

The Flora of Bağlıca Campus of Başkent University (Ankara)

Başkent Üniversitesi Bağlıca Yerleşkesinin (Ankara) Florası

Research Article

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ABSTRACT

This paper describes a floristic study on Bağlıca Campus area of Başkent University in Ankara province. 779 vascular plant specimens were collected between 2008 March and 2009 August in 26 field trips. 373 species, 382 taxa of natural plants belonging to 216 genera and 51 families were determined, which of 63 taxa are endemic to Turkey (16.5%). Except for these, 45 taxa are detected as cultivated plants. The distribution of the phytogeographical elements is as follows: Irano - Turanian 119 taxa (31.2%), Mediterranean 20 taxa (5.2%), Euro - Siberian 15 taxa (3.9%), pluriregional or phytogeographically unknown 228 taxa (59.7%). As a result of present paper, the three largest families are Asteraceae with 52 taxa (13.6%), Fabaceae with 44 taxa (11.5%) and Lamiaceae with 33 taxa (8.6%). The largest three genera are *Astragalus* with 19 taxa (5.0%), *Salvia* with 11 taxa (2.9%) and *Centaurea* with 10 taxa (2.6%). The results of our research are compared with the studied neighbouring areas by means of phytogeographic element rates and endemism. The life form categories are given by using the Raunkiaer's system. *Calepina irregularis* (Asso) Thell. and *Astragalus aduncus* Willd. are recorded as new for the square B4.

Key Words

Flora, Campus Flora, Başkent University, Ankara, Turkey

ÖZET

Bu çalışmada Başkent Üniversitesi Bağlıca yerleşkesinin (Ankara) florası araştırılmıştır. İnceleme alanına Mart 2008 ve Ağustos 2009 tarihleri arasında yapılan 26 gezi sonucu 779 bitki örneği toplanmıştır. Bu örneklerin değerlendirilmesi ile doğal olarak yetişen 51 familya ve 216 cinse ait, 373 tür, 382 takson tespit edilmiştir. Bunların 63' ü (% 16.5) Türkiye için endemiktir. Kültür bitkisi olarak ise 45 takson saptanmıştır.. Fitocoğrafik bölgelerin dağılımı ise şöydür: 119 takson (% 31.2) İran-Turan, 20 takson (% 5.2) Akdeniz ve 15 takson (% 3.9) Avrupa-Sibirya fitocoğrafik bölgesine dahildir. 228 takson (% 59.7) ise çok bölgeli veya bölgesi bilinmeyen şeklindedir. En büyük üç familya sırasıyla 52 (%13.6) takson ile Asteraceae, 44 takson (%11.5) ile Fabaceae, 33 takson ile (%8.6) Lamiaceae' dir. En çok taksona sahip cinsler ise 19 takson ile (%5.0) *Astragalus*, 11 takson ile (%2.9) *Salvia* ve 10 takson ile (%2.6) *Centaurea* 'dır. Bu çalışma sonucunda inceleme alanı ile yakın çevresinde yapılmış olan çalışmalar fitocoğrafik bölge elementleri ve endemizm yönünden karşılaştırılmıştır. Araştırma alanında tespit edilen tüm taksonların Raunkiaer'e göre hayat formu kategorileri verilmiştir. Araştırma alanının bulunduğu B4 karesi için *Calepina irregularis* (Asso) Thell. ve *Astragalus aduncus* Willd. türleri yeni kayıt olarak bulunmuştur.

Anahtar Kelimeler

Flora, Kampüs florası, Başkent Üniversitesi, Ankara, Türkiye

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INTRODUCTION

Human effects on environment are growing day after day. Notably, crowded cities are the most effected places because pollution, globalisation, urbanization etc. destroy native habitats and this constraints the biodiversity of flora. To detect these destructions, floristic researches on cities [1,2,3] or native places near city centres like campuses [4,5,6,7,8,9,10,11,12, etc.] which are open to such danger are conduct in the last few decades in Turkey. Our research field, Başkent University Bağlıca Campus, is also one of them, which is located in the west part of Ankara city centre and it is almost 20 km away. Furthermore, this area is in B4 square according to grid system that applied for the Flora of Turkey [13,14,15] and it belongs to Irano-Turanion phytogeographic region.

The field area is placed in Etimesgut district, the south of Bağlıca village and it is surrounded by highways. While Ankara - Eskişehir highway lies in the south western part, Etimesgut - Eskişehir highway in the eastern part. Lastly, Çevre highway is in the western part of the area (Figure 1). The research area lies between the latitudes 32° 46' 34.89 and 32° 38' 12.07, and the longitudes 39° 55' 02.52 and 39° 52' 54.17. The total research field is about 3637.000 m², its altitudes are between 930 - 1100 metres and it shows steppe characteristics. Unfortunately, human effects on the area have been growing with campus structuring since 1995 and it effects steppe formation. Constructions of

roads and buildings and plantation or landscaping are especially damaging the floral structures.

The campus area is geographically formed by Akbayır and Gölbaşı formations. Most of the study area constituted by Jura aged limestone blocks called Akbayır formation. Gölbaşı formation, which is located in minor part of the campus, is composed of the loosely consolidated sediments from the Pliocene and the youngest deposits in the region [16]. The only soil group in the research area is brown soil which is calcareous and it is also the most common soil group used for agriculture [17].

Meteorological data obtained from Etimesgut station (34 years) was used to determine the climate [18]. The average annual temperature in Etimesgut station is 11.3 °C and average annual precipitation is 363.7 mm. The precipitation regime is East Mediterranean Rain Regime Type 2 SWAS (spring, winter, autumn, summer) [19] and according to Emberger's Mediterranean bioclimate layers classification, Etimesgut is "lower semi-arid and very cold". The ombro-thermic climate diagram (Figure 2) was also drawn using Gausson's method [20].

Typical species of semi-arid mediterranean bioclimate layers *Thymus leucostomus* subsp. *leucostomus*, *T. longicaulis* subsp. *longicaulis*, *Onobrychis armena*, *Astragalus campylosema* [19] are found in the research area, which confirms the relationship between climate and vegetation. The

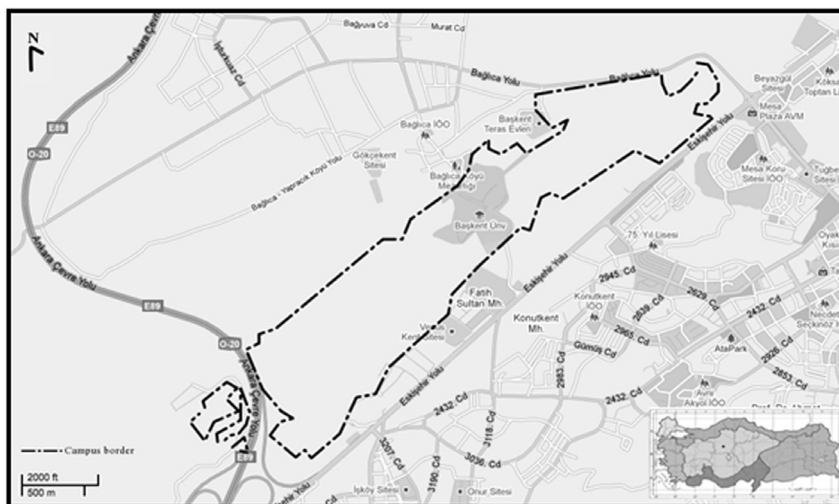


Figure 1. Map of Başkent University Bağlıca campus

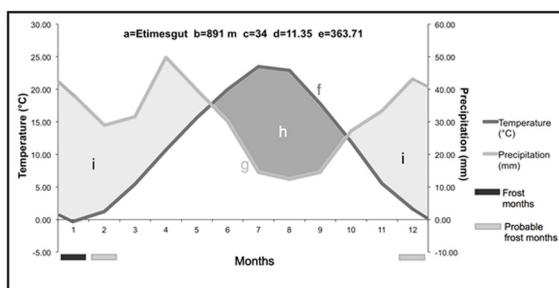


Figure 2. The Ombro-thermic climate diagram a) meteorological station b) altitude c) observation (years) d) average annual temperature (°C) e) average annual precipitation (mm) f) temperature g) precipitation h) dry season i) precipitation season

study area is covered by steppes, landscape areas and fields. Steppe is the most common vegetation in the research field. Some dominant species of this vegetation type are: *Astragalus microcephalus*, *A. strictifolius*, *A. acicularis*, *A. podperae*, *A. nitens*, *Globularia orientalis* and *Salvia cryptantha*. On the slopes, some herbaceous species such as *Minuartia anatolica*, *Linum hirsutum* subsp. *pseudoanatolicum*, *Hedysarum varium*, *Sedum urvillei*, *Cruciata taurica*, *Vinca herbacea* and some shrubs like *Jasminum fruticans* and *Crataegus orientalis* can also be seen as dominant species. For preventing harsh erosion, construction of terraces and planting *Cupressus sempervirens*, *C. arizonica*, *Pinus nigra* subsp. *nigra* var. *caramanica*, *Acer negundo*, *Robinia pseudoacacia*, *Prunus domestica*, *P. cerasifera*, *Amygdalus communis*, *Betula verrucosa* were supported by Başkent University entity. In despite of soil erosion and planting of tress for halting this problem, steppe vegetation was also interrupted by plantation of *Zea mays*. To sum up, steppe vegetation is under threat in the research area because of human activities.

MATERIAL AND METHODS

The materials of this study (779 vascular plant specimens) were collected from Başkent University Bağlıca Campus between 2008 March and 2009 August in 26 field trips. At least one specimen for each taxon was prepared using herbarium techniques [21] and deposited at HUB. These specimens were identified basically using the Flora of Turkey [13,14,15], other Floras [22,23] and revisions [24,25,26,27,28,29]. All taxa in the floristic list were given according to Flora of

Turkey [13,14,15]. In addition, for identification of some cultivated plants Flora [30] was used. The list of all cultivated plants was given alphabetically (Appendix). Some synonyms and combinations [31,32] were also written under the taxon name with (=) sign. The authorities were cited using Author of Plant Names [33]. Phytogeographical regions of the taxa were indicated according to Davis [13,14] and threat categories of the endemic and rare taxa were given according to Ekim et al. [34], and revised according to IUCN risk categories [35]. Agricultural plants were not included in the analyses. Life forms of taxa were written according to Raunkiaer [36]. In the floristic list (appendix). location information of the species was defined as stations. The number of the each station was used in appendix to minimize repetition of location information. Only two locations were given for common species. In the list the following details were stated: family, species, station number in parenthesis, collection date, collector number, endemism, phyogeographical regions, cultivation, threat category, Raunkiaer's life form and if species determined by others (not by D. Töre) it is noted as "Det.:" in parenthesis.

The new records for the B4 square were evaluated according to Donner [37,38,39] and other papers [40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67], pointed with an (*) in the floristic list. The findings were compared with the results of the neighbouring areas by means of phytogeographical elements, number of taxa and endemism.

The abbreviations used in the text and the floristic list are as follows (in alphabetic order): C: Chamaephyte, CR: Critically Endangered, Cult.: Cultivated, DD: Data Deficient, Det: Determined by, DT: Demet Töre, EN: Endangered, End.: Endemic, E. Medit.: East Mediterranean, Euro - Sib.: Euro-Siberian, EX: Extinct, EW: Extinct in the Wild, G: Geophyte, H: Hemicryptophyte, Ir. - Tur.: Irano-Turanian, LC: Least Concern, Medit.: Mediterranean, NE: Not Evaluated, NT: Near Threatened, P: Phanerophyte, Pa: Parasite, P.R.: Phytogeographic Regions, subsp.: Subspecies, T: Therophyte, var: Variete, VU: Vulnerable.

Stations:

1. B4 Ankara, Başkent University Bağlıca campus, south of campus, back of Faculty of Science-Letters, slopes and floor of valley, landscape area, K39° 53' 08" D32° 39' 15" 948m
2. B4 Ankara, Başkent University Bağlıca campus, southwest of campus, back of Kanal B, slopes, rocky, K39° 53' 59" D32° 39' 13" 1024m
3. B4 Ankara, Başkent University Bağlıca campus, northwest of campus, back of Atatürk statue, slopes and floor of valley, steppe, K39° 53' 01" D32° 39' 06" 1028m
4. B4 Ankara, Başkent University Bağlıca campus, southwest of campus, around Atatürk statue, steppe, K39° 52' 55" D32° 39' 02" 1043m
5. B4 Ankara, Başkent University Bağlıca campus, southwest of campus, slopes alongside Ankara-Eskişehir highway, step, K39° 53' 00" D32° 38' 52" 1011m
6. B4 Ankara, Başkent University Bağlıca campus, west of campus, plantation area, K39° 52' 20" D32° 38' 24" 1032m
7. B4 Ankara, Başkent University Bağlıca campus, west of campus, slopes alongside Çevre highway, steppe, K39° 52' 42" D32° 38' 04" 991m
8. B4 Ankara, Başkent University Bağlıca campus, northwest of campus, slopes, steppe, K39° 52' 58" D 32° 38' 47" 1002m
9. B4 Ankara, Başkent University Bağlıca campus, southwest of campus, around Birben hill, plantation area, K39° 52' 46" D32° 38' 11" 1093m
10. B4 Ankara, Başkent University Bağlıca campus, around Rectorate, landscape area, K39° 53' 14" D32° 39' 24" 980m
11. B4 Ankara, Başkent University Bağlıca campus, north of campus, near Bağlıca village, plantation area, K39° 53' 15" D32° 39' 22" 982m
12. B4 Ankara, Başkent University Bağlıca campus, north of campus, around sport facility, slopes, steppe, K39° 53' 18" D32° 39' 29" 957 - 971m
13. B4 Ankara, Başkent University Bağlıca campus, southeast of campus, slopes opposite to Konutkent, rocky slopes, steppe, K39° 53' 20" D32° 40' 01" 940 - 980m
14. B4 Ankara, Başkent University Bağlıca campus, southeast of campus, slopes opposite to Koru Migros, plantation areas, K39° 53' 27" D32° 40' 29" 948m
15. B4 Ankara, Başkent University Bağlıca campus, east of campus, plantation areas, K39° 53' 33" D32° 40' 30" 935m

Table 1. Floristic composition of the Başkent University Bağlıca Campus.

Systematic Unit	Family	Genera	Species	Subspecies	Varieties	Taxa	Endemics
Gymnospermae	1	1	1	-	-	1	-
Angiospermae	50	215	372	2	7	381	63
Dicotyledones	47	184	326	2	6	334	57
Monocotyledones	3	31	46	-	1	47	6
Total	51	216	373	2	7	382	63

Table 2. Distribution of the phytogeographical elements, endemic and non-endemic species.

Phytogeographical regions	Endemics		Non endemics		Total	
	Number	%	Number	%	Number	%
Irano-Turanian	44	11.5	75	19.6	119	31.2
Mediterranean	0	0.0	20	5.2	20	5.2
Euro - Siberian	0	0.0	15	3.9	15	3.9
Pluriregional or unknown	19	5.0	209	54.7	228	59.7
Total	63	16.5	319	83.5	382	

Table 3. Comparison of the endemics and phytogeographical elements (abbreviations are below the table)

Studies	Total		Total endemics		Irano-Turanian		Mediterranean		Euro-Siberian		Pluriregional or unknown	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Başkent	382	63	16.5	119	31.2	20	5.2	15	3.9	228	59.7	
Peçenek [72]	565	86	15.2	149	26.4	23	4.1	35	6.2	358	63.3	
Beytepe [73,74]	510	65	12.7	137	26.9	18	3.5	31	6.1	324	63.5	
ODTÜ [75]	463	47	10.2	106	23.9	35	7.9	27	6.1	274	62.1	
Ankara [1]	1115	175	15.4	321	28.7	92	8.2	70	6.2	632	56.6	
Taşpınar [76]	276	54	19.5	94	34.1	13	4.7	6	2.2	93	33.7	
İmrahor [77]	340	32	9.4	67	20.4	17	5.1	20	6.0	224	68.2	
Bağlum [78]	296	49	16.5	95	32.1	18	6.1	6	2.0	178	59.8	
Kuşkonan [79]	254	51	20.1	60	23.7	11	4.3	9	3.5	174	68.5	
Doğandede [80]	302	64	21.2	93	30.8	25	8.3	9	3.0	175	57.9	
Ayaş [81]	203	26	12.8	50	24.6	13	6.4	11	5.4	98	48.2	

Başkent: The Flora of Bağlıca Campus of Başkent University (Ankara)
 Peçenek [72], Beytepe [73,74], Odtü [75], Ankara [1], Taşpınar [76], İmrahor [77], Bağlum [78], Kuşkonan [79], Doğandede [80], Ayaş [81].

16. B4 Ankara, Başkent University Bağlıca campus, north of campus, slopes and floor of valley, steppe, K39° 53' 27" D32° 40' 06" 930 - 985m
17. B4 Ankara, Başkent University Bağlıca campus, east of campus, around Zea mays plantation area, K39° 53' 23" D32° 40' 12" 930 - 940m

Table 4. The distribution of the threat categories

Categories	LC	VU	NT	Total
Endemics	52	2	5	7
Non Endemics	0	0	0	0

RESULTS AND DISCUSSION

373 species and 382 taxa of natural plants belonging to 216 genera and 51 families are determined. Except for these, 45 taxa belonging to 37 genera and 15 families are the cultivated ones. A summary of the statistics is presented in Table 1. The phytogeographical spectra of taxa are as follows: Irano - Turanian 119 taxa (31.2%), Mediterranean 20 taxa (5.2%), Euro - Siberian 15 taxa (3.9%), pluriregional or phytogeographically unknown 228 taxa (59.7%) (Table 2). The total endemism rate is 16.5%, with 63 taxa. The proportion of endemism in the area (16.5%), which is below the average of Turkey (34%) [68,69,70,71], is high among other compared floras (Figure 3). Composition of phytogeographic classification of taxa is found suitable for the location of the study area. The area is located in the Irano-Turanian region, the number of the Irano - Turanian elements is higher than other elements. Moreover, because neighbouring areas also are in the Irano - Turanian region, all areas have the highest Irano-Turanian phytogeographic element as expected (Table 3). Also, 44 of these 63 endemic taxa in Bağlıca campus are Irano-Turanian and the phylogeographical regions of the rest are unknown (Table 2). Because of the same reason noted before, this was an expected result, as the study area is in the Irano - Turanian phytogeographic region.

The threat categories of the endemic and non-endemic taxa were evaluated according to the

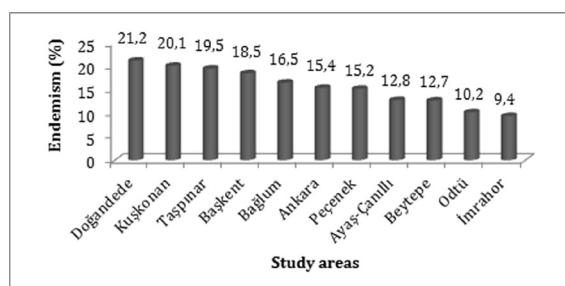


Figure 3. Comparison of the ratio of endemics among neighboring floras (abbreviations are below the figure)

Başkent: The Flora of Bağlıca Campus of Başkent University (Ankara)

Peçenek [72], Beytepe [73,74], Odtü [75], Ankara[1], Taşpınar [76], İmrâhor [77], Bağlım [78], Kuşkonan [79], Doğandede [80], Ayaş [81].

IUCN risk categories [34,35] The distribution of the threat categories is as follows; 52 endemic taxa in LC, 2 endemic taxa in VU and 5 endemic taxa in NT category. The results are summarized in Table 4. *Dianthus ancyrensis* and *Verbascum stachyidifolium* are categorized as vulnerable. These taxa are threatened by human effects in the research area especially because of construction and maize cultivation activities.

Consequently, the largest genera in terms of taxa number are *Astragalus* (19), *Salvia* (11), *Centaurea* (10), *Veronica* (8), *Euphorbia* (6). The first and third largest genera also show correlation with Flora of Turkey [13,14,15,82]. *Astragalus* is the largest genus in Turkey and has a wide distribution in the Irano-Turanian phytogeographic region. If we compare other floristic studies (Table 6) because the phytogeographic regions of the areas are similar, *Astragalus* is the largest genus in all areas as expected. In the campus area *Veronica* has higher taxa than other areas except for the Flora of Ankara City [1]. The reason for this may be the fact that, most of these species were collected from wet and afforested areas.

The taxa are also classified according to their life forms. All of the taxa, which are classified according to Raunkiaer's life form spectrums [36], are given in Table 7. Distribution of the spectrum differs according to region, climate [36], topography and altitude [83]. Hemicryptophytes as the highest life forms are found in the research area. Bağlıca campus shows arid and cold climate with steppe characteristics, so this result was expected. Moreover,

Table 5. Comparison of largest families in Bağlıca Campus and neighbouring areas

	Başkent	Peçenek	Beytepe	ODTÜ	Ankara	Taşpınar	İmrahor	Bağlum	Kuşkonan	Doğandede	Ayaş
Asteraceae	52	86	75	67	139	36	51	34	40	27	26
Fabaceae	44	59	66	49	124	38	32	38	27	40	20
Lamiaceae	33	43	37	37	70	25	21	23	29	35	18
Brassicaceae	32	43	41	22	72	19	21	22	7	18	12
Poaceae	28	44	35	57	100	20	19	26	20	16	13

Table 6. Comparison of largest genera in Bağlıca Campus and neighbouring areas

	Başkent	Peçenek	Beytepe	ODTÜ	Ankara	Taşpınar	İmrahor	Bağlum	Kuşkonan	Doğandede	Ayaş
Astragalus	19	16	18	10	38	12	6	11	12	16	5
Salvia	11	13	9	12	17	5	4	6	9	11	4
Centaurea	10	10	9	10	13	6	7	7	8	7	5
Veronica	8	7	6	6	14	2	4	2	1	4	0
Euphorbia	6	6	8	2	14	4	4	4	2	4	4

Table 7. Raunkiaer's Life Form Spectrum

Life Forms	Wild		Cultivated		Total	
	Number	%	Number	%	Number	%
Phanerophyte (P)	9	2.4	40	16,6	48	11,5
Chamaephyte (C)	31	8,1	1	5,2	31	7,3
Hemicryptophyte (H)	159	41,6	1	3,9	160	37,5
Geophyte (G)	29	7.6	0	0	29	6,8
Therophyte (T)	147	38.5	3	6.8	150	35.1
Parasite (Pa)	7	1.8	0	0	7	1.6
Total	382	89.7	45	10.3	427	

nearly all the cultivated plants are phanerophytes, afforestation starting to change wild plant life forms spectrum. Thus, vegetation of the area will change with human effects in the future.

The flora of Bağlıca campus is found very similar to the flora of Peçenek [72], and the flora of Beytepe campus [73,74], among the neighbouring areas. Geographically, these two areas are the closest to Bağlıca campus. This similarity is probably a result of the parallel vegetation and climatic properties.

Although campuses are considered as well protected areas; increased human activities in such areas (like traffic, construction or landscape activities) change the existing biodiversity. Human interactions are affecting plant diversity by altering quality of air, water and soil [84], temperature regime and rainfall patterns and also habitat fragmentation and disturbance [85]. These ecological differences will effect seed distributions and gene flow [86]. Thus, natural plant diversity will vary in disturbed areas. This kind of alteration is well documented in Beytepe Campus flora [73,74]. The observed steppe vegetation in 1973-1974 has been changed in time because of human activities [74]. Similarly, natural steppe vegetation of the research area will alter in time with increasing of human interactions. This research paper documented the natural plant diversity of Bağlıca campus before this change.

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APPENDIX

Floristic list:

SPERMATOPHYTA

GYMNOSPERMAE

EPHEDRACEAE

Ephedra major Host., (13), 11/6/2008, DT 1319; (15), 14/7/2008, DT 1424, **C.**

ANGIOSPERMAE

RANUNCULACEAE

Nigella arvensis L. var. *glauca* Boiss., (1), 10/7/2008, DT 1368; (10), 28/8/2008, DT 1517. **T.**

Delphinium peregrinum L., (16), 14/7/2008, DT 1417, **T.**

D. venulosum Boiss., (4), 26/8/2008, DT 1506; (13), 28/8/2008, DT 1547, **End. 'LC'. T.**

Consolida thirkeana (Boiss.) Schrödinger, (12), 14/7/2008, DT 1410, **End. "LC". T.**

C. orientalis (J. Gay) Schrödinger, (7), 8/6/2008, DT 1241, **T.**

C. regalis Gray. subsp. *paniculata* (Host) Soó var. *paniculata*, (1), 10/7/2008, DT 1371; (12), 14/7/2008, DT 1411, **T.**

C. raveyi (Boiss.) Schrödinger, (2), 8/6/2008, DT 1207, **End. Ir. - Tur. "LC". T.**

C. hellespontica (Boiss.) Chater, (2), 8/6/2008, DT 1206; (13), 11/6/2008, DT 1305, **T.**

Adonis aestivalis L. subsp. *aestivalis*, (2), 20/4/2008, DT 1060; (7), 8/6/2008, DT 1249, **T.**

A. flammea Jacq., (5), 26/4/2008, DT 1088; (9), 23/4/2009, DT 1704. **T.**

Ranunculus argyreus Boiss., (5), 26/4/2008, DT 1090; (4), 26/4/2008, DT 1102, **H.** (Det: Ş. Yıldırımli, A.D.Koca)

Ceratocephalus falcata (L.) Pers., (13), 23/3/2008, DT 1014; (8), 25/3/2009, DT 1596. **T.**

PAPAVERACEAE

Glaucium corniculatum (L.) Rudolph subsp. **refractum** (Náb.) Cullen, (1), 22/10/2008, DT 1551, **Ir.-Tur. T.**

G. grandiflorum Boiss. & A. Huet. var. **grandiflorum**, (8), 8/6/2008, DT 1223; (10), 17/5/2009, DT 1735, **Ir.-Tur. H.**

Papaver rhoeas L., (2), 8/6/2008, DT 1203. **T.**

P. lacerum Popov, (4), 26/4/2008, DT 1105; (10), 17/5/2009, DT 1737, **T.** (Det: B. Özüdoğru).

P. commutatum Fisch & C. A. Mey, (5), 21/4/2009, DT 1671. **T.**

P. dubium L., (10), 17/5/2009, DT 1736. **T.**

Hypecoum procumbens L., (1), 21/4/2009, DT 1638, **Medit. T.**

H. imberbe Sibth & Sm., (8), 21/4/2009, DT 1642. **T.**

Fumaria asepalia Boiss., (4), 20/4/2008, DT 1052; (2), 20/4/2008, DT 1061, **Ir. - Tur. T.**

BRASSICACEAE

Brassica elongata Ehrh., (3), 15/6/2009, DT 1995, **H.**

Sinapis arvensis L., (12), 17/5/2009, DT 1751; (14), 6/11/2008, DT 1567, **T.**

Diplotaxis tenuifolia (L.) DC., (9), 26/4/2008, DT 1122; (10), 28/8/2008, DT 1521, **H.**

***Calepina irregularis** (Asso) Thell., (9), 23/4/2009, DT 1701, **T.**

Crambe tataria Sebeök var. **tataria**, (8), 4/20/2008, DT 1077, **H.**

C. orientalis L. var. **orientalis**, (5), 26/4/2008, DT 1095; (12), 11/6/2008, DT 1291, **Ir. - Tur. H.**

Rapistrum rugosum (L.) All., (11), 11/6/2008, DT 1274; (3), 30/5/2009, DT 1800, **T.**

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

= **Conringia clavata** Boiss., (5), 21/4/2009, DT 1673, **T.**

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

= **Lepidium draba** L., (12), 11/6/2008, DT 1286; (16), 14/7/2008, DT 1420, **H.**

Isatis glauca Aucher ex Boiss. subsp. **glauca**, (8), 10/7/2008, DT 1401; (8), 15/6/2009, DT 2028, **Ir.-Tur. H.**

Iberis taurica DC.

= **Iberis simplex** DC., (5), 30/5/2009, DT 1829, **T.**

Aethionema arabicum (L.) Andr. ex DC., (8), 21/4/2009, DT 1645, **T.**

Thlaspi perfoliatum L.

= **Microthlaspi perfoliatum** (L.) F. K. Mey., (1), 19/4/2008, DT 1021; (1), 25/3/2009, DT 1592. **T.**

Capsella bursa-pastoris (L.) Medik., (1), 21/4/2009, DT 1636, **T.**

Boreava orientalis Jaub. & Spach, (8), 8/6/2008, DT 1258. **T.**

Alyssum linifolium Stephan ex Willd. var. **linifolium**, (1), 21/4/2009, DT 1629; (5), 21/4/2009, DT 1672, **T.**

A. minutum Schlecht. ex DC., (8), 21/4/2009, DT 1648. **T.**

A. minus (L.) Rothm. var. **minus**

= **Alyssum simplex** Rudolphi, (1), 21/4/2009, DT 1621. **T.**

A. strigosum Banks & Sol. subsp. **strigosum**, (1), 19/4/2008, DT 1019; (3), 20/4/2008, DT 1040, **T.**

A. pateri Nyár subsp. **pateri**, (3), 30/5/2009, DT 1808, **End. Ir. - Tur. "LC". H.**

Clypeola jonthlaspi L., (5), 21/4/2009, DT 1664, **T.**

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

= ***Draba verna*** L. subsp. **verna**, (1), 21/4/2009, DT 1634, **T.**

E. verna (L.) Chevall. subsp. **spathulata** (Láng) Walters

= ***Draba verna*** L. subsp. **spathulata** (Láng) Walters, (8), 25/3/2009, DT 1593, **T.**

Arabis nova Vill., (4), 20/4/2008, DT 1046; (1), 21/4/2009, DT 1633, **T.**

Matthiola longipetala (Vent.) DC. subsp. **bircornis** (Sibth. & Smith.) P. W. Ball, (13), 11/6/2008, DT 1318; (5), 21/4/2009, DT 1678. **T.**

Hesperis pendula DC., (9), 23/4/2009, DT 1697, **H.**

Erysimum hamosum Blanche ex Post, (5), 26/4/2008, DT 1074; (8), 26/4/2008, DT 1104, **Ir. - Tur. H.**

E. repandum L., (5), 21/4/2009, DT 1675; (9), 23/4/2009, DT 1709, **T.**

Sisymbrium altissimum L., (9), 26/4/2008, DT 1123; (1), 21/4/2009, DT 1630, **T.**

Descurainia sophia (L.) Webb ex Prantl, (3), 20/4/2008, DT 1050; (10), 17/5/2009, DT 1722, **T.**

Camelina rumelica Velen, (1), 30/5/2009, DT 1780. **T.**

C. hispida Boiss. var. **grandiflora** (Boiss.) Hedge, (5), 21/4/2009, DT 1676, **End. "LC". T.**

RESEDACEAE

Reseda lutea L. var. **lutea**, (5), 26/4/2008, DT 1093; (3), 26/4/2008, DT 1107, **T.**

R. lutea L. var. **nutans** Boiss., (5), 8/6/2008, DT 1198; (9), 8/6/2008, DT 1235, **T.**

CISTACEAE

Helianthemum nummularium (L.) Mill. subsp. **lycaonicum** Coode & Cullen, (9), 23/4/2009, DT 1710, **End. "LC". C.**

H. canum (L.) Baumg, (10), 17/5/2009, DT 1738; (3), 15/6/2009, DT 2002. **C.**

Fumana procumbens (Dun.) Gren. & Godr., (2), 8/6/2008, DT 1210; (3), 8/6/2008, DT 1187, **C.**

F. aciphylla Boiss., (3), 8/6/2008, DT 1179, **Ir. - Tur. C.**

VIOLACEAE

Viola occulta Lehm., (1), 19/4/2008, DT 1025; (1), 25/3/2009, DT 1590, **T.**

POLYGALACEAE

Polygala pruinosa Boiss. subsp. **pruinosa**, (3), 3/6/2008, DT 1162, **H.**

P. papilionaceae Boiss., (5), 30/5/2009, DT 1830, **Ir.-Tur.? H.**

CARYOPHYLLACEAE

Arenaria serpyllifolia L., (1), 21/4/2009, DT 1632; (12), 17/5/2009, DT 1740, **T.**

Minuartia hamata (Hauskn.) Mattf., (8), 30/5/2009, DT 1815, **T.**

M. anatolica (Boiss.) Woronow var. **arachnoidea** McNeill, (1), 30/5/2009, DT 1785; (13), 17/5/2009, DT 1762, **End. Ir.-Tur. "LC". H.**

M. anatolica (Boiss.) Woronow var. **lanuginosa** McNeill, (3), 26/4/2008, DT 1097, **End. Ir. - Tur. "LC". H.**

Stellaria media (L.) Vill. subsp. **media**, (9), 23/4/2009, DT 1694, **T.**

Cerastium perfoliatum L., (5), 21/4/2009, DT 1659. **T.**

C. dichotomum L. subsp. **dichotomum**, (13), 14/7/2008, DT 1431, **T.**

Holosteum umbellatum L. var. **umbellatum**, (2), 23/3/2008, DT 1012; (3), 23/3/2008, DT 1016, **T.**

H. umbellatum L. var. **glutinosum** (Bieb.) Gay, (3), 19/4/2008, DT 1037, **T.**

Dianthus anatolicus Boiss., (12), 14/7/2008, DT 1412, **End. "LC". H.**

D. micranthus Boiss. & Heldr., (3), 8/6/2008, DT 1196, **H.**

D. ancycensis Hausskn. & Bornm., (3), 15/6/2009, DT 2033, **End. Ir. - Tur. "VU". H.**

D. zonatus Fenzl var. **zonatus**, (3), 22/10/2008, DT 1556, **H.**

Gypsophila viscosa Murray, (3), 30/5/2009, DT 1805, **Ir. - Tur. T.**

G. pilosa Huds., (9), 8/6/2008, DT 1236; (13), 14/7/2008, DT 1428, **Ir. - Tur. T.**

Vaccaria pyramidata Medik. var. **grandiflora** (Fisch. ex DC.) Cullen, (13), 14/7/2008, DT 1426; (3), 30/5/2009, DT 1798, **T.**

Silene supina Bieb. subsp. **pruinosa** (Boiss.) Chowdh., (1), 3/6/2008, DT 1159, **H.**

S. conoidea L., (5), 17/5/2009, DT 1769, **T.**

ILLECEBRACEAE

Paronychia kurdica Boiss. subsp. **kurdica** var. **kurdica**, (3), 10/7/2008, DT 1402, **H.**

POLYGONACEAE

Atraphaxis billardieri Jaub. & Spach var. **billardieri**, (13), 11/6/2008, DT 1302, **Ir. - Tur. C.**

Polygonum arenastrum Boreau, (12), 28/8/2008, DT 1540, **T.**

Rumex crispus L., (11), 11/6/2008, DT 1276, **H.**

R. pulcher L., (11), 11/6/2008, DT 1277, **H.**

CHENOPODIACEAE

Chenopodium sosnowskyi Kapeller, (13), 14/7/2008, DT 1434, **Ir. - Tur. T.**

C. album L. subsp. **album** var. **album**, (1), 26/8/2008, DT 1498, **T.**

C. album L. subsp. **album** var. **microphyllum** (Boenn.) Aellen, (10), 28/8/2008, DT 1513; (13), 28/8/2008, DT 1546, **T.**

Atriplex nitens Schkuhr, (7), 22/10/2008, DT 1560, **T.**

A. lasiantha Boiss., (12), 28/8/2008, DT 1541, **T.**

Noaea mucronata (Forssk) Asch. & Schweinf. subsp. **mucronata**, (12), 14/7/2008, DT 1414, **C.**

AMARANTHACEAE

Amaranthus retroflexus L., (1), 26/8/2008, DT 1499; (10), 28/8/2008, DT 1516, **T.**

HYPERICACEAE (GUTTIFERAE)

Hypericum perforatum L., (3), 8/6/2008, DT 1183, **H.**

MALVACEAE

Malva neglecta Wallr., (13), 17/5/2009, DT 1763, **T.**

Alcea pallida Waldst. & Kit., (7), 15/6/2009, DT 2019, **H.**

LINACEAE

Linum mucronatum Bertol. subsp. **armenum** (Bordz.) P. H. Davis, (13), 11/6/2008, DT 1308, **Ir. - Tur. C.**

L. hirsutum L. subsp. **pseudoanatolicum** P. H. Davis, (1), 3/6/2008, DT 1133; (3), 8/6/2008, DT 1193, **End. Ir. - Tur. "LC". H.**

L. austriacum L. subsp. **austriacum**, (3), 26/4/2008, DT 1079; (2), 8/6/2008, DT 1200, **H.**

GERANIACEAE

Geranium tuberosum L. subsp. **tuberosum**, (4),

20/4/2008, DT 1056; (2), 20/4/2008, DT 1058, **G.**

Erodium ciconium (L.) L'Hér., (13), 6/11/2008, DT 1309, **T.** (Det: A.D. Koca).

E. cicutarium (L.) L'Hér. subsp. *cutarium*, (2), 20/4/2008, DT 1066; (4), 26/4/2008, DT 1101, **Med. T.**

ZYGOPHYLLACEAE

Tribulus terrestris L., (12), 28/8/2008, DT 1536, **T.**

Peganum harmala L., (13), 11/6/2008, DT 1300, **H.**

RUTACEAE

Haplophyllum myrtifolium Boiss., (3), 30/5/2009, DT 1804; **End. Ir. - Tur. "LC". H.**

RHAMNACEAE

Rhamnus rhodopeus Velen. subsp. *anatolicus* (Grub.) Browicz & Ziel., (5), 30/5/2009, DT 1819, **P.**

FABACEAE

Genista sessilifolia DC., (7), 8/6/2008, DT 1248; (5), 30/5/2009, DT 1836, **Ir. - Tur. C.**

Astragalus hamosus L., (7), 15/6/2009, DT 2017, **T.**

A. densifolius Lam. subsp. *densifolius*, (5), 26/4/2008, DT 1087; (8), 26/4/2008, DT 1113, **Ir. - Tur. H.**

A. microcephalus Willd., (3), 15/6/2009, DT 1966, **Ir. - Tur. C.**

A. strictifolius Boiss. var. *kutepavii* Širj., (3), 15/6/2009, DT 1965, **Ir. - Tur. C.** (Det: F. Taeb)

A. micropterus Fisch., (13), 6/7/2009, DT 2055, **End. Ir. - Tur. "LC". C.**

A. acicularis Bunge, (3), 15/6/2009, DT 1967; (3), 15/6/2009, DT 1982, **End. Ir. - Tur. "LC". C.**

A. condensatus Ledeb., (3), 8/6/2008, DT 1217, **End. Ir. - Tur. "LC". C.**

A. podperae Širj., (3), 15/6/2009, DT 1971, **Ir. - Tur. C.**

A. tmoleus Boiss. var. *baunacanthus* (Boiss.) D. F. Chamb., (3), 15/6/2009, DT 1980, **End. "LC". C.**

A. macrocephalus Willd. subsp. *macrocephalus*, (8), 10/7/2008, DT 1400, **Ir. - Tur. H.**

A. ornithopodioides Lam., (3), 26/4/2008, DT 1082; (1), 3/6/2008, DT 1154, **Ir. - Tur. H.**

A. karamasicus Boiss. & Balansa, (3), 15/6/2009, DT 1968, **End. Ir. - Tur. "LC". H.**

A. lycius Boiss., (12), 17/5/2009, DT 1746, **End. "LC". H.**

A. aduncus* Willd., (1), 3/6/2008, DT 1147; (2), 8/6/2008, DT 1209, **Ir. - Tur. H.

A. xylobasis Freyn & Bornm. var. *angustus* (Freyn & Sint.) Freyn & Bornm., (5), 30/5/2009, DT 1838; (3), 30/5/2009, DT 1838, **End. Ir. - Tur. "LC". H.**

A. elongatus Willd. subsp. *elongatus*, (3), 15/6/2009, DT 1969, **C.**

A. campylosema Boiss. subsp. *campylosema*, (3), 26/4/2008, DT 1081, **End. Ir. - Tur. "LC". C.** (Det: F. Taeb)

A. nitens Boiss., (3), 3/6/2008, DT 1164; (1), 30/5/2009, DT 1788, **Ir. - Tur. C.**

A. vulnerariae DC., (3), 10/7/2008, DT 1379, **End. "LC". C.**

Vicia cracca L. subsp. *stenophylla* Vel., (13), 11/6/2008, DT 1312, **H.**

V. villosa Roth subsp. *eriocarpa* (Hauskn.) P. W. Ball, (12), 17/5/2009, DT 1742, **H.**

V. sativa L. subsp. *nigra* (L.) Ehrh. var. *nigra*, (12), 17/5/2009, DT 1745; (11), 11/6/2008, DT 1273, **T.**

Pisum sativum L. subsp. *elatius* (M. Bieb.) Asch. & Graebn. var. *pumilio* Meikle, (17), 17/5/2009, DT 1764, **T.**

Trifolium repens L. var. **repens**, (12), 11/6/2008, DT 1281, **H.**

T. fragiferum L. var. **fragiferum**, (12), 28/8/2008, DT 1532, **H.**

T. pratense L. var. **pratense**, (12), 17/5/2009, DT 1747, **H.**

Melilotus officinalis (L.) Desr., (1), 3/6/2008, DT 1140, **H.**

M. alba Desr., (11), 6/7/2009, DT 2042, **H.**

Trigonella aurantiaca Boiss., (5), 30/5/2009, DT 1831; (7), 15/6/2009, DT 2015, **Ir. - Tur. T.**

T. coerulescens (M. Bieb.) Halácsy, (12), 17/5/2009, DT 1744, **Ir. - Tur. T.** (Det: F. Taeb).

Medicago sativa L. subsp. **sativa**, (3), 3/6/2008, DT 1173; (1), 26/8/2008, DT 1488, **H.**

M. x varia Martyn, (10), 11/6/2008, DT 1271, **H.**

M. minima (L.) Bartal var. **minima**, (1), 30/5/2009, DT 1778, **T.**

Lotus corniculatus L. var. **corniculatus**, (12), 14/7/2008, DT 1405, **H.** (Det: B. Özüdođru).

L. aegaeus (Griseb.) Boiss., (12), 11/6/2008, DT 1280, **Ir. - Tur.? H.**

Coronilla varia L. subsp. **varia**, (7), 8/6/2008, DT 1244; (10), 11/6/2008, DT 1270. **H.**

Hedysarum varium Willd., (1), 3/6/2008, DT 1155; (3), 8/6/2008, DT 1197, **Ir. - Tur. H.**

H. cappadocicum Boiss., (3), 3/6/2008, DT 1163; (4), 8/6/2008, DT 1211, **End. Ir. - Tur. "LC". H.**

Onobrychis armena Boiss. & A. Huet., (1), 3/6/2008, DT 1141, **End. "LC". H.**

O. oxyodonta Boiss., (1), 3/6/2008, DT 1146; (12), 11/6/2008, DT 1289. **H.**

O. hypargyrea Boiss., (4), 8/6/2008, DT 1178; (3), 10/7/2008, DT 1378, **H.**

O. tournefortii (Willd.) Desv., (3), 15/6/2009, DT 1984, **End. "LC". H.**

Alhagi pseudalhagi (M. Bieb.) Desv., (1), 10/7/2008, DT 1374, **Ir. - Tur. C.**

ROSACEAE

C. mahaleb (L.) Mill. var. **mahaleb**, (5), 21/4/2009, DT 1666, **P.** (Det: A. A. Dönmez).

Potentilla recta L., (7), 8/6/2008, DT 1246; (8), 15/6/2009, DT 2030, **H.**

Sanguisorba minor Scop. subsp. **muricata** (Spach) Briq., (1), 30/5/2009, DT 1784, **H.**

Rosa canina L., (8), 8/6/2008, DT 1260, **P.**

Crataegus orientalis Pall. ex M. Bieb var. **orientalis**, (5), 30/5/2009, DT 1835, **P.** (Det: A. A. Dönmez).

C. curvisepala Lindman

= **C. rhipidophylla** Gand., (12), 6/7/2009, DT 2048, **P.** (Det: A. A. Dönmez).

CRASSULACEAE

Sedum urvillei DC., (8), 15/6/2009, DT 2027, **C.**

APIACEAE

Eryngium bithynicum Boiss., (1), 10/7/2008, DT 1369, **End. Ir. - Tur. "LC". H.**

E. campestre L. var. **virens** Link, (1), 26/8/2008, DT 1486, **H.**

Echinophora tournefortii Jaub. & Spach, (12), 14/7/2008, DT 1413; (3), 26/8/2008, DT 1503, **Ir. - Tur. H.**

E. tenuifolia L. subsp. **sibthorpiana** (Guss.) Tutin, (12), 28/8/2008, DT 1542, **Ir. - Tur.? H.**

Scandix stellata Banks & Sol., (3), 26/4/2008, DT 1098; (13), 17/5/2009, DT 1770, **T.**

Bifora radians M. Bieb., (7), 8/6/2008, DT 1243; (13), 17/5/2009, DT 1756, **T.**

Seseli tortuosum L., (1), 26/8/2008, DT 1491, **H.**
(Det: A. A. Dönmez).

Conium maculatum L., (3), 15/6/2009, DT 2023, **H.**

Bupleurum sulphureum Boiss. & Balansa, (3),
10/7/2008, DT 1383; (12), 6/7/2009, DT 2047, **End.**
Ir. - Tur. "LC". T.

B. turcicum Snogerup, (12), 14/7/2008, DT 1415, **End.**
Ir. - Tur. "NT". T.

Falcaria vulgaris Bernh., (1), 10/7/2008, DT 1373;
(13), 6/7/2009, DT 2059, **H**

Malabaila secacul Banks & Sol., (3), 8/6/2008, DT
1222, **H.**

Torilis leptophylla (L.) Rchb.f., (1), 30/5/2009, DT
1790, **T.**

Turgenia latifolia (L.) Hoffm., (1), 3/6/2008, DT 1134;
(7), 8/6/2008, DT 1250, **T.**

D. guttatus Sm., (12), 14/7/2008, DT 1407, **T.**

RUBIACEAE

Asperula bornmuelleri Velen., (3), 8/6/2008, DT
1181; (3), 10/7/2008, DT 1403, **End. Ir. - Tur. C.**

A. arvensis L., (3), 26/4/2008, DT 1112; (10),
11/6/2008, DT 1262, **T.**

Galium verum L. subsp. **verum**, (13), 6/7/2009, DT
2060, **Euro - Sib. H.**

G. incanum Sm. subsp. **elatus** (Boiss.) Ehrend., (1),
3/6/2008, DT 1143; (16), 30/5/2009, DT 1817, **Ir. -**
Tur. H.

Cruciata taurica (Pall. ex Willd.) Ehrend., (1),
19/4/2008, DT 1018; (12), 17/5/2009, DT 1741, **Ir. -**
Tur. H.

VALERIANACEAE

Valerianella coronata (L.) DC., (13), 11/6/2008, DT
1317, **T.**

V. vesicaria (L.) Moench, (1), 30/5/2009, DT 1773;
(13), 17/5/2009, DT 1760, **T.**

MORINACEAE

Morina persica L., (5), 30/5/2009, DT 1840, **Ir. - Tur.**
H.

DIPSACACEAE

Cephalaria syriaca (L.) Schrad., (12), 28/8/2008, DT
1531, **T.**

Scabiosa argentea L., (11), 11/6/2008, DT 1278; (12),
14/7/2008, DT 1406, **H.**

S. rotata M. Bieb., (1), 3/6/2008, DT 1157; (1),
30/5/2009, DT 1795, **Ir. - Tur. T.**

ASTERACEAE

Xanthium spinosa L., (12), 6/7/2009, DT 2049, **T.**

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

= **X. orientale** L. subsp. **italicum** (Moretti) Greuter, (1),
22/10/2008, DT 1554, **T.**

Inula germanica L., (3), 10/7/2008, DT 1384, **Euro -**
Sib. G.

Helichrysum arenarium (L.) Moench subsp. **aucheri**
(Boiss.) P. H. Davis & Kupicha, (3), 26/8/2008, DT
1502, **End.? Ir. - Tur. "LC". H.**

Senecio vulgaris L., (1), 21/4/2009, DT 1623, **T.**

S. vernalis Waldst. & Kit.

= **S. leucanthemifolius** Poir. subsp. **vernalis**
(Waldst. & Kit.) Greuter, (2), 20/4/2008, DT 1068; (3),
3/6/2008, DT 1166, **T.**

Anthemis fumariifolia Boiss., (9), 23/4/2009, DT
1715, **End. Ir. - Tur. "LC". T.**

A. tinctoria L. var. **tinctoria**, (7), 8/6/2008, DT 1247;
(5), 30/5/2009, DT 1833, **H.**

- A. tinctoria** L. var. **pallida** DC., (3), 8/6/2008, DT 1182; (10), 11/6/2008, DT 1267, **H.**
- A. austriaca** Jacq., (1), 30/5/2009, DT 1796, **T.**
- Achillea phrygia** Boiss. & Balansa, (1), 3/6/2008, DT 1129; (3), 3/6/2008, DT 1165, **End. Ir. - Tur. H.**
- Artemisia austriaca** Jacq., (1), 22/10/2008, DT 1550, **H.**
- Cousinia stapfiana** Freyn & Sint., (3), 10/7/2008, DT 1381, **End. Ir. - Tur. "LC". C.**
- Onopordum turcicum** Danin, (8), 10/7/2008, DT 1389; (10), 28/8/2008, DT 1514, **Ir. - Tur. H.**
- Cirsium alatum** (S. G. Gmel.) Bobrov subsp. **alatum**, (12), 28/8/2008, DT 1539, **Ir. - Tur. H.**
- C. arvense** (L.) Scop. subsp. **vestitum** (Wimm. & Grab.) Petr., (12), 11/6/2008, DT 1287; (7), 10/7/2008, DT 1396, **H.**
- Carduus nutans** L. **nutans** sensu lato, (3), 8/6/2008, DT 1199, **H.**
- C. pycnocephalus** L. subsp. **albicus** (M. Bieb.) Kazmi, (1), 3/6/2008, DT 1160, **T.**
- Centaurea coronopifolia** Lam., (5), 30/5/2009, DT 1839, **Ir. - Tur. T.**
- C. virgata** Lam., (1), 10/7/2008, DT 1370, **Ir. - Tur. H.**
- C. patula** DC., (13), 11/6/2008, DT 1295, **Ir. - Tur. T.**
- C. drabifolia** Sm. subsp. **detonsa** (Bornm.) Wagenitz, (13), 11/6/2008, DT 1311; (3), 10/7/2008, DT 1380, **H.**
- C. solstitialis** L. subsp. **solstitialis**, (11), 11/6/2008, DT 1272; (1), 10/7/2008, DT 1367, **T.**
- C. iberica** Trev. ex Spreng., (12), 28/8/2008, DT 1538, **H.**
- C. urvillei** DC. subsp. **stepposa** Wagenitz, (1), 3/6/2008, DT 1156, **Ir. - Tur. H.**
- C. carduiformis** DC. subsp. **carduiformis** var. **carduiformis**, (8), 15/6/2009, DT 2003, **H.**
- C. triumfettii** All., (3), 26/4/2008, DT 1103, **H.**
- C. depressa** M. Bieb., (1), 3/6/2008, DT 1131; (3), 3/6/2008, DT 1174, **T.**
- Crupina crupinastrum** (Moris) Vis., (1), 3/6/2008, DT 1126; (3), 8/6/2008, DT 1176, **T.**
- Carthamus persicus** Willd., (8), 5/8/2009, DT 2122, **Ir. - Tur. T.**
- Xeranthemum annuum** L., (3), 10/7/2008, DT 1382; (10), 28/8/2008, DT 1518, **T.**
- Chardinia orientalis** (L.) Kuntze, (7), 15/6/2009, DT 2021, **Ir. - Tur. T.**
- Echinops ritro** L., (1), 10/7/2008, DT 1363; (3), 26/8/2008, DT 1504, **H.**
- E. pungens** Trautv. var. **pungens**, (12), 28/8/2008, DT 1544, **Ir. - Tur. H.**
- Scolymus hispanicus** L., (8), 10/7/2008, DT 1390; (12), 6/7/2009, DT 2050, **Medit. H.**
- Cichorium intybus** L., (1), 26/8/2008, DT 1501, **H.**
- Scorzonera suberosa** C. Koch subsp. **suberosa**, (9), 23/4/2009, DT 1719, **Ir. - Tur. G.**
- S. mollis** Bieb. subsp. **szowitzii** (DC.) D. F. Chamb., (5), 21/4/2009, DT 1652; (9), 23/4/2009, DT 1718, **Ir. - Tur. H.**
- S. tomentosa** L., (3), 15/6/2009, DT 2022, **End. Ir. - Tur. "LC". G.**
- Tragopogon dubius** Scop., (3), 8/6/2008, DT 1195; (1), 3/6/2008, DT 1161, **H.**
- Leontodon asperrimus** (Willd.) Ball, (8), 15/6/2009, DT 1996, **Ir. - Tur. H.**
- L. crispus** Vill. subsp. **asper** (Waldst. & Kit.) Rohlena var. **asper**, (3), 30/5/2009, DT 1799, **H.**
- Picris strigosa** M. Bieb. subsp. **strigosa**, (10), 28/8/2008, DT 1528, **Ir. - Tur. H.**
- Sonchus asper** (L.) Hill subsp. **glaucescens** (Jord.) Ball, (10), 6/11/2008, DT 1562; (8), 15/6/2009, DT 1977, **T.**

Lactuca serriola L., (10), 28/8/2008, DT 1525; (12), 28/8/2008, DT 1543, **Euro. - Sib. H.**

Scariola viminea (L.) F.W. Schmidt, (3), 26/8/2008, DT 1505, **H.**

Taraxacum microcephaloides Soest, (18), 28/3/2009, DT 1615; (9), 23/4/2009, DT 1696, **H.**

T. serotinum (Waldst. & Kit.) Poir., (6), 22/10/2008, DT 1558; (12), 28/8/2008, DT 1537, **H.**

Chondrilla juncea L. var. **juncea**, (1), 26/8/2008, DT 1496, **H.**

Crepis macropus Boiss. & Heldr., (3), 8/6/2008, DT 1218, **End. Ir. - Tur. "LC". H.**

C. foetida L. subsp. **rheadifolia** (M. Bieb.) Čelak, (1), 22/10/2008, DT 1553, **T.**

C. sancta (L.) Babç., (5), 21/4/2009, DT 1686; (9), 23/4/2009, DT 1702, **T.**

CAMPANULACEAE

Asyneuma limonifolium (L.) Janch. subsp. **pestalozzae** (Boiss.) Damboldt, (3), 8/6/2008, DT 1257, **End. "LC". H.**

PRIMULACEAE

Androsace maxima L., (1), 19/4/2008, DT 1027; (3), 20/4/2008, DT 1047, **T.**

Anagallis arvensis L. subsp. **caerulea** (L.) Gouan, (13), 11/6/2008, DT 1307, **T.**

OLEACEAE

Jasminum fruticans L., (8), 15/6/2009, DT 2024, **Medit. P.**

APOCYNACEAE

Vinca herbacea Waldst. & Kit., (2), 20/4/2008, DT 1062; (5), 21/4/2009, DT 1674, **H.**

GENTIANACEAE

Centaurium pulchellum (Sw.) Druce, (12), 6/7/2009, DT 2046, **T.**

CONVOLVULACEAE

Convolvulus lineatus L., (1), 3/6/2008, DT 1144, **H.**

C. holosericeus Bieb. subsp. **holosericeus**, (1), 3/6/2008, DT 1145; (3), 3/6/2008, DT 1172, **H.**

C. assyricus Griseb., (5), 26/4/2008, DT 1092; (8), 20/4/2008, DT 1076, **End. Ir. - Tur. "LC". C.**

C. arvensis L., (10), 11/6/2008, DT 1264; (7), 22/10/2008, DT 1559, **H.**

C. galaticus Rostan ex Choisy, (10), 11/6/2008, DT 1263; (11), 6/7/2009, DT 2041, **End. Ir. - Tur. "LC". H.**

CUSCUTACEAE

Cuscuta palaestina Boiss. subsp. **balansae** (Yunck.) Plitmann, (2), 8/6/2008, DT 1202, **Pa.**

BORAGINACEAE

Heliotropium suavelens M. Bieb., (1), 26/8/2008, DT 1489; (10), 28/8/2008, DT 1535, **Medit. T.**

Lappula barbata (M. Bieb.) Gürke, (3), 3/6/2008, DT 1167; (1), 30/5/2009, DT 1793, **Ir. - Tur. H.**

Asperugo procumbens L., (9), 23/4/2009, DT 1793, **Euro. - Sib. T.**

Myosotis stricta Link ex Roem. & Schult., (1), 19/4/2008, DT 1026; (5), 20/4/2008, DT 1070, **Euro. -Sib. T.**

M. refracta Boiss. subsp. **refracta**, (8), 21/4/2009, DT 1641, **Medit. T.**

Paracaryum incanum (Ledeb.) Boiss., (15), 14/7/2008, DT 1425, **Ir. - Tur. H.** (Det: A. D. Koca)

Buglossoides arvensis (L.) I. M. Johnst., (1), 19/4/2008, DT 1020; (3), 20/4/2008, DT 1045, **T.**

Echium italicum L., (12), 28/8/2008, DT 1530, **Medit.? H.**

Moltkia coerulea (Willd.) Lehm., (3), 20/4/2008, DT 1049; (5), 26/4/2008, DT 1096, **Ir. - Tur. H.**

M. aurea Boiss., (8), 20/4/2008, DT 1078, **End., Ir. - Tur. "LC". H.**

Onosma tauricum Pall. ex Willd. var. ***tauricum***, (3), 26/4/2008, DT 1115; (13), 17/5/2009, DT 1765, **H.**

O. armenum DC., (12), 11/6/2008, DT 1293, **End."LC". H.**

Cerintho minor L. subsp. ***auriculata*** (Ten.) Domac, (7), 15/6/2009, DT 2013. **H.**

Anchusa leptophylla Roem. & Schult. subsp. ***leptophylla***, (12), 11/6/2008, DT 1282; (10), 17/5/2009, DT 1721, **H.**

A. undulata L. subsp. ***hybrida*** (Ten.) Cout., (9), 26/4/2008, DT 1120, **Medit. H.**

A. azurea Mill. var. ***azurea***, (8), 8/6/2008, DT 1237; (12), 11/6/2008, DT 1292, **H.**

A. pusilla Guşul., (1), 21/4/2009, DT 1622; (5), 21/4/2009, DT 1657, **T.**

SOLANACEAE

Solanum dulcamara L., (8), 10/7/2008, DT 1386; (5), 26/8/2008, DT 1508, **Euro. - Sib. H.**

Hyoscyamus niger L., (13), 11/6/2008, DT 1297, **H.**

SCROPHULARIACEAE

Verbascum stachydifolium Boiss. & Heldr. var. ***adpersum*** (Freyne & Sint.) Murb., (7), 15/6/2009, DT 2016, **End. Ir. - Tur."VU". H.**

V. ancyritanum Bornm., (11), 6/7/2009, DT 2040; (10), 6/7/2009, DT 2038, **End. Ir. - Tur. "NT". H.**

V. cherianthifolium Boiss. var. ***asperulum*** (Boiss.) Murb., (13), 6/7/2009, DT 2061, **End."LC". H.**

Scrophularia xanthoglossa Boiss. var. ***decipiens*** (Boiss. & Kotschy) Boiss., (1), 30/5/2009, DT 1777, **Ir. - Tur. H.**

Linaria corifolia Desf., (3), 30/5/2009, DT 1803, **End. Ir. - Tur. "LC". H.**

L. kurdica Boiss. & Hohen. subsp. ***kurdica***, (3), 10/7/2008, DT 1398, **Ir. - Tur. H.**

L. simplex (Willd.) DC., (1), 21/4/2009, DT 1628, **Medit.? T.**

Veronica grisebachii Walters, (5), 21/4/2009, DT 1682, **E. Medit. T.**

V. praecox All., (5), 21/4/2009, DT 1681; (9), 23/4/2009, DT 1714, **T.**

V. triphyllos L., (1), 19/4/2008, DT 1028; (7), 25/3/2009, DT 1604, **T.**

V. polita Fr., (9), 23/4/2009, DT 1713, **T.**

V. triloba (Opiz) Kerner, (7), 25/3/2009, DT 1605; (10), 28/2/2009, DT 1575. **T.**

V. hederifolia L., (18), 28/3/2009, DT 1616; (1), 25/3/2009, DT 1591, **T.**

V. pectinata L. var. ***pectinata***, (13), 17/5/2009, DT 1771; (3), 15/6/2009, DT 2026, **H.**

V. multifida L., (9), 26/4/2008, DT 1119; (12), 17/5/2009, DT 1749, **End. Ir. - Tur. "LC". H.**

Bunaea trifida (Vahl) C. A. Mey., (13), 6/7/2009, DT 2057, **Ir. - Tur., H.**

OROBANCHACEAE

Orobanche nana Noë ex G. Beck, (5), 30/5/2009, DT 1818, **Pa.** (Det: G. Zare).

O. cernua Loefl., (12), 11/6/2008, DT 1294. **Pa.**

O. minor Sm., (8), 10/7/2008, DT 1392, **Pa.** (Det: G. Zare).

O. anatolica Boiss. & Reut., (13), 17/5/2009, DT 1772, **Pa.** (Det: G. Zare).

ACANTHACEAE

Acanthus hirsutus Boiss., (3), 8/6/2008, DT 1259, End. "LC". H.

GLOBULARIACEAE

Globularia orientalis L., (1), 3/6/2008, DT 1130; (3), 8/6/2008, DT 1189, Ir. - Tur. C.

LAMIACEAE

Ajuga salicifolia (L.) Schreb., (3), 8/6/2008, DT 1194, Ir. - Tur. H.

A. chamaepitys (L.) Schreb. subsp. *chia* (Schreb.) Arcang. var. *chia*, (13), 17/5/2009, DT 1757, H.

Teucrium chamaedrys L. subsp. *chamaedrys*, (13), 11/6/2008, DT 1310; (9), 15/6/2009, DT 2011, Euro. - Sib. C.

T. polium L., (3), 10/7/2008, DT 1375; (1), 26/8/2008, DT 1497. C.

Scutellaria orientalis L. subsp. *pinnatifida* Edm., (12), 11/6/2008, DT 1284; (3), 30/5/2009, DT 1807, H.

Phlomis pungens Willd. var. *pungens*, (12), 11/6/2008, DT 1283; (13), 11/6/2008, DT 1299, H.

P. pungens Willd. var. *laxiflora* Velen., (13), 6/7/2009, DT 2058, H.

P. armeniaca Willd., (8), 8/6/2008, DT 1227, Endemik, Ir. - Tur. "LC". C.

Lamium amplexicaule L., (2), 20/4/2008, DT 1059; (9), 23/4/2009, DT 1695, Euro. - Sib. T.

Wiedemannia orientalis Fisch. & C. A. Mey., (9), 26/4/2008, DT 1118, End. Ir. - Tur. "LC". T.

Moluccella laevis L., (16), 14/7/2008, DT 1416, Ir. - Tur. T.

Marrubium parviflorum Fisch. et C. A. Mey. subsp. *oligodon* (Boiss.) Seybold, (1), 10/7/2008, DT 1364, End. "LC". H.

M. trachyticum Boiss., (12), 11/6/2008, DT 1288; (10), 17/5/2009, DT 1733, End. Ir. - Tur. H.

Sideritis montana L. subsp. *montana*, (1), 30/5/2009, DT 1792, Medit. T.

Stachys cretica L. subsp. *anatolica* Rech.f., (8), 10/7/2008, DT 1388, End. Ir. - Tur.? "LC". H.

S. byzantina C. Koch, (3), 8/6/2008, DT 1186; (1), 3/6/2008, DT 1158, Euro. - Sib. H.

S. lavandulifolia Vahl var. *lavandulifolia*, (3), 15/6/2009, DT 2025, Ir. - Tur. H.

Acinos rotundifolius Pers., (13), 17/5/2009, DT 1754, T.

Thymus leucostomus Hausskn & Velen. var. *leucostomus*, (3), 3/6/2008, DT 1169; (1), 3/6/2008, DT 1142, End. Ir. - Tur. "NT". K.

T. longicaulis C. Persl subsp. *longicaulis* var. *subisophyllus* (Borbás) Jalas, (3), 30/5/2009, DT 1802; (1), 30/5/2009, DT 1775, C.

Ziziphora capitata L., (1), 30/5/2009, DT 1774; (3), 15/6/2009, DT 1975, Ir. - Tur. T.

Z. tenuior L., (2), 8/6/2008, DT 1201, Ir. - Tur. T.

Salvia tchihatcheffii (Fisch. & C. A. Mey) Boiss., (5), 30/5/2009, DT 1832, End. Ir. - Tur. "LC". H.

S. cadmica Boiss., (8), 26/4/2008, DT 1111; (13), 17/5/2009, DT 1768, End. "LC". H.

S. multicaulis Vahl, (8), 26/4/2008, DT 1110; (1), 19/4/2008, DT 1024, Ir. - Tur. H. (Det: F. Celep.)

S. cryptantha Montbret & Aucher ex Benth.

= *S. absconditiflora* Greuter & Burnet, (3), 26/4/2008, DT 1085; (1), 3/6/2008, DT 1135, End. Ir. - Tur. "LC". H.

S. viridis L., (2), 8/6/2008, DT 1208, Medit. T.

S. aethiopis L., (13), 11/6/2008, DT 1296. H.

S. yosgadensis Freyn & Bornm., (8), 15/6/2009, DT 2029, End. Ir. - Tur. "LC". H.

S. candidissima Vahl subsp. *candidissima*, (13), 11/6/2008, DT 1298; (3), 15/6/2009, DT 1985, Ir. - Tur. H. (Det: F. Celep)

S. candidissima Vahl subsp. **occidentalis** Hedge, (3), 10/7/2008, DT 1376, **Ir. - Tur. H.**

S. virgata Jacq., (8), 10/7/2008, DT 1394, **Ir. - Tur. H.**

S. dichroantha Stapf, (8), 10/7/2008, DT 1387, **End. Ir. - Tur. "LC". H.** (Det: F. Celep).

PLUMBAGINACEAE

Plumbago europaea L., (12), 28/8/2008, DT 1533, **Euro. - Sib. H.**

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

= **Acantholimon acerosum** (Willd.) Boiss. subsp. **acerosum** var. **acerosum**, (8), 10/7/2008, DT 1392, **Ir. - Tur. C.**

PLANTAGINACEAE

Plantago lanceolata L., (5), 26/8/2008, DT 1507; (13), 6/7/2009, DT 2054, **H.**

SANTALACEAE

Thesium arvense Horv., (3), 20/4/2008, DT 1053, **Euro. - Sib. Pa.**

T. billardieri Boiss., (3), 15/6/2009, DT 1993, **Ir. - Tur. Pa.**

EUPHORBIACEAE

Mercurialis annua L., (13), 6/7/2009, DT 2056, **T.**

Euphorbia chamaesyce L.

= **Chamaesyce canescens** (L.) Prokh., (5), 26/8/2008, DT 1509; (10), 28/8/2008, DT 1519. **T.** (Det: H. Altınözülü & B. Özüdoğru)

E. cardiophylla Boiss. & Heldr., (5), 20/4/2008, DT 1072; (9), 23/4/2009, DT 1717, **End. "LC". G.**

E. helioscopia L., (1), 19/4/2008, DT 1023, **T.**

E. ledebourii Boiss., (5), 21/4/2009, DT 1653, **T.**

E. falcata L. subsp. **falcata** var. **falcata**, (7), 15/6/2009, DT 2020, **T.**

E. macroclada Boiss., (12), 14/7/2008, DT 1408; (5), 30/5/2009, DT 1823, **Ir. - Tur. H.**

ULMACEAE

Ulmus minor Mill. subsp. **minor**, (5), 30/5/2009, DT 1820, **P.**

LILIACEAE

Allium paniculatum L. subsp. **paniculatum**, (8), 8/6/2008, DT 1239, **Medit. G.**

A. scorodoprasum L. subsp. **rotundum** (L.) Stearn, (1), 3/6/2008, DT 1153; (4), 8/6/2008, DT 1220, **Medit. G.**

Ornithogalum narbonense L., (4), 26/4/2008, DT 1100; (5), 30/5/2009, DT 1834, **Medit. G.**

O. oligophyllum E. D. Clarke, (3), 19/4/2008, DT 1030. **G.**

O. ulophyllum Hand. - Mazz., (8), 30/5/2009, DT 1813, **G.**

O. orthophyllum Ten., (9), 23/4/2009, DT 1703, **G.**

Muscari longipes Boiss., (4), 8/6/2008, DT 1221; (13), 17/5/2009, DT 1758, **Ir. - Tur. G.**

M. neglectum Guss., (8), 23/3/2008, DT 1017; (15), 28/3/2009, DT 1614. **G.**

Hyacinthella micrantha (Boiss.) Chouard, (7), 25/3/2009, DT 1607, **End. Ir. - Tur. "NT". G.**

Fritillaria fleischeriana Steud. & Hochst. ex Schult. & Schult.f., (3), 26/4/2008, DT 1106; (5), 21/4/2009, DT 1656, **End. Ir. - Tur. "LC". G.**

Gagea bohémica (Zauschn.) Schult. & Schult.f., (1), 25/3/2009, DT 1588, **G.**

G. peduncularis (J. & C. Presl) Pascher, (1), 23/3/2008, DT 1010; (2), 23/3/2008, DT 1011, **Medit. G.**

G. granatellii (Parl.) Parl., (6), 25/3/2009, DT 1600; (14), 28/3/2009, DT 1611; **Medit. G.**

Colchicum triphyllum Kunze, (9), 7/3/2008, DT 1000; (5), 3/2/2009, DT 1569, **Medit. G.**

Merendera attica (Spruner) Boiss. et Spruner, (9), 7/3/2008, DT 1001; (6), 3/2/2009, DT 1571, **E. Medit. G.**

IRIDACEAE

Crocus ancyrensis (Herb.) Maw, (8), 7/3/2008, DT 1002, **End. Ir. - Tur. "LC". G.**

C. danfordiae Maw, (8), 3/2/2009, DT 1572; (13), 28/2/2009, DT 1581, **End. "LC". G.**

C. olivieri Gay subsp. **olivierii**, (6), 25/3/2009, DT 1598; (7), 25/3/2009, DT 1606, **G.**

Gladiolus atroviolaceus Boiss., (13), 17/5/2009, DT 1752, **Ir. - Tur. G.**

POACEAE

Agropyron cristatum (L.) Gaertn. subsp. **pectinatum** (M. Bieb.) Tzvelev var. **pectinatum**, (8), 8/6/2008, DT 1233, **H.**

Amblyopyrum muticum (Boiss.) Eig var. **muticum**, (13), 14/7/2008, DT 1430, **T.**

A. muticum (Boiss.) Eig var. **loliaceum** (Jaub. & Spach) Eig, (2), 8/6/2008, DT 1205, **End. "LC". T.**

Aegilops cylindrica Host, (1), 3/6/2008, DT 1148, **Ir. - Tur. T.**

A. triuncialis L. subsp. **triuncialis**, (1), 3/6/2008, DT 1137, **T.**

Hordeum murium L. subsp. **glaucum** (Steud.) Tzvelev, (1), 3/6/2008, DT 1152, **T.**

H. bulbosum L., (7), 8/6/2008, DT 1251, **G.**

Taeniatherum caput-medusae Nevski subsp. **crinitum** (Schreb.) Melderis, (3), 15/6/2009, DT 1991, **Ir. - Tur. T.**

Bromus japonicus Thunb. subsp. **japonicus**, (3), 15/6/2009, DT 1990, **T.**

B. sterilis L., (10), 11/6/2008, DT 1261, **T.**

B. tomentellus Boiss.

= **Bromopsis tomentella** (Boiss.) Holub, (13), 17/5/2009, DT 1761; (3), 30/5/2009, DT 1806, **Ir. - Tur. H.**

Avena sativa L., (9), 15/6/2009, DT 2009, **T.**

Koeleria cristata (L.) Pers., (13), 11/6/2008, DT 1313, **H.**

Alopecurus arundinaceus Poir., (12), 17/5/2009, DT 1748, **Euro. - Sib. G.**

A. myosuroides Huds. var. **myosuroides**, (10), 17/5/2009, DT 1726, **Euro. - Sib. T.**

Phleum exaratum Hochst. ex Griseb. subsp. **exaratum**, (8), 30/5/2009, DT 1810, **T.**

Festuca anatolica Markgr.-Dann. subsp. **anatolica**, (1), 3/6/2008, DT 1139; (13), 17/5/2009, DT 1755, **End. "LC". H.**

Poa bulbosa L., (5), 21/4/2009, DT 1683; (10), 17/5/2009, DT 1724, **G.**

Dactylis glomerata L. subsp. **hispanica** (Roth) Nyman, (3), 15/6/2009, DT 1973, **H.**

Briza humilis M. Bieb., (3), 15/6/2009, DT 1989, **T.**

Echinaria capitata (L.) Desf., (5), 20/4/2008, DT 1069, **T.**

Melica ciliata L. subsp. **ciliata**, (3), 10/7/2008, DT 1399; (13), 14/7/2008, DT 1429, **G.**

Stipa capillata L., (3), 8/6/2008, DT 1215, **H.**

S. lessingiana Trin. & Rupr., (8), 30/5/2009, DT 1811, **H.**

Phragmites australis (Cav.) Trin. ex Steud., (7), 8/6/2008, DT 1256, **Euro. - Sib. H.**

Cynodon dactylon (L.) Pers var. **villosus** Regel, (13), 28/8/2008, DT 1545, **H.**

Setaria viridis (L.) P. Beauv., (1), 26/8/2008, DT 1493, **T.**

Bothriochloa ischaemum (L.) Keng, (1), 26/8/2008, DT 1500; (10), 28/8/2008, DT 1526, **H.**

Cultivated species:

ACERACEAE

Acer negundo L., (1), 26/8/2008, DT 1487; (5), 21/4/2009, DT 1658, **Cult. P.**

ANACARDIACEAE

Cotinus coggyria Scop., (10), 28/8/2008, DT 1520, **Cult. P.**

APIACEAE

Daucus carota L., (12), 6/7/2009, DT 2044, **Cult. H.**

ARALIACEAE

Hedera helix L., (9), 23/4/2009, DT 1692, **Cult. P.**

BERBERIDACEAE

Berberis vulgaris L., (1), 26/8/2008, DT 1484, **Cult. C.**

BETULACEAE

Betula verrucosa Youngii, (10), 6/7/2009, DT 2037, **Cult. P.**

CAPRIFOLIACEAE

Lonicera etrusca Santi, (10), 15/6/2009, DT 2005, **Cult. P.**

Symphoricarpus albus S. F. Blake, (10), 28/8/2008, DT 1511, **Cult. P.**

CUPRESSACEAE

Cupressus sempervirens L., (11), 28/2/2009, DT 1576; (13), 28/2/2009, DT 1580, **Cult. P.**

C. arizonica Greene, (11), 28/2/2009, DT 1577; (13), 28/2/2009, DT 1579, **Cult. P.**

Juniperus sabina L., (10), 6/7/2009, DT 2034, **Cult. C.**

Thuja orientalis L., (10), 28/8/2008, DT 1524; (10) 23/4/2009, DT 1687, **Cult. P.** (Det: Ş. Yıldırımli, H. Altınözlü)

ELAEAGNACEAE

Elaeagnus angustifolia L., (8), 5/8/2009, DT 2122, **Cult. P.**

FABACEAE

Cercis siliquastrum L., (10), 17/5/2009, DT 1729, **Cult. P.**

Laburnum anagyroides Medik., (10), 17/5/2009, DT 1730, **Cult. P.**

Robinia pseudoacacia L., (1), 30/5/2009, DT 1779, **Cult. P.**

HIPPOCASTANACEAE

Aesculus hippocastanum L., (10), 17/5/2009, DT 1732, **Cult. P.**

A. x carnea P. Watson, (18), 17/5/2009, DT 1766, **Cult. P.**

MORACEAE

Morus alba L., (10), 17/5/2009, DT 1728, **Cult. P.**

OLEACEAE

Forsythia x intermedia Zab, (9), 23/4/2009, DT 1691, **Cult. P.**

Fraxinus angustifolia Vahl subsp. *angustifolia*, (10), 28/8/2008, DT 1515; (18), 28/3/2009, DT 1618, **Cult. P.**

Ligustrum vulgare L., (9), 15/6/2009, DT 2004, **Cult. P.**

Syringa vulgaris L., (9), 23/4/2009, DT 1688, **Cult. P.**

PINACEAE

Cedrus libani A. Rich, (10), 8/28/2008, DT 1523, **Cult. P.**

Picea abies (L.) Karsten subsp. *abies*, (18), 28/3/2009, DT 1617, **Cult. P.**

P. engelmannii Parry ex Engelm., (18), 28/3/2009, DT 1619, **Cult. P.**

Pinus nigra J. F. Arnold subsp. *nigra* J. F. Arnold var. *caramanica* (Loudon.) Rehder, (10), 28/2/2009, DT 1574, **Cult. P.**

PLATANACEAE

Platanus orientalis L., (10), 28/8/2008, DT 1510, **Cult. P.**

POACEAE

Sorghum bicolor (L.) Moench, (16), 14/7/2008, DT 1422, **Cult?. T.**

Triticum aestivum L., (13), 11/6/2008, DT 1301; (12), 17/5/2009, DT 1743. **Cult. T.**

Zea mays L., (13), 6/7/2009, DT 2051, **Cult. T.**

ROSACEAE

Amygdalus communis L., (1), 10/7/2008, DT 1365; (5), 30/5/2009, DT 1825, **Cult. P.**

Cerasus avium (L.) Moench, (9), 23/4/2009, DT 1699, **Cult. P.**

Chaenomeles japonica (Thunb.) Lindl. ex Spach, (9), 23/4/2009, DT 1689, **Cult. P.**

Cotoneaster franchetti Boiss., (18), 28/2/2009, DT 1582, **Cult. P.**

Prunus spinosa L. subsp. *dasyphylla* (Schur) Domin, (5), 21/4/2009, DT 1663. **Euro. - Sib. P.** (Det: A. A. Dönmez).

P. x domestica L., (5), 30/5/2009, DT 1824, **Cult. P.**

P. cerasifera Ehrh., (9), 23/4/2009, DT 1690, **Cult. P.**

Pyracantha coccinea M. Roem., (4), 30/5/2009, DT 1822, **Cult. P.**

Spiraea cantoniensis Lour., (10), 17/5/2009, DT 1720, **Cult. P.** (Det: A. A. Dönmez).

SALICACEAE

Populus nigra L. subsp. *nigra*, (5), 30/5/2009, DT 1826; (11), 6/7/2009, DT 2039. **Cult. P.**

Salix alba L., (11), 6/7/2009, DT 2043, **Cult. P.**

S. babylonica L., (7), 10/7/2008, DT 1395, **Cult. P.**

TAMARICACEAE

Tamarix parviflora DC., (12), 17/5/2009, DT 1734, **Cult. P.**

VITACEAE

Vitis vinifera L., (9), 15/6/2009, DT 2008, **Cult. P.**

Parthenocissus quinquefolia (L.) Planch., (1), 26/8/2008, DT 1492, **Cult. P.**