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Full Length Research Paper

A Checklist of Vascular Plants of Mt. Oiti National Park and the surrounding area(Greece)

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Vascular plants are important components of diversity and functionality of agricultural and forest ecosystems. This paper presents the first comprehensive checklist of vascular plants for an especially important area for plant biodiversity, namely National Park, "Ethnikos Drymos Oitis"- Natura 2000 site (GR2440004) and the surrounding area of Mt. Oiti in Greece. This list includes a total of 1153 plant taxa (species and subspecies). Specifically, the flora of Mt. Oiti includes 80 endemic taxa, while only two local endemic species (*Allium lagarophyllum* and *Veronica oetaea*). It is noteworthy that 551 plants are new records for the flora of Mt. Oiti. A total of 67 taxa are protected by national and international legislation and 52 orchid taxa are considered protected by the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES). *Veronica oetaea*, a priority species of Annex II of the Directive 92/43, is also protected by the Berne Convention. One more plant, *Gentiana lutea*, is listed in Annex V of the above-mentioned Directive. According to the life-forms of native flora of Mt. Oiti, Hemicryptophytes dominate by 46.23%, followed in decreasing order by Therophytes (23.16%), Geophytes (10.15%), Chamaephytes and Phanerophytes with a similar percentage of 9.97%, and Hydrophytes with 0.52%. The high plant species diversity and endemism make Mt. Oiti National Park an important area with high conservation value. This is the first checklist of vascular plants of National Park and the surrounding area of Mt. Oiti, thus providing baseline information for further research.

Keywords: Diversity, Ecology, Endemics, Protected areas.

INTRODUCTION

Mediterranean mountains host an especially high plant diversity and endemism (Gómez-Campo, 1985, Sainz and Moreno Sainz, 2002, Martín-Bravo et al., 2010). Mediterranean Basin is the third richest hot spot in the world in terms of plant biodiversity (Mittermeier, et al., 2004). The

vascular flora of Greece comprises 5758 species and 1970 subspecies (native and naturalized), representing 6620 taxa, belonging to 1073 genera and 185 families (Dimopoulos, et al., 2013). The endemic vascular flora of Greece includes 1459 taxa (22 % of the total number of taxa in Greece), corresponding to 1274 endemic species (22.1 % of the total number of Greek species) and 450 endemic subspecies (22.8 % of the total number of Greek subspecies) (Dimopoulos, et al., 2013).

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Mt. Oiti is a mountain with high ecological importance, which, however, belongs to the less explored areas in Greece (Dimopoulos and Georgiadis, 1995). Several botanists have visited this area in the past, attracted by its high plant diversity and endemism. The most important publications on the flora of Mt. Oiti have been made by Heldreich (1890), «Conspectus Florae Graeca» (Hálacsy, 1901-1904) who mentions 150 taxa, «Flora montis Oeta en Grece» (Regel, 1953) that includes 338 taxa and the Mountain Flora of Greece I, II (Strid, 1986, Strid and Tan, 1991) including 371 taxa.

The aim of this study is to provide the first comprehensive species list of native vascular plant species for an especially important area for plant biodiversity, namely National Park, "Ethnikos Drymos Oitis"- Natura 2000 site (GR2440004) and the surrounding area of Mt Oiti in Greece. This checklist is expected to serve as a basis for a better understanding of the Greek flora and to promote more comprehensive floristic and taxonomic studies of groups or regions that require more detailed inventory and/or systematic work. We also hope that will contribute towards a more effective conservation management of Mt. Oiti National Park.

MATERIAL AND METHODS

Study area

Mt. Oiti National Park (Figure 1) is characterized by high geological and geomorphological heterogeneity. Moreover, it has abundant water sources, and it is located at the transition zone between Northern and Southern Greece. The elevation ranges from 400 to 2.116 m a.s.l., and its area covers 7.210 ha.

The study area (North Latitude between 38° 56' 48" and 38° 41' 43", and eastward of Greenwich between 22° 8' 44" and 22° 29' 26") is important for biodiversity, both at the national and regional levels, as it includes a large variety of natural and semi-natural habitats. It also hosts a large number of plant and animal species, some of them rare, and is the southernmost distribution limit of several plant species like *Calthapalustris* and *Trolliuseuropaeus*. It is also important for biodiversity at the European level and for this reason it has been designated as a European Council Biogenetic Reserve (Karetsos, 2002).

The vegetation of Mt. Oiti is mainly consisted of *Abiescephalonica* forests, which cover approximately 38% of the studied area and 50% of the whole mountain. The presence of *Quercusfrainetto* forests as well as mixed fir-

oak ones (about 7%) in the southern and western parts of the area is significant. On the contrary, *Quercusilex* forests can be found sparsely and scattered, while the remaining evergreen-broadleaved forests cover approximately 12% of its eastern and northern foothills. High altitude grasslands and rocky pastures cover approximately 10% of the area (Mavromatis, 1980, Karetsos, et al., 2002).

The average temperature in lowland areas reaches 7.6°C at the coldest month and 27.80°C at the warmest, while at the summit area the corresponding values are 2.2°C and 16.8°C, respectively. The substrate of Mt. Oiti is mainly composed by sandstone flysch, hard limestones and alluvial deposits (Ministry of Agriculture, 1981, 1985).

Plant collections

Plant collections were mainly made in two distinct periods during 1999-2001 and 2011-2013. Collection effort was higher within Mt. Oiti National Park, but plant collections were also made at the whole mountainous area of Mt. Oiti beyond the borders of the protected area. All habitat types distributed across the entire elevational range of the study area were systematically sampled during all seasons. The collected plant specimens are deposited at the Herbarium of the Mediterranean Forest Ecosystems Institute, Hellenic Agricultural Organization "DEMETER".

Species identification was mainly based on Mountain Flora of Greece I, II (Strid, 1986, Strid and Tan, 1991), Flora Hellenica I & II (Strid and Tan, 1997, 2002) and Flora Europaea (Tutin et al., 1964-1980). Plant nomenclature and distribution follow Dimopoulos et al. (2013). Regarding plant life-forms, the systems of Raunkiaer (1934), Elenberg (1956), Braun-Blanquet (1964) and Pignatti (1982) were followed.

RESULTS AND DISCUSSION

Taxonomic diversity and Endemism

The flora of Mt. Oiti consists of 1153 vascular plant taxa (species and subspecies) (Table 1, Appendix 1). About half of them (551 taxa) are new floristic records for Mt. Oiti, such as resulted during the present study. The flora of Mt. Oiti also includes 80 endemic taxa and two local endemic species (*Alliumlagarophyllum* and *Veronica oetaea*). A total of 67 taxa are protected and 52 orchid taxa are considered protected by the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES). *Veronica oetaea*, a priority species of Annex II of the Directive 92/43, is also protected by the Berne Convention (IUCN, 2013). One more plant, *Gentianalutea*, is listed in Annex V of the above-mentioned Directive (Legakis and Maragou, 2009, IUCN, 2013).

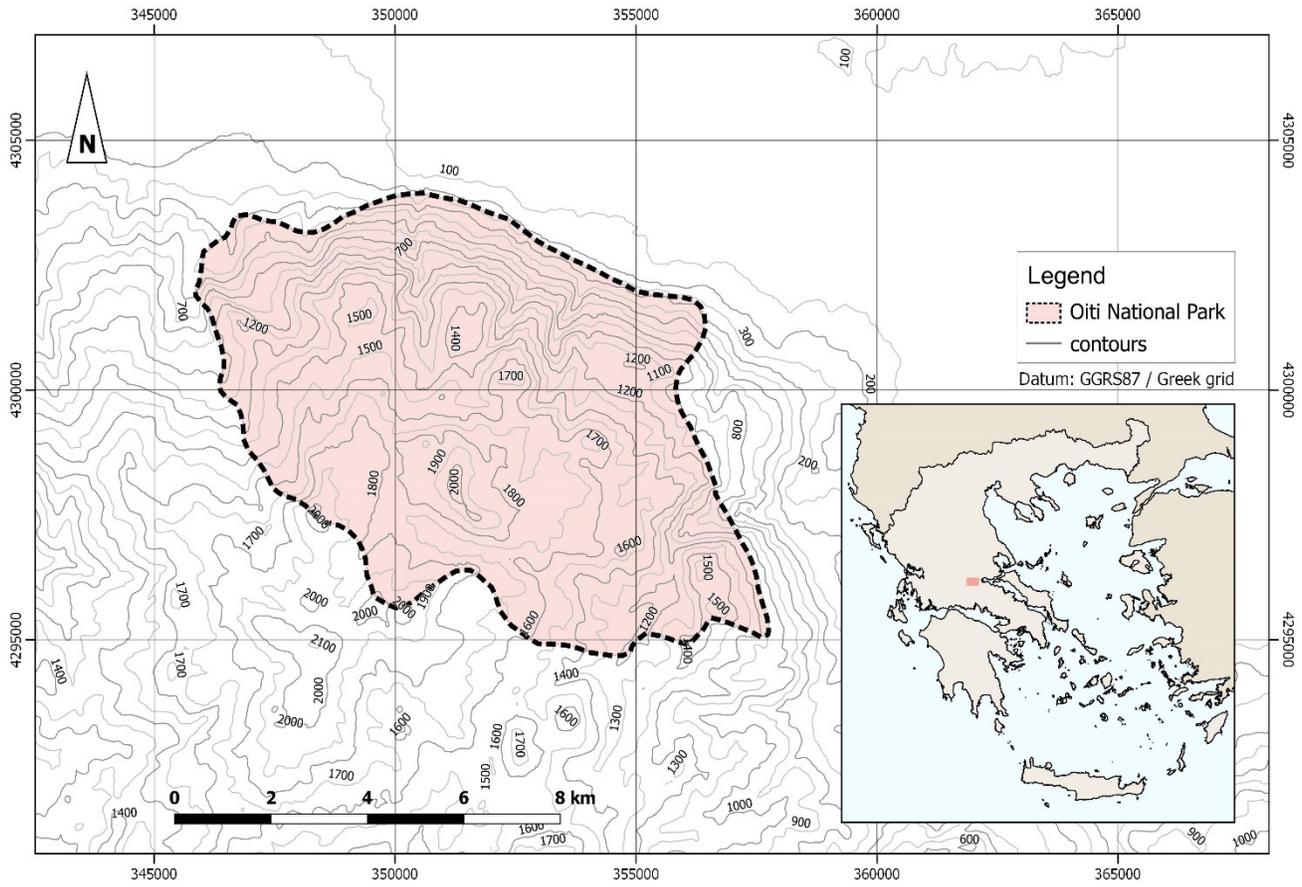


Figure 1. Topographic map of Mt. Oiti National Park.

Table 1: Number of vascular plant taxa in the flora of Mt. Oiti.

| | Fam. | Gen. | Sp.+Subsp. | Percentage (%) |
|----------------------|------|------|------------|----------------|
| <i>Pteridophytes</i> | 10 | 11 | 21 | 1.82 |
| <i>Gymnosperms</i> | 4 | 6 | 9 | 0.78 |
| <i>Angiosperms</i> | 97 | 540 | 1123 | 97.39 |
| Total | 111 | 557 | 1153 | 100 |

Table 2: The taxa-richest families in the flora Mt. Oiti.

| Families | Taxa richness(>40) |
|------------------------|--------------------|
| <i>Asteraceae</i> | 132 |
| <i>Poaceae</i> | 100 |
| <i>Fabaceae</i> | 73 |
| <i>Lamiaceae</i> | 62 |
| <i>Caryophyllaceae</i> | 62 |
| <i>Brassicaceae</i> | 59 |
| <i>Orchidaceae</i> | 52 |
| <i>Apiaceae</i> | 43 |
| Total | 583 |

The distribution of the vascular plants of Mt. Oiti at the main plant groups is presented in Table 1. Among the 110 families, the eight richest are listed in Table 2 (taxa number > 40), and they include 583 taxa. According to other studies (Pavlidis, 1976 and 1982, Christodoulakis, 1986, Voliotis, 1988, Dimopoulos, 1993, Dimitrellos and Christodoulakis, 1995), the same families appear to be the

richest even in different and relatively dissimilar regions of Greece.

Life-forms

Life-forms is an important functional trait of plants, reflecting the climatic conditions of a certain region.

Table 3. Categories of life-forms and their participation rates in the Checklist of the study area.

| Life-forms | Number | Percentage |
|----------------------|--------|------------|
| | Taxa | % |
| Chamaephytes (Ch) | 115 | 9.97 |
| Geophytes (G) | 117 | 10.15 |
| Hemicryptophytes (H) | 533 | 46.23 |
| Phanerophytes (P) | 115 | 9.97 |
| Therophytes (T) | 267 | 23.16 |
| Hydrophytes (Hyd) | 6 | 0.52 |
| Total | 1153 | 100 |

Hemicryptophytes is the dominant plant life-form in the flora of Mt. Oiti, dominated by 46.23%, followed by Therophytes (23.16%), Geophytes (10.15%), Chamaephytes (9.97%) and Phanerophytes (9.97%) (Table 3). The dominance of Hemicryptophytes indicates that Mt. Oiti, despite being close to the sea area of Malliakos and Northern Evoikos Gulf, has a continental climatic character due to the steep elevational rise. The high percentage of Therophytes is primarily influenced by

the presence of annual species that are mainly distributed at the low elevational belts of Mt. Oiti (Figure 2). Regarding the percentages of Hemicryptophytes and Therophytes, Mt. Oiti is more similar to mountainous areas of Northern Greece (e.g. Mt. Paiko, Mt. Vertiskos), than to neighboring mountains of Sterea Ellas and/or the Peloponnese. Substrate composition (flysch vs. limestone) and water availability seem to be the main factors influencing this pattern.

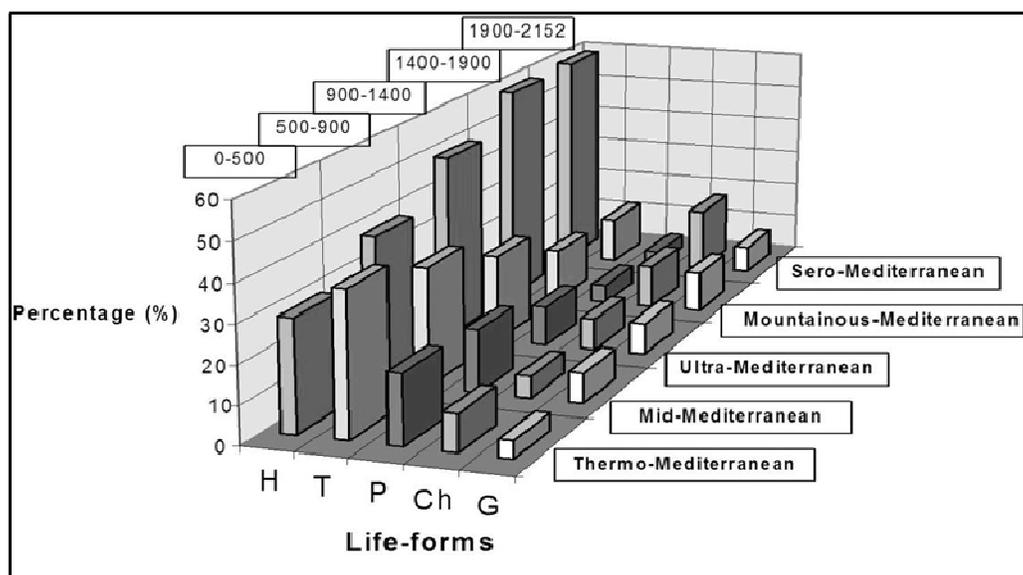


Figure 2. Life-form percentages by vegetation zone in Mt. Oiti.

CONCLUSION

Mt. Oiti National Park and the surrounding area is an especially diverse area with a large number of habitat types that host a wide variety of vascular plant species.

The flora of the area includes 1153 vascular plant taxa, 551 of them are first recorded from this area during the present study. The endemic flora consists of 80 taxa, with distribution range restricted to the political borders of Greece. Only two species are considered as endemic to Mt. Oiti (*Allium lagarophyllum* and *Veronica oetaea*). A total of 67 taxa are protected by national and international legislation and 52 orchid taxa are considered protected by the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES). *Veronica oetaea*, a priority species of Annex II of the Directive 92/43, is also protected by the Berne Convention. One more plant, *Gentiana lutea*, is listed in Annex V of the above-mentioned Directive. This is the first comprehensive inventory of vascular plants of Mt. Oiti, thus providing baseline information for further research.

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PTERIDOPHYTES

ASPLENIACEAE

- * *Asplenium adiantum-nigrum* L.
- Asplenium ceterach* L. subsp. *ceterach*
- * *Asplenium onopteris* L.
- Asplenium ruta-muraria* L. subsp. *ruta-muraria*
- Asplenium septentrionale* (L.) Hoffm.
- * *Asplenium trichomanes* L. subsp. *trichomanes*

ATHYRIACEAE

- * *Athyrium filix-femina* (L.) Roth

CYSTOPTERIDACEAE

- Cystopteris fragilis* (L.) Bernh.

DENNSTAEDTIACEAE

- * *Pteridium aquilinum* (L.) Kuhn in Kersten subsp. *aquilinum*

DRYOPTERIDACEAE

- Dryopteris pallida* (Bory) C. Chr. Ex Maire & Petitm. subsp. *pallida*
- Dryopteris mindshelkensis* Pavlov
- Polystichum aculeatum* (L.) Roth
- Polystichum lonchitis* (L.) Roth

EQUISETACEAE

- * *Equisetum arvense* L.
- * *Equisetum palustre* L.
- * *Equisetum ramosissimum* Desf.
- * *Equisetum temateia* Ehrh.

OPHIOGLOSSACEAE

- Ophioglossum vulgatum* L.

POLYPODIACEAE

- Polypodium vulgare* L.

PTERIDACEAE

- * *Adiantum capillus-veneris* L.

SELAGINELLACEAE

- * *Selaginella denticulata* (L.) Spring

GYMNOSPERMS

CUPRESSACEAE

- * *Cupressus sempervirens* L.
- Juniperus communis* L. subsp. *nana* (Willd.) Syme
- Juniperus foetidissima* Willd.
- Juniperus oxycedrus* L. subsp. *deltoides* (R.P. Adams) N.G. Passal.

EPHEDRACEAE

- * *Ephedra foeminea* Forssk.
- Ephedra nebrodensis* Guss. subsp. *procera* (Fisher & C.A. Mey.) K. Richt.

PINACEAE

- Abies cephalonica* Loudon

- * *Pinus nigra* J.F. Arnold subsp. *nigra*

TAXACEAE

- * *Taxus baccata* L.

ANGIOSPERMS

ACANTHACEAE

- * *Acanthus spinosus* L.

ACERACEAE

- * *Acer campestre* L.
- * *Acer hyrcanum* Fisch. & C.A. Mey. subsp. *reginae-amaliae* Orph. ex Boiss.
- Acer monspessulanum* L. subsp. *monspessulanum*
- Acer platanoides* L.

ALLIACEAE

- Allium achaium* Boiss. & Orph. in Boiss.
- * *Allium flavum* L. subsp. *flavum*
- Allium guttatum* Steven subsp. *tenorei* (Parl.) Soldano
- * *Allium hymettium* Boiss. & Heldr. in Boiss.
- Allium lagarophyllum* Brullo, Pavone & Tzanoud.
- * *Allium moschatum* L.
- Allium pallens* L.
- * *Allium paniculatum* L. subsp. *paniculatum*
- Allium phthioticum* Boiss. & Heldr. in Boiss.
- Allium vineale* L.

AMARANTHACEAE

- * *Amaranthus blitum* L.

AMARYLLIDACEAE

- Narcissus poeticus* L. subsp. *poeticus*
- Narcissus poeticus* L. subsp. *radiiflorus* (Salisb.) Baker
- Sternbergia colchiciflora* Waldst. & Kit.

ANACARDIACEAE

- * *Cotinus coggygria* Scop.
- * *Pistacia lentiscus* L.
- * *Pistacia terebinthus* L. subsp. *terebinthus*
- Rhus coriaria* L.

APIACEAE

- * *Bupleurum flavicans* Boiss. & Heldr. in Boiss.
- * *Bupleurum flavum* Forssk.
- Bupleurum glumaceum* Sm. in Sibth. & Sm.
- Carum graecum* Boiss. & Heldr. subsp. *graecum*
- Chaerophyllum aromaticum* L.
- Chaerophyllum aureum* L.
- Chaerophyllum heldreichii* Orph. ex Boiss.
- * *Daucus carota* L.
- * *Daucus guttatus* Sm. in Sibth. & Sm.
- Dichoropetalum oligophyllum* (Griseb.) Pimenov & Kljuykov
- Dichoropetalum vittijugum* (Boiss.) Pimenov & Kljuykov
- Eryngium amethystinum* L.
- * *Eryngium campestre* L.
- * *Eryngium creticum* Lam.
- * *Foeniculum vulgare* Mill.
- Geocaryum capillifolium* (Guss.) Coss.

Appendix I. Plant checklist [asterisk (*) indicates a new plant record].

434. Glo. Adv. Res. J. Agric. Sci.

Geocaryum pindicola (Hausskn.) Engstrand
Heracleum sphondylium L. subsp. *pyrenaicum* (Lam.) Bonnier & Layens
* *Lagoecia cuminoides* L.
Laserpitium pseudomeum Orph., Heldr. & Sartori ex Boiss.
Laserpitium siler L. subsp. *garganicum* (Ten.) Arcang.
* *Malabaila aurea* (Sm.) Boiss.
* *Opopanax hispidus* (Friv.) Griseb.
* *Orlaya daucoides* (L.) Greuter
* *Pastinaca sativa* L. subsp. *urens* (Godr.) Čelak.
* *Peucedanum longifolium* Waldst. & Kit.
* *Physospermum cornubiense* (L.) DC.
Pimpinella tragiium Vill. subsp. *polyclada* (Boiss. & Heldr.) Tutin
Pimpinella tragiium Vill. subsp. *tragiium*
Sanicula europaea L.
* *Scaligeria napiformis* (Spreng.) Grande
* *Scandix australis* L. subsp. *grandiflora* (L.) Thell.
Scandix macrorhyncha C.A. Mey.
Selinum silaifolium (Jacq.) Beck.
Seseli peucedanooides (M. Bieb.) Koso- Pol.
* *Smyrniium perfoliatum* L. subsp. *rotundifolium* (Mill.) Hartvig in Strid
* *Tordylium apulum* L.
* *Tordylium officinale* L.
* *Torilis africana* Spreng.
* *Torilis japonica* (Houtt.) DC.
* *Torilis leptophylla* (L.) Rchb. f.
* *Torilis nodosa* (L.) Gaertn.
Trinia frigida (Boiss. & Heldr.) Drude

APOCYNACEAE

Nerium oleander L. subsp. *oleander*
* *Vinca major* L. subsp. *major*

AQUIFOLIACEAE

* *Ilex aquifolium* L.

ARACEAE

* *Arum italicum* Mill. subsp. *italicum*
* *Arum maculatum* L.
* *Dracunculus vulgaris* Schott.

ARALIACEAE

* *Hedera helix* L. subsp. *helix*

ARISTOLOCHIACEAE

* *Aristolochia elongata* (Duch.) E. Nardi
* *Aristolochia rotunda* L. subsp. *insularis* (Nardi & Arrigoni) Gamisans

ASCLEPIADACEAE

* *Cynanchum acutum* L. subsp. *acutum*
Vincetoxicum hirundinaria Medik. subsp. *nivale* (Boiss. & Heldr.) Markgr.

ASPARAGACEAE

* *Asparagus acutifolius* L.
* *Asparagus maritimus* (L.) Mill.

ASPHODELACEAE

Asphodeline liburnica (Scop.) Rchb.

ASTERACEAE

* *Achillea ageratifolia* (Sm.) Benth. & Hook. f. subsp. *ageratifolia*
Achillea crithmifolia Waldst. & Kit.
Achillea fraasii Sch.Bip.
* *Achillea grandifolia* Friv.
* *Achillea holosericea* Sm. in Sibth. & Sm.
* *Achillea ligustica* All.
Achillea nobilis L.
* *Achillea pannonica* Scheele
Achillea setacea Waldst. & Kit.
Achillea umbellata Sm. in Sibth. & Sm.
* *Anthemis arvensis* L. subsp. *cyllenea* (Halácsy) R.Fern.
* *Anthemis chia* L.
Anthemis cretica L. subsp. *cretica*
Anthemis orientalis (L.) Degen
Anthemis tinctoria L. subsp. *parnassica* (Boiss. & Heldr.) Nyman
Anthemis pindicola Halácsy
* *Arctium lappa* L.
* *Bellis annua* L.
Bellis perennis L.
* *Carduus nutans* L. subsp. *leiophyllus* (Petrović) Stoj. & Stef.
* *Carduus nutans* L. subsp. *scabrisquamus* Arènes
Carduus tmoleus Boiss. subsp. *cronius* (Boiss. & Heldr.) Greuter
* *Carlina biebersteinii* Hornem. subsp. *brevibracteata* (Andrae) K. Werner
* *Carlina corymbosa* L. subsp. *graeca* (Heldr. & Sartori) Nyman
Carlina frigida Boiss. & Heldr. in Boiss.
Centaurea affinis Friv. subsp. *affinis*
Centaurea affinis Friv. subsp. *pallidior* (Halácsy) Hayek
* *Centaurea alba* L. subsp. *deusta* (Ten.) Nyman
Centaurea nervosa Willd. subsp. *promota* E. Gamal-Eldin & Wagenitz
Centaurea pelia DC.
Centaurea salonitana Vis.
* *Centaurea solstitialis* L. subsp. *solstitialis*
Centaurea triumfettii (All.) Á. Löve & D. Löve subsp. *axillaris* (Čelak) Štěpánek
Chondrilla juncea L.
* *Chondrilla ramosissima* Sm. in Sibth. & Sm.
* *Cichorium intybus* L.
Cirsium appendiculatum Griseb.
Cirsium candelabrum Griseb.
Cirsium mairei Halácsy
* *Cirsium vulgare* (Savi) Ten.
Crepis aurea (L.) Cass. subsp. *glabrescens* (Caruel) Arcang.
* *Crepis dioscoridis* L.
* *Crepis foetida* L.
Crepis fraasii Sch. Bip. subsp. *fraasii*
* *Crepis neglecta* L. subsp. *graeca* (Vierh.) Rech. f.
* *Crepis neglecta* L. subsp. *neglecta*
* *Crepis vesicaria* L. subsp. *vesicaria*
* *Crepis zacintha* (L.) Loisel.
* *Crupina vulgaris* Cass.
* *Dittrichia graveolens* (L.) Greuter
* *Dittrichia viscosa* (L.) Greuter subsp. *viscosa*
Doronicum columnae Ten.
* *Doronicum orientale* Hoffm.
* *Echinops ritro* L.
Erigeron alpinus L.
Filago arvensis L.
* *Filago eriocephala* Guss.

- **Filago germanica* (L.)Huds.
 **Geropogon hybridus* (L.) Sch. Bip.
 **Gnaphalium sylvaticum* L.
Gnaphalium uliginosum L.
 **Hedypnois rhagadioloides* (L.) F.W. Schmidt
 subsp. *rhagadioloides*
Helichryssum stoechas (L.) Moench subsp. *barrelieri* (Ten.)
 Nyman
 **Hieracium bifidum* Kit. in Hornem.
Hieracium lazistanum Arv.-Touv. subsp. *leithneri* (Boiss.)
 Greuter
Hieracium naegelianum Pančić
Hieracium pannosum Boiss.
Hieracium parnassi Fr. subsp. *parnassi*
Hieracium scapigerum Boiss. & al. subsp. *scapigerum*
Hieracium schmidtii Tausch subsp. *vranjanum* (Zahn) Greuter
 **Hypochaeris achyrophorus* L.
 **Hypochaeris cretensis* (L.) Bory & Chaub.
 **Hypochaeris glabra* L.
 **Inula britannica* L.
 **Inula candida* (L.) Cass. subsp. *limonella* (Heldr.) Rech. f.
Inula oculus-christi L.
Inula verbascifolia (Willd.) Hausskn. subsp. *parnassica*
 (Boiss.& Heldr.) Tutin
 **Jacobaea erucifolia* (L.) G. Gaertn. & al.
 **Lactuca intricata* Boiss.
 **Lactuca tuberosa* Jacq.
 **Lactuca viminea* (L.) J. & C. Presl
Lapsana communis L.
Leontodon crispus Vill.
Leontodon hispidus L. subsp. *hispidus*
 **Leontodon tuberosus* L.
 **Mycelis muralis* (L.) Dumort.
 **Onopordum illyricum* L. subsp. *cardunculus* (Boiss.) Arènes
 **Pallenis spinosa* (L.)Cass. subsp. *spinosa*
 **Petasites hybridus* (L.)G. Gaertn. & al.
 **Picnomon acarna* (L.)Cass.
 **Picris pauciflora* Willd.
Pilosella bauhini (Schult.) Arv.-Touv. subsp. *magyarica* (Peter)
 S. Bräut.
Pilosella cymosa (L.) F.W. Schultz & Sch. Bip. subsp.
Heldreichiana (Nägeli & Peter) Gottschl.
Pilosella cymosa (L.) F.W. Schultz & Sch. Bip. subsp.
sabina (Sebast.) H. P. Fuchs
Pilosella halacsyi (Halácsy) Soják
Pilosella leucopsilon (Arv.-Touv.) Gottschl.subsp. *pilisquama*
 (Nägeli & Peter) Gottschl.
 **Pilosella piloselloides* (Vill.) Soják subsp. *piloselloides*
 **Pilosella ziziana* (Tausch) F.W. Schultz & Sch. Bip.
 **Podospermum canum* C.A. Mey.
 **Podospermum laciniatum* (L.) DC.
Podospermum roseum (Waldst. & Kit.)Gemeinholzer &
 Greuter subsp. *peristericum* (Formánek) Gemeinholzer &
 Greuter
 **Ptilostemon afer* (Jacq.)Greuter subsp. *afer*
 **Rhagadiolus stellatus* (L.) Gaertn.
 **Reichardia picroides* (L.)Roth.
 **Scolymus hispanicus* L. subsp. *hispanicus*
 **Scorzonera crocifolia* Sm. in Sibth. & Sm.
Scorzonera mollis M. Bieb. subsp. *mollis*
Scorzoneroides cichoriacea (Ten.) Greuter
- **Senecio macedonicus* Griseb.
Senecio ovatus (G. Gaertn. & al.) Willd.
Senecio rupestris Waldst. & Kit.
Senecio thapsoides DC.subsp. *thapsoides*
Senecio viscosus L.
 **Senecio vulgaris* L.
Solidago virgaurea L.
Sonchus oleraceus L.
 **Staelhelia uniflosculosa* Sm. in Sibth. & Sm.
Taraxacum sect. *Ruderalia* Kirschner & al.
Taraxacum epirense Soest
Taraxacum gionense A. J. Richards
Taraxacum gracilens Dahlst.
Taraxacum pindicola (Bald.) Hand.- Mazz.
Taraxacum scaturiginosum G.E. Haglund
 **Tragopogon dubius* Scop.
 **Tragopogon longifolius* Heldr. & Sartori exBoiss.
 **Tragopogon porrifolius* subsp. *eriospermus* (Ten.) Greuter
Tragopogon samaritani Heldr. & Sartori exBoiss.
Tussilago farfara L.
 **Tyrimnus leucographus* (L.)Cass.
 **Urospermum picroides* (L.) F.W. Schmidt
 **Xeranthemum cylindraceum*Sm. in Sibth. & Sm.
 **Xeranthemum inapertum* (L.)Miller
- BETULACEAE**
 **Alnus glutinosa* (L.) Gaertner subsp. *glutinosa*
 **Carpinus betulus* L.
 **Carpinus orientalis* Mill. subsp. *orientalis*
Corylus avellana L.
 **Corylus colurna* L.
Ostrya carpinifolia Scop.
- BORAGINACEAE**
 **Alkanna calliensis* Heldr. ex Boiss.
 **Alkanna graeca* Boiss. & Spruner subsp. *graeca*
 **Alkanna pindicola* Hausskn.
Anchusa azurea Mill.
 **Anchusa officinalis* L. subsp. *officinalis*
Anchusa undulata L. subsp. *hybrida* (Ten.) Bég.
 **Anchusella cretica* (Mill.) Bigazzi & al.
Asperugo procumbens L.
 **Borago officinalis* L.
Buglossoides incrassata (Guss.)I.M. Johnst. subsp. *incrassata*
 **Buglossoides purpureocaerulea* (L.) I.M. Johnst.
 **Cerinth minor* L.
 **Cynoglossum columnae* Ten.
 **Cynoglossum creticum* Mill.
 **Cynoglossum officinale* L.
Cynoglottis barrelieri (All.) Vural & Kit Tan subsp.
serpentinicola (Rech. f.) Vural & Kit Tan
 **Echium italicum* L.
 **Echium plantagineum* L.
 **Heliotropium hirsutissimum* Grauer
Myosotis alpestris F.W. Schmidt subsp. *suaveolens* (Willd.)Strid
 **Myosotis congesta* Shuttlew. ex Albert & A. Reyn.
 **Myosotis incrassata* Guss.
Myosotis nemorosa Besser
 **Myosotis ramosissima* Rochel subsp. *ramosissima*
Myosotis refracta Boiss.subsp. *refracta*
Myosotis stricta Roem.& Schult.

Appendix I. Plant checklist [asterisk (*) indicates a new plant record].

436. *Glo. Adv. Res. J. Agric. Sci.*

- Myosotis sylvatica* Hoffm. subsp. *cyanea* (Hayek) Vestergren
 * *Neatostema apulum* (L.) I. M. Johnst.
 * *Onosma erecta* Sm. in Sibth. & Sm. subsp. *erecta*
Onosma heterophylla Griseb.
 * *Rindera graeca* (A. DC.) Boiss. & Heldr.
 * *Symphytum bulbosum* K.F. Schimp.

BRASSICACEAE

- Aethionema cordatum* (Desf.) Boiss.
Aethionema saxatile (L.) R. Br. subsp. *graecum*
 (Boiss. & Spruner) Hayek
Alyssum doerfleri Degen
Alyssum gustavssonii Hartvig
Alyssum minutum Schlecht. ex DC.
Alyssum montanum L. subsp. *montanum*
Alyssum montanum L. subsp. *repens* (Baumg.) Schmalh.
Alyssum murale Waldst. & Kit.
Alyssum pulvinare Velen.
 * *Alyssum sibiricum* Willd.
 * *Alyssum siculum* Jord.
Alyssum simplex Rudolphi
 * *Alyssum strigosum* Banks & Sol.
 * *Arabidopsis thaliana* (L.) Heynh.
Arabis alpina L.
Arabis auriculata Lam.
Arabis bryoides Boiss.
 * *Arabis collina* Ten.
 * *Arabis glabra* (L.) Bernh.
 * *Arabis sagittata* (Bertol.) DC.
Arabis sudetica Tausch
 * *Arabis turrata* L.
 * *Arabis verna* (L.) R. Br.
Aubrieta deltoidea (L.) DC.
Aubrieta gracilis Spruner ex Boiss.
 * *Aurinaria saxatilis* (L.) Desv. subsp. *orientalis* (Ard.) T.R. Dudley
Barbarea sicula C. Presl
Barbarea vulgaris R. Br. subsp. *arcuata* (Opiz.) Hayek
 * *Biscutella didyma* L.
 * *Bunias erucago* L.
 * *Capsella bursa-pastoris* (L.) Medik.
Cardamine acris Griseb. subsp. *voudousiae* Perný & Marhold
Cardamine barbaraoides Halácsy
 * *Cardamine graeca* L.
 * *Cardamine hirsuta* L.
 * *Clypeola jonthlaspi* L.
Draba lacaitae Boiss.
Draba lasiocarpa Rochel
 * *Draba muralis* L.
Draba verna L.
 * *Erysimum asperulum* Boiss. & Heldr.
Erysimum cephalonicum Polatschek
Erysimum cuspidatum (M.Bieb.) DC.
 * *Erysimum graecum* Boiss. & Heldr.
Erysimum microstylum Hausskn.
Erysimum parnassi (Boiss. & Heldr.) Hausskn.
 * *Fibigia clypeata* (L.) Medik.
Hornungia petraea (L.) Rchb.
Iberis sempervirens L.
 * *Isatis tinctoria* L. subsp. *tinctoria*
 * *Lepidium campestre* (L.) R.Br.
Lepidium hirtum (L.) Sm. subsp. *nebrodense* (Raf.) Thell.

- * *Lunaria annua* L. subsp. *pachyrhiza* (Borbás) Maire & Petitm.
Malcolmia orsiniana (Ten.) Ten. subsp. *angulifolia*
 (Boiss. & Orph.) Stork
 * *Microthlaspi perfoliatum* (L.) F.K. Mey.
Noccaea brevistyla (DC.) Steud. subsp. *pseudorivularis*
 (Bornm.)
 F.K. Mey.
Noccaea ochroleuca (Boiss. & Heldr.) F.K. Mey.
Phyllolepidium cyclocarpum (Boiss.) Cecchi subsp.
cyclocarpum
 * *Sisymbrium officinale* (L.) Scop.

CAESALPINIACEAE

- * *Cercis siliquastrum* L.

CAMPANULACEAE

- Asyneuma limonifolium* (L.) Janchen. subsp. *limonifolium*
 * *Campanula glomerata* L. subsp. *glomerata*
 * *Campanula rupestris* Sm. in Sibth. & Sm.
Campanula spatulata Sm. in Sibth. & Sm. subsp. *spatulata*
Campanula spatulata Sm. in Sibth. & Sm. subsp.
spruneriana (Hampe) Hayek
 * *Campanula trachelium* L. subsp. *athoa* (Boiss. & Heldr.) Hayek
Campanula tymphaea Hausskn.
Campanula versicolor Andrews
Edraianthus graminifolius (L.) A.DC. subsp. *graminifolius*
Halacsyella parnassica (Boiss. & Spruner) Janch.
 * *Legousia falcata* (Ten.) Fritsch

CAPRIFOLIACEAE

- * *Lonicera etrusca* Santi
 * *Lonicera implexa* Aiton
 * *Lonicera nummulariifolia* Jaub. & Spach subsp. *nummulariifolia*
 * *Sambucus ebulus* L.
Sambucus nigra L.

CARYOPHYLLACEAE

- * *Arenaria leptoclados* (Reichenb.) Guss.
Arenaria serpyllifolia L.
Cerastium banaticum (Rochel) Steud. subsp. *speciosum* (Boiss.)
 Jalas
 * *Cerastium brachypetalum* Pers. subsp. *roeseri*
 (Boiss. & Heldr.) Nyman
Cerastium candidissimum Correns
 * *Cerastium decalvans* Schlosser & Vuk.
 * *Cerastium glomeratum* Thuill.
Cerastium holosteoides Fr. subsp. *vulgare* (Fr.) Buttler
 * *Cerastium ramosissimum* Boiss.
Corrigiola littoralis L.
Dianthus biflorus Sm. in Sibth. & Sm.
 * *Dianthus cruentus* Griseb.
Dianthus gracilis Sm. in Sibth. & Sm. subsp. *gracilis*
Dianthus haematocalyx (Boiss. & Heldr.) in Boiss. subsp.
ventricosus Maire & Petitm.
Dianthus integer Vis. subsp. *minutiflorus* (Halácsy) Bornm.
 * *Dianthus pinifolius* Sm. in Sibth. & Sm. subsp. *Lilacinus*
 (Boiss. & Heldr.) Wettst.
Dianthus stenopetalus Griseb.
Dianthus tymphresteus (Boiss. & Spruner) Boiss.
Dianthus viscidus Bory & Chaub.

- * *Drypis spinosa* L. subsp. *spinosa*
- * *Herniaria hirsuta* L.
- * *Herniaria incana* Lam.
- Herniaria parnassica* Heldr. & Sart. exBoiss. subsp. *parnassica*
- * *Lychnis coronaria* (L.) Desr.
- Minuartia attica* (Boiss. & Spruner) Vierh. subsp. *attica*
- Minuartia confusa* (Boiss.)Maire & Petitm.
- Minuartia eurytanica* (Boiss. & Heldr.) Hand.- Mazz.
- * *Minuartia globulosa* (Labill.) Schinz & Thell.
- * *Minuartia hybrida* (Vill.) Schischkin
- Minuartia recurva* (All.) Schinz & Thell. subsp. *condensata*
- (C. Presl) Greuter & Burdet
- Minuartia stellata* (E.D. Clarke)Maire & Petitm.
- * *Moenchia graeca* Boiss. & Heldr.
- Paronychia albanica* Chaudhri subsp. *graeca* Chaudhri
- Paronychia polygonifolia* (Vill.) DC.
- * *Petrorhagia cretica* (L.) P.W. Ball & Heywood
- Petrorhagia fasciculata* (Margot & Reut.) P.W. Ball & Heywood
- Petrorhagia illyrica* (L.) P.W. Ball & Heywood subsp. *illyrica*
- Petrorhagia phthiotica* (Boiss. & Heldr.) P.W. Ball & Heywood
- Petrorhagia prolifera* (L.)P.W. Ball & Heywood
- * *Sagina procumbens* L.
- Sagina subulata* (Swartz) C. Presl
- * *Saponaria bellidifolia* Sm.
- * *Scleranthus annuus* L.
- Scleranthus perennis* L. subsp. *marginatus* (Guss.) Nyman
- * *Silene auriculata* Sm. in Sibth. & Sm.
- Silene bupleuroides* L. subsp. *staticifolia* (Sm.) Chowdhuri
- Silene caesia* Sm. in Sibth. & Sm.
- * *Silene fabarioides* Hauskn.
- * *Silene gigantea* L. subsp. *hellenica* Greuter
- * *Silene graeca* Boiss. & Spruner in Boiss.
- Silene italica* (L.) Pers. subsp. *italica*
- Silene multicaulis* Guss. subsp. *multicaulis*
- Silene paradoxa* L.
- Silene parnassica* Boiss. & Spruner in Boiss. subsp. *parnassica*
- Silene radicata* Boiss. & Heldr.
- Silene roemerii* Friv. subsp. *macrocarpa* (Vandas) Greuter
- * *Silene viridiflora* L.
- Silene vulgaris* (Moench) Garcke subsp. *megalosperma* Hayek
- Silene vulgaris* (Moench) Garcke subsp. *prostrata* (Gaudin)
- Schinz & Thell.
- Spergularia rubra* (L.)J. & C. Presl
- Stellaria media* (L.)Vill.
- * *Viscaria atropurpurea* Griseb.

CELASTRACEAE

- Euonymus europaeus* L.
- Euonymus latifolius* Mill.

CHENOPODIACEAE

- Blitum bonus-henricus* (L.) Rchb.
- * *Chenopodium vulvaria* L.

CISTACEAE

- * *Cistus creticus* L. subsp. *creticus*
- Fumana arabica* (L.) Spach
- * *Fumana thymifolia* (L.) Webb
- Helianthemum nummularium* (L.)Mill. subsp. *nummularium*
- * *Helianthemum salicifolium* (L.)Mill.

COLCHICACEAE

- Colchicum graecum* K.M. Perss.
- * *Colchicum parnassicum* Sartori, Orph. & Heldr. ex Boiss.

CONVOLVULACEAE

- * *Calystegia sepium* (L.) R. Br. subsp. *sepium*
- * *Calystegia silvatica* (Kit.) Griseb.
- * *Convolvulus arvensis* L.
- * *Convolvulus cantabrica* L.
- * *Convolvulus elegantissimus* Mill.
- * *Convolvulus oleifolius* Desr.
- Cuscuta epithimum* (L.)L. subsp. *kotschyi* (Des Moul.) Arcang.

CORNACEAE

- Cornus mas* L.

CRASSULACEAE

- Phedimus stellatus* (L.) Raf.
- * *Sedum acre* L.
- * *Sedum album* L.
- Sedum amplexicaule* DC. subsp. *tenuifolium* (Sm.) Greuter
- * *Sedum cepaea* L.
- Sedum dasyphyllum* L.
- Sedum hispanicum* L.
- Sedum laconicum* Boiss. & Heldr. subsp. *laconicum*
- Sedum magellense* Ten. subsp. *olympicum* (Boiss.)
- Greuter & Burdet
- Sedum ochroleucum* Chaix inVill.
- * *Sedum rubens* L.
- Sedum urvillei* DC.
- Sempervivum marmoreum* Griseb. subsp. *marmoreum*
- * *Umbilicus luteus* (Huds.) Webb & Berthel.
- * *Umbilicus rupestris* (Salisb.) Dandy

CUCURBITACEAE

- * *Ecballium elaterium* (L.) A. Rich. in Bory

CYPERACEAE

- Blysmus compressus* (L.)Link
- Carex caryophyllea* Latourr.
- Carex distans* L.
- * *Carex divisa* Huds
- * *Carex elata* All.
- Carex flacca* Schreb. subsp. *serrulata* (Spreng.) Greuter
- * *Carex humilis* Leyss.
- Carex liparocarpos* Gaudin
- Carex leporina* L.
- Carex otrubae* Podp.
- Carex pallescens* L.
- Carex paniculata* L.
- * *Carex pendula* Huds.
- Carex remota* L.
- Eleocharis palustris* (L.) Roem. & Schult.
- Scirpoides holoschoenus* (L.) Soják

DIOSCOREACEAE

- * *Dioscorea communis* (L.) Caddick & Wilkin

DIPSACACEAE

- * *Cephalaria flava* Sm.) Szabó subsp. *setulifera*
- (Boiss. & Heldr.) Kokkini

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438. *Glo. Adv. Res. J. Agric. Sci.*

* *Cephalaria transsylvanica* (L.) Roem. & Schult.
* *Knautia integrifolia* (L.) Bertol. subsp. *integrifolia*
Knautia magnifica Boiss. & Orph.
* *Lomelosia argentea* (L.) Greuter & Burdet
* *Lomelosia brachiata* (Sm.) Greuter & Burdet
* *Lomelosia crenata* (Cirillo) Greuter & Burdet subsp. *crenata*
Pteroccephalus perennis Coult. subsp. *Perennis*
* *Scabiosa atropurpurea* L.
Scabiosa ochroleuca L.
Scabiosa taygetea Boiss. & Heldr. subsp. *taygetea*
Scabiosa tenuis Spruner ex Boiss.

EBENACEAE

Diospyros lotus L.

ERICACEAE

* *Arbutus andrachne* L.
* *Arbutus unedo* L.

EUPHORBIACEAE

* *Euphorbia amygdaloides* L. subsp. *heldreichii* (Boiss.) Aldén
* *Euphorbia chamaesyce* L.
* *Euphorbia characias* L.
* *Euphorbia deflexa* Sm. in Sibth. & Sm.
* *Euphorbia glabriflora* Vis.
* *Euphorbia helioscopia* L.
Euphorbia herniariifolia Willd.
* *Euphorbia hirsuta* L.
* *Euphorbia myrsinites* L. subsp. *myrsinites*
Euphorbia seguieriana Neck. subsp. *niciciana*
(Bordás ex Novák) Rech.f.

FABACEAE

* *Anthyllis hermanniae* L. subsp. *hermanniae*
Anthyllis vulneraria L. subsp. *bulgarica* (Sagorski) Cullen
Anthyllis vulneraria L. subsp. *pulchella* (Vis.) Bornm.
Astragalus angustifolius Lam. subsp. *erinaceus* (C. Presl)
Brullo, Giusso & Musarella
Astragalus depressus L. subsp. *depressus*
* *Astragalus glycyphyllos* L. subsp. *glycyphylloides* (DC.)
Maire & Petitm.
Astragalus glycyphyllos L. subsp. *glycyphyllos*
* *Astragalus hamosus* L.
Astragalus lacteus Heldr. & Sart. ex Boiss.
Astragalus mayeri Micevski
* *Astragalus monspessulanus* L. subsp. *monspessulanus*
Astragalus rumelicus Bunge
Astragalus sempervirens Lam. subsp. *cephalonicus* (C. Presl)
Asch. & Graebn.
Astragalus thracicus Griseb. subsp. *parnassi* (Boiss.) Strid
* *Bituminaria bituminosa* (L.) C.H. Stirt.
Chamaecytisus hirsutus (L.) Link subsp. *hirsutus*
* *Colutea arborescens* L. subsp. *arborescens*
* *Coronilla scorpioides* (L.) W.D.J. Koch
Dorycnium herbaceum Vill.
* *Dorycnium hirsutum* (L.) Ser. in DC.
Genista millii Heldr. ex Boiss.
Hippocrepis comosa L.
Hippocrepis emeris (L.) Lassen subsp. *emeroides*
(Boiss. & Spruner) Greuter & Burdet
* *Hymenocarpus circinnatus* (L.) Savi

* *Lathyrus aphaca* L.
* *Lathyrus cicera* L.
Lathyrus digitatus (Bieb.) Fiori in Fiori & Paol.
* *Lathyrus grandiflorus* Sm. in Sibth. & Sm.
* *Lathyrus latifolius* L. subsp. *heterophyllus* (L.) Asmussen
Lathyrus laxiflorus (Desf.) Kuntze
* *Lathyrus niger* (L.) Bernh.
Lathyrus pratensis L.
* *Lathyrus saxatilis* (Vent.) Vis.
* *Lathyrus setifolius* L.
* *Lens nigricans* (Bieb.) Godr.
* *Lotus angustissimus* L.
* *Lotus conimbricensis* Brot.
Lotus corniculatus L.
* *Lotus preslii* Ten.
* *Lotus tenuis* Willd.
* *Medicago arabica* (L.) Hudson
* *Medicago disciformis* D.C.
Medicago lupulina L.
* *Medicago minima* (L.) Bartal.
* *Medicago orbicularis* (L.) Bartal.
Medicago sativa L. subsp. *falcata* (L.) Arcang.
* *Onobrychis alba* (Waldst. & Kit.) Desv. subsp.
pentelica (Hauskn.) Nyman
* *Onobrychis ebenoides* Boiss. & Spruner
* *Teline monspessulana* (L.) K. Koch
* *Trifolium pallidum* Waldst. & Kit.
* *Trifolium pannonicum* Jacq.
Trifolium parnassi Boiss. & Spruner
Trifolium physodes M. Bieb.
Trifolium pignatii Fauché & Chaub.
* *Trifolium pratense* L.
* *Trifolium purpureum* Loisel.
Trifolium repens L.
* *Trifolium scabrum* L.
* *Trifolium stellatum* L.
* *Trifolium suffocatum* L.
* *Trifolium trichopterum* Pančić
* *Trigonella corniculata* (L.) L. subsp. *balansae* (Boiss. & Reut.)
Lassen
* *Vicia angustifolia* L.
* *Vicia bithynica* (L.) L.
Vicia cretica Boiss. & Heldr.
* *Vicia hirsuta* (L.) Gray
Vicia laeta Ces.
Vicia lathyroides L.
* *Vicia serratifolia* Jacq.
* *Vicia tenuifolia* Roth
* *Vicia villosa* Roth subsp. *eriocarpa* (Hauskn.) P.W. Ball
* *Vicia villosa* Roth subsp. *microphylla* (d'Urv.) P.W. Ball
* *Vicia villosa* Roth subsp. *varia* (Host) Corb.

FAGACEAE

* *Castanea sativa* Mill.
Quercus coccifera L.
* *Quercus frainetto* Ten.
* *Quercus ilex* L.
* *Quercus petraea* (Mattuschka) Liebl. subsp. *polycarpa* (Schur)
Soó
* *Quercus pubescens* Willd.
* *Quercus robur* L. subsp. *pedunculiflora* (C. Koch) Menitsky

FUMARIACEAE

- Corydalis blanda* Scottsubsp. *parnassica* (Orph. & Heldr.) Lidén
Corydalis solida (L.) Clairv. subsp. *incisa* Lidén

GENTIANACEAE

- * *Blackstonia perfoliata* (L.) Hudssubsp. *perfoliata*
 * *Centaurium erythraea* Rafn. subsp. *erythraea*
Gentiana asclepiadea L.
Gentiana lutea L.
Gentianopsis ciliata (L.) G. Mans.

GERANIACEAE

- Erodium cicutarium* (L.) L'Hér.
 * *Geranium aristatum* Freyn & Sint.
Geranium asphodeloides Burm. f. subsp. *asphodeloides*
 * *Geranium columbinum* L.
 * *Geranium lanuginosum* Lam.
 * *Geranium lucidum* L.
 * *Geranium macrorrhizum* L.
Geranium macrostylum Boiss.
 * *Geranium molle* L.
Geranium purpureum Vill.
Geranium pusillum Burm. f.
 * *Geranium pyrenaicum* Burm. f.
Geranium robertianum L.
Geranium rotundifolium L.
Geranium subcaulescens L'Hér. ex DC.
 * *Geranium sylvaticum* L.
 * *Geranium tuberosum* L.

HIPPOCASTANACEAE

- * *Aesculus hippocastanum* L.

HYACINTHACEAE

- * *Muscari botryoides* (L.) Mill.
 * *Muscari comosum* (L.) Mill.
Muscari neglectum Guss. ex Ten.
 * *Ornithogalum brevistylum* Wolfner
 * *Ornithogalum montanum* Ten.
 * *Ornithogalum nutans* L.
Ornithogalum oligophyllum E.D. Clarke
 * *Ornithogalum sibthorpii* Greuter
Scilla subnivalis (Halácsy) Speta

HYPERICACEAE

- Hypericum barbatum* Jacq.
 * *Hypericum empetrifolium* Willd.
 * *Hypericum perfoliatum* L.
 * *Hypericum perforatum* L.
Hypericum rumeliacum Boiss. subsp. *apollinis*
 (Boiss. & Heldr.) Robson. & Strid
 * *Hypericum spruneri* Boiss.
 * *Hypericum triquetrifolium* Turra

IRIDACEAE

- Crocus nivalis* Bory & Chaub.
 * *Crocus olivieri* J. Gay subsp. *olivieri*
Crocus veluchensis Herb.
Iris attica Boiss. & Heldr.

JUGLANDACEAE

- Juglans regia* L.

JUNCACEAE

- Juncus alpinoarticulatus* Chaix subsp. *alpinoarticulatus*
Juncus articulatus L.
Juncus effusus L.
Juncus inflexus L.
Juncus minutulus V. Krecz. & Gontsch.
Juncus thomasi Ten.
 * *Luzula forsteri* (Sm.) DC.
Luzula multiflora (Ehrh.) Lej.
Luzula spicata (L.) DC. subsp. *pindica* (Hauskn.) Gamisans
Luzula sudetica (Willd.) DC.
Luzula sylvatica (Huds.) Gaudin subsp. *sylvatica*

LAMIACEAE

- Acinos alpinus* (L.) Moench subsp. *meridionalis* (Nyman) P.W. Ball
Acinos graveolens (M. Bieb.) Link
 * *Ajuga chamaepitys* (L.) Schreb. subsp. *chia* (Schreb.) Arcang.
 * *Ajuga orientalis* L. subsp. *orientalis*
Ballota acetabulosa (L.) Benth.
Betonica alopecuroides L.
 * *Calamintha grandiflora* (L.) Moench
 * *Calamintha incana* (Sm.) Boiss.
 * *Calamintha nepeta* (L.) Savi subsp. *glandulosa* (Req.) P.W. Ball
 * *Clinopodium vulgare* L. subsp. *orientale* Bothmer
 * *Lamium amplexicaule* L.
 * *Lamium garganicum* L. subsp. *garganicum*
Lamium garganicum L. subsp. *striatum* (Sm.) Hayek
 * *Marrubium peregrinum* L.
Marrubium velutinum Sm. subsp. *velutinum*
 * *Marrubium vulgare* L.
 * *Melissa officinalis* L. subsp. *altissima* (Sm.) Arcang.
 * *Melittis melissophyllum* L. subsp. *albida* (Guss.) P.W. Ball
 * *Mentha longifolia* (L.) Huds. subsp. *longifolia*
 * *Mentha spicata* L. subsp. *condensata* (Briq.) Greuter & Burdet
Nepeta nuda L. subsp. *nuda*
Nepeta spruneri Boiss.
 * *Origanum vulgare* L. subsp. *hirtum* (Link) A. Terracc.
Origanum vulgare L. subsp. *vulgare*
Phlomis fruticosa L.
Prunella laciniata (L.) L.
Prunella vulgaris L.
Salvia argentea L.
 * *Salvia fruticosa* Mill.
Salvia ringens Sm.
Salvia sclarea L.
 * *Salvia verbenaca* L.
Micromeria cremnophila Boiss. & Heldr. subsp. *cremnophila*
 * *Micromeria graeca* (L.) Rchb. subsp. *graeca*
Micromeria juliana (L.) Rchb.
 * *Micromeria nervosa* (Desf.) Benth.
 * *Satureja thymbra* L.
 * *Scutellaria columnae* All. subsp. *columnae*
 * *Scutellaria rupestris* Boiss. & Heldr. subsp. *adenotricha*
 (Boiss. & Heldr.) Greuter & Burdet
 * *Sideritis curvidens* Stapf
 * *Sideritis montana* L. subsp. *remota* (d'Urv.) P.W. Ball
 * *Sideritis purpurea* Talbot ex Benth.
Sideritis raeseri Boiss. & Heldr. subsp. *Raeseri*

Appendix I. Plant checklist [asterisk (*) indicates a new plant record].

440. Glo. Adv. Res. J. Agric. Sci.

Stachys germanica L.subsp. *germanica*
Stachys germanica L.subsp. *heldreichii* (Boiss.) Hayek
Stachys germanica L.subsp. *penicillata* (Boiss.) Nyman
Stachys tymphaea Hausskn.
Teucrium capitatum L. subsp. *capitatum*
Teucrium chamaedrys L.subsp. *chamaedrys*
* *Teucrium divaricatum* Heldr.subsp. *divaricatum*
* *Teucrium divaricatum* Heldr. subsp. *graecum* (Čelak.) Bornm.
* *Teucrium flavum* L.subsp. *hellenicum* Rech. f.
* *Teucrium flavum* L.subsp. *gymnocalyx* Rech. f.
Teucrium montanum L.subsp. *montanum*
* *Thymbra capitata* (L.) Cav.
* *Thymbra spicata* L.
Thymus hartvigii R. Morales subsp. *hartvigii*
Thymus leucotrichus Halácsy subsp. *leucotrichus*
Thymus longicaulis C. Presl subsp. *chaubardii* (Rchb. f.) Jalas
* *Thymus longicaulis* C.Presl subsp. *longicaulis*
* *Thymus parnassicus* Halácsy
Thymus teucrioides Boiss. & Spruner subsp. *teucrioides*

LAURACEAE

Laurus nobilis L.

LILIACEAE

Fritillaria graeca Boiss. & Spruner
Fritillaria mutabilis Kamari
Fritillaria thessala (Boiss.) Kamari subsp. *thessala*
Gagea amblyopetala Boiss. & Heldr.
Gagea fragifera Vill. ex Ehr. Bayer & G. López
* *Gagea graeca* (L.) Irmisch
Gagea villosa (M. Bieb.) Sweet
Lilium chalcedonicum L.
* *Lilium martagon* L.
* *Tulipa australis* Link

LINACEAE

* *Linum bienne* Mill.
Linum catharticum L.
Linum elegans Spruner ex Boiss.
Linum punctatum Preslsubsp. *pycnophyllum*
(Boiss. & Heldr.) Gustavsson
* *Linum strictum* L. subsp. *spicatum* (Pers.) Nyman
* *Linum tenuifolium* L.

LORANTHACEAE

* *Loranthus europaeus* Jacq.

LYTHRACEAE

Lythrum portula (L.) D.A. Webb
* *Lythrum salicaria* L.
Lythrum thymifolia L.

MALVACEAE

* *Alcea biennis* Winterl
* *Malva moschata* L.
Malva neglecta Wallr.
* *Malva sylvestris* L.

MORINACEAE

Morina persica L.

MYRTACEAE

* *Myrtus communis* L. subsp. *communis*

OLEACEAE

Fraxinus excelsior L.
* *Fraxinus ornus* L.
* *Olea europaea* L. subsp. *europaea*
Phillyrea latifolia L.

ONAGRACEAE

Epilobium angustifolium L.
Epilobium dodonaei Vill.
Epilobium gemmascens C.A. Meyer
Epilobium hirsutum L.
Epilobium lanceolatum Sebast. & Mauri
Epilobium montanum L.
Epilobium parviflorum Schreb.

ORCHIDACEAE

Anacamptis boryi (Rchb. f.) R.M. Bateman, Pridgeon & M.W.
Chase
Anacamptis laxiflora (Lam.) R.M. Bateman, Pridgeon & M.W.
Chase subsp. *laxiflora*
Anacamptis morio (L.) R.M. Bateman, Pridgeon & M.W.
Chase subsp. *caucasica* (K. Koch) H. Kretzschmar,
Eccarius & H. Dietr.
Anacamptis pyramidalis (L.) Rich.
Cephalanthera damasonium (Mill.) Druce
Cephalanthera longifolia (L.) Fritsch
Cephalanthera rubra (L.) Rich.
Dactylorhiza baumanniana J. Hölz. & Künkele subsp.
baumanniana
Dactylorhiza cordigera (Fr.) Soó subsp. *pindica*
(B. Willing & E. Willing) H. Baumann & R. Lorenz
Dactylorhiza iberica (Willd.) Soó
Dactylorhiza romana (Sebast.) Soó
Dactylorhiza saccifera (Brongn.) Soó
Dactylorhiza sambucina (L.) Soó
Epipactis atrorubens (Hoffm.) Besser
Epipactis greuteri H. Baumann & Künkele
Epipactis helleborine (L.) Crantz subsp. *helleborine*
Epipactis microphylla (Ehrh.) Sw.
Epipactis palustris (L.) Crantz
Epipactis persica (Soó) Hausskn. ex Nannf.
Epipactis subclausa Robatsch
Gymnadenia conopsea (L.) R. Br. in W.T. Aiton
Gymnadenia rhellicani (Teppner & E. Klein) Teppner & E. Klein
Himantoglossum jankae Somlyay, Kreutz & Óvári
Limodorum abortivum (L.) Sw.
Neotinea lactea (Poir.) R.M. Bateman, Pridgeon & M.W. Chase
Neotinea maculata (Desf.) Steam
Neotinea tridentata (Scop.) R.M. Bateman, Pridgeon & M.W.
Chase
Neottia nidus-avis (L.) Rich.
Neottia ovata (L.) Bluff & Fingerh.
* *Ophrys helenae* Renz
Ophrys lutea Cav. subsp. *galilaea* (H. Fleischm. & Bornm.) Soó
* *Ophrys lutea* Cav. subsp. *lutea*
Ophrys reinholdii H. Fleischm. subsp. *reinholdii*
Ophrys scolopax Cav. subsp. *cornuta* (Steven) E.G. Camus
Ophrys speculum Link subsp. *Speculum*

- Ophrys sphegodes* Mill. subsp. *epirotica* (Renz) Gölz & H.R. Reinhard
Ophrys sphegodes Mill. subsp. *mammosa* (Desf.) Soô ex E. Nelson
Ophrys sphegodes Mill. subsp. *sphogodes*
Ophrys sphegodes Mill. subsp. *spruneri* (Nyman) E. Nelson
Orchis anthropophora (L.) All.
* *Orchis italica* Poir.
Orchis mascula (L.) L. subsp. *mascula*
Orchis pallens L.
Orchis provincialis Balb. ex Lam. & DC.
Orchis purpurea Huds.
Orchis quadripunctata Cirillo ex Ten.
Orchis simia Lam.
Orchis spitzelii Saut. ex W.D.J. Koch subsp. *spitzelii*
Platanthera chlorantha (Custer) Rchb. in Mössler
subsp. *chlorantha*
Serapias bergonii E.G. Camus
Serapias vomeracea (Burm. f.) Briq.
Spiranthes spiralis (L.) Chevall.
- OROBANCHACEAE**
* *Bellardia latifolia* (L.) Cuatrec. subsp. *latifolia*
* *Bellardia trixago* (L.) All.
* *Bellardia viscosa* (L.) Fisch. & C.A. Mey.
Euphrasia liburnica Wettst.
Euphrasia minima DC.
Euphrasia pectinata Ten.
Euphrasia salisburgensis Hoppe
* *Odontites linkii* Heldr. & Sartori ex Boiss.
* *Rhinanthus pubescens* (Sterneck) Soó
Pedicularis graeca Bunge.
Rhynchosorys elephas (L.) Griseb. subsp. *elephas*
- PAEONIACEAE**
Paeonia mascula (L.) Mill.
- PAPAVERACEAE**
* *Papaver rhoeas* L.
- PARNASSIACEAE**
Parnassia palustris L.
- PLANTAGINACEAE**
Plantago argentea Chaix
* *Plantago bellardii* All.
Plantago holosteam Scop.
* *Plantago lagopus* L.
Plantago lanceolata L.
* *Plantago major* L.
- PLATANACEAE**
Platanus orientalis L.
- PLUMBAGINACEAE**
Acantholimon graecum F.K. Mey.
Armeria canescens (Host) Boiss.
* *Plumbago europaea* L.
- POACEAE**
* *Achnatherum bromoides* (L.) P. Beauv.
Achnatherum calamagrostis (L.) P. Beauv. subsp. *calamagrostis*
* *Aegilops biuncialis* Vis. subsp. *biuncialis*
* *Aegilops neglecta* Bertol. subsp. *neglecta*
* *Aegilops triuncialis* L. subsp. *triuncialis*
Agrostis gigantea Roth subsp. *gigantea*
Agrostis stolonifera L. subsp. *stolonifera*
* *Aira elegantissima* Schur
Alopecurus gerardii Vill. subsp. *gerardii*
Anthoxanthum odoratum L.
Arrhenatherum elatius (L.) J. & C. Presl
* *Arundo donax* L.
* *Avena barbata* Link subsp. *barbata*
* *Avena fatua* L.
* *Avena sterilis* L.
Avenula pubescens (Huds.) Dumort. subsp. *pubescens*
Bellardiochloa variegata (Lam.) Kerguelén
* *Brachypodium distachyon* (L.) P. Beauv.
* *Brachypodium pinnatum* (L.) P. Beauv.
* *Brachypodium retusum* (Pers.) P. Beauv.
* *Brachypodium rupestre* (Host) Roem. & Schult. subsp. *rupestre*
Brachypodium sylvaticum (Huds.) P. Beauv. subsp. *sylvaticum*
* *Briza humilis* M.Bieb.
* *Briza maxima* L.
* *Briza media* L. subsp. *elatior* (Sm.) Rochlena
* *Bromus benekenii* (Lange) Trimen
Bromus cappadocicus Boiss. & Balansa subsp. *lacmonicus*
(Hausskn.) P.M. Sm.
* *Bromus commutatus* Schrad. subsp. *neglectus* (Parl.) P.M. Sm.
* *Bromus fasciculatus* C. Presl
Bromus hordeaceus L. subsp. *mediterraneus*
(H. Scholz & F.M. Vázquez) H. Scholz
* *Bromus intermedius* Guss. subsp. *intermedius*
* *Bromus japonicus* Thunb.
Bromus lanceolatus Roth
* *Bromus madritensis* L. subsp. *hausknechtii* (Boiss.) H. Scholz
* *Bromus ramosus* Huds.
Bromus riparius Rehmman
* *Bromus scoparius* L.
Bromus squarrosus L. subsp. *squarrosus*
* *Bromus sterilis* L.
* *Bromus tectorum* L.
Calamagrostis varia (Shrad.) Host subsp. *varia*
* *Catopodium rigidum* (L.) C.E. Hubb.
* *Chrysopogon gryllus* (L.) Trin.
* *Cynodon dactylon* (L.) Pers.
Cynosurus cristatus L.
Cynosurus echinatus L.
* *Cynosurus effusus* Link
* *Dactylis glomerata* L. subsp. *hispanica* (Roth.) Nyman
* *Dasyphyrum villosum* (L.) P. Candargy
Deschampsia cespitosa (L.) P. Beauv. subsp. *cespitosa*
Festuca alfrediana Foggi & Signorini
Festuca jeanpertii (St-Yves) Markgr. subsp. *jeanpertii*
Festuca polita (Halácsy) Tzvelev subsp. *polita*
Festuca rubra L. subsp. *junkea* (Hack.) Soó
Festuca valesiaca Gaudin subsp. *valesiaca*
* *Gastridium ventricosum* (Gouan) Schinz & Thell.
Glyceria fluitans (L.) R. Br.
Helictochloa aetolica (Rech. f.) Romero Zarco
Helictochloa compressa (Heuff.) Romero Zarco
* *Helictotrichon convolutum* (C.Presl.) Henrard

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442. *Glo. Adv. Res. J. Agric. Sci.*

- Holcus lanatus* L. subsp. *lanatus*
* *Hordelymus europaeus* (L.) Harz.
* *Hordeum bulbosum* L.
* *Hordeum murinum* L.
Koeleria lobata (M. Bieb.) Roem. & Schult.
* *Lolium multiflorum* Lam.
* *Lolium perenne* L.
* *Lolium rigidum* Gaudin subsp. *rigidum*
Melica ciliata L.
* *Melica uniflora* Retz.
* *Milium vernale* M. Bieb.
Nardus stricta L.
Phleum alpinum L.
Phleum phleoides (L.) H. Karst.
* *Phleum pratense* L.
Phleum subulatum (Savi) Asch. & Graebn.
* *Phragmites australis* (Cav.) Steud. subsp. *australis*
* *Piptatherum coerulescens* (Desf.) P. Beauv.
* *Piptatherum miliaceum* (L.) Coss.
* *Poa annua* L. subsp. *annua*
* *Poa bulbosa* L. subsp. *bulbosa*
* *Poa bulbosa* subsp. *pseudoconcinna* (Schur) Asch. & Graebn.
Poa compressa L.
* *Poa nemoralis* L. subsp. *nemoralis*
Poa pratensis L. subsp. *pratensis*
Poa thessala Boiss. & Orph.
Poa timoleontis Heldr. ex Boiss.
* *Poa trivialis* L. subsp. *sylvicola* (Guss.) H. Lindb.
* *Poa trivialis* L. subsp. *trivialis*
* *Psilurus incurvus* (Gouan) Schinz & Thell.
Secale strictum (C. Presl) C. Presl subsp. *strictum*
* *Sesleria tenerrima* (Fritsch) Hayek
* *Stipa holosericea* Trin. subsp. *Holosericea*
Stipa pulcherrima K. Koch subsp. *crassiculmis* (P.A. Smirn.) Tzvelev
* *Taeniatherum caput-medusae* (L.) Nevski subsp. *crinitum* (Schreb.) Melderis
Trisetum flavescens (L.) P. Beauv. subsp. *splendens* (C. Presl) Arcang.
* *Trisetum flavescens* (L.) P. Beauv. subsp. *tenuis* (Formánek) Strid
* *Vulpia ciliata* Dumort. subsp. *ciliata*
* *Vulpia muralis* (Kunth) Nees
* *Vulpia myuros* (L.) C.C. Gmel.

POLYGALACEAE

- Polygala alpestris* Rchb. subsp. *croatica* (Chodat) Hayek
* *Polygala monspeliaca* L.
Polygala nicaeensis W.D.J. Koch subsp. *mediterranea* Chodat
Polygala vulgaris L.

POLYGONACEAE

- * *Polygonum arenarium* Waldst. & Kit.
Polygonum aviculare L.
Rumex acetosella L. subsp. *acetoselloides* (Balansa) Nijs
* *Rumex conglomeratus* Murray
Rumex kernerii Borbás
Rumex nebroides Campd.
Rumex patientia L.
Rumex pulcher L. subsp. *pulcher*
* *Rumex scutatus* L.

- * *Rumex tuberosus* L. subsp. *tuberosus*

PORTULACACEAE

- * *Portulaca oleracea* aggr.

PRIMULACEAE

- * *Anagallis arvensis* L.
* *Cyclamen graecum* Link subsp. *graecum*
* *Cyclamen hederifolium* Aiton
* *Lysimachia atropurpurea* L.
* *Lysimachia punctata* L.
Lysimachia serpyllifolia Schreb.
Primula veris L. subsp. *veris*
Samolus valerandi L.

RAFFLESIACEAE

- * *Cytinus hypocistis* (L.) L. subsp. *hypocistis*

RANUNCULACEAE

- Actaea spicata* L.
Anemone apennina L. subsp. *blanda* (Schott & Kotschy) Nyman
* *Anemone coronaria* L.
Caltha palustris L.
* *Clematis flammula* L.
Clematis vitalba L.
Consolida ajacis (L.) Schur
* *Ficaria verna* Huds. subsp. *ficariiformis* (F.W. Schultz) B. Walln.
Helleborus odoratus Waldst. & Kit. subsp. *cyclophyllus* (A. Braun) Maire & Petitm.
Myosurus minimus L.
* *Nigella damascena* L.
Ranunculus arvensis L.
Ranunculus brevifolius Ten.
Ranunculus brutius Ten.
* *Ranunculus gracilis* E.D. Clarke
Ranunculus lateriflorus DC.
* *Ranunculus paludosus* Poir.
Ranunculus peltatus Schrank subsp. *peltatus*
Ranunculus psilostachys Griseb.
Ranunculus sartorianus Boiss. & Heldr.
Ranunculus serbicus Vis.
Ranunculus trichophyllus Chaix
Ranunculus velutinus Ten.
Thalictrum aquilegifolium L.
Thalictrum minus L. subsp. *saxatile* DC. ex Ces.
Trollius europaeus L.

RESEDACEAE

- * *Reseda lutea* L. subsp. *lutea*

RHAMNACEAE

- * *Frangula rupestris* (Scop.) Schur
* *Paliurus spina-christi* Mill
* *Rhamnus alaternus* L. subsp. *alaternus*
* *Rhamnus alpina* L. subsp. *fallax* (Boiss.) Maire & Petitm.
* *Rhamnus lycioides* L. subsp. *graeca* (Boiss. & Reut.) Tutin
Rhamnus saxatilis Jacq. subsp. *prunifolia* (Sm.) Aldén

ROSACEAE

- * *Agrimonia eupatoria* L. subsp. *eupatoria*
Alchemilla xanthochlora Rothm.

Aremonia agrimonioides (L.) DC. subsp. *pouzarii* Skalický
Cotoneaster integerrimus Medik.
Cotoneaster tomentosus (Aiton) Lindl.
* *Crataegus heldreichii* Boiss.
* *Crataegus monogyna* Jacq.
* *Crataegus orientalis* Pall. ex M. Bieb. subsp. *orientalis*
Filipendula vulgaris Moench
Fragaria vesca L.
* *Geum urbanum* L.
* *Potentilla inclinata* Vill.
Potentilla pedata Wild.
* *Potentilla reptans* L.
Potentilla speciosa Willd.
* *Prunus avium* (L.) L.
Prunus cocomilia Ten.
* *Prunus domestica* L. subsp. *insititia* (L.) Bonnier & Layens
* *Prunus dulcis* (Miller) D.A. Webb
Prunus mahaleb L.
Prunus prostrata Labill.
Prunus spinosa L. subsp. *dasyphylla* (Schur) Domin
* *Pyrus spinosa* Forssk.
Rosa agrestis Savi
Rosa arvensis Hudson
* *Rosa canina* L.
* *Rosa dumalis* Bechst.
* *Rosa gallica* L.
Rosa pulverulenta M. Bieb.
* *Rubus caesius* L.
* *Rubus canescens* DC.
* *Rubus hirtus* Waldst. & Kit.
Rubus idaeus L.
* *Rubus sanctus* Schreb.
* *Sanguisorba minor* Scop. subsp. *balearica* (Nyman)
Muños Garm. & C. Navarro
Sanguisorba officinalis L.
Sorbus aria (L.) Crantz
* *Sorbus domestica* L.
Sorbus umbellata (Desf.) Fritsch subsp. *umbellata*

RUBIACEAE

Asperula aristata L. f. subsp. *condensata* (Boiss.) Ehrend. & Krendl
* *Asperula boissieri* Boiss.
* *Asperula chlorantha* Boiss. & Heldr.
* *Asperula laevigata* L.
Asperula lutea Sm. subsp. *lutea*
Asperula oetaea (Boiss.) Halácsy
* *Crucianella angustifolia* L.
* *Crucianella graeca* Boiss.
* *Crucianella latifolia* L.
Cruciata laevipes Opiz.
Cruciata pedemontana (Bellardi) Ehrend.
* *Galium aparine* L.
Galium circae Krendl
Galium citraceum Boiss.
* *Galium divaricatum* Lam
Galium hellenicum Krendl
* *Galium incanum* Sm. subsp. *incanum*
* *Galium intricatum* Margot & Reut.
* *Galium murale* (L.) All.
Galium palustre L.

* *Galium rivale* (Sm.) Griseb..
* *Galium rotundifolium* L.
* *Galium setaceum* Lam.
* *Galium spurium* L.
Galium thymifolium Boiss. & Heldr.
Galium verticillatum Danthoine
Galium verum L. subsp. *verum*
* *Plocama calabrica* (L. f.) M. Backlund & Thulin
* *Rubia peregrina* L.
* *Sherardia arvensis* L.
* *Valantia hispida* L.

RUSCACEAE

* *Ruscus aculeatus* L.

RUTACEAE

Dictamnus albus L.
* *Ruta graveolens* L.
Ruta montana (L.) L.

SALICACEAE

* *Populus nigra* L. subsp. *nigra*
Populus tremula L.
* *Salix alba* L.
* *Salix eleagnos* Scop.
* *Salix fragilis* L.
* *Salix purpurea* L.

SANTALACEAE

Arceuthobium oxycedri (DC.) M. Bieb
* *Osyris alba* L.
Thesium arvense Horvatovszky
* *Thesium bergeri* Zucc.
Thesium divaricatum Mert. & W.D.J. Koch
Thesium parnassi A. DC.
* *Viscum album* L. subsp. *abietis* (Wiesb.) Abrom.

SAXIFRAGACEAE

Saxifraga adscendens L. subsp. *parnassica* (Boiss. & Heldr.) Hayek
Saxifraga exarata Vill.
Saxifraga paniculata Mill.
Saxifraga rotundifolia L. subsp. *rotundifolia*
Saxifraga scardica Griseb.
Saxifraga sempervivum K. Koch
Saxifraga tridactylites L.

SMILACAEAE

* *Smilax aspera* L.

SCROPHULARIACEAE

Limosella aquatica L.
* *Scrophularia canina* L. subsp. *bicolor* (Sm.) Greuter
* *Scrophularia heterophylla* Willd.
Scrophularia laciniata Waldst. & Kit.
Scrophularia scopolii Hoppe
* *Scrophularia umbrosa* Dumort.
Verbascum epixanthinum Boiss. & Heldr.
* *Verbascum graecum* Heldr. & Sartori ex Boiss.
* *Verbascum macrurum* Ten.
Verbascum mallophorum Boiss. & Heldr.

Appendix I. Plant checklist [asterisk (*) indicates a new plant record].

444. *Glo. Adv. Res. J. Agric. Sci.*

- * *Verbascum pulverulentum* Vill.
- * *Verbascum sinuatum* L.
- Verbascum speciosum* Schrad. subsp. *megaphlomos* (Boiss. & Heldr.) Nyman
- * *Verbascum undulatum* Lam.

SOLANACEAE

Atropa belladonna L.

TAMARICACEAE

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

THYMELEACEAE

Daphne oleoides Schreb. subsp. *oleoides*

TILIACEAE

Tilia platyphyllos Scop.

TYPHACEAE

Typha latifolia L.

ULMACEAE

- * *Celtis australis* L.
- * *Ulmus glabra* Huds.
- * *Ulmus minor* Mill. subsp. *minor*
- Ulmus procera* Salisb.

URTICACEAE

- * *Parietaria officinalis* L.
- * *Urtica dioica* L.
- * *Urtica pilulifera* L.

VALERIANACEAE

- Centranthus longiflorus* Steven subsp. *junceus* (Boiss. & Heldr.) I. Richardson
- * *Centranthus ruber* (L.) DC. subsp. *sibthorpii* (Boiss.) Hayek
- Valeriana italica* Lam.
- Valeriana tuberosa* L.
- * *Valerianella carinata* Loisel.
- * *Valerianella microcarpa* Loisel.

VERBENACEAE

- * *Verbena officinalis* L.
- * *Vitex agnus-castus* L.

VERONICACEAE

- Digitalis ferruginea* L. subsp. *ferruginea*
- * *Digitalis laevigata* Waldst. & Kit. subsp. *graeca* (Ivanina) Werner
- * *Linaria pelisseriana* (L.) Miller
- Linaria peloponnesiaca* Boiss. & Heldr.
- * *Linaria simplex* Desf.
- * *Veronica agrestis* L.
- * *Veronica anagalis-aquatica* L.
- Veronica arvensis* L.
- Veronica beccabunga* L. subsp. *beccabunga*
- Veronica chamaedrys* L. subsp. *chamaedryoides* (Bory & Chaub.) M.A. Fisch.
- * *Veronica cymbalaria* Bodard
- Veronica glauca* Sm. subsp. *peloponnesiaca* (Boiss. & Orph.) Maire & Petitm.
- * *Veronica hederifolia* L.

- Veronica oetaea* Gustavsson
- Veronica orsiniana* Ten. subsp. *orsiniana*
- Veronica praecox* All.
- Veronica serpyllifolia* L. subsp. *serpyllifolia*
- Veronica thymifolia* Sm.
- * *Veronica triloba* (Opiz) Opiz
- Veronica verna* L.

VIOLACEAE

- Viola aetolica* Boiss. & Heldr.
- Viola alba* Besser subsp. *dehnhardtii* (Ten) W. Becker
- Viola graeca* (W. Becker) Halácsy
- Viola odorata* L.
- Viola parvula* Tineo
- Viola poetica* Boiss. & Spruner
- Viola reichenbachiana* Boreau
- Viola riviniana* Rchb.
- Viola sieheana* W. Becker

ZYGOPHYLLACEAE

- * *Tribulus terrestris* L.