

THE DIVERSITY AND DISTRIBUTION OF FLORA OF THE ISLAND OF ZLARIN (NORTHERN DALMATIA)

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The flora of the island of Zlarin was studied in 2019 and mapped using the Central European grid (MTB fields), the area studied consisting of nine MTB 1/64 fields. Altogether 576 vascular plant taxa (532 species and 44 subspecies) were identified, out of which there were 126 newly recorded, 450 previously recorded and confirmed, while 153 taxa from previous authors were not confirmed. In total, 730 taxa are currently recorded on the island of Zlarin. Among these, 580 taxa are indigenous, 147 cultivated and 23 listed as invasive in Croatia. Cultivated and adventitious plants were not included in the analysis of families and life forms. The largest number of taxa was attributed to the families *Compositae* (13.89%), *Fabaceae* (12.01%) and *Poaceae* (10.98%). Along with the domination of therophytes, the results of the phytogeographical analysis show a dominance of the Mediterranean floral element, indicating the character of the flora. Altogether 13 endemic, 44 endangered and 42 strictly protected indigenous species and subspecies are currently recorded on the island. The highest plant richness was observed in fields with higher habitat diversity and in fields with olive groves maintained by mowing. Moderate human impact and habitat diversity are crucial for the increase in floristic diversity on small islands and are much more important than the size of the island itself.

Key words: endemic plants, floral elements, IUCN, mapping, life forms

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Tijekom 2019. istražena je i kartirana flora otoka Zlarina, uz upotrebu srednjeeuropske mreže kartiranja (MTB polja), prema kojoj se područje istraživanja sastojalo od devet MTB 1/64 kvadrana. Pri tome je zabilježeno 576 svojiti (532 vrste i 44 podvrste) vaskularnih biljaka, od čega je 126 svojiti zabilježeno po prvi put, 450 ranije zabilježenih svojiti je potvrđeno, dok 153 ranije zabilježene svojite nisu potvrđene. U konačnici, na otoku je sveukupno do danas zabilježeno 730 svojiti. Među njima, 580 svojiti je samoniklo, 147 je kultivirano, a 23 se smatraju invazivnima. Kultivirane i adventivne biljke nisu uključene u analizu porodica i životnih oblika. Najveći broj zabilježenih svojiti pripada porodicama *Compositae* (13,89%), *Fabaceae* (12,01%) i *Poaceae* (10,98%). Rezultati fitogeografske analize samonikle flore pokazuju dominaciju mediteranskog flornog elementa, što zajedno s dominacijom terofita ukazuje na mediteranski karakter flore otoka. Zabilježeno je 13 endemičnih, 44 ugrožene i 42 strogo zaštićene vrste i podvrste. Najbogatiji vrstama bili su kvadranti karakterizirani većom raznolikosti staništa i redovno košenim maslinicima. To nam govori da su za povećanje florističke raznolikosti na malim otocima od veličine samog otoka puno važniji umjereni ljudski utjecaj i raznolikost staništa.

Ključne riječi: endemi, florni elementi, IUCN, kartiranje, životni oblici

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INTRODUCTION

The island of Zlarin (Northern Dalmatia) lies in the central part of the eastern Adriatic coast, in the Šibenik archipelago (Fig. 1). According to the 2011 census report, Zlarin is permanently inhabited by 284 people (ANONYMOUS, 2020), all living in the single settlement on the northwestern side of the island, the village of Zlarin. The island is 6.2 km long, elongated in the NW-SE direction, with an average width of 2.1 km and an area of 8.19 km² (KALOČJERA, 1997). The highest point on the island is Klepac, 169 m a. s. l. The geological structure of the island is mostly limestone and dolomite of the Upper Cretaceous. Cretaceous limestones, pure limestone and limestone rudist Senonian dominate in the southwestern coast, while dolomites are widespread throughout the northeastern part, with occasional deposits or layers in the southwestern part (MAMUŽIĆ, 1971). According to Koppen, the climate of the wider area (Šibenik archipelago) is Mediterranean (Csa) characterized by mild winters and hot summers (ŠEGOTA & FILIPČIĆ, 2003).

Phytogeographically, the area belongs to the typical Mediterranean zone within the Mediterranean littoral vegetation belt, and *Quercus ilex* L. forest used to be the primary vegetation on the island. However, due to the long-term human influence, the forest has been degraded and nowadays other forms of vegetation have taken over. Today, most parts of the island are overgrown with dense populations of *Pinus halepensis* Mill., the rest being mainly covered in macchia and garrigue. Other, less common, habitat types are grasslands and cultivated areas such as olive groves and gardens.

Data on previously recorded taxa were collected from the Flora Croatica Database (NIKOLIĆ, 2020). The first check list of the flora of Zlarin was prepared by PANDŽA (1998b), with an addition made a year later (TRINAJSTIĆ & PAVLETIĆ, 1999). The last study was conducted by MILOVIĆ & PANDŽA (2010), when five localities were floristically surveyed. Other data originate from older studies not addressing merely the flora of the island of Zlarin (HOST, 1802; VISIANI, 1842, 1847), herbarium data from the ZA, ZAGR and CNHM collections (URL <http://hirc.botanic.hr/fcd>) and field observations (MILOVIĆ & PANDŽA, 2009a; KAUF, 2010; ŠINCEK, 2010). In sum, 607 taxa of vascular plants had already been recorded on Zlarin prior to our study.

Zlarin is an example of positive practice in terms of active nature conservation. It is the first zero-waste island in Croatia with no motor vehicles, as their use on the island is prohibited. For this reason, Zlarin was recognized by the international NGO SMILO ("Small island organization"), supporting small islands around the world towards sustainability, trying to declare Zlarin a sustainable island since 2016, inviting the national NGO BIUS ("Biology student association") to explore the biodiversity of the island. The aim of this research was therefore to perform a comprehensive floristic study of Zlarin within the framework of a BIUS project, map the existing flora, and prepare a synthesis of all the floristic surveys conducted on the island of Zlarin to date.

MATERIALS AND METHODS

Once a year BIUS organizes a major research and education project which takes place one week in May and one week in September. As a part of this field research, the Section for Botany conducted systematic mapping of the flora of the island of

Zlarin. Fieldwork was carried out on two occasions in 2019, both times within a period of one week. The first fieldtrip was undertaken at the beginning of May, while the second was at the end of September. We conducted a detailed floristic survey of the whole island, which was thoroughly searched several times, noting the presence of flora and performing systematic, indirect mapping, using the Central European grid composed of MTB fields. The approximate area of one MTB 1/64 field is 2.1 km²; and the study area comprised of nine such fields (Fig. 1). The 1:25000 topographic map and a GARMIN e-trex GPS device were used for determining the position and the boundaries of the mapping fields. Any specimens collected were stored in the ZA herbarium collection at the Division of Botany of the Department of Biology, Faculty of Science, University of Zagreb. Rare, endemic and strictly protected species were not collected, but only photographed.

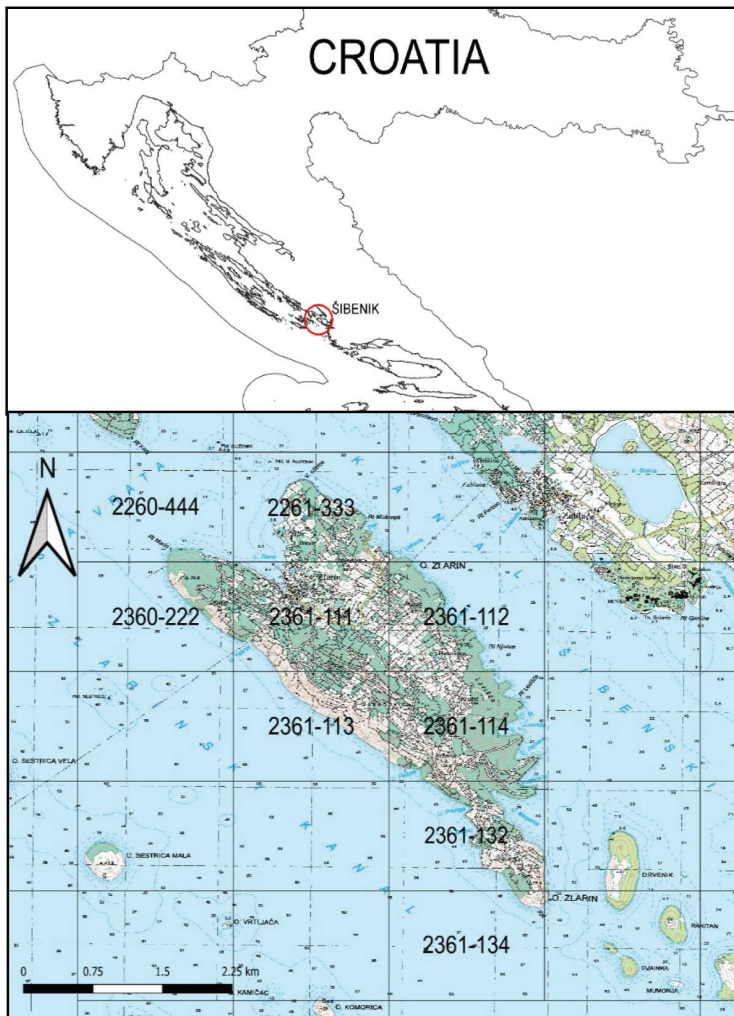


Fig. 1. Geographic location of the island of Zlarin and its division into nine MTB 1/64 fields.

Taxa were identified using standard identification keys and iconographies such as: HORVATÍĆ (1954), DOMAC (1994), JÁVORKA & CSAPODY (1991), PIGNATTI (2018), ALEGRO (2003), ALEGRO *et al.* (2003), BOGDANOVIĆ (2003), BLAMEY & GREY-WILSON (2004), DELFORGE (2006), NIKOLIĆ (2019). The Flora Croatica Database (NIKOLIĆ, 2020) was mainly used as a standard for the nomenclature of taxa, with the exception of some cultivated, adventitious, taxonomically unresolved taxa and varieties (*Callistemon citrinus*, *Colchicum haynaldii*, *Cortaderia selloana*, *Cycas revoluta*, *Gaura lindheimeri*, *Lantana camara*, *Lavandula stoechas*, *Picea pungens*, *Plumbago auriculata*, *Poa bulbosa* var. *vivipara*, *Salvia greggii*, *Salvia splendens* and *Zanthoxylum armatum*), when The Plant List (2020) was used as a nomenclature reference. Taxa were given in the alphabetical order of families, genera and species. The list comprises both taxa previously recorded by other authors and taxa found during this research. Names of the taxa recorded for the first time are marked with an asterisk. For unconfirmed taxa, a corresponding reference previously recording them was provided. For MTB 1/64 fields, a code and coordinates of a field centroid are given (Tab. 1).

Tab. 1. Nine researched MTB 1/64 fields with codes and coordinates of field centroids in WGS84 coordinate system.

MTB 1/64 field	Field code	X	Y
2361-111	A	15.83854	43.69376
2361-112	B	15.85937	43.69375
2361-114	C	15.85937	43.68125
2361-132	D	15.85936	43.66876
2261-333	E	15.83853	43.70625
2260-444	F	15.81771	43.70626
2360-222	G	15.81772	43.69375
2361-113	H	15.83854	43.68125
2361-134	I	15.85937	43.65625

Some taxa on the list are designated as alien and invasive, and all other taxa are considered native (according to NIKOLIĆ *et al.*, 2014 and NIKOLIĆ, 2020). Cultivated and adventitious plant taxa were not included in the analysis of families and life forms.

The analysis of life forms was carried out according to HORVAT (1949). The abbreviations of life forms are given as follows: Ch – chamaephyta, H – hemicryptophyta, P – phanerophyta, G – geophyta, Hy – hydrophyta, T – therophyta.

The phytogeographical analysis of flora was carried out according to HORVATÍĆ (1963), HORVATÍĆ *et al.* (1968) and PIGNATTI (2005), with the addition of category "Strictly cultivated", using the abbreviations as follows:

1. MEDITERRANEAN FLORAL ELEMENT – MED

- A. Circum-Mediterranean plants – CME
- B. West Mediterranean plants – WME
- C. East Mediterranean plants – EME
- D. Illyrian – Mediterranean plants
 - a) Illyrian South European plants – ISEU

b) Illyrian Adriatic plants:

1. Illyrian Adriatic endemic plants – **ILAE**
2. Illyrian Apennine plants – **ILAP**

E. Mediterranean Atlantic plants – **MEAT**

F. European Mediterranean plants – **EUME**

G. Mediterranean Pontic plants – **MEPO**

2. ILLYRIAN-BALCANIC FLORAL ELEMENT

A. Illyrian-Balcanic endemic plants – **ILBE**

3. SOUTH EUROPEAN FLORAL ELEMENT – SEU

A. South European Mediterranean plants – **SEUME**

B. South European Pontic plants – **SEUPO**

C. South European Atlantic plants – **SEUAT**

D. South European Mountain plants – **SEUMO**

4. SOUTHEAST EUROPEAN FLORAL ELEMENT – SEEU

5. EAST EUROPEAN-PONTIC FLORAL ELEMENT – EEUPO

6. EUROPEAN FLORAL ELEMENT – EU

7. CENTRAL EUROPEAN FLORAL ELEMENT – CEU

8. EURASIAN FLORAL ELEMENT – EUAS

9. CIRCUM-HOLARCTIC SPREAD PLANTS – CIHO

10. WIDESPREAD PLANTS – WSP

11. CULTIVATED AND ADVENTITIOUS PLANTS – CUAD

12. STRICTLY CULTIVATED – SC

The category “Strictly cultivated” was introduced to separate non-naturalized taxa, such as some ornamentals and plants cultivated for consumption, which were also recorded during our study but excluded from all analyses except the analysis of floral elements.

Out of natives, the only exception was *Orobanche* sp., not identified to the species level, so no floral element could be defined and it was therefore not included in the corresponding analysis.

The analysis of endemic taxa was carried out using the Flora Croatica Database (FCD) (NIKOLIĆ, 2020) and that of threatened taxa with the use of the Red Book of the Vascular Flora of Croatia (NIKOLIĆ & TOPIĆ, 2005). Threatened taxa are marked with corresponding IUCN abbreviations showing the degree of threat for each taxon as follows: Endangered – **EN**, Vulnerable – **VU**, Near Threatened – **NT**, Least Concern – **LC** and Data Deficient – **DD**. Data on legally protected taxa are taken from the Ordinance of strictly protected species in Croatia (ANONYMOUS, 2013).

The Pearson's coefficient was used to demonstrate the correlation between the taxa diversity and habitats. The total number of taxa (cultivated excluded) and the number of Red-listed taxa were used to describe taxa diversity, while habitat diversity was expressed through the number of different habitat types. Area percentage of forest and non-forest habitats was used to investigate the possible impact of habitat physiognomy on taxa diversity. In addition, area percentages of non-forest habitats (garrigues, grasslands, olive groves and halophytic habitats) were used to further investigate the possible impact of different habitat types on taxa diversity. The area percentages of habitat types were calculated using the most recent Habitat Map of Croatia (BARDI *et al.*, 2016). The analysis was performed in Past 4.0 software (HAMMER *et al.*, 2001).

RESULTS

Our study resulted in the finding of 576 taxa, including 532 species and 44 subspecies, out of which 126 taxa are newly recorded on the island. Altogether 452 previously recorded taxa have been confirmed in this research, while 152 taxa were not confirmed. In total, 730 taxa are currently recorded in the flora of Zlarin. Among these, 580 taxa are indigenous (Appendix 1). Indigenous taxa belong to 85 families, and families with the highest number of taxa are *Compositae* with 80 taxa (13.89%) and *Fabaceae* with 70 taxa (12.01%), followed by *Poaceae* (64 taxa, 10.98%) and *Lamiaceae* (27 taxa, 4.63%) (Tab. 2). The analysis of plant life forms showed that therophytes account for 44.67%, hemicryptophytes for 26.46%, phanerophytes for 11.51%, chamaephytes for 8.59%, geophytes for 8.25% and hydrophytes for 0.52% of the total number (Fig. 2).

Taxa recorded in this research most commonly belong to the Mediterranean floral element (281 taxa, 38.55%), followed by the South European floral element (113 taxa, 15.50%) and widespread plants (100 taxa, 13.72%) (Fig. 3). Twelve out of 13 endemic taxa found on the island are classified as Illyrian Adriatic endemic plants. All of the

Tab. 2. Families with the highest number of taxa in the flora of Zlarin.

Family	No. of taxa	% of total flora
<i>Compositae</i>	80	13.89
<i>Fabaceae</i>	70	12.01
<i>Poaceae</i>	63	10.98
<i>Lamiaceae</i>	27	4.63
<i>Caryophyllaceae</i>	22	3.77
<i>Scrophulariaceae</i>	20	3.43
<i>Brassicaceae</i>	19	3.26
<i>Rosaceae</i>	16	2.74
<i>Apiaceae</i>	16	2.74
<i>Orchidaceae</i>	14	2.40
<i>Chenopodiaceae</i>	13	2.23
<i>Euphorbiaceae</i>	11	1.89
<i>Geraniaceae</i>	10	1.72
other families (72)	199	34.31

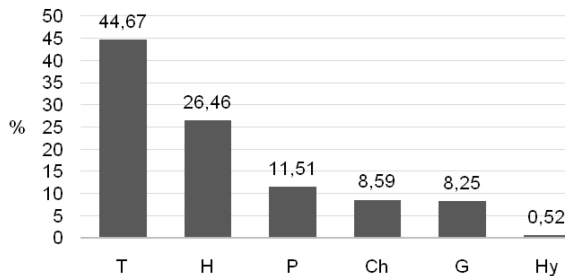


Fig. 2. Life form spectrum of the flora of Zlarin (T – therophyta, H – hemicryptophyta, P – phanerophyta, Ch – chamaephyta, G – geophyta, Hy – hydrophyta).

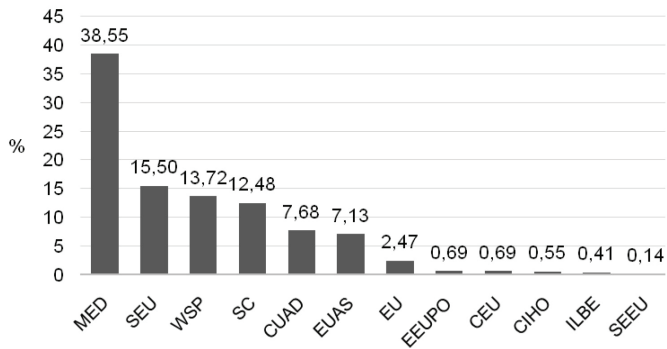


Fig. 3. Chorological spectrum of flora of Zlarin (MED – Mediterranean floral element, SEU – South European floral element, WSP – widespread plants, SC – strictly cultivated plants, CUAD – cultivated and adventitious plants, EUAS – Eurasian floral element, EU – European floral element, EEUPO – East European floral element, CEU – Central European floral element, CIHO – Circum-Holarctic floral element, ILBE – Illyrian-Balcanic endemic plants, SEEU – Southeast European floral element)

recorded endemic taxa are strictly protected by Croatian law. *Centaurea glaberrima*, *Pinus nigra* ssp. *dalmatica* and *Genista sylvestris* ssp. *dalmatica* were not confirmed in this research. The endemic *Ophrys medea* and *Viola suavis* ssp. *adriatica* were newly recorded for the island. The species *Seseli tomentosum*, *Rhamnus intermedia*, *Tanacetum cinerariifolium* and *Limonium cancellatum* were also quite widespread. Less common taxa were *Aurinia sinuata*, *Centaurea spinosociliata* ssp. *cristata* and *Vincetoxicum hirundinaria* ssp. *adriaticum*. *Centaurea spinosociliata* ssp. *tommasinii* was found only in one MTB 1/64 field.

Analysis of the threat status showed that 44 taxa (6.04%) of the flora of Zlarin are classified into one of the IUCN categories, out of which 15 taxa (2.06%) are at risk of extinction in Croatia. Only *Papaver hybridum* is categorized as Critically Endangered (CR). Altogether five taxa were classified as Endangered (EN) and nine taxa as Vulnerable (VU), while 13 taxa were classified as Near Threatened (NT). Seven taxa were classified as Least Concern (LC) and nine taxa were classified as Data Deficient (DD). In total, 42 taxa (5.76%) are strictly protected by Croatian law, out of which there are 11 newly recorded and six unconfirmed. Noteworthy, eight strictly protected taxa

were found in only one MTB 1/64 field: *Centaurea spinosociliata* ssp. *tommasinii*, *Epipactis microphylla*, *Hainardia cylindrica*, *Ophrys medea*, *Orchis morio*, *Papaver hybridum*, *Sempervivum tectorum* and *Trifolium resupinatum*. The most widespread strictly protected taxa were *Orchis tridentata* ssp. *commutata*, *Seseli tomentosum*, *Tanacetum cinerariifolium* and *Delphinium peregrinum*, which were present in seven out of nine MTB 1/64 fields. Altogether 14 orchid taxa were recorded, five of which were new for the island (*Anacamptis pyramidalis*, *Epipactis microphylla*, *Gymnadenia conopsea*, *Ophrys medea* and *Serapias parviflora*). Most orchid taxa were found in maintained olive groves. *Orchis tridentata* was the most widespread of all orchids in terms of MTB 1/64 fields occupied (seven fields), however *Ophrys bertolonii* and *Serapias parviflora* were the most numerous, forming large populations in numerous locations on the island. In addition, very large population of *Limodorum abortivum* was found in the Aleppo pine forest in field E, but only two individuals in field B. The species *Epipactis microphylla*, *Gymnadenia conopsea*, *Orchis morio* and endemic *Ophrys medea* were found extremely rarely, with only one individual each.

Gardens and cultivated areas on the island were occupied by as many as 147 cultivated and adventitious taxa, out of which 91 are strictly cultivated as ornamentals or for human consumption. Among these, 37 are newly recorded and 25 were not confirmed in this research. Cultivated plants were rarely found outside of the gardens, with the exception of *Pisum sativum* and *Vicia faba* which were commonly naturalized, having expanded from cultivated areas. Among the 144 recorded alien taxa, 23 invasive species have been found, 15 of them previously recorded and confirmed in this research. *Euphorbia prostrata*, *Oenothera biennis* and *Parthenocissus quinquefolia* were newly recorded. *Acer negundo*, *Amaranthus deflexus*, *Ambrosia artemisiifolia*, *Conyza canadensis* and *Cuscuta campestris* had been recorded previously but were not confirmed.

Pearson correlation showed a positive correlation between the total number of taxa and the number of habitat types. Also, a positive correlation between the total number of taxa and surface area of olive groves was observed. The same positive correlations were observed between when the number of Red-listed taxa was used (Fig. 4)

DISCUSSION

As is evident from a comparison with other Croatian Adriatic islands (NIKOLIĆ *et al.*, 2008), the updated number of taxa recorded on the island of Zlarin is exceptionally large. The large number of taxa recorded on a relatively small area, 8.19 km², is mostly a result of numerous studies performed on the island within the last 22 years, including our study, conducted in a rather detailed way by searching the whole island and inspecting all available habitats. Other reasons supporting the high variety of recorded taxa are the geographical position of the island and the existence of diverse habitats, which is a consequence of long-term human activity. This region has been inhabited since, at least, the Bronze Age (PODRUG *et al.*, 2016). Therefore, its vegetation has been both directly and indirectly affected by human activities for more than three thousand years.

The fact that 153 taxa were not confirmed could be due to several reasons. Some of the taxa perhaps disappeared due to changes caused by human activities such as

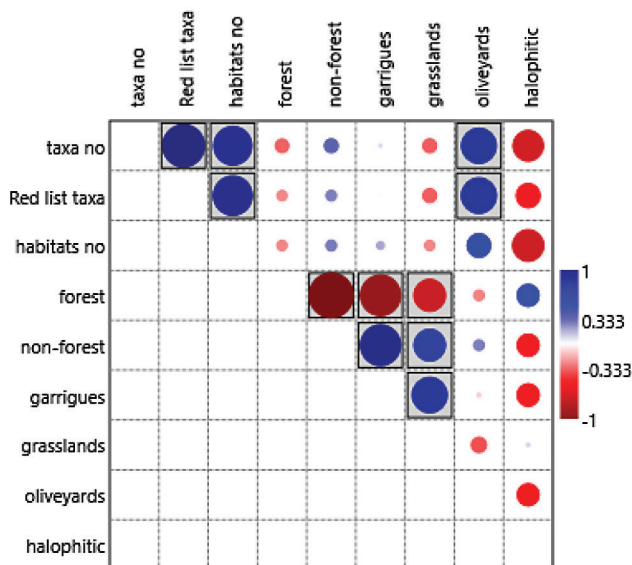


Fig. 4. Pearson’s correlations between taxa diversity (total number of taxa and number of Red listed taxa) and habitat diversity. Red circles represent negative and blue circles positive correlations; the size of the circle corresponds with the strength of the correlation; statistically significant correlations ($P < 0.005$) are presented with squares around the circles.

expansion of settlements and consequential habitat loss. On the other hand, some taxa possibly disappeared due to changes in the local people’s way of life, which implies abandonment of agriculture, for example abandonment of arable lands, lack of maintenance of olive groves, reduction in animal grazing and so on. Human activity plays an important role in increasing biodiversity of the area, thus depopulation in small islands results in a decrease in the number of taxa found. Other unconfirmed taxa probably still occur in the research area but were overlooked or were not recognized due to the lack of characteristics necessary for plant identification. The fact that twelve cultivated taxa were not confirmed in this research may be explained by their replacement by some other species, including some of the 28 newly recorded cultivated taxa.

The previously recorded *Ophrys sphegodes* was treated as unconfirmed, although we have recorded *Ophrys sphegodes* ssp. *atrata*. Most likely the previous finding refers to the same subspecies; however, we cannot state this with absolute certainty, therefore we listed these two taxa separately, as the possibility that the first record was *Ophrys sphegodes* ssp. *sphogodes* cannot be ruled out. Similarly, the previously recorded *Bromus erectus* ssp. *condensatus* was treated as unconfirmed, although we did record *B. erectus*. The recorded taxon most probably corresponds with the previously reported subspecies; however, we did not identify our specimens further than the species level, therefore we cannot say this with absolute certainty. *Ophrys medea*, recorded on the island only once, is a rare and endemic orchid in Croatia. So far it was recorded only at three localities in Croatia: the islands of Cres and Krk by DEVILLERS & DEVILLERS-TERSCHUREN (2004) and on the Istrian peninsula by BOGDANOVIĆ (2012), BOGDANOVIĆ & LJUBIČIĆ (2013) and BOROVIČKI-VOSKA (2019). However, due to

the complexities in orchid identification (especially of the genus *Ophrys*) and the similarity with some other taxa, the distribution of this species should be taken with caution, as it is most probably under-recorded and misidentified in many areas. We did not confirm the previously reported *Quercus virgiliana* due to taxonomical reasons. Although the species was reported by PANDŽA (1998b), more recently it was shown that all Croatian populations should be regarded as *Q. pubescens* (ŠKVORC et al., 2005, 2006; FRANJIĆ et al., 2006). In the case of *Juniperus communis*, we recommend taking previous reports with caution. This taxon typically occurs more continentally, while its findings in the Mediterranean could result from the confusion with *J. oxycedrus*.

Several other noteworthy findings have emerged during this research. Two interesting and rare aquatic species have been recorded, *Zannichellia palustris* and *Ranunculus circinatus*, found in one of the few freshwater wells on the island of Zlarin. Both of these species have been recorded quite seldom in Croatia: the latter was not previously recorded in the Mediterranean part, apart from one finding on the island of Korčula (TRINAJSTIĆ, 1985). The finding of *Alyssum hirsutum* represents the second known finding of the species in Croatia. Prior to this research, the species was found only on the island of Murter (PANDŽA, 2018). Another interesting record was the finding of three individuals of *Vincetoxicum fuscatum*, growing in one locality, on bare ground next to a path. Previous records of this species are scarce, including only a vague mention of Dalmatia (VISIANI, 1852), the islands of Krk (TRINAJSTIĆ, 1965), Hvar (TRINAJSTIĆ, 1993), Cres and Lošinj (WALLNÖFER, 2008) and a locality near the Cetina river (MEKINIĆ et al., 2013). Another rare and newly found species, *Frankenia pulverulenta*, was registered in the village of Zlarin, being the northernmost recorded finding of this species in Croatia. Previous findings referred only to small islands of the southern Adriatic: Island of Biševo (DOBROVIĆ, 2000; BOGDANOVIĆ, 2002b, 2004), Brusnik (GINZBERGER, 1921; PAVLETIĆ et al., 1983; BOGDANOVIĆ, 2001, 2002a, 2016; BOGDANOVIĆ & MITIĆ, 2003), Jabuka (BOGDANOVIĆ, 2004; BOGDANOVIĆ et al., 2008a), Kamik (GINZBERGER, 1921; PAVLETIĆ et al., 1983; BOGDANOVIĆ, 2005, 2013; BOGDANOVIĆ et al., 2008b), Mali Mišjak (MILOVIĆ & PANDŽA, 2009b), and Mljet (REGULA-BEVILACQUA & ILIJANIĆ, 1984).

The finding of three agricultural weeds: *Delphinium peregrinum*, *Papaver hybridum* and *Linaria chalepensis*, designated as EN, CR and DD, respectively, is particularly worth mentioning. Nowadays, agricultural weeds are commonly threatened due to shifting agriculture and habitat loss (NIKOLIĆ & TOPIĆ, 2005), many of them being recognized by the IUCN. Despite the risk however, *D. peregrinum* is very widespread on the island, found in as many as seven of the nine MTB 1/64 fields. On the other hand, only a small population of *P. hybridum* was found on a cultivated area near a house. A rare weed, *L. chalepensis* was found forming a dense population in a traditional vegetable garden, in the settlement of Zlarin. It was previously recorded on Zlarin by MILOVIĆ & PANDŽA (2010).

It is not surprising that the vast majority of recorded taxa belongs to *Compositae*, followed by *Fabaceae* and *Poaceae*. Those families are among the best adapted to the ecological conditions of the Mediterranean area, as confirmed by many floristic studies of floras of other Dalmatian islands in Croatia such as Biševo (PAVLETIĆ, 1974), Mljet (REGULA-BEVILACQUA & ILIJANIĆ, 1984), Olib (MILOVIĆ et al., 2016), Vrgada (PANDŽA et al., 2011) and Žirje (PANDŽA, 2003).

As expected, therophytes are the largest in number within the life-form spectrum as they normally indicate the Mediterranean character of given area. The considerable number of hemipterophytes is the result of strong anthropogenic activities, along with fires and grazing. The given results match the data for the Dalmatian islands of Mljet (REGULA-BEVLACQUA & ILIJANIĆ, 1984), Olib (MILOVIĆ *et al.*, 2016), Krapanj and Prvić (PANDŽA, 1998a), while the islands of Vrgada (PANDŽA *et al.*, 2011), Žirje (PANDŽA, 2003) and Svetac (PAVLETIĆ, 1979) slightly differ from the flora of Zlarin in their third most dominant life form being geophytes instead of phanerophytes. Therefore, the flora of Zlarin more or less coincides with similar Dalmatian islands in the most dominant life forms.

Given that the region of this study belongs to the typically Mediterranean climate, the results of the phytogeographic analysis were as expected. The spectrum of floral elements reflects the phytogeographic location of the researched area. Comparison with floras of other Dalmatian islands shows great similarities. The most dominant floral element in all the floras is the Mediterranean floral element followed by the south-European floral element, cultivated and adventive plants or widespread plants. The high proportion of widespread plants and cultivated and adventive plants is surely a consequence of a strong, long-lasting human influence on the flora and vegetation of the island. The relatively large number of invasive alien taxa recorded is most likely related to the high level of human activity during the long history of the island, which caused the formation of ruderal habitats that are easily and quickly inhabited by invasive taxa. Due to the anthropogenic influence and consequential formation of semi-natural habitats, invasive taxa were, as expected, most represented in fields A and E, that is the fields in which the settlement is located. Noteworthy, although a large number of invasive taxa have been reported, none of them covered a considerable area of the island and their invasive behaviour was not observed. We would however recommend some action towards the eradication of *Ailanthus altissima* and *Carpobrotus acinaciformis*, while their populations are still localized and small. These two aliens are well known for their invasiveness in the Mediterranean with documented adverse effects on local flora (SLADONJA *et al.*, 2015; CAMPOY *et al.*, 2018) and once established, they are very difficult to eliminate.

Pearson correlation showed certain connections between species richness and habitats. The highest richness of flora was found in fields with higher habitat diversity and in fields with maintained olive groves. This was also expected, as anthropogenic pressure in a form of traditional agriculture plays a major role in increasing habitat diversity. The olive groves on Zlarin are managed almost exclusively by mowing, which is seemingly a much better management practice from the standpoint of the nature conservation, in comparison to tilling. The olive groves provide a nursing effect for a number of endemic and endangered taxa of dry grasslands, a habitat which is otherwise, without grazing, exposed to the possibility of disappearance through the process of secondary succession (RADIĆ-LAKOŠ *et al.*, 2014). Although anthropogenic impact is often associated with loss of biodiversity, mostly through habitat destruction and the introduction of alien species, the island of Zlarin is a good example of how anthropogenic pressure in the form of traditional human activities together with habitat diversity can have a positive impact on the floristic diversity of a small island. Anthropogenic impact may even contribute more to biodiversity than the size of the island itself (PANDŽA & MILOVIĆ, 2015), and islands with traditional anthropogenic pressures may have significantly more diverse flora than the islands of similar size without such an impact (PANDŽA *et al.*, 2011).

CONCLUSION

The flora of the island of Zlarin is rather rich, which is partly a result of thoroughness of this and other studies of the island. The floristic analyses did not reveal any unusual results, whereas a common resemblance with other similar areas was found. Habitat diversity, as expected, shows to support plant diversity, and anthropogenic habitats in terms of traditional agriculture (in this case, particularly olive groves), should be preserved, being a valuable reservoirs of plant diversity.

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APPENDIX 1.

The list of vascular plant taxa on the island of Zlarin. Names of the taxa recorded for the first time are marked with an asterisk. For unconfirmed taxa, a corresponding reference previously recording the taxa is provided: H – HOST, 1802; K – KAUF, 2010; M – MILOVIĆ & PANDŽA, 2010; P – PANDŽA, 1998b; P1 – PANDŽA *et al.*, 2005; T – TRINAJSTIĆ & PAVLETIĆ, 1999; V – VUKOVIĆ, 2002.

Family	Taxon	Unconfirmed	MTB field	Life form	Floral element	Endemic	Threatened	Strictly protected	Allocthonous	Invasive
MONILOPHYTA (PTERIDOPHYTA)										
<i>Adiantaceae</i>	<i>Cheilanthes persica</i> (Bory) Mett. ex Kuhn		C	H	EME					
<i>Aspleniaceae</i>	<i>Asplenium ceterach</i> L.		A, B, C, D, E, F, G, H, I	H	SEUME					
	* <i>Asplenium ruta-muraria</i> L.		A, C, E, G	H	CIHO					
	<i>Asplenium trichomanes</i> L.		C, D, E, F, G	H	WSP					
SPERMATOPHYTA – GYMNOSPERMAE										
<i>Cycadaceae</i>	* <i>Cycas revoluta</i> Thunb.		E	P	SC				*	
<i>Cupressaceae</i>	<i>Cupressus horizontalis</i> Mill.		A, E, H	P	EME				*	
	<i>Cupressus sempervirens</i> L.		A, C, E, G, H	P	EME				*	
	<i>Juniperus communis</i> L.	K		P	CIHO					
	<i>Juniperus oxycedrus</i> L. ssp. <i>macrocarpa</i> (Sm.) Ball		D, E, H	P	CME		LC			
	<i>Juniperus oxycedrus</i> L. ssp. <i>oxycedrus</i>		A, B, C, D, E, F, G, H, I	P	CME					
	<i>Juniperus phoenicea</i> L.		C, H	P	CME					
	<i>Thuja orientalis</i> L.		A	P	SC				*	
<i>Ephedraceae</i>	<i>Ephedra fragilis</i> Desf. ssp. <i>campylopoda</i> (C. A. Mayer) Asch. et Graeb.		A, C, D, F, G, H	P	EME		NT			

Family	Taxon	Unconfirmed	MTB field	Life form	Floral element	Endemic	Threatened	Strictly protected	Allochthonous	Invasive
Pinaceae	* <i>Cedrus libani</i> A. Rich.		A	P	SC				*	
	* <i>Picea pungens</i> Engelm.		A	P	SC				*	
	<i>Pinus halepensis</i> Mill.		A, C, D, E, F, G, I	P	CME					
	<i>Pinus nigra</i> J. F. Arnold ssp. <i>dalmatica</i> (Vis.) Franco	T		P	SEUME	*	NT	*		
	<i>Pinus pinea</i> L.	T		P	CME					
SPERMATOPHYTA – ANGIOSPERMAE										
MAGNOLIANA										
Magnoliaceae	* <i>Magnolia grandiflora</i> L.		A	P	SC				*	
LILIANA										
Agavaceae	<i>Agave americana</i> L.		A, B, D	H	CUAD				*	
	<i>Yucca gloriosa</i> L.		B, D, E	P	CUAD				*	
Amaryllidaceae	<i>Allium ampeloprasum</i> L.		C, E, F, G	G	CME					
	<i>Allium cepa</i> L.		E	G	SC				*	
	<i>Allium commutatum</i> Guss.	P		G	CME					
	<i>Allium flavum</i> L.		A	G	CME					
	<i>Allium roseum</i> L.		A, B, E	G	CME					
	<i>Allium sativum</i> L.	P		G	SC				*	
	<i>Allium sphaerocephalon</i> L.		A	G	SEUME					
	<i>Allium subhirsutum</i> L.		C, D, F, G	G	CME					
	<i>Narcissus poeticus</i> L.	T		G	SC				*	
Araceae	<i>Arum italicum</i> Mill.		A, B, C, E	G	MEAT					
Arecaceae	<i>Chamaerops humilis</i> L.		A	P	SC				*	
	<i>Phoenix canariensis</i> Chabaud		A	P	SC				*	
Asparagaceae	<i>Asparagus acutifolius</i> L.		A, B, C, D, E, F, G, H, I	G	CME					
	<i>Muscari comosum</i> (L.) Mill.		A, B, C, D, E, G, H	G	SEUME					
	<i>Muscari neglectum</i> Guss. ex Ten.		A, E, F, G, H	G	CME					
	<i>Ornithogalum refractum</i> Kit. ex Schltr.	M		G	SEUME					
	<i>Ornithogalum umbellatum</i> L.	P		G	SEUME					
	* <i>Ruscus aculeatus</i> L.		G	G	MEPO		LC			
	<i>Scilla autumnalis</i> L.		B, C, D, G	G	MEPO					
<i>Sternbergia lutea</i> (L.) Ker Gawl. Ex Spreng.		A, B, E	G	CME						
Cannaceae	<i>Canna indica</i> L.		A	G	SC				*	
Cyperaceae	<i>Carex distachya</i> Desf.		A	H	CME					
	<i>Carex divulsa</i> Stokes		A, B, E	H	WSP					
	* <i>Carex flacca</i> Schreb. ssp. <i>serrulata</i> (Biv.) Greuter		B, E	G	CME					
	<i>Carex hallerana</i> Asso		C, F	H	SEUME					
	* <i>Carex muricata</i> L.		E	H	EUAS					
	* <i>Cyperus rotundus</i> L.		A, E	G	WSP		EN	*		
Iridaceae	<i>Gladiolus italicus</i> Mill.		C, E	G	SEUME			*		
	<i>Iris germanica</i> L.		A, B, E	G	CUAD			*	*	
Juncaceae	<i>Juncus bufonius</i> L.	M		T	WSP					
	<i>Schoenus nigricans</i> L.		C, E	L	WSP					
Liliaceae	<i>Lilium candidum</i> L.		A, C	G	SC				*	
Orchidaceae	* <i>Anacamptis pyramidalis</i> (L.) Rich.		B, C	G	EU		NT	*		
	<i>Barlia robertiana</i> (Loisel.) Greuter		A, B, C	G	CME			*		
	* <i>Epipactis microphylla</i> (Ehrh.) Sw.		E	G	EUAS			*		
	* <i>Gymnadenia conopsea</i> (L.) R. Br.		C	G	EUAS			*		
	<i>Limodorum abortivum</i> (L.) Sw.		B, E	G	SEUME			*		
	<i>Ophrys bertolonii</i> Moretti		A, B, C, E, G	G	SEUME		VU	*		

Family	Taxon	Unconfirmed	MTB field	Life form	Floral element	Endemic	Threatened	Strictly protected	Allocthonous	Invasive
	* <i>Hainardia cylindrica</i> (Willd.) Greuter		A	T	CME		VU	*		
	<i>Helictotrichon convolutum</i> (C. Presl) Henrard		B, C, D, E, H	H	WME					
	<i>Heteropogon contortus</i> (L.) P. Beauv. ex Roem. et Schult.		I	T	MEPO		NT			
	* <i>Hordeum bulbosum</i> L.		A	H	SEUME					
	<i>Hordeum murinum</i> L. ssp. <i>leporinum</i> (Link) Arcang.		A, B, E	T	CME					
	* <i>Hyparrhenia hirta</i> (L.) Stapf		C	H	CME					
	* <i>Koeleria macrantha</i> (Ledeb.) Schult.		C	H	EUAS					
	<i>Koeleria splendens</i> C. Presl	T		H	SEUME					
	<i>Lagurus ovatus</i> L.		A, C, E, H	T	CME					
	<i>Lolium perenne</i> L.		A, B, E	H	EU					
	<i>Lolium rigidum</i> Gaudin		A, B, E	T	SEUME					
	<i>Lolium rigidum</i> Gaudin ssp. <i>lepturoides</i> (Boiss.) Sennen et Mauricio		A	T	EME					
	<i>Lophochloa cristata</i> (L.) Hyl.		A, B	T	MEAT					
	<i>Melica ciliata</i> L.		B, C, D, E, F, G, H, I	H	MEPO					
	<i>Parapholis incurva</i> (L.) C. E. Hubb.		A, E	T	MEAT		VU	*		
	<i>Phleum echinatum</i> Host		C	T	CME					
	<i>Phleum subulatum</i> (Savi) Asch. et Graebn.		A, B, E	T	CME					
	<i>Phragmites australis</i> (Cav.) Trin. ex Steud.	M		G	WSP					
	<i>Piptatherum miliaceum</i> (L.) Coss. ssp. <i>miliaceum</i>		A, C, E	H	SEUME					
	<i>Poa annua</i> L.		A, E	T	WSP		LC			
	<i>Poa bulbosa</i> var. <i>viopara</i> Koeler		A, B, C, E, G, H	H	EUAS					
	<i>Poa infirma</i> Kunth	P		T	CME					
	<i>Psilurus incurvus</i> (Gouan) Schinz et Thell.	M		T	CME					
	<i>Sclerochloa dura</i> (L.) P. Beauv.	V		T	MEPO					
	* <i>Sesleria autumnalis</i> (Scop.) F. W. Schultz		A, C	H	ISEU					
	<i>Setaria gussonei</i> Kerguelen	M		T	WSP					
	<i>Setaria verticillata</i> (L.) P. Beauv.	P		T	WSP					
	<i>Setaria viridis</i> (L.) P. Beauv.		A, B, C	T	WSP					
	<i>Sorghum halepense</i> (L.) Pers.		E	G	CUAD			*	*	
	<i>Stipa bromoides</i> (L.) Dörf.		B	H	CME					
	* <i>Stipa capillata</i> L.		A, C	H	EUAS		DD			
	<i>Stipa pennata</i> L.		B, C, E	H	EUAS					
	<i>Tragus racemosus</i> (L.) All.		C, E	T	SEUME					
	<i>Vulpia ciliata</i> Dumort.		A, B	T	SEUME					
	<i>Zea mays</i> L.	P		T	SC			*		
Potamogetonaceae	* <i>Zannichellia palustris</i> L.		E	Hy	WSP					
Smilacaceae	<i>Smilax aspera</i> L.		A, B, C, D, E, F, G, H, I	P	CME					
EUDICOTYLEDONAE										
Aceraceae	<i>Acer negundo</i> L.	M		P	CUAD			*	*	
Actinidiaceae	* <i>Actinidia chinensis</i> Planch.		A, E	P	SC			*		
Aizoaceae	* <i>Carpobrotus acinaciformis</i> (L.) L. Bolus		A, B, E	Ch	CUAD			*		
	<i>Mesembryanthemum cordifolium</i> L.f.		A		CUAD			*		

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Amaranthaceae	<i>Amaranthus albus</i> L.		A, E	T	CUAD				*	*
	<i>Amaranthus caudatus</i> L.		A	T	CUAD				*	
	<i>Amaranthus cruentus</i> L.	M		T	CUAD				*	
	<i>Amaranthus deflexus</i> L.	P		T	CUAD					*
	<i>Amaranthus graecizans</i> L.	P		T	CUAD				*	
	* <i>Amaranthus lividus</i> L.		A, E	T	WSP					
Anacardiaceae	<i>Amaranthus retroflexus</i> L.		A, E	T	CUAD				*	*
	<i>Pistacia lentiscus</i> L.		A, E, F, G, H, I	P	CME					
	<i>Pistacia terebinthus</i> L.		A, B, C, D, E, F, G, H, I	P	CME					
Apiaceae	<i>Apium graveolens</i> L.		A	H	SC					
	* <i>Bunium ferulaceum</i> Sibth. et Sm.		A, H	G	EEUPO					
	<i>Bupleurum veronense</i> Turra		D, G, H	T	ISEU					
	<i>Caucalis platycarpos</i> L.	P		T	WSP					
	<i>Crithmum maritimum</i> L.		C, D, E, F, I	Ch	MEAT					
	<i>Daucus carota</i> L.		A, B, C, E, H	H	EUAS					
	<i>Daucus carota</i> L. ssp. <i>major</i> (Vis.) Arcang.	T		H	SEUME					
	<i>Eryngium amethystinum</i> L.		A, C, D	H	ISEU					
	<i>Foeniculum vulgare</i> Mill.		A, B, E	H	CME					
	<i>Orlaya grandiflora</i> (L.) Hoffm.		A, B, H, I	T	SEUME					
	<i>Petroselinum crispum</i> (Mill.) A. W. Hill		E	H	SC				*	
	* <i>Scandix australis</i> L.		A, B, C, D, G, H	T	CME					
	<i>Scandix pecten-veneris</i> L.		A, B, C, E	T	WSP					
	<i>Seseli tomentosum</i> Vis.		A, B, C, D, F, G, I	H	ILAE	*	NT	*		
	<i>Tordylium apulum</i> L.		A, B, E, H	T	CME					
	<i>Tordylium officinale</i> L.	M		T	EME					
<i>Torilis arvensis</i> (Huds.) Link		E, F, H	T	SEUME						
<i>Torilis nodosa</i> (L.) Gaertn.	M		T	MEAT						
Apocyanaceae	<i>Nerium oleander</i> L.		A, B	P	CME				*	
	<i>Vinca major</i> L.		A, C, E	Ch	CUAD				*	
Araliaceae	<i>Hedera helix</i> L.		A, B, E, F	P	EU					
Asclepiadaceae	* <i>Vincetoxicum fuscatum</i> (Hornem.) Rehb. f.		C	H	SEUPO					
	<i>Vincetoxicum hirsundinaria</i> Medik. ssp. <i>adriaticum</i> (Beck) Markgr		C, F, I	G	ILAE	*	LC	*		
Begoniaceae	<i>Begonia 'Semperflorens'</i> Cult. group		E		SC				*	
Bignoniaceae	<i>Campsis radicans</i> (L.) Seen.		A, E	P	CUAD				*	
Boraginaceae	<i>Borago officinalis</i> L.		A, C	T	CME					
	<i>Cynoglossum columnae</i> Ten.		A, F, G, H	H	CME					
	<i>Cynoglossum creticum</i> Mill.	P		H	CME					
	<i>Echium plantagineum</i> L.		A, B, C, E, F, I	H	MEAT					
	<i>Heliotropium europaeum</i> L.		A, B, C, D, E, H	T	MEPO					
	<i>Myosotis ramosissima</i> Rochel		A, E	T	EUAS					
Brassicaceae	<i>Aethionema saxatile</i> (L.) R. Br.		A, B, D, E, F, G, H, I	Ch	SEUME					
	<i>Alyssum alyssoides</i> (L.) L.		A	T	SEUME					
	* <i>Alyssum hirsutum</i> M. Bieb.		A, B	T	EEUPO					
	<i>Alyssum simplex</i> Rudolphi		A, B, C	T	CME					
	<i>Arabis hirsuta</i> (L.) Scop.		A, B, C	H	WSP					
	<i>Aurinia sinuata</i> (L.) Griseb.		A, H	Ch	ILAE	*		*		
	<i>Brassica oleracea</i> L.		E	Ch	SC					
	<i>Bunias erucago</i> L.		A	T	SEUME					

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	<i>Cakile maritima</i> Scop.	P		T	WSP					
	<i>Capsella rubella</i> Reut.		A, E	T	CME					
	<i>Cardamine hirsuta</i> L.		A, C, E	T	WSP					
	<i>Cardaria draba</i> (L.) Desv.		A	H	WSP					
	<i>Clypeola jonthlaspi</i> L.		A, C, H	T	CME					
	<i>Diplotaxis tenuifolia</i> (L.) DC.		A, E, F	H	WSP					
	<i>Erophila verna</i> (L.) Chevall. ssp. <i>praecox</i> (Steven) Walters		C	T	WSP					
	<i>Eruca vesicaria</i> (L.) Cav. ssp. <i>sativa</i> (Mill.) Thell.		A	T	SC				*	
	<i>Erysimum cheiri</i> (L.) Crantz	P		H	SC				*	
	<i>Hornungia petraea</i> (L.) Rchb.		A	T	WSP					
	<i>Lepidium graminifolium</i> L. ssp. <i>suffruticosum</i> (L.) P. Monts.		A	H	SEUPO					
	<i>Lobularia maritima</i> (L.) Desv.		A, E	H	CME					
	<i>Matthiola incana</i> (L.) R. Br.		A, F	Ch	CUAD		NT			
	<i>Raphanus raphanistrum</i> L. ssp. <i>landra</i> (Moretti ex DC.) Bonnier et Layens	P		T	WSP		DD			
	<i>Raphanus sativus</i> L.		A, B, C, D, E, F	T	CUAD				*	
	<i>Saponaria officinalis</i> L.		A, F	H	CUAD					
	<i>Sisymbrium officinale</i> (L.) Scop.		E	T	WSP					
Buddlejaceae	* <i>Buddleja davidii</i> Franch.		A	P	CUAD				*	
Buxaceae	<i>Buxus sempervirens</i> L.		B	P	SC				*	
Cactaceae	<i>Opuntia ficus-indica</i> (L.) Miller		A, B, E	P	CUAD				*	
Campanulaceae	<i>Campanula erinus</i> L.	P		T	CME					
	<i>Campanula pyramidalis</i> L.		C, D, F, G, H, I	H	ILAE					
	<i>Legousia hybrida</i> (L.) Delarbre		E, G, H	T	SEUAT					
	* <i>Legousia speculum-veneris</i> (L.) Chaix		A	T	SEUME					
Capparaceae	<i>Capparis orientalis</i> Veill.		A, I	P	CME					
Caprifoliaceae	<i>Lonicera implexa</i> Aiton		B, C, D, E, F, I	P	CME					
	* <i>Sambucus nigra</i> L.		A	P	EU					
	* <i>Viburnum tinus</i> L.		A, E	P	CME					
Caryophyllaceae	<i>Arenaria leptoclados</i> (Rchb.) Guss.		B	T	EUAS					
	<i>Arenaria serpyllifolia</i> L.		A, D, E, H	T	WSP					
	* <i>Cerastium glomeratum</i> Thuill.		B, C, E, F, H	T	WSP					
	<i>Cerastium pumilum</i> Curtis ssp. <i>glutinosum</i> (Fries) Jalas	M		T	WSP					
	<i>Cerastium semidecandrum</i> L.	P		T	SEUPO					
	<i>Cerastium tomentosum</i> L.		A	Ch	SC				*	
	<i>Herniaria glabra</i> L.		A, E	T	EUAS					
	<i>Herniaria hirsuta</i> L.		A, E	T	EU					
	<i>Herniaria incana</i> Lam.	M		T	SEUME					
	* <i>Minuartia hybrida</i> (Vill.) Schischkin in Komarov		A	T	EUAS					
	<i>Minuartia mediterranea</i> (Link.) K. Malý	M		T	CME					
	<i>Petrorhagia prolifera</i> (L.) P. W. Ball et Heywood	P		T	EUAS					
	<i>Petrorhagia saxifraga</i> (L.) Link		A, B, G, H, I	H	SEUME					
	<i>Polycarpon tetraphyllum</i> (L.) L.		A, E	T	SEUME					
	<i>Sagina maritima</i> G. Don	M		T	MEAT					
	<i>Silene conica</i> L.		A	T	EUAS					
	<i>Silene gallica</i> L.		A, B	T	WSP					
<i>Silene latifolia</i> Poir. ssp. <i>alba</i> (Mill.) Greuter et Bourdet		A, B, E, F	H	EUAS						

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	<i>Silene vulgaris</i> (Moench) Garcke ssp. <i>angustifolia</i> Hayek		A, C, D, E, F, G, H	H	SEUME					
	* <i>Spergularia rubra</i> (L.) J. Presl et C. Presl		A	Ch	WSP					
	<i>Spergularia salina</i> J. Presl et C. Presl	P		T	WSP					
	<i>Stellaria media</i> (L.) Vill.		A	T	WSP					
	<i>Stellaria pallida</i> (Dumort) Piré	P		T	WSP					
<i>Celastraceae</i>	<i>Euonymus japonica</i> L. f.		A	P	SC				*	
	<i>Arthrocnemum fruticosum</i> (L.) Moq.	P		Ch	SEUME					
	<i>Arthrocnemum macrostachyum</i> (Morici.) C. Koch		A, C, D, E, F	Ch	SEUME					
	<i>Atriplex littoralis</i> L.	M		T	EUAS					
	<i>Atriplex patula</i> L.	P		T	CIHO					
	* <i>Atriplex prostrata</i> Boucher ex DC. in Lam. et DC.		A, E	T	WSP					
	<i>Bassia prostrata</i> (L.) A. J. Scott	P		Ch	EUAS					
<i>Chenopodiaceae</i>	<i>Beta vulgaris</i> L. ssp. <i>maritima</i> (L.) Arcang.		A, B, D, E	H	MEAT					
	<i>Beta vulgaris</i> L. ssp. <i>vulgaris</i>		A, E	H	SC		LC		*	
	<i>Chenopodium album</i> L.		A, B, E	T	WSP					
	<i>Chenopodium murale</i> L.		A, E	T	WSP		DD			
	<i>Chenopodium vulvaria</i> L.	P		T	SEUME		DD			
	<i>Halimione portulacoides</i> (L.) Aellen		A, B, E	Ch	WSP					
	<i>Salsola soda</i> L.		A, B, E	T	SEUPO		VU	*		
	<i>Spinacia oleracea</i> L.	P		T	SC				*	
	<i>Suaeda maritima</i> (L.) Dumort.		A, E	T	WSP		VU	*		
	<i>Cistus incanus</i> L.		B, C, D	P	CME					
<i>Cistaceae</i>	<i>Cistus incanus</i> L. ssp. <i>creticus</i> (L.) Heywood	T		P	EME					
	<i>Cistus monspeliensis</i> L.	H		P	CME					
	<i>Cistus salvifolius</i> L.		C, I	P	CME					
	<i>Fumana ericifolia</i> Wallr.		B, C, D, E, F, G, H, I	Ch	CME					
	<i>Fumana procumbens</i> (Dunal) Gren. et Godr.	M		Ch	SEUME					
	<i>Fumana thymifolia</i> (L.) Spach ex Webb	M		Ch	CME					
<i>Clusiaceae</i>	<i>Hypericum perforatum</i> L. ssp. <i>veronense</i> (Schränk) H. Lindb.		A, B, E, F, G, H, I	H	SEUME					
<i>Colchicaceae</i>	<i>Colchicum visianii</i> Parl.		C, D, H, I	G	ILAP					
	* <i>Colchicum haynaldii</i> Heuff.		A, C		ILBE				*	
	<i>Colchicum hungaricum</i> Janka		C	G	CME					
	<i>Achillea collina</i> (Wirtg.) Heimerl	P		H	CEU					
	<i>Achillea setacea</i> Waldst. et Kit.	M		H	SEUME					
	<i>Achillea tomentosa</i> L.	T		H	SC					
	<i>Aetheorhiza bulbosa</i> (L.) Cass.		A, E, F, H	G	CME					
	<i>Ambrosia artemisiifolia</i> L.	M		T	CUAD			*	*	
	<i>Anthemis arvensis</i> L.	P		T	CME					
	* <i>Anthemis ruthenica</i> M. Bieb		E	T	MEPO					
	* <i>Anthemis segetalis</i> Ten.		A, B, D, E, H	T	ISEU					
	* <i>Artemisia absinthium</i> L.		A	Ch	EUAS					
	<i>Artemisia caerulescens</i> L.		A	Ch	ILAP					
	<i>Aster squamatus</i> (Spreng.) Hieron.		A, E	T	CUAD			*	*	
	<i>Balsamita major</i> Desf.	T		Ch	SC			*		
	* <i>Bellis sylvestris</i>		A	H	CME					

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	<i>Bidens subalternans</i> DC.		A	T	CUAD				*	*
	<i>Bombycilaena erecta</i> (L.) Smoljan.		D, E, G, H	T	SEUPO					
	<i>Calendula arvensis</i> L.		A, B, E	T	SEUME					
	<i>Calendula officinalis</i> L.		A	T	CUAD				*	
	<i>Carduus micropterus</i> (Borbás) Teyber ssp. <i>micropterus</i>		A	H	ILAE					
	<i>Carduus pycnocephalus</i> L.		A, B, C, E, F, H	T	CME					
	<i>Carlina corymbosa</i> L.		A, B, C, D, E, I	H	CME					
	<i>Carthamus lanatus</i> L.		H	T	CME					
	<i>Centaurea glaberrima</i> Tausch	T		H	ILAE	*	NT	*		
	<i>Centaurea pannonica</i> (Heuff.) Simonk.		A	H	EEUPO					
	<i>Centaurea spinosociliata</i> Seenus ssp. <i>cristata</i> (Bertol.) Dostál		A, C, D, E	H	ILAE	*		*		
	<i>Centaurea spinosociliata</i> Seenus ssp. <i>tommasinii</i> (A. Kern.) Dostál		A	H	ILAE	*	DD	*		
	<i>Chamomilla recutita</i> (L.) Rauschert	P		T	WSP					
	<i>Chondrilla juncea</i> L.		A, E	H	EUAS					
	<i>Chrysanthemum coronarium</i> L.	P		T	CUAD				*	
	<i>Cichorium endivia</i> L.		A	T	SC					
	<i>Cichorium intybus</i> L.		A	H	WSP					
	<i>Cirsium arvense</i> (L.) Scop.	P		T	EUAS					
	<i>Conyza bonariensis</i> (L.) Cronquist		A, E, G	T	CUAD				*	*
	<i>Conyza canadensis</i> (L.) Cronquist	P		T	CUAD				*	*
	<i>Conyza sumatrensis</i> (Retz.) E. Walker		A, E, F	T	CUAD				*	*
	* <i>Crepis biennis</i> L.		E	H	CEU					
	* <i>Crepis dioscoridis</i> L.	P		T	EME					
	* <i>Crepis pulchra</i> L.		E	T	SEUME					
	* <i>Crepis rubra</i> L.		A, H	T	EME					
	<i>Crepis sancta</i> (L.) Babc.		A	T	EME				*?	
	<i>Crepis setosa</i> Haller f.	M		T	SEUPO					
	* <i>Crepis vesicaria</i> L.		A, B	T	SEUME					
	<i>Crepis zacintha</i> (L.) Babc.		A	T	CME					
	<i>Crupina crupinastrum</i> (Moris) Vis.		B, E, G, H	T	SEUME					
	<i>Cynara scolymus</i> L.		A, B, E, H	H	CUAD				*	
	<i>Dahlia variabilis</i> (Willd.) Desf.		A	G	SC				*	
	<i>Dittrichia viscosa</i> (L.) Greuter		A, B, C, D, E, F	H	CME					
	<i>Erigeron annuus</i> (L.) Pers. ssp. <i>septentrionalis</i> (Fernald et Wiegand) Wagenitz		A, B, E	T	CUAD				*	*
	<i>Filago pyramidata</i> L.	M		T	SEUME					
	<i>Filago vulgaris</i> Lam.	P		T	WSP					
	<i>Hedypnois cretica</i> (L.) Dum. Cours.	M		T	CME					
	<i>Helianthus annuus</i> L.		A, C	T	SC				*	
	<i>Helianthus tuberosus</i> L.		A, E	G	CUAD				*	*
	<i>Helichrysum italicum</i> (Roth) G. Don		A, C, D, E, F, G, I	Ch	CME					
	<i>Hieracium heterogynum</i> (Froel.) Gutermann	M		H	ILBE					
	<i>Hieracium piloselloides</i> Vill.		B	H	ISEU					
	<i>Hieracium praealtum</i> Vill. ex Gochnat ssp. <i>bauhinii</i> (Besser) Petunn.		C	H	EUAS					
	* <i>Hieracium sabaudum</i> L.		B, C, E	H	CEU					
	<i>Hieracium tommasinii</i> Rchb. f.		C, F	H	ILBE					
	<i>Hypochoeris cretensis</i> (L.) Bory et Chaub.	M		T	EME					

Family	Taxon	Unconfirmed	MTB field	Life form	Floral element	Endemic	Threatened	Strictly protected	Allocthonous	Invasive
	<i>Inula conyza</i> DC.		A, B, C, E	H	SEUPO					
	<i>Inula crithmoides</i> L.		A, C, E, F	Ch	MEAT					
	* <i>Inula hirta</i> L.		B, C	H	EUAS					
	<i>Inula spiraeifolia</i> L.		C, G	H	SEUME					
	<i>Inula verbascifolia</i> (Willd.) Hausskn.		C, D, G, I	Ch	ILAE					
	<i>Lactuca sativa</i> L.		A	H	SC				*	
	<i>Lactuca serriola</i> L.		A, E, H	H	WSP					
	<i>Lactuca viminea</i> (L.) J. et C. Presl		A, B, D, G, I	H	SEUPO					
	* <i>Leontodon crispus</i> Vill.		C, D, E, H	H	SEUME					
	* <i>Leontodon hispidus</i> L.		A, C	H	EU					
	<i>Leontodon tuberosus</i> L.		A, B, E	G	CME					
	<i>Leucanthemum adustum</i> (Koch) Gremli	T		H	SEU					
	<i>Leucanthemum vulgare</i> Lam.	P		H	EUAS					
	* <i>Matricaria perforata</i> Mérat		A, E	T	EUAS					
	<i>Onopordum illyricum</i> L.		E	H	CME					
	<i>Pallenis spinosa</i> (L.) Cass.		A, B, C, D, E	T	CME					
	<i>Picnomon acarna</i> (L.) Cass.		A, C, H	H	CME					
	<i>Picris hieracioides</i> L.		A, C, E, F, G	H	EUAS					
	* <i>Picris hispidissima</i> (Bartl.) Koch		A, E	H	ILAE					
	<i>Reichardia picroides</i> (L.) Roth		A, B, C, D, E, F, H, I	H	CME					
	<i>Rhagadiolus stellatus</i> (L.) Gaertn.		A, B, E, H	T	CME					
	* <i>Santolina chamaecyparissus</i> L.		A	Ch	WME					
	* <i>Scorzonera hispanica</i> L.		H	H	EU					
	<i>Scorzonera laciniata</i> L.		A	H	WSP					
	<i>Scorzonera villosa</i> Scop.		C, G, H	H	ISEU					
	<i>Senecio bicolor</i> (Willd.) Tod.		C, D, I	Ch	CUAD					
	<i>Senecio vulgaris</i> L.		A, B, D, E, G, H	T	WSP					
	<i>Sonchus arvensis</i> L.	P		H	WSP					
	<i>Sonchus asper</i> (L.) Hill ssp. <i>glaucescens</i> (Jord.) Ball		A, B, D, E, F, G, H	T	CME					
	* <i>Sonchus maritimus</i> L.		E	H	CME					
	<i>Sonchus oleraceus</i> L.		A	T	WSP					
	<i>Tagetes patula</i> L.		A, E	T	SC				*	
	<i>Tanacetum cinerariifolium</i> (Trevir.) Sch. Bip.		B, C, D, E, F, G, H	Ch	ILAE	*		*		
	<i>Tanacetum parthenium</i> (L.) Sch. Bip.		A	T	WSP					
	* <i>Tanacetum vulgare</i> L.		A	H	EUAS					
	<i>Taraxacum megalorrhizon</i> (Forssk.) Hand.-Mazz.	P		H	CME					
	<i>Taraxacum officinale</i> Weber		A, C	H	WSP					
	<i>Tragopogon porrifolius</i> L.		A, B, E, G, H	H	CME					
	<i>Tyrimnus leucographus</i> (L.) Cass.		A, B, C, E	T	CME					
	<i>Urospermum dalechampii</i> (L.) Scop. ex F. W. Schmidt		B, C, D, E, G	H	CME					
	<i>Urospermum picroides</i> (L.) Scop. ex F. W. Schmidt		A, C, D, E, F, G, H	T	CME					
	<i>Zinnia elegans</i> Jacq.		A, E	T	SC				*	
<i>Convolvulaceae</i>	<i>Convolvulus althaeoides</i> L.	K		H	EME					
	<i>Convolvulus althaeoides</i> L. ssp. <i>tenuissimus</i> (Sibth. et Sm.) Stace		A, B, C, D, E, F, G, H, I	H	EME					
	<i>Convolvulus arvensis</i> L.		A, B, E	G	WSP					
	<i>Convolvulus cantabrica</i> L.		C	H	SEUME					
	<i>Ipomoea purpurea</i> Roth		A	T	SC				*	

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Cornaceae	* <i>Cornus sanguinea</i> L.		A	P	EU					
Corylaceae	* <i>Corylus avellana</i> kult.		A	P	EU					
Crassulaceae	<i>Sedum acre</i> L.		A, B, E	Ch	EUAS					
	<i>Sedum album</i> L.		A	Ch	EUAS					
	<i>Sedum dasyphyllum</i> L.	T		Ch	SEUME					
	<i>Sedum ochroleucum</i> Chaix		A, B, H	Ch	SEUME					
	* <i>Sedum sediforme</i> (Jacq.) Pau		A	Ch	CME					
	<i>Sedum sexangulare</i> L.		A	Ch	EU					
	* <i>Sedum telephium</i> L. ssp. <i>maximum</i> (L.) Krock.		A, E	H	EUAS					
	<i>Semperivium tectorum</i> L.		A	Ch	CEU			*		
Cucurbitaceae	* <i>Cucumis melo</i> L.		A	T	SC				*	
	<i>Cucumis sativus</i> L.	P		T	SC				*	
	<i>Ecballium elaterium</i> (L.) A. Rich.		E	G	CME		DD			
	<i>Sechium edule</i> Sw.	P		T	SC				*	
Cuscutaceae	<i>Cuscuta campestris</i> Yuncker	M		T	WSP			*	*	
Dioscoriaceae	<i>Tamus communis</i> L.		B	G	SEUME					
Dipsacaceae	<i>Cephalaria leucantha</i> (L.) Roem. et Schult.		B, C, D, E	H	CME					
	<i>Lomelosia brachiata</i> (Sm.) Greuter et Burdet		B	T	EME					
	<i>Sixalix atropurpurea</i> (Forssk.) Greuter et Burdet ssp. <i>maritima</i> (L.) Greuter et Burdet	M		H	SEUME					
Ericaceae	<i>Arbutus unedo</i> L.	M		P	CME					
Euphorbiaceae	<i>Andrachne telephioides</i> L.		A, C, H	Ch	CME					
	<i>Euphorbia chamaesyce</i> L.	P		T	SEUME					
	<i>Euphorbia characias</i> L. ssp. <i>wulfenii</i> (Hoppe ex Koch) A. M. Sm.		A	Ch	ILAE					
	<i>Euphorbia exigua</i> L.		C, G, H	T	SEUME					
	<i>Euphorbia falcata</i> L.	P		T	SEUME					
	<i>Euphorbia fragifera</i> Jan		A, C, D, F, G, H	Ch	ILAE					
	<i>Euphorbia helioscopia</i> L.		A, B, C, E	T	WSP					
	* <i>Euphorbia maculata</i> L.		A, B	T	CUAD				*	*
	<i>Euphorbia peplus</i> L.		A, E	T	WSP					
	<i>Euphorbia pinea</i> L.		A, C, D, E, F	Ch	CME					
	<i>Euphorbia prostrata</i> Aiton		A, H	T	CUAD		LC		*	*
	<i>Euphorbia spinosa</i> L.		B, C, H, I	Ch	CME					
	<i>Mercurialis annua</i> L.		A, E, H	T	WSP					
	<i>Ricinus communis</i> L.	M		T	SC				*	
Fabaceae	* <i>Albizia julibrissin</i> Durazz.		A, E	P	SC				*	
	<i>Anthyllis vulneraria</i> L. ssp. <i>praepropera</i> (A. Kern.) Bornm.		A, B, C, D, E, G	H	EUME					
	<i>Argyrolobium zanonii</i> (Turra) P. W. Ball		C, D, E, G, H	Ch	WSP					
	* <i>Astragalus hamosus</i> L.		A, B	T	CME					
	<i>Astragalus sesameus</i> L.	M		T	WSP					
	<i>Bituminaria bituminosa</i> (L.) Stirton		A, B, E	H	CME					
	<i>Cicer arietinum</i> L.	P		T	SC				*	
	<i>Colutea arborescens</i> L.		A, C, E, G	P	CME					
	<i>Coronilla emerus</i> L. ssp. <i>emeroides</i> Boiss. et Spruner		A, B, C, D, E, F, G, H, I	P	EME					
	<i>Coronilla scorpioides</i> (L.) Koch		A, C, D, E, F, G, H	T	CME					
	<i>Dorycnium herbaceum</i> Vill.		C	H	SEUME					

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	<i>Dorycnium hirsutum</i> (L.) Ser.		B, E, I	Ch	CME					
	<i>Genista sylvestris</i> Scop. ssp. <i>dalmatica</i> (Bartl.) H. Lindb.	T		Ch	ILAE	*		*		
	<i>Hymenocarpus circinnatus</i> (L.) Savi	M		T	CME					
	<i>Hippocrepis biflora</i> Spreng.	P		T	CME					
	<i>Hippocrepis ciliata</i> Willd.		A, C, D	T	CME					
	<i>Hippocrepis comosa</i> L.		A, B, C, D, E	H	SEUME					
	<i>Lathyrus aphaca</i> L.		E	T	SEUME					
	<i>Lathyrus cicera</i> L.		A, B, D, E, G, H	T	CME					
	<i>Lathyrus latifolius</i> L.	P		T	CME					
	<i>Lathyrus setifolius</i> L.	P		T	MEPO					
	<i>Lathyrus sphaericus</i> Retz.	M		T	SEUME					
	* <i>Lens culinaris</i> Medik.		A, B, E	T	CUAD				*	
	<i>Lens nigricans</i> (M. Bieb.) Godr.	M		T	CME					
	<i>Lotus corniculatus</i> L. ssp. <i>hirsutus</i> Rothm.		A, C	H	SEUME					
	<i>Lotus cytisoides</i> L.		F	Ch	CME					
	<i>Medicago arabica</i> (L.) Huds.		A, E, G	T	WSP				*	
	<i>Medicago arborea</i> L.		A	P	SC				*	
	<i>Medicago coronata</i> (L.) Bartal.	M		T	CME					
	<i>Medicago falcata</i> L.	M		H	EUAS					
	<i>Medicago littoralis</i> Rohde ex Loisel.	P		T	CME					
	<i>Medicago lupulina</i> L.		A, B, C	T	WSP					
	<i>Medicago minima</i> (L.) Bartal.		A, C, D, G, H	T	WSP					
	<i>Medicago orbicularis</i> (L.) Bartal.		A, E, G	T	CME					
	* <i>Medicago polymorpha</i> L.		E	T	SEUME					
	* <i>Medicago rigidula</i> (L.) All.		A	T	MEPO					
	<i>Medicago sativa</i> L.		E	H	WSP					
	<i>Medicago truncatula</i> Gaertn.		E	T	CME					
	<i>Melilotus albus</i> Medik.		A	T	EUAS					
	* <i>Melilotus indicus</i> (L.) All.		A, C, E, G	T	CME					
	* <i>Melilotus neapolitanus</i> Ten.		A, C	T	CME					
	<i>Melilotus officinalis</i> (L.) Lam.		A, G	H	EUAS					
	<i>Melilotus sulcatus</i> Desf.	M		T	CME					
	<i>Onobrychis caput-galli</i> (L.) Lam.		A, H	T	CME					
	<i>Ononis pusilla</i> L.		A, B, C, E, G, H	H	SEUME					
	<i>Ononis reclinata</i> L.	T		T	CME					
	<i>Phaseolus vulgaris</i> L.		A, E	T	SC				*	
	<i>Pisum sativum</i> L.		A, B, E	T	CUAD					
	<i>Pisum sativum</i> L. ssp. <i>elatius</i> (M. Bieb.) Asch. et Graebn.	M		T	SEUME					
	<i>Poinciana gilliesii</i> Hook.	P		P	SC				*	
	<i>Robinia pseudoacacia</i> L.		A, E	P	CUAD				*	*
	<i>Scorpiurus muricatus</i> L.	P		T	CME					
	<i>Securigera cretica</i> (L.) Lassen		A, B, C, D, E, G	T	EME					
	<i>Securigera securidaca</i> (L.) Degen et Dörf.		B, E, G	T	CME					
	<i>Sophora japonica</i> L.		A	P	SC				*	
	<i>Spartium junceum</i> L.		A, B, D, E, F, G, H, I	P	CME					
	<i>Trifolium angustifolium</i> L.		C, E, G	T	CME					
	<i>Trifolium arvense</i> L.	M		R	EUAS				*	
	<i>Trifolium campestre</i> Schreber		A, B, C, D, F, H	T	WSP					
	* <i>Trifolium incarnatum</i> L.		A	T	MEAT					
	<i>Trifolium lappaceum</i> L.		F	T	CME					

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	<i>Trifolium repens</i> L. ssp. <i>prostratum</i> Nyman	M		H	CME					
	* <i>Trifolium resupinatum</i> L.		A	T	MEPO		VU	*		
	<i>Trifolium scabrum</i> L.		A, E, G, H	T	CME					
	<i>Trifolium stellatum</i> L.		A, B, D, E, H	T	CME					
	<i>Trifolium suffocatum</i> L.	M		T	CME					
	<i>Trifolium tomentosum</i> L.	M		T	CME					
	<i>Trigonella esculenta</i> Willd.		A, B, E	T	EUME					
	* <i>Trigonella gladiata</i> M. Bieb.		A	T	CME					
	<i>Trigonella monspeliaca</i> L.	P		T	MEPO					
	<i>Vicia angustifolia</i> L. ssp. <i>angustifolia</i>	M		T	EU					
	<i>Vicia faba</i> L.		A, B, E	T	CUAD				*	
	<i>Vicia hybrida</i> L.		A, B, E, H	T	CME					
	<i>Vicia lutea</i> L.	P		T	SEUME					
	<i>Vicia narbonensis</i> L.	P		T	CME					
	* <i>Vicia peregrina</i> L.		A	T	SEUME					
	<i>Vicia sativa</i> L. ssp. <i>cordata</i> (Hoppe) Batt.		D, G, H	T	SEUME					
	<i>Vicia sativa</i> L. ssp. <i>sativa</i>		A, B, E	T	WSP				*	
	<i>Vicia tetrasperma</i> (L.) Schreber	M		T	WSP					
	<i>Vicia villosa</i> Roth ssp. <i>varia</i> (Host) Corb.		A, B, E, G, H	H	EEUPO					
	* <i>Wisteria sinensis</i> (Sims) Sweet		E	P	SC				*	
	* <i>Quercus cerris</i> L.		A	P	SEUPO					
<i>Fagaceae</i>	<i>Quercus ilex</i> L.		A, B, C, D, E, G, H, I	P	CME					
	<i>Quercus pubescens</i> Willd.		B	P	SEUPO					
	<i>Quercus virgiliana</i> (Ten.) Ten.	P		P	SEEU					
<i>Frankeniaceae</i>	* <i>Frankenia pulverulenta</i> L.		A	T	CME		NT			
<i>Fumariaceae</i>	<i>Fumaria officinalis</i> L.		A, B, D, E, G, H	T	WSP					
	<i>Fumaria parviflora</i> Lam.	P		T	WSP					
	<i>Fumaria petteri</i> Rchb. ssp. <i>thuretii</i> (Boiss.) Pugsley	M		T	MEPO					
<i>Gentianaceae</i>	<i>Blackstonia perfoliata</i> (L.) Huds.		A, B, C, D, E, F, G, H	T	MEAT					
	<i>Centaurium erythraea</i> Rafn		A, C, D, F, G, I	T	WSP					
<i>Geraniaceae</i>	<i>Erodium ciconium</i> (L.) L Hér.	P		T	MEPO					
	<i>Erodium cicutarium</i> (L.) L Hér.		A, E	T	WSP					
	<i>Erodium malacoides</i> (L.) L Hér.		A, E	T	CME					
	<i>Geranium columbinum</i> L.		C, E	T	EUAS					
	<i>Geranium lucidum</i> L.	P		T	MEAT					
	<i>Geranium molle</i> L.		B, E, H	T	WSP					
	<i>Geranium molle</i> L. ssp. <i>brutium</i> (Gasparr.) Graebn.	M		T	EME					
	<i>Geranium purpureum</i> Vill.		E	T	SEUME					
	* <i>Geranium robertianum</i> L.		A, B, C, D, E, F, G, H	T	WSP					
	<i>Geranium rotundifolium</i> L.		A, F	T	EUAS					
	<i>Pelargonium zonale</i> (L.) Aiton		E	Ch	SC				*	
<i>Hydrangeaceae</i>	* <i>Hydrangea macrophylla</i> (Thunb.) Ser.		A, E	P	SC				*	
	<i>Philadelphus coronarius</i> L.		A	P	SC				*	
<i>Juglandaceae</i>	<i>Juglans regia</i> L.		A, B	P	CUAD				*	

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Lamiaceae	<i>Acinus arvensis</i> (Lam.) Dandy		C, H	T	EU					
	<i>Ajuga chamaepitys</i> (L.) Schreb.		A, B, C, D, E, F, G, H	T	CME					
	<i>Ballota nigra</i> L. ssp. <i>foetida</i> (Vis.) Hayek	M		H	SEUME					
	<i>Ballota nigra</i> L. ssp. <i>uncinata</i> (Fiori et Bég.) Patzak	M		H	CME					
	<i>Calamintha nepetoides</i> Jord.		A, B, E, H	Ch	SEUPO					
	<i>Lamiium amplexicaule</i> L.		A, B, E	T	EUAS					
	<i>Lavandula angustifolia</i> Mill.		A	P	SC				*	
	* <i>Lavandula stoechas</i> L.		A	P	SC				*	
	<i>Marrubium incanum</i> Desr.		A, E	H	ILAP					
	<i>Marrubium vulgare</i> L.		A	H	WSP					
	* <i>Mentha x piperita</i> L.		A, E	H	SC					
	* <i>Micromeria graeca</i> (L.) Rchb.		C	Ch	CME					
	<i>Micromeria juliana</i> (L.) Benth. ex Rchb.		A, B, C, D, E, G, H	Ch	CME					
	<i>Ocimum basilicum</i> L.		A	H	SC				*	
	<i>Origanum heracleoticum</i> L.		A, B, C, E	Ch	EME					
	<i>Origanum majorana</i> L.	T		H	CUAD				*	
	<i>Prasium majus</i> L.		D, F, G, I	Ch	CME					
	<i>Rosmarinus officinalis</i> L.		A, B, D, E, G	P	CME					
	* <i>Salvia bertolonii</i> Vis.		A, B, H	H	ILAE					
	* <i>Salvia greggii</i> A. Gray		A	Ch	SC				*	
	<i>Salvia officinalis</i> L.		A, E	Ch	ILAE					
	<i>Salvia sclarea</i> L.		A, B, E	H	SEUME					
	<i>Salvia splendens</i> Sellow ex Roem. et Schult.		A	T	SC				*	
	<i>Salvia verbenaca</i> L.		A, E	H	MEAT					
	<i>Salvia viridis</i> L.	M		T	SEUME					
	<i>Satureja montana</i> L. ssp. <i>variegata</i> (Host) P. W. Ball		A, B, C, D, E, F, G, H, I	Ch	MEPO					
	<i>Sideritis romana</i> L.		D, E, F, H	T	CME					
	<i>Stachys cretica</i> L. ssp. <i>salviifolia</i> (Ten.) Rech. f.	P		H	ILAP					
	* <i>Stachys thirkei</i> K. Koch		A, B, E, H	H	EME					
	<i>Teucrium chamaedrys</i> L.		A, B, C, D, E, G, H, I	Ch	SEUPO					
	<i>Teucrium flavum</i> L.	M		Ch	CME					
	* <i>Teucrium fruticans</i> L.		D	Ch	MEPO		NT			
<i>Teucrium polium</i> L.		A, C, D, E, G, H, I	Ch	MEPO						
* <i>Thymus serpyllum</i> L.		A	Ch	EU						
Lauraceae	<i>Laurus nobilis</i> L.		A, E	P	CME					
Linaceae	<i>Linum bienne</i> Mill.		E	H	MEAT					
	<i>Linum nodiflorum</i> L.	M		T	MEPO					
	<i>Linum strictum</i> L.		C, H	T	CME					
	<i>Linum strictum</i> L. ssp. <i>corymbulosum</i> (Rchb.) Riony	M		T	MEPO					
	<i>Linum tenuifolium</i> L.	T		Ch	SEUPO					
Lythraceae	* <i>Lagerstroemia indica</i> L.		A	P	SC				*	
	* <i>Lythrum salicaria</i> L.		E	H	WSP					

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Malvaceae	<i>Alcea rosea</i> L.		A	H	CUAD				*	
	<i>Althaea cannabina</i> L.		A, B, E	H	SEUPO					
	<i>Althaea hirsuta</i> L.	M		T	SEUME					
	* <i>Hibiscus syriacus</i> L.		A	H	SC				*	
	* <i>Lavatera arborea</i> L.		A, E	H	EUME					
	<i>Lavatera cretica</i> L.		A	H	EUME					
	<i>Malva nicaeensis</i> All.		A, E	T	CME					
	<i>Malva parviflora</i> L.		A, E	T	CME		EN	*		
<i>Malva sylvestris</i> L.		A, B, E	H	WSP						
Meliaceae	<i>Melia azedarach</i> L.		A	P	CUAD				*	
Moraceae	<i>Ficus carica</i> L.		A, B, C, D, E, F	P	CME					
	<i>Morus alba</i> L.		A, E	P	CUAD				*	
Myrtaceae	<i>Morus nigra</i> L.		E	P	CUAD				*	
	* <i>Callistemon citrinus</i> (Curtis) Skeels		E	P	SC				*	
Nyctaginaceae	<i>Myrtus communis</i> L.		B, C, D, E, F, G, H, I	P	CME					
	* <i>Bougainvillea spectabilis</i> Willd.		A	P	SC				*	
Oleaceae	<i>Mirabilis jalapa</i> L.		A	G	SC				*	
	<i>Fraxinus ornus</i> L.		A, B, C, E, F, G, H	P	SEUME					
	<i>Forsythia viridissima</i> Lindl.	T		P	SC				*	
	* <i>Ligustrum lucidum</i> Aiton f.		A	P	SC				*	
	<i>Ligustrum vulgare</i> L.	M		P	CEU					
	<i>Olea europaea</i> L.		A, B, C, D, E, F, H, I	P	CUAD					
	* <i>Olea europaea</i> L. var. <i>sylvestris</i> Brot.		A	P	CME					
	<i>Phillyrea media</i> L.		B, C, F, G, H	P	CME					
<i>Syringa vulgaris</i> L.		A, E	P	CUAD				*		
Onagraceae	* <i>Gaura lindheimeri</i> Engelm. & A. Gray		A	Ch	SC				*	
	* <i>Oenothera biennis</i> L.		A	H	CUAD				*	*
Orobanchaceae	* <i>Orobanche</i> sp.		D	T						
Oxalidaceae	<i>Oxalis articulata</i> Savigny		A, B, E	G	SC				*	
	<i>Oxalis corniculata</i> L.		A	H	WSP					
Papaveraceae	<i>Glaucium flavum</i> Crantz	P		H	MEAT		EN	*		
	* <i>Papaver hybridum</i> L.		E	T	EUAS		CR	*		
	<i>Papaver rhoeas</i> L.		A, E, H	T	WSP				*	
Passifloraceae	<i>Passiflora caerulea</i> L.		A	P	SC				*	
Phytolacaceae	<i>Phytolacca americana</i> L.		A	G	CUAD				*	*
Pittosporaceae	<i>Pittosporum tobira</i> (Thunb.) Aiton f.		A, E	P	SC				*	
Plantaginaceae	<i>Plantago altissima</i> L.	M		H	SEUME					
	<i>Plantago coronopus</i> L.		A	H	MEPO					
	* <i>Plantago holosteum</i> Scop.		C	T	SEUME		LC			
	<i>Plantago lanceolata</i> L.		A, B, C, E, F, H	H	WSP					
	* <i>Plantago major</i> L.		A	H	WSP					
<i>Plantago media</i> L.		A	H	WSP						
Plumbaginaceae	<i>Limonium cancellatum</i> (Bernh. ex Bertol.) Kuntze		A, C, D, E, F, I	H	ILAE	*		*		
	<i>Limonium narbonense</i> Mill.		A, E	H	CME					
	* <i>Plumbago auriculata</i> Lam.		A	P	SC				*	
	<i>Plumbago europaea</i> L.		A, B, C, D, E, F, G, H	Ch	CME					

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Polygonaceae	* <i>Fallopia baldschuanica</i> (Regel) Holub		A, E	P	CUAD				*	
	<i>Fallopia convolvulus</i> (L.) Á. Löve		B, C, E	T	WSP					
	<i>Polygonum aviculare</i> L.		A, E, F	T	WSP					
	<i>Rumex crispus</i> L.	P		H	WSP					
	<i>Rumex pulcher</i> L.		A, B, E	H	SEUPO					
Portulacaceae	* <i>Portulaca grandiflora</i> Hook.		A, E	T	SC				*	
	<i>Portulaca oleracea</i> L.		A, B, D, E	T	WSP				*	
Primulaceae	<i>Anagallis arvensis</i> L.		A, C, D, E	T	WSP				*	
	<i>Anagallis coerulea</i> Schreb.		A, C	T	WSP					
	<i>Asterolinon linum-stellatum</i> (L.) Duby		A, E, G	T	CME					
	<i>Cyclamen repandum</i> Sibth. et Sm.		B, C, F, G	G	EUME		NT			
Punicaceae	<i>Punica granatum</i> L.		A, E	P	CME				*	
Ranunculaceae	<i>Clematis flammula</i> L.		A, B, C, D, E, F, G, H, I	P	CME					
	<i>Delphinium peregrinum</i> L.		A, B, C, D, E, F, G	T	SEUME		EN	*		
	<i>Delphinium staphisagria</i> L.	P		T	CME		EN	*		
	<i>Nigella damascena</i> L.		A, B, E, H	T	CME					
	* <i>Ranunculus circinatus</i> Sibth.		E	Hy	EUAS					
	<i>Ranunculus ficaria</i> L.		A	G	EU					
	<i>Ranunculus muricatus</i> L.		A, E, G	T	CME					
Resedaceae	<i>Reseda alba</i> L.		A, E	T	CME					
	<i>Reseda lutea</i> L.		A, B, C, E, F, H	T	WSP					
	<i>Reseda phyteuma</i> L.		A, B, C, E, H	T	SEUME					
Rhamnaceae	<i>Frangula rupestris</i> (Scop.) Schur.		A, B, C, D, E, F, G, H	P	ILAE					
	<i>Paliurus spina-christi</i> Mill.		A, B, D, E, G, H	P	ISEU					
	<i>Rhamnus alaternus</i> L.		A	P	CME					
	<i>Rhamnus intermedia</i> Steud. et Hochst.		C, D, E, F, G, H	P	ILAE	*	NT	*		
	<i>Ziziphus jujuba</i> (L.) Mill.		A	P	SC				*	
Rosaceae	<i>Agrimonia eupatoria</i> L.		A, E	H	CIHO					
	<i>Crataegus monogyna</i> Jacq.		B, C	P	EUAS					
	<i>Cydonia oblonga</i> Mill.		A, E	P	SC				*	
	<i>Eriobotrya japonica</i> (Thunb.) Lindl.		A	P	SC				*	
	* <i>Malus domestica</i> Borkh.		A, E	P	SC				*	
	* <i>Mespilus germanica</i> L.		E	P	EUAS					
	<i>Potentilla australis</i> Krašan	T		H	ILAE					
	<i>Potentilla recta</i> L.		A, B, C, D, G, H	H	EUAS					
	<i>Prunus armeniaca</i> L.		E	P	SC					
	<i>Prunus avium</i> L.		A, E	P	SC					
	<i>Prunus cerasifera</i> Ehrh.	M		P	SC					
	<i>Prunus cerasus</i> L.	P		P	SC				*	
	* <i>Prunus domestica</i> L. ssp. <i>insititia</i> (L.) C. K. Schneid.		A	P	SC					
	<i>Prunus dulcis</i> (Mill.) D. A. Webb		A, B, E, G	P	SC				*	
	<i>Prunus laurocerasus</i> L.		A	P	SC				*	
	<i>Prunus mahaleb</i> L.		A, B, C, D, E, F, G, H	P	SEUPO					
	<i>Prunus persica</i> (L.) Batsch		A, E	P	SC				*	
	<i>Prunus spinosa</i> L.	P		P	EUAS					
	<i>Pyracantha coccinea</i> M. J. Roemer		A, E	P	CME					
	<i>Pyrus communis</i> L.		E	P	SC				*	
* <i>Rosa canina</i> L.		A, B, C, E	P	WSP						
<i>Rosa gallica</i> L.		E	P	EUAS						

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	<i>Rosa sempervirens</i> L.	P		P	CME					
	<i>Rubus caesius</i> L.	M		P	EUAS					
	<i>Rubus heteromorphus</i> Ripart ex Genev.	P		P	ILAE					
	* <i>Rubus ulmifolius</i> Schott		A, D, E, F, H	P	ILAP					
	<i>Sanguisorba minor</i> Scop. ssp. <i>muricata</i> Briq.		A, B, C, E, F, H	H	SEUPO					
	<i>Sorbus domestica</i> L.		A, B, C, E, H	P	CME					
Rubiaceae	<i>Asperula aristata</i> L. f. ssp. <i>scabra</i> (J. Preslet C Presl) Nyman		B, C, D, E, H, I	H	SEUME					
	<i>Crucianella latifolia</i> L.		A, B, D, G, H	T	CME					
	<i>Galium aparine</i> L.		A, B, E, F, H	T	WSP					
	<i>Galium corrudifolium</i> Vill.	P		H	SEUME					
	* <i>Galium lucidum</i> All.		B, C, D, E, F, G, H, I	P	CME					
	<i>Galium parisiense</i> L.	M		T	SEUME					
	<i>Rubia peregrina</i> L.		A, B, C, D, E, F, H	P	CME					
	<i>Sherardia arvensis</i> L.		A, B, C, E	T	WSP					
<i>Valantia muralis</i> L.		A, C, D, E, F, H	T	CME						
Rutaceae	* <i>Citrus deliciosa</i> Ten.		E	P	SC				*	
	* <i>Citrus limon</i> (L.) Burm. f.		E	P	SC				*	
	<i>Ruta chalepensis</i> L.	M		Ch	SEUME					
	<i>Ruta graveolens</i> L.		A, E, G	Ch	MEPO					
	* <i>Zanthoxylum armatum</i> DC.		E	P	SC				*	
Santalaceae	<i>Osyris alba</i> L.		A, D	P	CME					
Saxifragaceae	<i>Saxifraga tridactylites</i> L.		A, D, H	T	WSP					
Scrophulariaceae	<i>Antirrhinum majus</i> L.		A	Ch	CUAD				*	
	<i>Chaenorhinum minus</i> (L.) Lange ssp. <i>litorale</i> (Willd.) Hayek		A, E, H	T	ILAP					
	<i>Chaenorhinum minus</i> (L.) Lange ssp. <i>minus</i>	M		T	EU					
	<i>Cymbalaria muralis</i> P. Gaertn., B. Mey. et Scherb.		A	H	SEUME					
	<i>Kickxia commutata</i> (Bernh. ex Rchb.) Fritsch ssp. <i>commutata</i>		A	H	EUME					
	<i>Linaria angustissima</i> (Loisel.) Borbás		E	H	SEUMO					
	<i>Linaria chalepensis</i> (L.) Mill.		A	T	SEUME		DD			
	<i>Linaria simplex</i> (Willd.) DC.		A, G, H	T	CME					
	<i>Linaria vulgaris</i> Mill.		A, B, C, E	T	EUAS					
	<i>Misopates orontium</i> (L.) Raf.		A, E, G, H	T	EUAS					
	<i>Odontites lutea</i> (L.) Clairv.		A, B, C, D, E, G, H, I	T	SEUME					
	* <i>Paulownia tomentosa</i> (Thunb.) Steud.		E	P	SC				*	
	<i>Scrophularia canina</i> L.		A, B, E, H	H	SEUME					
	<i>Scrophularia peregrina</i> L.		A	T	CME					
	<i>Verbascum orientale</i> (L.) All.		A, B, C, G, H	T	EME					
	<i>Verbascum sinuatum</i> L.		A, B, E, F, H	H	CME					
	* <i>Verbascum thapsus</i> L.		A	H	EU					
	<i>Veronica arvensis</i> L.		A, E, G, H	T	EUAS					
	<i>Veronica cymbalaria</i> Bodard		A, C, H	T	SEUME					
	<i>Veronica hederifolia</i> L.	P		R	EUAS					
	<i>Veronica persica</i> Poir.		A, B, E	T	WSP				*	*
<i>Veronica polita</i> Fr.		A, B	T	EUAS						

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Simaroubaceae	<i>Ailanthus altissima</i> (Mill.) Swingle		A, B, E	P	CUAD				*	*
Solanaceae	<i>Capsicum annuum</i> L.		E	T	SC				*	*
	<i>Datura innoxia</i> Mill.		E	T	CUAD				*	*
	<i>Hyoscyamus niger</i> L.	M		T	WSP					
	* <i>Physalis alkekengi</i> L.		A	H	EU					
	<i>Solanum lycopersicum</i> L.		B, E	T	SC				*	
	* <i>Solanum melongena</i> L.		A	T	SC				*	
	<i>Solanum nigrum</i> L.		A, E	T	WSP					
	<i>Solanum tuberosum</i> L.		A, E	T	SC				*	
Tamaricaceae	<i>Tamarix dalmatica</i> Baum		E	P	WME					
	<i>Tamarix gallica</i> L.		E	P	CUAD					
Theligonaceae	<i>Theligonum cynocrambe</i> L.	M		T	SEUME					
Ulmaceae	<i>Celtis australis</i> L.		A, B, E, G	P	SEUME					
	* <i>Ulmus glabra</i> Huds.		A	P	WSP					
	<i>Ulmus minor</i> Mill.		A	P	WSP					
	<i>Ulmus pinnato-ramosa</i> Dieck ex Koehne	M		P	SC					
Urticaceae	<i>Parietaria judaica</i> L.		A, E	H	SEUME					
	<i>Urtica urens</i> L.		A, E	T	WSP					
Valerianaceae	<i>Centranthus ruber</i> (L.) DC.		A	Ch	CUAD					
	<i>Valerianella coronata</i> (L.) DC.		H	T	CME					
	<i>Valerianella discoidea</i> (L.) Loisel.		A, B, E	T	CME					
	<i>Valerianella echinata</i> (L.) DC.		A, B	T	CME					
	* <i>Valerianella locusta</i> (L.) Laterrade		A	T	CME					
	<i>Valerianella muricata</i> (Stiven ex M. Bieb.) J. W. Loudon	M		T	EME				*	
	<i>Valerianella pumila</i> (L.) DC	M		R	CME					
Verbenaceae	* <i>Lantana camara</i> L.		A	P	SC				*	
	<i>Verbena officinalis</i> L.		A, B, C	H	WSP					
	<i>Vitex agnus-castus</i> L.	P		P	CME					
Violaceae	<i>Viola alba</i> Besser ssp. <i>dehnhardtii</i> (Ten.) W. Becker		B	H	SEUME					
	<i>Viola arvensis</i> Murray		A, C, E, H	T	WSP					
	<i>Viola odorata</i> L.	P		H	EU					
	* <i>Viola suavis</i> M. Bieb. ssp. <i>adriatica</i> (Frey) Haesler		A, B, C, E	H	ILAE	*		*		
Vitaceae	* <i>Parthenocissus quinquefolia</i> (L.) Planchon		A, E	P	CUAD				*	*
	<i>Vitis vinifera</i> L.		A, B, C, E, F, G	P	CUAD					
Xanthorrhoeaceae	* <i>Asphodeline lutea</i> (L.) Rchb.		C, D, I	G	EME					
Zosteraceae	* <i>Posidonia oceanica</i> (L.) Delile		B, D	Hy	CME		DD	*		
Zygophyllaceae	<i>Tribulus terrestris</i> L.		A, B	T	SEUME					