE*****Fraxinus excelsior* L.[VI:149]**

This taxon was recorded as species without any sample collection, during the area survey.

Euro-Sib. element.

***Ligustrum vulgare* L. [VI:154]**

3 25.03.06 (2244), 07.06.06 (2240-2243.), 6 26.03.06 (2245), 8 23.09.06 (2258, 2259), 10 25.03.06(2247-2249.), 13 25.03.06 (2246), 20 06.06.06 (2250), 28 10.06.06 (2251), 28.09.06 (2256), 30 10.06.06 (2252), 33 14.09.06 (2266), 44 16.09.06 (2264), 52 16.09.06 (2265), 54 18.09.06 (2261), 55 18.09.06 (2262, 2263), 61 19.09.06 (2260), 74 27.09.06 (2257), 76 28.09.06 (2255), 81 02.03.07 (2254), 101 30.05.07 (2253).

Euro-Sib. element.

***Olea europaea* L. [VI:155]**

20 06.06.06 (2234-2237.), 77 22.09.06 (2238).

Medit. element.

***Phillyrea latifolia* L. [VI:157]**

3 25.03.06 (2290), 07.06.06 (2275), 6 25.03.06 (2284, 2291), 9 25.03.06 (2278), 10 25.03.06 (2288), 23.09.06 (2273), 11 25.03.06 (2285), 13 26.03.06 (2279, 2286, 2287), 15 02.03.07 (2268), 20 06.06.06 (2280, 2281), 28.02.07 (2270-2272.), 25 07.06.06 (2276, 2277, 2282, 2283), 32 10.06.06 (2289), 33 14.09.06 (2303-2306.), 38 15.09.06 (2302), 47 16.09.06 (2301), 49 16.09.06 (2300), 54 18.09.06 (2297-2299.), 61 19.09.06(2274, 2296), 71 23.09.06 (2295), 77 28.09.06 (2293, 2294), 02.06.07 (2267), 76 28.09.06 (2292), 82 02.03.07 (2269).

Medit. element.

**ONAGRACEAE*****Circaea lutetiana* L. [IV:181]**

143 13.08.09 (3334).

***Epilobium hirsutum* L. [IV:187]**

59 19.09.06 (2307).

***Epilobium lanceolatum* Seb. & Mauri [IV:188]**

8 23.09.06 (2315), 27 23.06.07 (2316, 2318), 65 22.09.06 (2313), 73 27.09.06 (2317).

***Epilobium parviflorum* Schreber [IV:187]**

8 23.09.06 (2308), 56 18.09.06 (2311), 57 18.09.06 (2309), 68 22.09.06 (2314), 73 27.09.06 (2312), 78 28.09.06 (2310).

**ORCHIDACEAE*****Anacamptis pyramidalis* (L) L. C. M. Richard [VIII:511]**

3 07.06.06 (2319), 77 02.06.07 (2321), 102 30.05.07 (2320, 2322, 2323).

***Ophrys oestrifera* Bieb. subsp. *oestrifera* [VIII:495]**

26 07.06.06 (2326).

***Orchis coriophora* L. [VIII:517]**

3 07.06.06 (2325), 106 31.05.07 (2324).

***Serapias vomeracea* (Burm. fil.) Briq. subsp. *orientalis* Greuter [VIII:504]**

102 30.05.07 (2330).

E. Medit. element.

**\**Spiranthes spiralis* (L.) Chevall. [VIII:472]**

28 28.09.06 (2329), 76 28.09.06 (2327), 77 28.09.06 (2328).

Medit. element.

**OROBANCHACEAE****\**Orobanche hederæ* Duby [VII:18]**

48 16.09.06 (2335), 106 31.05.07 (2334).

A4 Bartın.

***Orobanche minor* Sm. [VII:17]**

108 02.06.07 (2333).

***Orobanche nana* Noe ex G. Beck [VII:7]**

107 31.05.07 (2331).

***Orobanche ramosa* L. [VII:6]**

102 30.05.07 (2332).

**OXALIDACEAE*****Oxalis corniculata* L. [II:390]**

17 05.06.06 (2338), 21 06.06.06 (2337), 39 15.09.06 (2343), 51 16.09.06 (2342), 71 23.09.06 (2336), 75 27.09.06 (2341), 88 13.04.07 (2339), 89 13.04.07 (2340).

Cosmopolitan.

**PAPAVERACEAE*****Chelidonium majus* L. [I:214]**

5 28.02.07 (2344, 2345, 2347), 85 12.04.07 (2346).

Euro-Sib. element.

***Glaucium flavum* Crantz [I:216]**

15 10.06.06 (2348).

**\**Papaver lacerum* Popov [I:232]**

25 14.04.07 (2349).

***Papaver rhoeas* L. [I:231]**

17 05.06.06 (2350).

A4 Bartın.

**PHYTOLACCACEAE*****Phytolacca americana* L. [II:347]**

67 22.09.06 (2351).

A4 Bartın.

**PINACEAE*****Pinus brutia* Ten. [I:74]**

3 25.03.06 (2352), 25.09.06 (2355), 6 25.03.06 (2353, 2356), 77

28.09.06 (2354).

E. Medit. element.

**PLANTAGINACEAE****\**Plantago coronopus* L. subsp. *coronopus* [VII:508]**

7 22.09.06 (2406).

A4 Bartın, Euro-Sib. element.

***Plantago lanceolata* L. [VII:513]**

8 23.09.06 (2370, 2371), 10 23.09.06 (2372), 20 06.06.06 (2387),

11.04.07 (2377), 27 14.04.07 (2379), 28 10.06.06 (2383, 2384),

28.09.06 (2375), 28.02.07 (2376), 30 10.06.06 (2382), 32 10.06.06

(2385, 2386), 44 16.09.06 (2369), 53 18.09.06 (2366, 2367), 57

18.09.06 (2368), 58 19.09.06 (2365), 59 19.09.06 (2363), 61

19.09.06 (2364), 63 19.09.06 (2362), 72 27.09.06 (2373, 2374), 77

02.06.07 (2388), 90 13.04.07 (2378), 101 30.05.07 (2381), 103

30.05.07 (2380), 108 02.06.07 (2359-2361.).

**\**Plantago major* L. subsp. *intermedia* (Gilib.) Lange [VII:507]**

8 23.09.06 (2396), 56 18.09.06 (2400), 58 19.09.06 (2397), 71

23.09.06 (2395).

A4 Bartın.

***Plantago major* L. subsp. *major* [VII:507]**

17 05.06.06 (2389), 28 28.09.06 (2391), 33 14.09.06 (2404, 2405),

55 18.09.06 (2399, 2401, 2402), 57 18.09.06 (2403), 60 19.09.06

(2398), 71 23.09.06 (2393, 2394), 73 27.09.06 (2390, 2392).

**PLATANACEAE*****Platanus orientalis* L. [VII:656]**

3 25.03.06 (2408), 86 12.04.07 (2407).

**POACEAE*****Agrostis capillaris* L. var. *capillaris* [IX:352]**

114 23.06.07 (2691).

Euro-Sib. element.

***Agrostis stolonifera* L. [IX:353]**

17 05.06.06 (2693, 2695, 2696), 23 07.06.06 (2697), 32 10.06.06

(2694), 108 02.06.07 (2692).

Euro-Sib. element.

***Alopecurus myosuroides* Hudson var. *myosuroides* [IX:384]**

58 12.04.07 (2607, 2608), 101 30.05.07 (2609).

Euro-Sib. element.

**\**Anthoxanthum odoratum* L. subsp. *alpinum* (A. & D. Löve) B.****Jones & Melderis [IX:372]**

10 23.09.06 (2412), 20 11.04.07 (2410), 41 15.09.06 (2419), 51

16.09.06 (2418), 53 18.09.06 (2415, 2416), 54 18.09.06 (2417), 66

22.09.06 (2414), 70 23.09.06 (2413), 77 28.09.06 (2411), 29.09.07

(2409), 83 02.03.07 (2421).

A4 Bartın, Euro-Sib. element.

***Anthoxanthum odoratum* L. subsp. *odoratum* [IX:371]**

25 14.04.07 (2603), 101 30.05.07 (2420).

A4 Bartın, Euro-Sib. element.

***Avena sterilis* L. subsp. *sterilis* [IX:306]**

19 05.06.06 (2626), 100 30.05.07 (2627), 112 02.06.07 (2624).

A4 Bartın.

**\**Avena wiestii* Steudel [IX:304]**

16 31.05.07 (2644), 02.06.07 (2635), 20 06.06.06 (2631, 2632,

2637), 25 07.06.06 (2628), 28 10.06.06 (2642), 29 10.06.06 (2636,

2638), 30 10.06.06 (2643), 32 10.06.06 (2639-2641.), 59 19.09.06

(2629, 2630), 78 28.09.06 (2646, 2647), 107 31.05.07 (2645), 108

02.06.07 (2634), 110 02.06.07 (2633).

A4 Bartın.

***Bothriochloa ischaemum* (L.) Keng [IX:612]**

10 23.09.06 (2536), 20 29.09.07 (2537).

***Brachypodium pinnatum* (L.) P. Beauv. [IX:201]**

13 02.06.07 (2561), 68 22.09.06 (2554), 75 27.09.06 (2556).

Euro-Sib. element.

***Brachypodium sylvaticum* (Hudson) P. Beauv. [IX:201]**

7 22.09.06 (2558), 27 23.06.07 (2599), 48 16.09.06 (2562), 54

18.09.06 (2563), 57 18.09.06 (2557), 65 22.09.06 (2564, 2565), 71

23.09.06 (2555), 74 27.09.06 (2566), 75 27.09.06 (2567), 102

30.05.07 (2559), 105 31.05.07 (2560).

Euro-Sib. element.

***Briza maxima* L. [IX:517]**

8 23.09.06 (2540), 30 10.06.06 (2538, 2539).

A4 Bartın.

***Bromus hordeaceus* L. subsp. *hordeaceus* [IX:279]**

3 07.06.06 (2593), 16 31.05.07 (2596), 02.06.07 (2595), 71

23.09.06 (2594).

A4 Bartın.

**\**Bromus hordeaceus* L. subsp. *thominii* (Hardouin) Maire &****Weiller [IX:279]**

24 07.06.06 (2592).

A4 Bartın, Medit. element.

***Bromus japonicus* Thunb. subsp. *japonicus* [IX:282]**

28 28.09.06 (2598), 104 31.05.07 (2597).

***Bromus madritensis* L. [IX:290]**

28 10.06.06 (2602), 29 10.06.06 (2601), 103 30.05.07 (2600).

A4 Bartın.

***Bromus sterilis* L. [IX:289]**

3 07.06.06 (2584), 16 02.06.07 (2588), 78 28.09.06 (2591), 86

12.04.07 (2583), 100 30.05.07 (2585), 104 31.05.07 (2586), 106

31.05.07 (2587), 109 02.06.07 (2590), 110 02.06.07 (2589).

**\**Catapodium rigidum* (L.) C. E. Hubbardex Dony subsp. *rigidum*****var. *majus* (C. Presl) Lainz [IX:462]**

22 06.06.06 (2650), 77 02.06.07 (2649).

A4 Bartın.

***Cynodon dactylon* (L.) Pers. var. *dactylon* [IX:580]**

20 29.09.07 (2579), 58 19.09.06 (2580), 67 22.09.06 (2581).

A4 Bartın.

***Cynosurus cristatus* L. [IX:512]**

75 27.09.06 (2493).

Euro-Sib. element.

***Cynosurus echinatus* L. [IX:513]**

8 23.09.06 (2500, 2501), 13 02.06.07 (2507), 15 02.03.07 (2523),

16 02.06.07 (2511), 23 07.06.06 (2509), 27 23.06.07 (2508), 28

28.09.06 (2494), 30 10.06.06 (2514-2517.), 32 10.06.06 (2512,

2513), 53 18.09.06 (2503), 65 22.09.06 (2502), 71 23.09.06 (2497-

2499.), 73 27.09.06 (2495, 2496, 2504), 75 27.09.06 (2505), 77

02.03.07 (2522), 02.06.07 (2506), 101 30.05.07 (2518), 103

30.05.07 (2519), 104 31.05.07 (2520), 107 31.05.07 (2521), 112

02.06.07 (2510).

A4 Bartın, Medit. element.

***Dactylis glomerata* L. subsp. *hispanica* (Roth) Nyman [IX:511]**

3 07.06.06 (2451, 2452), 7 22.09.06 (2432, 2433), 10 23.09.06

(2428, 2429), 16 31.05.07 (2457), 02.06.07 (2454), 20 06.06.06

(2447, 2449), 28.02.07 (2461), 11.04.07 (2423), 21 06.06.06 (2448),

22 28.09.06 (2424), 26 07.06.06 (2446), 33 14.09.06 (2443), 39

15.09.06 (2442), 51 16.09.06 (2440, 2441), 53 18.09.06 (2436), 54

18.09.06 (2438), 55 18.09.06 (2439), 56 18.09.06 (2437), 66

22.09.06 (2434, 2435), 68 22.09.06 (2431), 70 23.09.06 (2430), 71

23.09.06 (2426, 2427), 14.04.07 (2462), 76 28.09.06 (2459, 2460),

77 28.09.06 (2425), 02.06.07 (2444, 2445), 102 30.05.07 (2455),

105

31.05.07 (2458), 106 31.05.07 (2456), 109 02.06.07 (2453), 112

02.06.07 (2450).

**\**Digitaria sabulosa* Tzvelev [IX:594]**

56 16.09.06 (2574, 2575), 58 19.09.06 (2572), 59 19.09.06 (2573).

A4 Bartın, Euxine element.

***Echinochloa crus-galli* (L.) P. Beauv. [IX:591]**

39 15.09.06 (2718), 56 18.09.06 (2717).

**\**Eragrostis minor* Host [IX:575]**

58 19.09.06 (2651).

**\**Festuca drymeja* Mertens & Koch [IX:408]**

27 23.06.07 (2655), 105 31.05.07 (2654).

Euro-Sib. element.

***Festuca gigantea* (L.) Vill. [IX:407]**

17 05.06.06 (2656), 21 28.02.07 (2468-2470.), 22 06.06.06 (2467),

75 27.09.06 (2661).

A4 Bartın, Euro-Sib. element.

***Holcus lanatus* L. [IX:340]**

27 23.06.07 (2532-2534.), 28 10.06.06 (2535), 57 18.09.06 (2529),

73 27.09.06 (2526-2528., 2530, 2531), 75 27.09.06 (2524, 2525).

A4 Bartın, Euro-Sib. element.

***Hordeum bulbosum* L. [IX:266]**



16 31.05.07 (2552), 20 06.06.06 (2549, 2551, 2553), 110 02.06.07 (2550).

*Hordeum murinum* L. subsp. *glaucum* (Steudel) Tzvelev [IX:265]  
3 07.06.06 (2544), 15 10.06.06 (2545), 17 05.06.06 (2546), 29 10.06.06 (2545, 2547).

*Hordeum murinum* L. subsp. *leporinum* (Link) Arc. var. *leporinum* L. [IX:266]

16 02.06.07 (2541), 86 12.04.07 (2543), 107 31.05.07 (2542).  
A4 Bartın.

*Koeleria cristata* (L.) Pers. [IX:332]  
112 02.06.07 (2657).

*Lagurus ovatus* L. [IX:357]  
30 10.06.06 (2568).

A4 Bartın, Medit. element.

*Lolium perenne* L. [IX:446]

16 31.05.07 (2491), 02.06.07 (2486), 17 05.06.06 (2481), 22 06.06.06 (2478, 2479), 24 07.06.06 (2483), 30 10.06.06 (2487, 2488), 35 14.09.06 (2476), 100 30.05.07(2489), 104 31.05.07 (2490), 106 02.06.07 (2477), 107 31.05.07 (2492), 109 02.06.07 (2484, 2485), 113 02.06.07 (2482), 114 23.06.07 (2480).

Euro-Sib. element.

\**Melica ciliata* L. subsp. *ciliata* [IX:532]

16 02.06.07 (2653).

*Melica uniflora* Retz. [IX:528]

71 23.09.06 (2422).

Euro-Sib. element.

\**Milium effusum* L. [IX:361]

20 28.02.07 (2471-2473.), 67 22.09.06 (2464, 2465), 85 25.04.07 (2463).

A4 Bartın, Euro-Sib. element.

*Paspalum paspalodes* (Michx.) Scribner [IX:596]

28 28.09.06 (2576), 66 22.09.06 (2577), 67 22.09.06 (2575).

A4 Bartın.

\**Phalaris canariensis* L. [IX:368]

22 06.06.06 (2648).

A4 Bartın, Medit. element.

\**Phleum bertolonii* DC. [IX:391]

10 23.09.06 (2605), 70 23.09.06 (2604, 2606).

\**Phleum pratense* L. [IX:390]

16 02.06.07 (2569), 32 10.06.06 (2570), 77 02.06.07 (2571).

Euro-Sib. element.

\**Phragmites australis* (Cav.) Trin. ex Steudel [IX:563]

59 19.09.06 (2474, 2475).

Euro-Sib. element.

*Poa compressa* L. [IX:481]

7 22.09.06 (2674), 55 18.09.06 (2672), 70 23.09.06 (2673).

*Poa pratensis* L. [IX:475]

1 22.09.06 (2700), 16 31.05.07 (2665), 17 05.06.06 (2670), 26 07.06.06 (2662), 28 28.09.06 (2699, 2660), 47 16.09.06 (2668), 55 18.09.06 (2698, 2667, 2669), 57 18.09.06 (2666), 66 22.09.06 (2466, 2671), 73 27.09.06 (2659), 100 30.05.07 (2663), 106 02.06.07 (2664).

*Poa trivialis* L. [IX:474]

3 07.06.06 (2679), 17 05.06.06 (2676, 2680), 23 07.06.06 (2681), 26 07.06.06 (2675, 2682, 2685), 51 16.09.06 (2678), 73 27.09.06 (2690), 101 30.05.07 (2687, 2688), 104 31.05.07(2686), 106 31.05.07 (2689), 107 31.05.07 (2677), 109 02.06.07 (2684), 113 02.06.07 (2683).

\**Secale cereale* L. var. *cerale* [IX:258]

111 02.06.07 (2658).

\**Setaria glauca* (L.) P. Beauv. [IX:600]

26 29.09.07 (2617), 36 14.09.06 (2621), 42 15.09.06 (2622), 56 18.09.06 (2616), 58 19.09.06 (2623), 66 22.09.06 (2618), 67 22.09.06 (2619), 68 22.09.06 (2620), 72 27.09.06 (2613), 75 27.09.06(2614), 77 02.03.07 (2612), 78 28.09.06 (2615).

*Setaria viridis* (L.) P. Beauv. [IX:597]

33 14.09.06 (2611), 53 18.09.06 (2610).

\**Vulpia myuros*(L.) C. C. Gmelin [IX:455]

108 02.06.07 (2652).

#### POLYGALACEAE

*Polygala anatolica* Boiss. & Heldr. [I:536]

76 28.09.06 (2710, 2712-2714.), 77 02.06.07 (2715, 2716), 105 31.05.07 (2711).

*Polygala pruinosa* Boiss. subsp. *pruinosa* [I:535]

77 02.06.07 (2707), 88 13.04.07 (2708), 102 30.05.07 (2706), 105 31.05.07 (2709).

*Polygala supina* Schreb. [I:534]

24 07.06.06 (2701, 2703), 71 14.04.07 (2702), 73 27.09.06 (2705), 76 28.09.06 (2704).

#### POLYGONACEAE

\**Polygonum arenastrum* Bor. [II:277]

61 19.09.06 (2736), 73 27.09.06 (2737).

*Polygonum aviculare* L. [II:277]

27 07.06.06 (2738), 60 19.09.06 (2739), 72 27.09.06 (2740).

Cosmopolitan.

*Polygonum persicaria* L. [II:273]

35 14.09.06 (2744), 54 18.09.06 (2743), 57 18.09.06 (2742), 58 19.09.06 (2741), 67 22.09.06 (2745), 75 27.09.06 (2746).

*Rumex conglomeratus* Murray [II:289]

26 07.06.06 (2719), 27 23.06.07 (2720), 30 10.06.06 (2723), 73 27.09.06 (2722), 110 02.06.07 (2728).

*Rumex crispus* L. [II:289]

16 31.05.07 (2734), 32 10.06.06 (2733), 104 31.05.07 (2721), 107 31.05.07 (2735).

A4 Bartın.

*Rumex obtusifolius* L. subsp. *subalpinus* (Schur) Celak. [II:290]

103 30.05.07 (2725-2727.).

*Rumex pulcher* L. [II:291]

3 07.06.06 (2729), 16 02.06.07 (2724), 22 06.06.06 (2730), 33 14.09.06 (2731), 101 30.05.07 (2732).

A4 Bartın.

#### POLYPODIACEAE

\**Polypodium vulgare* L. subsp. *prionodes* Rothmaler [I:62]

25 14.04.07 (2753).

A4 Bartın.

*Polypodium vulgare* L. subsp. *vulgare* [I:61]

23 07.06.06 (2751, 2752), 93 13.04.07 (2750).

A4 Bartın.

#### PRIMULACEAE

*Anagallis arvensis* L. var. *arvensis* [VI:140]

5 28.09.06 (2760), 8 23.09.06 (2759), 24 07.06.06 (2765), 26 07.06.06 (2756), 29 10.06.06 (2766), 32 10.06.06 (2757, 2767), 58 19.09.06 (2762, 2763), 72 (2754, 2755, 2758), 100 30.05.07 (2764).

*Anagallis* sp.

29 10.06.06 (2761).

Beacuse of having no sufficient data, this taxon was identified as genus.

*Cyclamen coum* Miller var. *coum* [VI:132]

13 26.03.06 (2771), 15 02.03.07 (2770), 81 02.03.07 (2773-2775.), 90 13.04.07 (2772).

*Lysimachia verticillaris* Sprengel [VI:136]

27 23.06.07 (2768, 2769).

Hyrcano-Euxine (mt.) element.

*Primula vulgaris* Huds. subsp. *sibthorpii* (Hoffmanns.) W. W. Sm. & Forrest [VI:114]

3 25.03.06 (2779, 2780), 12 25.03.06 (2778), 13 26.03.06 (2781), 26 07.06.06 (2782), 69 25.02.07(2776, 2777).

Euxine element.

#### RANUNCULACEAE

*Clematis vitalba* L. [I:138]

6 25.03.06 (3110), 11 25.03.06 (3117), 14 10.06.06 (3112), 15 10.06.06 (3111), 21 06.06.06 (3115, 3116), 22 06.06.06 (3113, 3114), 24 07.06.06 (3119), 28 10.06.06 (3109), 28.09.06 (3107), 53 18.09.06 (3105), 54 18.09.06 (3104), 55 18.09.06 (3103), 59 19.09.06 (3106), 75 27.09.06 (3108), 109 02.06.07 (3120), 115 23.06.07 (3118).

*Clematis viticella* L. [I:139]

20 06.06.06 (3099, 3100), 25 07.06.06 (3101), 57 18.09.06 (3098), 109 02.06.07 (3102).

*Helleborus orientalis* Lam. [I:96]

10 25.03.06 (3095), 24 07.06.06 (3097), 39 15.09.06 (3085, 3086), 49 16.09.06 (3087), 54 18.09.06 (3089), 55 18.09.06 (3088), 73 27.09.06 (3090), 81 02.03.07 (3091, 3092), 92 13.04.07 (3094), 93 13.04.07 (3093), 109 02.06.07 (3096).

Euxine element.

*Nigella damascena* L. [I:103]

111 02.06.07 (3082-3084.).

A4 Bartın.

*Ranunculus constantinopolitanus* (DC.) d'Urv. [I:169]

11 25.03.06 (3081), 106 30.05.07 (3080).

*Ranunculus ficaria* L. subsp. *ficariiformis* Rouy & Fouc. [I:193]

5 25.03.06 (3079).

## RESEDACEAE

*Reseda lutea* L. var. *lutea* [I:502]

108 02.06.07 (2783).

## RHAMNACEAE

*Paliurus spina-christi* Miller [II:523]

13 26.03.06 (2786), 30 10.06.06 (2784, 2785), 111 02.06.07 (2787, 2788).

## ROSACEAE

*Agrimonia eupatoria* L. [IV:74]

8 23.09.06 (2807), 42 15.09.06 (2809), 51 16.09.06 (2808), 55 18.09.06 (2810), 68 22.09.06 (2806), 72 27.09.06 (2804), 74 27.09.06 (2805), 76 28.09.06 (2803).

A4 Bartın.

*Cerasus avium* (L.) Moench [IV:18]

24 07.06.06 (2883, 2884), 26 07.06.06 (2903).

*Crataegus curvisepala* Lindman [IV:144]

33 14.09.06 (2927).

*Crataegus microphylla* C. Koch [IV:146]

23 07.06.06 (2922), 24 07.06.06 (2919), 28 28.09.06 (2924), 33 14.09.06 (2915), 36 14.09.06 (2923), 49 16.09.06 (2921), 76 28.09.06 (2920), 77 02.06.07 (2916), 88 13.04.07 (2925, 2926), 92 13.04.07 (2914).

Hyrçano-Euxine (mt.) element.

\**Crataegus monogyna* Jacq. subsp. *azarella* (Gris.) Franco

[IV:146]

50 16.09.06 (2929), 55 18.09.06 (2930), 102 30.05.07 (2931).

A4 Bartın.

*Crataegus monogyna* Jacq. subsp. *monogyna* [IV:145]

33 14.09.06 (2912, 2913), 55 18.09.06 (2918), 61 19.09.06 (2917), 89 13.04.07 (2928).

*Crataegus pentagyna* Waldst. & Kit. ex Willd. [IV:135]

39 15.09.06 (2909, 2911), 64 15.09.06 (2910), 109 02.06.07 (2932, 2933).

Euro-Sib. element.

*Fragaria vesca* L. [IV:69]

24 07.06.06 (2870, 2871), 27 23.06.07 (2872), 28 10.06.06 (2873), 53 18.09.06 (2868), 65 22.09.06 (2869), 73 27.09.06 (2867).

*Geum urbanum* L. [IV:72]

13 02.06.07 (2900), 17 05.06.06 (2898, 2899), 26 07.06.06 (2891, 2901), 48 16.09.06 (2902), 57 18.09.06 (2893), 73 27.09.06 (2892), 75 27.09.06 (2890, 2897), 102 30.05.07 (2894), 106 31.05.07 (2895), 107 31.05.07 (2896).

Euro-Sib. element.

*Laurocerasus officinalis* Roemer [IV:8]

9 25.03.06 (2906, 2907), 23 07.06.06 (2908), 56 18.09.06 (2905).

*Mespilus germanica* L. [IV:128]

18 05.06.06 (2822), 20 06.06.06 (2823), 23 07.06.06 (2821), 36 14.09.06 (2824), 44 16.09.06 (2827), 55 18.09.06 (2825, 2826), 75 27.09.06 (2820).

Hyrçano-Euxine element.

*Potentilla micrantha* Ramond ex DC. [IV:68]

55 18.09.06 (2865), 69 25.02.07 (2862-2864.), 84 02.03.07 (2866).

*Potentilla recta* L. [IV:53]

16 02.06.07 (2861), 30 10.06.06 (2860).

*Potentilla reptans* L. [IV:64]

28 10.06.06 (2852, 2859), 63 19.09.06 (2856), 85 12.04.07 (2855), 101 30.05.07 (2857), 103 30.05.07 (2858), 106 02.06.07 (2854), 110 02.06.07 (2853).

\**Prunus divaricata* Ledeb. subsp. *divaricata* [IV:11]

12 14.04.07 (2889).

*Prunus spinosa* L. subsp. *dasyphylla* (Schur) Domin [IV:9]

3 25.03.06 (2885), 23 07.06.06 (2886), 24 07.06.06 (2887, 2888).

Euro-Sib. element.

*Prunus x domestica* L. [IV:10]

4 25.03.06 (2879), 15 26.03.06 (2877, 2878), 20 28.02.07 (2880-2882.), 21 28.02.07 (2875), 30 10.06.06 (2876).

*Pyracantha coccinea* Roemer [IV:133]

3 07.06.06 (2813), 23 07.06.06 (2814), 33 14.09.06 (2815-2818.), 55 18.09.06 (2819), 74 27.09.06 (2812), 76 28.09.06 (2811).

*Rosa canina* L. [IV:124]

3 07.06.06 (2953), 6 25.03.06 (2969), 7 25.03.06 (2963), 8 23.09.06 (2951), 10 23.09.06 (2970), 13 25.03.06 (2964), 20 06.06.06 (2956), 28.02.07 (2952), 23 07.06.06 (2940), 24 07.06.06 (2941, 2949, 2974, 2975), 28 10.06.06 (2960), 33 14.09.06 (2961,

2967, 2971), 36 (14.09.062935, 2966), 39 15.09.06 (2972), 42

15.09.06 (2938), 48 16.09.06 (2950), 54 18.09.06 (2973), 55 18.09.06 (2965, 2968), 61 19.09.06 (2954), 75 27.09.06 (2962), 76 28.09.06 (2939, 2957, 2958), 77 02.06.07 (2959), 101 30.05.07 (2934, 2948).

\**Rosa gallica* L. [IV:116]

13 26.03.06 (2944), 23 07.06.06 (2937), 55 18.09.06 (2942), 70 23.09.06 (2943), 73 27.09.06 (2936).

\**Rosa horrida* Fischer [IV:122]

20 06.06.06 (2946, 2947), 33 14.09.06 (2945).

*Rubus hirtus* Waldst. & Kit. [IV:37]

24 07.06.06 (2845).

Euro-Sib. element.

\**Rubus ideaus* L. [IV:32]

A4 Bartın.

*Rubus sanctus* Schreber [IV:33]

3 25.03.06 (2846, 2848), 5 25.03.06 (2849), 6 25.03.06 (2847), 26 07.06.06 (2851), 36 14.09.06 (2850).

*Sanguisorba minor* Scop. subsp. *muricata* (Spach) Briq. [IV:79]

6 25.03.06 (2840), 15 10.06.06 (2831), 24 07.06.06 (2841), 53 18.09.06 (2839), 54 18.09.06 (2837), 56 18.09.06 (2838), 61 19.09.06 (2830), 65 22.09.06 (2842), 76 28.09.06 (2828, 2843), 82 02.03.07 (2844), 89 13.04.07 (2832), 102 30.05.07 (2836), 105 31.05.07 (2834, 2835), 107 31.05.07 (2833), 108 02.06.07 (2829).

*Sorbus domestica* L. [IV:148]

116 29.09.07 (2800-2802.).

Euro-Sib. element.

*Sorbus torminalis* (L.) Crantz var. *torminalis* [IV:156]

11 25.03.06 (2799), 23 07.06.06 (2798), 39 15.09.06 (2794), 44 16.09.06 (2797), 49 16.09.06 (2793), 61 19.09.06 (2795), 62 19.09.06 (2796).

## RUBIACEAE

*Asperula involucreta* Wahlenb. [VII:759]

24 07.06.06 (3046, 3047), 102 30.05.07 (3045).

Euxine element.

*Asperula tenella* Heuffel ex Degen [VII:755]

10 23.09.06 (3006), 53 18.09.06 (3009, 3011), 59 19.09.06 (3008), 60 19.09.06 (3007), 76 (3005), 77 29.09.07 (3004, 3012), 78 28.09.06 (3010).

\**Cruciata laevipes* Opiz [VII:851]

90 13.04.07 (3002, 3003).

Euro-Sib. element.

\**Galium album* Miller subsp. *prusense* (C. Koch) Ehrend. & Krendl [VII:791]

16 02.06.07 (3026), 20 06.06.06 (3042-3044.), 25 07.06.06 (3040, 3041), 27 23.06.07 (3021), 30 10.06.06 (3039), 53 18.09.06 (3031-3034., 3061, 3062), 59 19.09.06 (3030), 77 02.06.07 (3022), 78 28.09.06 (3028, 3029, 3059, 3060), 101 30.05.07 (3027), 108 02.06.07 (3025), 109 02.06.07 (3024), 112 02.06.07 (3023).

*Galium aparine* L. [VII:832]

3 25.03.06 (3058), 22 06.06.06 (3057), 86 12.04.07 (3055, 3056), 101 30.05.07 (3052, 3053), 102 30.05.07 (3050, 3051), 107 31.05.07 (3048, 3049).

*Galium paschale* Forsskal [VII:800]

6 25.03.06 (3064, 3065), 20 11.04.07 (3067), 23 07.06.06 (3063), 25 14.04.07 (3066), 27 23.06.07 (3017, 3019, 3020), 51 16.09.06 (3036-3038.), 53 18.09.06 (3035), 87 13.04.07 (3054).

E. Medit. element.

*Galium verum* L. subsp. *verum* [VII:786]

8 23.09.06 (3015), 28 10.06.06 (3018), 39 15.09.06 (3017), 55 18.09.06 (3016), 76 28.09.06 (3013, 3014).

Euro-Sib. element.

*Rubia peregrina* L. [VII:860]

3 25.03.06 (2999-3001.), 07.06.06 (2996), 13 26.03.06 (2998), 02.06.07 (2977, 2978), 15 10.06.06 (2995), 20 06.06.06 (2997), 28 28.09.06 (2985), 31 10.06.06 (2994), 39 15.09.06 (2993), 48 16.09.06 (2992), 53 18.09.06 (2991), 54 18.09.06 (2990), 55 18.09.06 (2989), 65 22.09.06 (2988), 68 22.09.06 (2987), 71 14.04.07 (2981), 76 28.09.06 (2986), 77 02.06.07 (2976), 81 02.03.07 (2983, 2984), 98 14.04.07 (2982), 101 30.05.07 (2980), 106 31.05.07 (2979).

Medit. element.

*Sherardia arvensis* L. [VII:724]

A4 Bartın, Medit. element.

## RUTACEAE

\**Ruta chalepensis* L. [II:496]

20 11.04.07 (3069-3078.), 22 06.06.06 (3068).

A4 Bartın.

#### SALICACEAE

*Populus tremula* L. [VII:718]

8 23.09.06 (3133), 54 18.09.06 (3132), 73 27.09.06 (3135), 75 27.09.06 (3134), 101 30.05.07 (3136).

Euro-Sib. element.

*Salix alba* L. [VII:704]

59 19.09.06 (3130, 3131).

Euro-Sib. element.

*Salix caprea* L. [VII:710]

8 23.09.06 (3121, 3126, 3127), 18 05.06.06 (3128), 69 25.02.07 (3122), 79 25.02.07 (3123-3125.).

Euro-Sib. element.

#### SANTALACEAE

*Osyris alba* L. [VII:545]

3 25.03.06 (3153-3155.), 07.06.06 (3152, 3160, 3163), 20 06.06.06 (3157), 25 07.06.06 (3158), 30 10.06.06 (3156), 33 14.09.06 (3138-3140.), 39 15.09.06 (3141, 3142), 53 18.09.06 (3144), 55 18.09.06 (3143), 66 22.09.06 (3145), 68 22.09.06 (3146), 70 23.09.06 (3147), 71 14.04.07 (3151), 77 28.09.06 (3148, 3149), 02.03.07 (3150), 02.06.07 (3161, 3162), 109 02.06.07 (3159).

A4 Bartın, Medit. element.

*Thesium arvense* Horvatovszky [VII:540]

77 02.06.07 (3137).

Euro-Sib. element.

#### SCROPHULARIACEAE

\**Antirrhinum majus* L. subsp. *majus* [VI:649]

14 10.06.06 (3176), 22 06.06.06 (3177), 30 10.06.06 (3174), 109 02.06.07 (3175).

A4 Bartın, W. Medit. element.

*Antirrhinum majus* L. subsp. *tortuosum* (Bosc ex Lam.) Rouy

[VI:649]

21 06.06.06 (3178), 78 28.09.06 (3179).

W. Medit. element.

*Bellardia trixago* (L.) All. [VI:768]

20 06.06.06 (3171), 112 02.06.07 (3172).

A4 Bartın.

*Cymbalaria longipes* (Boiss. & Heldr.) Cheval. [VI:674]

86 12.04.07 (3180).

A4 Bartın, E. Medit. element.

*Digitalis ferruginea* L. subsp. *ferruginea* [VI:682]

65 22.09.06 (3164).

Euro-Sib. element.

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

[VI:676]

30 10.06.06 (3181), 58 19.09.06 (3183), 72 27.09.06 (3182).

Medit. element.

\**Misopates orontium* (L.) Rafin. [VI:649]

25 14.04.07 (3173).

A4 Bartın.

*Odontites verna* (Bellardi) Dumort. subsp. *serotina* (Dumort.)

Corb. [VI:765]

8 23.09.06 (3210).

Euro-Sib. element.

*Parentucellia viscosa* (L.) Caruel [VI:766]

32 10.06.06 (3170).

A4 Bartın, Medit. element.

*Scrophularia scopoli* [Hoppe ex] Pers. var. *scopoli* [VI:616]

17 05.06.06 (3165, 3166), 85 12.04.07 (3168, 3169), 107 31.05.07 (3167).

*Veronica chamaedrys* L. [VI:732]

25 14.04.07 (3190), 65 22.09.06 (3184, 3185), 69 25.02.07 (3186),

71 14.04.07 (3192), 87 13.04.07 (3187), 90 13.04.07 (3188), 96

13.04.07 (3189), 98 14.04.07 (3191), 101 30.05.07 (3193).

Euro-Sib. element.

\**Veronica cymbalaria* Bodard [VI:723]

14 02.03.07 (3201), 83 02.03.07 (3200).

A4 Bartın, Medit. element.

\**Veronica hederifolia* L. [VI:725]

99 14.04.07 (3198, 3199).

\**Veronica officinalis* L. [VI:753]

101 30.05.07 (3194-3196.).

Euro-Sib. element.

*Veronica persica* Poirlet [VI:721]

3 25.03.06 (3203), 5 28.02.07 (3197, 3206, 3207), 27 14.04.07 (3208), 69 25.02.07 (3204), 71 14.04.07 (3209), 79 25.02.07 (3205), 85 12.04.07 (3202).

A4 Bartın.

#### SOLANACEAE

*Datura stramonium* L. [VI:451]

30 10.06.06 (3219), 56 02.03.07 (3217), 58 19.09.06 (3214), 77 28.09.06 (3218).

Cosmopolitan.

*Hyoscyamus albus* L. [VI:455]

21 06.06.06 (3212), 22 06.06.06 (3213).

Medit. element.

*Physalis alkekengi* L. [VI:444]

75 27.09.06 (3227-3230.).

A4 Bartın.

\**Solanum alatum* Moench [VI:439]

8 23.09.06 (3225), 32 10.06.06 (3226), 39 15.09.06 (3223), 60 19.09.06 (3222, 3224).

*Solanum nigrum* L. subsp. *schultesii* (Opiz) Wessely [VI:439]

58 19.09.06 (3221), 67 22.09.06 (3220).

A4 Bartın.

#### STAPHYLEACEAE

*Staphylea pinnata* L. [II:520]

13 02.06.07 (3233), 24 07.06.06 (3231, 3232), 30 10.06.06 (3235, 3236), 32 10.06.06 (3234), 73 27.09.06 (3238, 3239), 106 31.05.07 (3237).

#### THYMELAEACEAE

*Daphne pontica* L. [VII:522]

38 15.09.06 (3244), 44 16.09.06 (3243), 54 18.09.06 (3242), 84 02.03.07 (3241), 92 13.04.07 (3240).

Euxine element.

#### TILIACEAE

*Tilia argentea* Desf. ex DC. [II:424]

11 25.03.06 (3249), 24 07.06.06 (3250), 56 18.09.06 (3247), 61 19.09.06 (3246), 71 23.09.06 (3245), 73 27.09.06 (3248), 106 31.05.07 (3251).

Euro-Sib. element.

#### ULMACEAE

*Celtis australis* L. [VII:650]

20 06.06.06 (3252, 3253).

Medit. element.

*Ulmus minor* Miller subsp. *minor* [VII:647]

8 23.09.06 (3262), 10 25.03.06 (3274), 14 26.03.06 (3273), 10.06.06 (3271), 24 07.06.06 (3272), 54 18.09.06 (3270), 55 18.09.06 (3266-3269.), 69 22.09.06 (3265), 71 23.09.06 (3263, 3264), 76 28.09.06 (3260, 3261), 86 12.04.07 (3258, 3259), 103 30.05.07 (3257), 107 31.05.07 (3256), 111 02.06.07 (3254, 3255).

E. Medit. element.

#### UMBELLIFERAE

\**Angelica sylvestris* L. var. *sylvestris* [IV:432]

59 19.09.06 (40).

Euro-Sib. element.

\**Apium nodiflorum* (L.) Lag. [IV:422]

63 19.09.06 (42), 73 27.09.06 (43).

A4 Bartın.

*Bupleurum setaceum* Fenzl [IV:409]

42 15.09.06 (78, 81), 23.09.06 (79, 80), 71 23.09.06 (77), 76

28.09.06 (75, 76).

Endemic. E. Medit. element.

*Caucalis platycarpus* L. [IV:526]

29 10.06.06 (64, 65), 31.05.07 (66).

*Daucus carota* L. [IV:531]

1 22.09.06 (90), 8 23.09.06 (91), 10 23.09.06 (92), 16 02.06.07 (100, 101), 28 28.09.06 (84, 97), 32 10.06.06 (99), 33 14.09.06 (120), 36 14.09.06 (118, 119), 39 15.09.06 (115), 41 15.09.06 (114), 42 15.09.06 (117), 51 16.09.06 (87), 53 18.09.06 (85), 55 18.09.06 (88, 113), 59 19.09.06 (116), 60 10.06.06 (112), 61 19.09.06 (111), 63 19.09.06 (89), 66 22.09.06 (110), 71 23.09.06 (94, 95), 72 27.09.06 (86, 93), 74 27.09.06 (96), 75 27.09.06 (108, 109), 76 28.09.06 (83, 107), 77 02.03.07 (82), 78 28.09.06 (98), 108 02.06.07 (102-105.).

A4 Bartın.

\**Eryngium campestre* L. var. *campestre* (L.) HUDSON [IV:303]

3 07.06.06 (56), 20 06.06.06 (54, 55).

A4 Bartın.

*Eryngium maritimum* L. [IV:294]

29 02.06.07 (53).

*Ferulago platycarpa* Boiss. & Bal. [IV:464]

77 02.06.07

This taxon was recorded as species without any sample collection, during the area survey.

Endemic. Ir.-Tur. element.

*Foeniculum vulgare* Miller [IV:376]

30 10.06.06 (57).

\**Heracleum platytaenium* Boiss. [IV:491]

20 06.06.06 (62), 28.02.07 (61), 28.09.07 (60).

Endemic. Euxine element.

\**Laser trilobum* (L.) Borkh. [IV:513]

21 06.06.06 (63).

*Oenanthe pimpinelloides* L. [IV:373]

3 07.06.06 (123, 124), 17 05.06.06 (126), 18 05.06.06 (125), 24

07.06.06 (122), 32 10.06.06 (121).

*Pastinaca sativa* L. subsp. *urens* (Req. ex Godron) Celak.

[IV:481]

39 15.09.06 (71), 73 27.09.06 (69, 70), 74 27.09.06 (67), 75

27.09.06 (68).

*Petroselinum crispum* (Miller) A. W. Hill [IV:423]

25 07.06.06 (72).

*Sanicula europaea* L. [IV:289]

65 22.09.06 (44).

Euro-Sib. element.

*Scandix pecten-veneris* L. [IV:328]

13 26.03.06 (45).

*Seseli resinosum* Freyn & Sint. [IV:369]

14 26.03.06 (52), 10.06.06 (46), 20 28.02.07 (47), 21 06.06.06 (50,

51), 22 06.06.06 (49), 77 28.09.06 (48).

Endemic.

*Torilis arvensis* (Huds.) Link subsp. *arvensis* [IV:520]

78 28.09.06 (38).

\**Torilis arvensis* (Huds.) Link subsp. *purpurea* (Ten.) Hayek

[IV:521]

26 07.06.06 (74), 102 30.05.07 (73), 106 31.05.07 (39).

Medit. element.

URTICACEAE

*Parietaria judaica* L. [VII:637]

17 05.06.06 (3277), 22 06.06.06 (3276), 110 02.06.07 (3275).

A4 Bartın.

VALERIANACEAE

*Centranthus ruber* (L.) DC. [IV:558]

14 10.06.06 (3278-3280.).

A4 Bartın.

VERBENACEAE

*Verbena officinalis* L. [VII:33]

8 23.09.06 (3285), 30 10.06.06 (3282), 42 15.09.06 (3281), 51

16.09.06 (3290), 58 19.09.06 (3289), 66 22.09.06 (3288), 67

22.09.06 (3287), 69 22.09.06 (3286), 73 27.09.06 (3284), 77

28.09.06 (3283).

A4 Bartın.

VIOLACEAE

\**Viola canina* L. [I:528]

71 14.04.07 (3309-3311.), 85 12.04.07 (3307, 3308), 88 13.04.07

(3303), 89 13.04.07 (3304), 99 14.04.07 (3306).

A4 Bartın.

*Viola odorata* L. [I:525]

5 28.02.07 (3320, 3321), 9 25.03.06 (3313-3315.), 69 25.02.07

(3322), 73 14.04.07 (3312), 79 25.02.07(3323, 3324), 81 02.03.07

(3316-3319.), 88 13.04.07 (3326), 89 13.04.07 (3325).

A4 Bartın.

*Viola sieheana* Becker [I:527]

9 25.03.06 (3302), 25 14.04.07 (3301), 71 14.04.07 (3296), 73

14.04.07 (3292), 87 13.04.07 (3300), 88 13.04.07 (3298, 3299), 92

13.04.07 (3297), 98 14.04.07 (3293-3295.), 99 14.04.07 (3305).

VITACEAE

\**Vitis sylvestris* Gmelin [II:521]

15 10.06.06 (3329), 30 10.06.06 (3330), 56 18.09.06 (3331), 57

18.09.06 (3327), 75 27.09.06 (3332), 108 02.06.07 (3328).

A4 Bartın.

## Appendix 2 The Localities List

1	Amasra, Büyükkilit Hill, <i>Pinus brutia</i> Afforested Lands, sandstone, shale, 200 m, flat
2	Amasra, Büyükkilit Hill, <i>Pinus brutia</i> Afforested Lands, sandstone, shale, 160 m, southeast, 21°
3	Köprüboğazi Stream, Scrub Lands, sandstone, shale, 110 m, flat
4	Amasra, Zeytin Hill, Urban Agricultural Areas, sandstone, shale, 65 m, southwest, 39°
5	Amasra, Bedesten Historic Area, alluvion, 10 m, flat
6	Amasra, Büyükkilit Hill, Scrub Lands, sandstone, shale, 135 m, southeast, 31°
7	Amasra, Büyükkilit Hill, Roadsides, sandstone, shale, 85 m, southeast, 18°
8	Amasra, Meşelik Hill, Spoiled Lands / Mineral Lands, sandstone, shale, 115 m, north, 8°
9	Çömlekkıran Hill, Forest Communities dominated by <i>Ostrya carpinifolia</i> , neritic limestone, 100 m, east, 20°
10	Çömlekkıran Hill, Scrub Lands, neritic limestone, 95 m, northwest, 8°
11	Çömlekkıran Hill, Forest Communities Dominated by <i>Quercus</i> spp., neritic limestone, 80 m, west, 7°
12	Tarlaağzı Village Settlement, Rural Settlements, conglomerate, sandstone, claystone, diatomite coal, 95 m, northwest, 21°
13	İnkum, Kuba Hill, Forest Communities Dominated by <i>Tilia argentea</i> , shale, sandstone, limestone, 10 m, northwest, 3°
14	İnkum, İntepe Rock Block, alluvion, 10 m, flat
15	İnkum, Özel İdare Camp Garden, İnkum Dune Area, alluvion, 10 m, flat
16	İnkum, Urban Settlements, alluvion, 5 m, west, 3°
17	Amasra, Amastrist Hotel Garden, Private and Public Gardens, Roadside Green Spaces, neritic limestone, 5 m, north, 2°
18	Amasra, Küçük Liman Park, Parks and Squares, neritic limestone, 10 m, west, 37°
19	Amasra, Küçük Liman Horhor Stream, Parks and Squares, neritic limestone, 10 m, west, 20°
20	Amasra, Boztepe ve Tavşan Island Dry Grasslands, neritic limestone, 50 m, southeast, 17°
21	Amasra, Boztepe Neighborhood, Historic Castle Walls, neritic limestone, 25 m, east, 12°
22	Amasra, Kaleiçi Neighborhood, Residential Areas, neritic limestone, 25 m, north, 32°
23	Amasra, Çingen Hill, Forest Communities Dominated by <i>Castanea sativa</i> , pelagic and semipelagic limestone, 255 m, northwest, 42°
24	Amasra, Doruk Hill, Forest Communities Dominated by <i>Fagus orientalis</i> , sandstone, shale, limestone 335 m, north, 23°
25	Amasra, Kum Neighborhood, Scrub Lands, neritic limestone, 70 m, east, 20°
26	Amasra, Kemerdere Location, Humid and Semi Humid Meadow Areas, sandstone, shale, 45 m, northeast, 19°
27	Amasra, Kuşkaya Hill, Forest Communities Dominated by <i>Fagus orientalis</i> , pelagic and semipelagic limestone, 365 m, west, 35°
28	İnkum, Kuba Hill, Roadsides, shale, sandstone, limestone, 135 m, northwest, 12°
29	İnkum Dune Area, alluvion, 1 m, northwest, 3°
30	İnkum, Sarıkaya Hill, Steep Rocky Areas, shale, sandstone, limestone, 55 m, west, 35°
31	İnkum, Sarıkaya Hill, Scrub Lands, shale, sandstone, limestone, 80 m, northwest, 44°
32	İnkum, Sunset Hotel Backyard, Private and Public Gardens, shale, sandstone, limestone, 15 m, northwest, 8°

## Appendix 2. devam ediyor

33	İnkum, GüneyHill, Forest Communities Dominated by <i>Quercus</i> spp., dolomitic limestone, 190 m, southeast, 14°
34	İnkum, GüneyHill, Field Agricultural Lands, dolomitic limestone, 200 m, north, 14°
35	Kavşak Hill, Field Agricultural Lands, dolomitic limestone, 250 m, north, 15°
36	Kavşak Hill, Forest Communities Dominated by <i>Castanea sativa</i> , dolomitic limestone, 225 m, northeast, 14°
37	Domuz Hill, Forest Communities Dominated by <i>Castanea sativa</i> , dolomitic limestone, 200 m, northwest, 11°
38	Avtepe, <i>Pinus nigra</i> ssp. <i>pallasiana</i> Afforested Lands, dolomitic limestone, 165 m, northwest, 16°
39	Avtepe Foothill, <i>Pinus brutia</i> Afforested Lands, shale, sandstone, limestone, 120 m, flat
40	İnkum, Kuba Hill, Field Agricultural Lands, shale, sandstone, limestone, 175 m, east, 12°
41	İnkum, Kuba Hill, Forest Communities Dominated by <i>Quercus</i> spp., shale, sandstone, limestone, 150 m, southeast, 16°
42	İnkum, Kuba Hill, <i>Pinus nigra</i> ssp. <i>pallasiana</i> Afforested Lands, shale, sandstone, limestone, 180 m, southwest, 28°
43	Kayılık Hill, <i>Pinus pinaster</i> Afforested Lands, shale, mudstone, sandstone, coal, 305 m, west, 12°
44	Amasra, Tonton Hill, Hazelnut Plantation Areas, sandstone, shale, 155 m, north, 13°
45	Kayılık Hill, <i>Pinus pinaster</i> Afforested Lands, dolomitic limestone, 385 m, northeast, 10°
46	Amasra, Dinlence Hill, <i>Pinus pinaster</i> Afforested Lands, dolomitic limestone, 380 m, flat
47	Tarlaağzı, Zebani Ridge, Forest Communities Dominated by <i>Carpinus betulus</i> , shale, mudstone, sandstone, coal, 235 m, northwest, 36°
48	Sarıgöl Hill, <i>Pinus brutia</i> Afforested Lands, dolomitic limestone, 115 m, northeast, 26°
49	Kapangöl Hill, <i>Pinus pinaster</i> Afforested Lands, dolomitic limestone, 160 m, northwest, 11°
50	Boyundurukyokuş Ridge, <i>Pinus pinaster</i> Afforested Lands, dolomitic limestone, 165 m, north, 33°
51	Pit Area Near Incir Hill, Forest Communities Dominated by <i>Quercus</i> spp., dolomitic limestone, 265 m, southwest, 13°
52	Yaylacık Hill, <i>Pinus pinaster</i> Afforested Lands, dolomitic limestone, 370 m, west, 34°
53	İnkum, Ören Ridge-Kuba Hill, Roadsides, dolomitic limestone, 55 m, southeast, 30°
54	İnkum, Ören Ridge, <i>Pinus nigra</i> ssp. <i>pallasiana</i> Afforested Areas, dolomitic limestone, 85 m, north, 37°
55	İnkum, Kuba Hill, Forest Communities Dominated by <i>Fagus orientalis</i> , shale, sandstone, limestone, 140 m, southeast, 15°
56	İnkum, Kuba Hill, Forest Communities Dominated by <i>Fagus orientalis</i> , shale, sandstone, limestone, 185 m, northwest, 22°
57	İnkum, Kuba Hill, Roadsides, shale, sandstone, limestone, 175 m, northwest, 36°
58	Bartın Nehri, Balkaya Foothill, Riverside Spoiled Lands, alluvion, 10 m, flat
59	Bartın River, Port Entrance, Spoiled Lands / Port Land, alluvion, 10 m, northwest, 4°
60	İnkum, Yılan Foothill, Riverside Spoiled Lands, dolomitic limestone, 10 m, flat
61	Fındık Pit, Forest Communities Dominated by <i>Quercus</i> spp., dolomitic limestone, 160 m, flat
62	Köklük Hill, <i>Pinus pinaster</i> Afforested Lands, dolomitic limestone, 155 m, northwest, 16°
63	Kömürüanı Pit and Upper Part, <i>Pinus pinea</i> Afforested Lands, dolomitic limestone, 135 m, west, 13°
64	Katırizi Section, <i>Pinus brutia</i> Afforested Lands, dolomitic limestone, 130 m, flat
65	Amasra, Meşelik Hill, Forest Communities Dominated by <i>Castanea sativa</i> , sandstone, shale, limestone, 320 m, east, 11°
66	İnkum, Büyüklit Hill, <i>Pinus brutia</i> Afforested Lands, sandstone, shale, 220 m, flat
67	Amasra TTK entrance, Unused Empty Areas, alluvion, 15 m, east, 17°
68	Amasra, Büyüklit Hill, Roadsides, sandstone, shale, 130 m, east, 11°
69	Amasra, Meşelik Hill, Forest Communities Dominated by <i>Fagus orientalis</i> , sandstone, shale, limestone, 335 m, north, 39°
70	Amasra, Kuşkaya Hill, Scrub Lands, sandstone, shale, 145 m, west, 9°
71	Amasra, Tonton Hill, Trees and Hedgerows Located with The Field Boundaries, sandstone, shale, 145 m, north, 11°
72	Amasra, Büyüklit Hill, Field Agricultural Lands, sandstone, shale, 235 m, east, 17°
73	Amasra, Kuşkaya Hill, Forest Communities Dominated by <i>Castanea sativa</i> , sandstone, shale, 250 m, northeast, 31°
74	Amasra, Kuşkaya Hill, Forest Communities Dominated by <i>Castanea sativa</i> , sandstone, shale, 260 m, north, 32°
75	Amasra, Kuşkaya Hill, Forest Communities Dominated by <i>Castanea sativa</i> , pelagic and semipelagic limestone, 350 m, north, 42°
76	İnkum, Taşlılit Hill, Scrub Lands, dolomitic limestone, 115 m, north, 18°
77	İnkum, Taşlılit Hill, Steep Rocky Areas, shale, sandstone, limestone, 130 m, west, 45°
78	İnkum, Kuba Foothill-İnkum entrance, Roadsides, shale, sandstone, limestone, 10 m, northwest, 3°
79	Amasra, Meşelik Hill, Forest Communities Dominated by <i>Fagus orientalis</i> , pelagic and semipelagic limestone, 260 m, north, 33°
80	Amasra Roadside, Under The Military Radar, Humid and Semi Humid Meadow Areas, volcanogenic sandstone, shale, limestone, 280 m, south, 40°
81	Bartın River, Harmancık Foothill, Forest Communities Dominated by <i>Carpinus betulus</i> , dolomitic limestone, 35 m, north, 31°
82	İnkum, Taşlılit Hill, Scrub Lands, dolomitic limestone, 130 m, northwest, 9°
83	İnkum Center (Private Administration Garden), Private and Public Gardens, alluvion, 2 m, northwest, 3°
84	İnkum, Kapaklı Neighborhood, Cemetary, Rural Settlements, dolomitic limestone, 270 m, flat
85	Amasra Center, Cemetary, alluvion, 40 m, northeast, 19°
86	Amasra Center, Urban Agricultural Areas, alluvion, 10 m, flat
87	Gökçeagaçlık Stream Location, Forest Communities Dominated by <i>Quercus</i> spp., dolomitic limestone, 85 m, east, 11°
88	Akçaotluk Hill, <i>Pinus brutia</i> Afforested Lands, dolomitic limestone, 135 m, northwest, 8°
89	Öküzgölü Location, <i>Pinus brutia</i> Afforested Lands, dolomitic limestone, 110 m, flat
90	Kömürüanı Pit, <i>Pinus pinea</i> Afforested Lands, dolomitic limestone, 125 m, east, 12°
91	Fındık Pit, Humid and Semi Humid Meadow Areas, dolomitic limestone, 155 m, south, 19°
92	Fındık Pit, Forest Communities Dominated by <i>Quercus</i> spp., dolomitic limestone, 150 m, flat
93	Fındık Pit, Forest Communities Dominated by <i>Quercus</i> spp., dolomitic limestone, 265 m, north, 19°
94	Yaylacık Hill, <i>Pinus pinaster</i> Afforested Lands, dolomitic limestone, 290 m, west, 21°
95	Yaylacık Hill, <i>Pinus pinaster</i> Afforested Lands, shale, mudstone, sandstone, coal, 305 m, north, 31°
96	Yaylacık Hill, <i>Pinus pinaster</i> Afforested Lands, shale, mudstone, sandstone, coal, 355 m, northwest, 13°
97	Amasra, Meşelik Hill, Roadsides, volcanogenic sandstone, shale, limestone, 330 m, southeast, 22°
98	İnkum, Büyüklit Hill, <i>Pinus brutia</i> Afforested Lands, sandstone, shale, 185 m, west, 25°
99	Amasra, Kuşkaya Hill, Forest Communities Dominated by <i>Castanea sativa</i> , sandstone, shale, 320 m, west, 25°
100	Boğaz Location, Bartın Riverside, alluvion, 10 m, flat
101	Gölbaşı Hill, Forest Communities Dominated by <i>Carpinus betulus</i> , dolomitic limestone, 30 m, 22°
102	Gölbaşı Hill, Dry and Semi Dry Grasslands, dolomitic limestone, 80 m, 28°
103	Karasu Village, Roadsides, alluvion, 10 m, flat

104	Boğaz Location, Konak Casino Garden, Humid and Semi Humid Meadow Areas, alluvion, 10 m, flat
105	İnkum, Kuba Hill, Forest Communities Dominated by <i>Carpinus betulus</i> , dolomitic limestone, 120 m, northeast, 24°
106	İnkum, Kuba Foothill, Behind the Municipal Facilities, Forest Communities Dominated by <i>Tilia argentea</i> , shale, sandstone, limestone, 30 m, northwest, 30°
107	İnkum, Kuba Foothill, Forest Communities Dominated by <i>Tilia argentea</i> , shale, sandstone, limestone, 10 m, Northwest, 3°
108	İnkum, Sarıkaya Hill, Steep Rocky Areas, shale, sandstone, limestone, 20 m, northwest, 33°
109	İnkum, Yılan Hill, Scrub Lands, dolomitic limestone, 105 m, southwest, 22°
110	İnkum PTT Garden, Private and Public Gardens, alluvion, 5 m, north, 3°
111	İnkum, Harmancık Hill, Trees and Hedgerows Located with The Field Boundaries, shale, sandstone, limestone, 140 m, northwest, 7°
112	İnkum, Harmancık Hill, Dry and Semi Dry Grasslands, dolomitic limestone, 155 m, southwest, 10°
113	Bartın River, Harmancık Foothill, Bartın Riverside, dolomitic limestone, 10 m, flat
114	Amasra Urban Center, Parks and Squares, neritic limestone, 5 m, north, 2°
115	Amasra Turizm High School Garden, Private and Public Gardens, alluvion, 10 m, northwest, 2°
116	Boğaz Location, Balkaya Hill, Scrub Lands, alluvion, 10 m, flat
117	Boğaz Location, Bartın Riverside, Riverside Spoiled Lands, dolomitic limestone, 10 m, flat
118	Boğaz Location, Süleyman Hill, Forest Communities Dominated by <i>Carpinus betulus</i> , dolomitic limestone, 15 m, west, 18°
119	Boğaz Location, Süleyman Hill, Forest Communities Dominated by <i>Carpinus betulus</i> , dolomitic limestone, 15 m, north, 11°
120	Karakovuz Hill, Sarnıç Stream Location, Forest Communities Dominated by <i>Quercus</i> spp., dolomitic limestone, 160 m, southwest, 17°
121	Bartın-İnkum Roadside, <i>Pinus nigra</i> ssp. <i>pallasiana</i> Afforested Lands, dolomitic limestone, 15 m, southeast, 19°
122	Bartın-İnkum Roadside, Forest Communities Dominated by <i>Carpinus betulus</i> , dolomitic limestone, 10 m, flat
123	İnkum, Taşlılilit Hill, Scrub Lands, dolomitic limestone, 130 m, west, 9°
124	İnkum, Taşlılilit Hill, Steep Rocky Areas, shale, sandstone, limestone, 125 m, southwest, 34°
125	İnkum, Taşlılilit Hill, Trees and Hedgerows Located with The Field Boundaries, shale, sandstone, limestone, 130 m, flat,
126	Harmancık Hill, Trees and Hedgerows Located with The Field Boundaries, shale, sandstone, limestone, 135 m, northwest, 11°
127	İnkum, Kapaklı Neighborhood, Avtepe Hillside, Trees and Hedgerows Located with The Field Boundaries, dolomitic limestone, 200 m, flat
128	İnkum, Kapaklı Neighborhood, Avtepe Hillside, Trees and Hedgerows Located with The Field Boundaries, dolomitic limestone, 185 m, northwest, 21°
129	İnkum, Kapaklı Neighborhood, Avtepe Hillside, Trees and Hedgerows Located with The Field Boundaries, dolomitic limestone, 235 m, north, 9°
130	İnkum, Kapaklı Neighborhood, Avtepe Hillside, Küçük Hill, Trees and Hedgerows Located with The Field Boundaries, dolomitic limestone, 225 m, north, 23°
131	Sarıkaya Hill, Kıraçbaşı Hillside, Trees and Hedgerows Located with The Field Boundaries, shale, sandstone, limestone, 195 m, south, 6°
132	Sarıkaya Hill, Kıraçbaşı Hillside, <i>Pinus brutia</i> Afforested Lands, shale, sandstone, limestone, 195 m, northwest, 11°
133	Sarıkaya Hill, Kıraçbaşı Hillside, <i>Pinus nigra</i> ssp. <i>pallasiana</i> Afforested Lands, shale, sandstone, limestone, 175 m, east, 12°
134	İnkum, Kuba Hillside, Forest Communities Dominated by <i>Quercus</i> spp., shale, sandstone, limestone, 180 m, flat
135	Amasra, Bedesten, Scrub Lands, sandstone, shale, 35 m, southwest, 32°
136	Amasra, Tarlaağı Fishing Shelter, Forest Communities Dominated by <i>Quercus</i> spp., conglomerate, sandstone, claystone, diatomite coal, 65 m, northeast, 17°
137	İnağzı Hillside, Steep Rocky Areas, sandstone, shale, 65 m, south, 34°
138	İnağzı Hill, Steep Rocky Areas, neritic limestone, 60 m, flat
139	Tonton Hill, Çınarlı Colliery Entry, Forest Communities Dominated by <i>Ostrya carpinifolia</i> , sandstone, shale, 110 m, northeast, 25°
140	Tonton Hill, Trees and Hedgerows Located with The Field Boundaries, sandstone, shale, 155 m, west, 11°
141	Amasra, Kuşkaya Hill, Forest Communities Dominated by <i>Fagus orientalis</i> , pelagic and semipelagic limestone, 345 m, west, 43°
142	Amasra, Kuşkaya Hill, Forest Communities Dominated by <i>Fagus orientalis</i> , pelagic and semipelagic limestone, 360 m, west, 33°
143	Amasra, Kuşkaya Hill, Forest Communities Dominated by <i>Castanea sativa</i> , sandstone, shale, 315 m, northwest, 25°
144	Amasra, Kuşkaya Hill, Forest Communities Dominated by <i>Castanea sativa</i> , sandstone, shale, 290 m, northwest, 15°
145	Amasra, Bakacak Viewing Terrace, Forest Communities Dominated by <i>Fagus orientalis</i> , sandstone, shale, 310 m, north, 20°
146	Amasra, Bakacak Viewing Terrace, Forest Communities Dominated by <i>Castanea sativa</i> , sandstone, shale, 200 m, north, 17°
147	Dökük Stream, Scrub Lands, sandstone, shale, 120 m, southwest, flat
148	Karasu Village, Kuba Hill, Forest Communities Dominated by <i>Quercus</i> spp., shale, sandstone, limestone, 30 m, flat
149	Karasu Village, Avtepe Foothill, Forest Communities Dominated by <i>Castanea sativa</i> , dolomitic limestone, 110 m, north, 24°
150	Karasu Village, Avtepe Hillside, Forest Communities Dominated by <i>Castanea sativa</i> , dolomitic limestone, 160 m, northeast, 19°
151	Ahatlar Village, Döşeme Stream, Forest Communities Dominated by <i>Castanea sativa</i> , sandstone, shale, 145 m, 28°
152	Poyraz Nose Hillside, Forest Communities Dominated by <i>Quercus</i> spp., dolomitic limestone, 110 m, north, 31°
153	Boğaz Location, Poplar Plantation Areas, alluvion, 10 m, flat
154	Çingen Hillside, Forest Communities Dominated by <i>Tilia argentea</i> , pelagic and semipelagic limestone, 265 m, northwest, 37°
155	Amasra, Kum Neighborhood, Scrub Lands, neritic limestone, 60 m, flat
156	Karakovuz Hill, Forest Communities Dominated by <i>Carpinus betulus</i> , dolomitic limestone, 155 m, northwest, 18°

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