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THE URBAN FLORA OF THE CITY OF ZADAR (DALMATIA, CROATIA)

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Zadar, one of the oldest towns in Croatia, is situated in North Dalmatia. A floristic survey performed between 2005 and 2008 included vascular native and non-native taxa with the ability to survive outside crops. A total of 926 vascular plant species and subspecies, from 470 genera and 107 families were recorded. The most common families are *Asteraceae* s.l. (12.42%), *Poaceae* (11.02%) and *Fabaceae* (9.83%), while therophytes (42.98%) are the most abundant life form. The predominant presentation of therophytes with respect to other life forms has been recognized as a feature common to both the Mediterranean climate and urban areas. The prevailing representation of Mediterranean plants in the flora of the city of Zadar (32.83%) demonstrates that this flora is, despite the exposure to durable anthropogenic influence, still developing under the prevailing influence of the Mediterranean climate conditions. A significant number of cultivated and adventitious taxa (19.22%) and widespread taxa (15.55%) in the flora of the city of Zadar is an indicator of human impact. Although the flora of the city of Zadar is an urban flora it comprises of 17 endemic, 27 threatened and 176 protected taxa.

Key words: urban vascular flora, Zadar, Dalmatia, Croatia

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Grad Zadar je smješten u sjevernoj Dalmaciji i jedan je od najstarijih hrvatskih gradova. Istraživanjem flore provedenim od 2005. do 2008. godine obuhvaćene su domaće i strane svojte koje imaju sposobnost održavanja izvan uzgoja. Zabilježeno je ukupno 926 vrsta i podvrsta iz 470 rodova i 107 porodica. Najzastupljenije porodice su *Asteraceae* s. l. (12.42%), *Poaceae* (11.02%) i *Fabaceae* (9.83%), a najzastupljeniji životni oblik su terofiti (42.98%). Prevladavajuća zastupljenost terofita u odnosu na ostale životne oblike zajednička je osobina flora područja s mediteranskom klimom i urbanih područja. Najveća zastupljenost mediteranskih biljaka u flori Zadra (32.83%) ukazuje da se njegova flora, unatoč izloženosti antropogenom djelovanju, ipak razvija pod prevladavajućim utjecajem mediteranske klime. Značajna zastupljenost kultiviranih i adventivnih svojti (19.22%) i svojti širokog rasprostranjenja (15.55%) u flori Zadra je pokazatelj utjecaja čovjeka. Iako je flora Zadra urbana flora, ona sadrži čak 17 endemičnih, 27 ugroženih i 176 zaštićenih svojti.

Key words: urbana vaskularna flora, Zadar, Dalmacija, Hrvatska

INTRODUCTION

The city of Zadar is situated in the central part of the Adriatic coast of Croatia (Fig. 1) and is the largest urban agglomeration in the area between the towns of

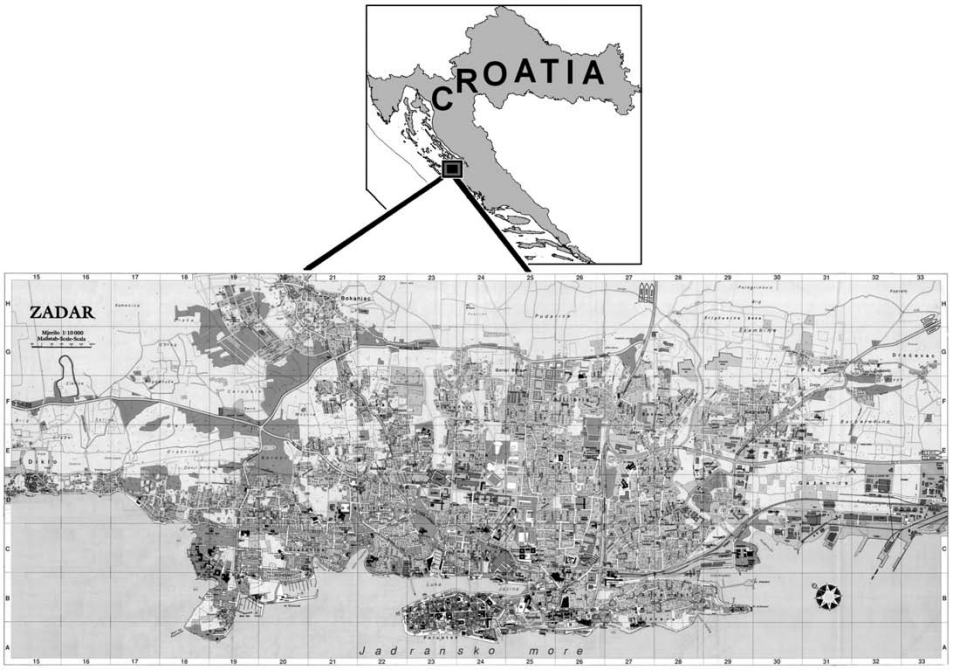

Fig. 1. Geographical position and the map of the city of Zadar (according to BIRIN & ŠTEFANAC, 2004)

Rijeka and Split. Zadar is one of the oldest towns in Croatia with an urban tradition of over 2000 years (GRAOVAC, 2004). The relief of the Zadar area is diverse. On the sea side there are islands that belong to the Zadar archipelago and in the hinterland is the largest Croatian littoral plain, Ravni Kotari, followed by the karstic plateau Bukovica, bounded by the mountain massif of south Velebit (PEJNOVIĆ, 2002). Carbonate rocks, mostly limestone from the periods of Jurassic, Cretaceous, and Tertiary prevail in the bedrock. The soils in the Zadar area are anthropogenically changed and the sorts that prevail are terra rossa on limestone and dolomites, brown soils on limestone and rendzina soils (VRANKOVIĆ, 1985). According to the Köppen Climate classification applied to the area of Croatia (BERTOVIĆ, 1975), the Zadar area has a Csax« Mediterranean climate type usually referred to as the »olive tree climate«. According to Trinajstić (1998), the Zadar area is wholly situated in the Eumediterranean vegetation zone of the Mediterranean Littoral, characterised by the zonal forest association *Fraxino orno-Quercetum ilicis* H-ić (1956) 1958.

Research into urban flora and vegetation in Europe started after World War II, especially in Central Europe (PYŠEK, 1998; SUKOPP, 1990, 2002; WITTIG, 2004). Researches in southern parts of Europe have been intensified in the last 20 years (HRUSKA, 1989; 1993/94; JOVANOVIĆ, 1994, 1997; CELESTI GRAPOW & BLASI, 1998; CHRONOPOULOS & CHRISTODOULAKIS, 1996, 2000, 2003; DANA *et al.* 2002; MOSYAKIN & YAVORSKA, 2003; KRIGAS & KOKKINI, 2004, 2005; STEŠEVIĆ *et al.*, 2009).

However, no systematic studies of urban flora and vegetation in Croatia have been carried out. Data about taxa findings for certain cities are presented in older flo-

ristic works (VISIANI, 1826, 1842–1852, 1872; ALSCHINGER, 1832; PETTER, 1832; SMITH, 1878; ROSSI 1924, 1930) and papers about ruderal vegetation (HORVATIĆ, 1963; MARKOVIĆ, 1964, 1975, 1979, 1980; MARKOVIĆ-GOSPODARIĆ, 1965, 1969; TRINAJSTIĆ, 1979; ČARNI & JOGAN, 1998). Furthermore, in the last 20 years significant papers, with individual neophyte findings for certain Croatian cities were published (ILIJANIĆ *et al.*, 1991; TRINAJSTIĆ *et al.*, 1993; ŠILIĆ & ŠOLIĆ 1999; MILOVIĆ, 2001; PANDŽA *et al.*, 2001). Only a few authors researched the flora of the Dalmatian cities of Šibenik (MILOVIĆ, 2000), Split (RUŠČIĆ, 2002) and Omiš (TAFRA, 2009) and partly, the flora of the continental city of Zagreb (NIKOLIĆ, 2011).

The first data about the flora of the city of Zadar and its surroundings were published in floristic works from the 19th century (VISIANI, 1826, 1842–1852, 1872; ALSCHINGER, 1832), in which approximatelly 900 taxa of higher plants were recorded (MILOVIĆ, 2008). Therefore, the flora of the city of Zadar was, for those times, well researched. Later, individual findings of several plant communities from the Zadar area (HORVATIĆ, 1963; MARKOVIĆ, 1964; MARKOVIĆ-GOSPODARIĆ, 1969) were published, as well as findings of individual species, mostly of neophytes: *Datura innoxia* (PANDŽA & STANČIĆ, 1999); *Artemisia verlotiorum*, *Aster squamatus*, *Bidens subalternans*, *Galinsoga parviflora*, *Phytolacca americana* and *Xanthium spinosum* (PANDŽA *et al.*, 2001); *Ulmus pinnato-ramosa* (TRINAJSTIĆ, 2001), *Euphorbia prostrata* (MILOVIĆ & RANDIĆ, 2001); *Conyza bonariensis* and *C. sumatrensis* (MILOVIĆ, 2004). PETRICIOLI (1986) recorded 125 tree and shrub taxa and PERINČIĆ (2010) 241 horticultural species, common in Zadar parks and gardens. Recently, a finding of 16 neophytes new to the flora of Croatia, found in the Zadar area (MILOVIĆ *et al.*, 2010), was published.

The aim of this detailed floristic study was to complete, after more than 170 years, the knowledge about the urban vascular flora of the city of Zadar and to prepare a good background for a further comprehensive analysis of the urban flora of the city of Zadar, as a typical old Mediterranean city.

MATERIALS AND METHODS

The researched area comprises the narrowly defined area of the city of Zadar, including the former suburban settlements – Diklo, Bokanjac, Dračevac and Ploče that have, with the expansion of the city of Zadar, become a part of the town (Fig. 1). The researched area covers approximately 30 km^2 and it completely matches the Zadar area shown on the town map with a scale 1:10 000 (BIRIN & ŠTEFANAC, 2004).

The floristic survey was performed between 2005 and 2008 during the vegetation seasons. The research included vascular native and non-native taxa with the ability to survive outside the crops.

Identification of plants was carried out using the standard floristic literature: TUTIN *et al.* (1968–1980, 1993), HORVATIĆ & TRINAJSTIĆ (1967–1981), TRINAJSTIĆ (1975), PIGNATTI (1982), DOMAC (1994), STACE (1997), DELAFORGE (2006). The nomenclature used is in agreement with NIKOLIĆ (2011) and the taxa that are not listed in the above mentioned source were adjusted according to the GRIN Taxonomy for Plants (2010).

In the list of urban flora (Appendix 1), taxa were listed in alphabetic order. Designations for: family, life form, chorological type (geoelement), endemic/threatened/protected status, and authors of previously registered taxa were provided for each taxon.

The affiliation of the taxa to life forms is determined according to PIGNATTI (1982) and marked with the standard abbreviations in the list of urban flora: **Ch** (Chamaephyta), **G** (Geophyta), **H** (Hemicryptophyta), **Hy** (Hydrophyta), **P** (Phanerophyta) and **T** (Therophyta).

Geoelements (chorological types) are adjusted according to HORVATIĆ (1963) and HORVATIĆ *et al.* (1967/1968) in 11 main groups, with the corresponding subgroups (the abbreviations used in the list of urban flora are in the parenthesis):

1. MEDITERRANEAN FLORAL ELEMENT
   - 1.1. Circum-Mediterranean plants (**CIME**)
   - 1.2. West-Mediterranean plants (**WEME**)
   - 1.3. East-Mediterranean plants (**EAME**)
   - 1.4. Illyrian Mediterranean plants
     - 1.4.1. Illyrian-South European plants (**ILSE**)
     - 1.4.2. Illyrian-Adriatic plants
       - a) Illyrian-Adriatic endemic plants (**ILAE**)
       - b) Illyrian-Apennine plants (**ILAP**)
   - 1.5. Mediterranean-Atlantic plants (**MEAT**)
   - 1.6. European Mediterranean plants (**EUME**)
   - 1.7. Mediterranean-Pontic plants (**MEPO**)
2. ILLYRIAN-BALKANIC FLORAL ELEMENT
   - 2.1. Illyrian-Balkanic endemic plants (**ILBE**)
   - 2.2. Balkanic-Apennine plants (**BAAP**)
3. SOUTH EUROPEAN FLORAL ELEMENT
   - 3.1. South European-Mediterranean plants (**SEME**)
   - 3.2. South European-Pontic plants (**SEPO**)
   - 3.3. South European-mountain plants (**SEMO**)
   - 3.4. South European-continental plants (**SECO**)
   - 3.5. South European-Atlantic plants (**SEAT**)
4. EAST EUROPEAN-PONTIC FLORAL ELEMENT (**EEUP**)
5. SOUTHEAST EUROPEAN FLORAL ELEMENT (**SEEU**)
6. CENTRAL EUROPEAN FLORAL ELEMENT (**CEEU**)
7. EUROPEAN FLORAL ELEMENT (**EURO**)
8. EURASIAN FLORAL ELEMENT (**EUAS**)
9. CIRCUM-HOLARTIC PLANTS (**CIHO**)
10. WIDESPREAD PLANTS (**WISP**)
11. CULTIVATED&ADVENTITIOUS PLANTS (**CUAD**)

Endemic taxa are defined according to NIKOLIĆ (2011) and are marked with the abbreviation »**end**«. Taxa listed in the Red Book of Vascular Flora of Croatia (NIKOLIĆ & TOPIĆ, 2005) are marked with their corresponding IUCN category: Critically Endangered (**CR**); Endangered (**EN**) and Vulnerable (**VU**). Taxa protected by the Nature Protection Act (ANONYMOUS, 2005) and listed in the Ordinance on Designating Wild Taxa Protected and Strictly Protected (ANONYMOUS, 2009) are denoted as »**pr**« (protected) and »**sp**« (strictly protected) in the list of urban flora.

From previously recorded taxa, stated by 19th century authors, only those confirmed by more recent researches or during this investigation, were included in the list of urban flora (Appendix 1). Each of them is marked with an abbreviation of the authors' name: **Ma** (MARKOVIĆ-GOSPODARIĆ, 1969), **Pe** (PETRICIOLI, 1986), **P&S** (PANDŽA & STANČIĆ, 1999), **Pa** (PANDŽA *et al.*, 2001); **M&R** (MILOVIĆ & RANDIĆ, 2001); **Tr** (TRINAJSTIĆ, 2001); **M1** (MILOVIĆ, 2004); **M2** (MILOVIĆ *et al.*, 2010). If the

name of the previously recorded taxon differs from the valid name (according to Nikolić, 2011 or GRIN Taxonomy for Plants, 2010), it is mentioned after the authors' abbreviation.

RESULTS AND DISCUSSION

In the researched area a total of 926 vascular plant species and subspecies (Appendix 1) from 470 genera and 107 families were recorded (Tab. 1). The rather rich flora of the city of Zadar is the result of its phytogeographic location and the great anthropogenic impact on urban habitats. This area has been settled for a very long time (GRAOVAC, 2004) with lasting human influence on the flora and the vegetation. Many Central European authors have demonstrated that urban areas are, generally, richer in species than the areas around the cities that have similar surfaces (HAEUPLER, 1974; WITTIG & DURWEN, 1981; PYŠEK, 1989, 1993; SUKOPP, 2002). Research into urban flora tend to demonstrate that cities are »islands« of biologic diversity within a relatively uniform agricultural area (WANIA *et al.*, 2006) that serve as refuge places to sustain many species (PYŠEK, 1998). An additional reason for a huge number of taxa in the list of urban flora of the city of Zadar is the inclusion of cultivated plants with a short survival capacity outside gardens, which has not hitherto been usual for floristic researches in Croatia.

If we take into consideration the correlation between the surface area of the city, the number of inhabitants and floristic diversity, the total number of taxa for the city of Zadar is is largely similar to the numbers of taxa recorded for some other Dalmatian (Split, Šibenik and Omiš) and Mediterranean (Patras, Salonika and Rome) cities (Table 2).

According to the number of taxa, three families are prominent in the urban flora of the city of Zadar (Tab. 3): *Asteraceae* s.l. (12.42%), *Poaceae* (11.02%) and *Fabaceae* (9.83%). Taxa from those families constitute one third of the urban flora of the city of Zadar (308 taxa; 33.26%).

The same families are the most abundant in the urban floras of Šibenik (MILOVIĆ, 2000) Split (RUŠČIĆ, 2002), Omiš (TAFRA, 2009) and in the urban flora of Italy (HRUSKA, 1993/1994) as well (Tab. 4). This could be expected because these urban areas have similar types of habitats and a similar climate.

Tab. 1. Taxonomic analysis of the urban flora of the city of Zadar

Taxa	Pteridophyta	Gymnospermae	Angiospermae		Total
			Dicotyledones	Monocotyledones	
Families	2	2	88	15	107
Genera	2	3	369	96	470
Species	4	5	638	178	825
Subspecies	0	2	83	16	101
Species and subspecies	4	7	721	194	926
% of total flora	0.43	0.76	77.86	20.95	100

Tab. 2. Comparison between the numbers of taxa for the city of Zadar and those in some other Mediterranean cities

City	No. of taxa	Area (km^2)	No. of inhabitants	Literature
ZADAR	**926**	**30**	70**,000**	
Split (Croatia)	842	30	175,000	RUŠČIĆ, 2002
Šibenik (Croatia)	617	4	40,000	MILOVIĆ, 2000
Omiš (Croatia)	616	3	6,400	TAFRA, 2009
Patras (Greece)	818	58	180,000	CHRONOPOULOS & CHRISTODOULAKIS, 2003
Salonika (Greece)	718	61	1,000,000	KRIGAS & KOKKINI, 2005
Rome (Italy)	1132	300	2,900,000	CELESTI GRAPOW, 1995

Tab. 3. The most abundant families (with 20 and more species and subspecies) in the flora of the city of Zadar

Family	**No. of taxa**	**% of total flora**
Asteraceae s.l.	115	12.42
– *Asteraceae* s.s.	(70)	(7.56)
– *Cichoriaceae*	(45)	(4.86)
Poaceae	102	11.02
Fabaceae	91	9.83
Brassicaceae	35	3.78
Lamiaceae	33	3.56
Liliaceae	31	3.35
Caryophyllaceae	29	3.13
Scrophulariaceae	29	3.13
Apiaceae	27	2.92
Chenopodiaceae	25	2.70
Rosaceae	25	2.70
Other families (95)	384	41.47
Total	926	100.00

Tab. 4. The most abundant families in the floras of the cities of Zadar, Šibenik, Split, Omiš and in the urban flora of Italy

Families	**Zadar**	Šibenik and surroundings (MILOVIĆ 2000)	Split (RUŠČIĆ 2002)	Omiš (TAFRA 2009)	urban flora of Italy (HRUSKA 1993/1994)
Asteraceae s.l.	**12.4%**	12.9%	13.9%	12.9%	12.6%
Poaceae	**11.0%**	10.8%	8.8%	10.7%	9.2%
Fabaceae	**9.83%**	10.7%	8.4%	10.7%	9.4%
Brassicaceae	**3.8%**	5.1%	5.8%	5.1%	5.8%

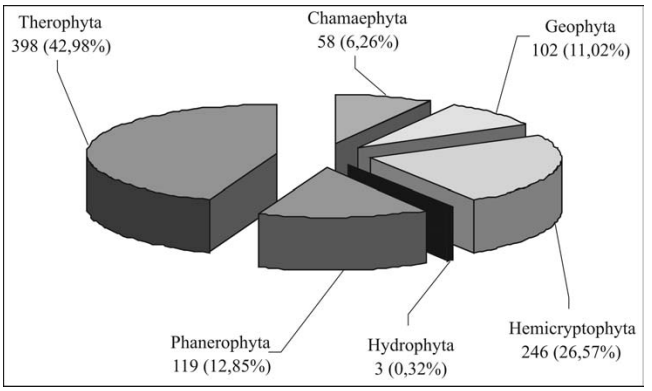

Fig. 2. Life form spectrum of the urban flora of the city of Zadar

Therophytes (42.98%) are the most common life form in the flora of the city of Zadar (Fig. 2), followed by hemicryptophytes (26.57%), while the rarest are chamaephytes (6.26%) and hydrophytes (0.32%).

The given results match the data for the neighboring Dalmatian cities (Šibenik, Split and Omiš), those for the urban floras of Italian cities and for Mediterranean flora (Tab. 5).

Therophytes, plants with a short vegetation cycle, are the best adapted to the conditions of the Mediterranean climate and to those of urban environments with constant human influences. For example, in the floras of Central European cities there are significantly large numbers of therophytes (SUKOPP & WERNER 1983), which is, for this area, a good indicator of anthropogenic influence (SUKOPP *et al.*, 1979; SUKOPP & WERNER, 1983; SUDNIK-WOJCIKOWSKA, 1988; PYŠEK & PYŠEK, 1990, 1991). However, in the Mediterranean area, it is harder to distinguish if the presence of therophytes is caused by anthropogenic factors or by the Mediterranean climate (cf. HRUŠKA, 1993/1994). A similar problem is obvious in Croatian Dalmatia, where therophytes are dominant not only in the flora of the mainland urban settlements

Tab. 5. Life forms of the floras of the city of Zadar, other Dalmatian cities, some Mediterranean cities in Italy and the Mediterranean region

City	T	H	P	G	Ch	Hy /others	Literature
ZADAR	**42.98%**	**26.57%**	**12.85%**	**11.02%**	**6.26%**	**0.32%**	
Šibenik (Croatia)	47.65%	27.55%	10.7%	6.81%	7.29%	–	MILOVIĆ, 2000
Split (Croatia)	37.8%	29.6%	15.6%	9.5%	6.7%	–	RUŠČIĆ, 2002
Omiš (Croatia)	39.94%	28.41%	14.77%	7.95%	8.77%	0.16%	TAFRA, 2009
Bologna (Italy)	44%	41%	8%	4%	3%	–	HRUSKA, 1989
Roma (Italy)	39%	31%	13%	9%	5%	3	HRUSKA, 1989
Bari (Italy)	56%	23%	7%	8%	6%	1%	HRUSKA, 1989
Napoli (Italy)	41%	22%	19%	5%	11%	2%	HRUSKA, 1989
Mediterranean	**43%**	**29%**	**12%**	**11%**	**6%**	–	**HORVAT, 1949**

(Tab. 5), but also in the flora of some islands that are uninhabited or very poorly inhabited (HEĆIMOVIĆ, 1982; FRANJIĆ & PANDŽA, 1996; PANDŽA, 1998, 2003).

Phytogeographical analysis of the urban flora of the city of Zadar (Tab. 6), showed that the Mediterranean plants (32.83% of total flora) predominate, followed by cultivated and adventive (19.22%), South European (17.06%) and widespread plants (15.55%). Among the Mediterranean geoelement, the most frequent are the Circum-Mediterranean plants (20.09%). The Illyrian-Adriatic plants (3.56%), whose centre of distribution is in the East Adriatic Littoral, have a special significance.

The comparison of geoelements in the urban floras of the cities of Zadar, Split, Šibenik and Omiš (Tab. 7), demonstrates similarities in the highest presence of

Tab. 6. Phytogeographical analysis (geoelements) of the urban flora of the city of Zadar

Geoelements		No. of taxa	%
1.	**MEDITERRANEAN**	**304**	32.83
1.1.	Circum-Mediteranean plants (**CIME**)	186	20.09
1.2.	West-Mediterranean plants (**WEME**)	6	0.65
1.3.	East-Mediterranean plants (**EAME**)	17	1.84
1.4.	Illyrian Mediterranean plants	42	4.54
	A) Illyrian-South European plants (**ILSE**)	9	0.97
	B) Illyrian-Adriatic plants	33	3.56
	a) Illyrian-Adriatic endemic plants (**ILAE**)	*20*	*2.16*
	b) Illyrian-Apennine plants (**ILAP**)	*13*	*1.40*
1.5.	Mediterranean-Atlantic plants (**MEAT**)	27	2.92
1.6.	European Mediterranean plants (**EUME**)	6	0.65
1.7.	Mediterranean-Pontic plants (**MEPO**)	20	2.16
2.	**ILLYRIAN-BALKANIC**	3	0.32
2.1.	Illyrian-Balkanic endemic plants (**ILBE**)	1	0.11
2.2.	Balkanic-Apennine plants (**BAAP**)	2	0.22
3.	**SOUTH EUROPEAN**	158	17.06
3.1.	South European-Mediterranean plants (**SEME**)	122	13.17
3.2.	South European-Pontic plants (**SEPO**)	28	3.02
3.3.	South European-mountain plants (**SEMO**)	1	0.11
3.4.	South European-continental (**SECO**)	3	0.32
3.5.	South European-Atlantic plants (**SEAT**)	4	0.43
4.	**EAST EUROPEAN-PONTIC (EEUP)**	9	0.97
5.	**SOUTHEAST EUROPEAN (SEEU)**	6	0.65
6.	**CENTRAL EUROPEAN (CEEU)**	4	0.43
7.	**EUROPEAN (EURO)**	23	2.48
8.	**EURASIAN (EUAS)**	89	9.61
9.	**CIRCUM-HOLARCTIC PLANTS (CIHO)**	8	0.86
10.	**WIDESPREAD PLANTS (WISP)**	144	15.55
11.	**CULTIVATED & ADVENTIOUS PLANTS (CUAD)**	178	19.22
	TOTAL	**926**	100.00

Tab. 7. Comparison of the representation of geoelements in the flora of the cities of Zadar, Split, Šibenik and Omiš

Geoelement	**ZADAR**	Split (RUŠČIĆ, 2002)	Šibenik (MILOVIĆ, 2000)	Omiš (TAFRA, 2009)
Mediterranean	**32.83%**	36.2%	39.71%	37.66%
Illyrian-Balkanic	**0.32%**	0.2%	0.49%	–
South European	**17.06%**	16.7%	19.94%	16.40%
East European-Pontic	**0.97%**	0.4%	0.49%	0.65%
Southeast European	**0.65%**	0.7%	0.49%	0.81%
Central European	**0.43%**	0.7%	0.32%	–
European	**2.48%**	2.7%	2.69%	1.46%
Eurasian	**9.61%**	8.8%	7.46%	7.63%
Circum-Holarctic	**0.86%**	1.1%	0.65%	0.65%
Widespread plants	**15.55%**	15.8%	17.18%	16.56%
Cultivated & Adventitious plants	**19.22%**	16.6%	10.53%	18.18%
Total	**100%**	100%	100%	100%

Mediterranean plants, and a significant presence of South European, widespread and cultivated and adventitious plants, as well.

The predominant presentation of Mediterranean taxa and a significant number of widespread and cultivated and adventive plants was also recorded in the floras of some Italian cities (HRUSKA, 1989, 1993/1994) and in the flora of the Greek city of Patras (CHRONOPOULOS & CHRISTODOULAKIS, 2003). The dominance of Mediterranean plants in the urban floras of Mediterranean cities demonstrates that their floras, despite the exposure to a long-term and strong anthropogenic influence, developed under the prevailing influence of general climatic circumstances. However, a significant representation of widespread and cultivated and adventitious taxa indicates the durability and intensity of anthropogenic influence on the flora and vegetation of Mediterranean cities.

In the urban flora of the city of Zadar there are a total of 17 taxa (1.84% of total flora) that, according to NIKOLIĆ (2011), have the status of endemic plants (Tab. 8) and belong mostly to the group of Illyrian-Adriatic endemic plants (HORVATIĆ, 1963; HORVATIĆ *et al.*, 1967/1968). Especially important is the finding of three taxa with the status of stenoendemic plants (i.e. with ranges restricted to Croatia only): *Corydalis acaulis*, *Iris adriatica* and *Seseli tomentosum*. The species *C. acaulis*, which usually occurs as a part of the rock vegetation, was found in the old town centre in the Poluotok, where it grows in the fissures of old houses (Braće Bersa Street) and on the walls of the church of St. Krševan.

According to the National Red List of Vascular Flora (NIKOLIĆ & TOPIĆ, 2005), 27 taxa (2.92%) of the urban flora of the city of Zadar have some categories of threats (Tab. 8, appendix 1). Among the threatened taxa the most abundant are those from the Orchidaceae family (nine taxa) and taxa that occur in habitats along the seashore (*Salsola* ssp., *Suaeda maritima*, *Parapholis incurva*, *Desmazeria marina*, *Hainardia cylindrica*, *Carex extensa*). Threatened taxa point to specifically threatened habitats, such as pastures and seashores.

Tab. 8. Endemic, threatened and taxa statutorily protected in the urban flora of the city of Zadar

Category/ subcategory		No. of taxa	% of total flora
Endemic		**17**	**1.84**
Threatened	Critically Endangered (CR)	2	0.22
	Endangered (EN)	7	0.76
	Vulnerable (VU)	18	1.94
	Total	**27**	**2.92**
Statutorily protected	strictly protected	75	8.10
	protected	101	10.91
	Total	**176**	**19.01**

CONCLUSIONS

The results of this research confirm the floras of urban areas to be extremely rich and diverse. In the city of Zadar, over a quite small area of approximately 30 km^2, a total of 926 taxa of vascular plants were recorded. The floristic richness of the urban flora of the city of Zadar is a consequence of two reasons: the phytogeographic location of the city of Zadar in the Eumediterranean zone of the Mediterranean vegetation region and the durable and diverse human impact, because this area has been inhabited for centuries.

In the urban flora of Zadar *Asteraceae* s.l. (12.42%), *Poaceae* (11.02%) and *Fabaceae* (9.83%) are the most common families and therophytes (42.98%) are the most abundant life form. The predominance of therophytes over other life forms has been recognized as a feature common to both the Mediterranean climate and urban areas.

The prevailing representation of Mediterranean plants in the flora of the city of Zadar (32.83%) demonstrates that their flora and vegetation are, despite the exposure to strong and lasting anthropogenic influence, still developing under the prevailing influence of general climatic conditions. The significant numbers of cultivated and adventitious taxa (19.22%) and widespread taxa (15.55%) in the flora of the city of Zadar are an indicator of human impact.

Although the flora of the city of Zadar is an urban flora it comprises 17 endemic, 27 threatened and 176 protected taxa. Some endemic and threatened taxa that are slowly vanishing from their natural habitats have managed to sustain themselves in habitats in the cities (e.g. *Corydalis acaulis*), their chances of survival being thus enhanced.

The results of this research are similar to those from floristic researches into other Dalmatian cites and into cities in the wider Mediterranean area. All research has confirmed the large number of therophytes and the widespread, cultivated and adventitious taxa as reliable indicators of the degree of anthropogenic influence.

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SAŽETAK

Urbana flora Zadra (Dalmacija, Hrvatska)

M. Milović & B. Mitić

Detaljna istraživanja vaskularne flore Zadra provedena su od 2005. do 2008. godine kroz sve dijelove vegetacijske sezone. Istraživanjem su obuhvaćene domaće samonikle svojte i strane svojte koje imaju sposobnost održavanja izvan uzgoja. Zabilježeno je ukupno 926 vrsta i podvrsta iz 470 rodova i 107 porodica, što pokazuje veliko veliko bogatstvo i raznolikost flore istraživanog područja. Najzastupljenije porodice su *Asteraceae* s.l. (12.42%), *Poaceae* (11.02%) i *Fabaceae* (9.83%). Terofiti (42.98%) su najzastupljeniji životni oblik, a od horoloških skupina najzastupljenije su mediteranske biljke (32.83%), zatim slijede kultivirane i adventivne biljke (19.22%), južnoeuropske biljke (17.06%) te biljke široke rasprostranjenosti (15.55%). Veća zastupljenost mediteranskih biljaka (32.83%) u odnosu na ostale korološke skupine ukazuje da se flora Zadra, unatoč izloženosti antropogenom djelovanju, ipak razvija pod prevladavajućim utjecajem mediteranske klime. Značajna zastupljenost kultiviranih i adventivnih svojti (19.22%) i svojti širokog rasprostranjenja (15.55%) su pokazatelji dugotrajnog i snažnog utjecaja čovjeka na floru zadarskog područja. Iako se radi o gradskom području sa znatno izmijenjenim stanišnim uvjetima u odnosu na prvobitne, urbana flora Zadra sadrži čak 17 endema, 27 ugroženih te 176 zaštićenih svojti. Ovi rezultati pokazuju da na urbanim područjima i staništima uz uobičajene korovne i ruderalne svojte svoje mjesto nalaze i brojne svojte prirodnih i poluprirodnih staništa i tako povećavaju svoje šanse za opstanak. Broj zabilježenih svojti te rezultati taksonomske i ekološke analize flore Zadra su općenito sukladni s rezultatima zabilježenim za neke druge dalmatinske gradove (Split, Šibenik, Omiš) i slične mediteranske gradove u Italiji i Grčkoj (Patras), uvažavajući razlike u površini te broju i gustoći stanovnika u istraživanim gradovima.

Appendix. The urban vascular flora of the city of Zadar (abbreviations are explained in the chapter Materials and Methods)

No. of taxa	Taxa	Family	Life-form	Chorological group	Endemic & Threatened taxa	Protected taxa	Author of previously registered taxa
1.	*Abutilon theophrasti* Medik.	Malvaceae	T	CUAD			
2.	*Acanthus mollis* L.	Acanthaceae	H	WEME			Pe
3.	*Acer campestre* L.	Aceraceae	P	EURO			
4.	*Acer monspessulanum* L.	Aceraceae	P	SEME			Pe
5.	*Acer negundo* L.	Aceraceae	P	CUAD			Pe
6.	*Achillea ligustica* All.	Asteraceae	H	CIME			
7.	*Achillea millefolium* L.	Asteraceae	H	WISP			
8.	*Achillea nobilis* L.	Asteraceae	H	EUAS			
9.	*Acinos arvensis* (Lam.) Dandy	Lamiaceae	T	SEME			
10.	*Adonis annua* L. ssp. *cupaniana* (Guss.) C. Steinb.	Ranunculaceae	T	SEPO	EN	sp	
11.	*Aegilops geniculata* Roth	Poaceae	T	CIME			
12.	*Aegilops neglecta* Req. ex Bertol.	Poaceae	T	CIME		pr	
13.	*Aegilops triuncialis* L.	Poaceae	T	CIME			
14.	*Aegilops uniaristata* Vis.	Poaceae	T	ILAP		pr	
15.	*Aethionema saxatile* (L.) R.Br.	Brassicaceae	Ch	SEME			
16.	*Agave americana* L.	Agavaceae	P	CUAD			
17.	*Agrimonia eupatoria* L.	Rosaceae	H	CIHO		pr	
18.	*Agrostis castellana* Boiss. et Reut.	Poaceae	H	MEAT		sp	
19.	*Ailanthus altissima* (Mill.) Swingle	Simaroubaceae	P	CUAD			
20.	*Aira elegantissima* Schur	Poaceae	T	SEME			
21.	*Ajuga chamaepitys* (L.) Schreb.	Lamiaceae	T	CIME			
22.	*Albizia julibrissin* Durazz.	Fabaceae	P	CUAD			Pe
23.	*Alcea rosea* L.	Malvaceae	H	CUAD			Pe
24.	*Alisma plantago-aquatica* L.	Alismataceae	Hy	WISP			
25.	*Allium ampeloprasum* L.	Liliaceae	G	CIME			
26.	*Allium cepa* L.	Liliaceae	G	CUAD			
27.	*Allium flavum* L.	Liliaceae	G	SEME			
28.	*Allium neapolitanum* Cirillo	Liliaceae	G	CIME			
29.	*Allium oleraceum* L.	Liliaceae	G	EUAS			
30.	*Allium paniculatum* L. ssp. *fuscum* (Waldst. et Kit.) Arcang.	Liliaceae	G	SEME			
31.	*Allium roseum* L.	Liliaceae	G	CIME			
32.	*Allium sphaerocephalon* L.	Liliaceae	G	SEME			
33.	*Allium subhirsutum* L.	Liliaceae	G	CIME			
34.	*Allium vineale* L.	Liliaceae	G	WISP			
35.	*Alopecurus myosuroides* Huds.	Poaceae	T	WISP			
36.	*Alopecurus rendlei* Eig.	Poaceae	T	SEME	VU	sp	
37.	*Alternanthera caracasana* Kunth.	Amaranthaceae	Ch	CUAD			M2
38.	*Althaea cannabina* L.	Malvaceae	H	SEPO			
39.	*Alyssum alyssoides* (L.) L.	Brassicaceae	T	SEME			
40.	*Alyssum simplex* Rudolphi	Brassicaceae	T	CIME			
41.	*Amaranthus albus* L.	Amaranthaceae	T	WISP			
42.	*Amaranthus blitoides* S. Watson	Amaranthaceae	T	CUAD			

No. of taxa	Taxa	Family	Life-form	Chorological group	Endemic & Threatened taxa	Protected taxa	Author of previously registered taxa
43.	*Amaranthus caudatus* L.	Amaranthaceae	T	CUAD			
44.	*Amaranthus cruentus* L.	Amaranthaceae	T	CUAD			
45.	*Amaranthus deflexus* L.	Amaranthaceae	T	WISP			
46.	*Amaranthus graecizans* L.	Amaranthaceae	T	WISP			
47.	*Amaranthus hybridus* L.	Amaranthaceae	T	WISP			
48.	*Amaranthus powellii* S.Watson	Amaranthaceae	T	CUAD			
49.	*Amaranthus retroflexus* L.	Amaranthaceae	T	WISP			
50.	*Amaranthus spinosus* L.	Amaranthaceae	T	CUAD			M2
51.	*Amaranthus viridis* L.	Amaranthaceae	T	CUAD			
52.	*Ambrosia artemisiifolia* L.	Asteraceae	T	CUAD			
53.	*Ambrosia coronopifolia* Torr. et A. Gray	Asteraceae	G	CUAD			
54.	*Ammi majus* L.	Apiaceae	T	SEME			
55.	*Ammoides pusilla* (Brot.) Breistr.	Apiaceae	T	CIME			
56.	*Anacamptis pyramidalis* (L.) Rich.	Orchidaceae	G	EURO		sp	
57.	*Anagallis arvensis* L.	Primulaceae	T	WISP			
58.	*Anagallis coerulea* Schreb.	Primulaceae	T	WISP			
59.	*Anchusa arvensis* (L.) M.Bieb.	Boraginaceae	T	EUAS			
60.	*Anchusa cretica* Mill.	Boraginaceae	T	CIME			
61.	*Anchusa italica* Retz.	Boraginaceae	H	SEME			
62.	*Andrachne telephioides* L.	Euphorbiaceae	Ch	CIME			
63.	*Anemone hortensis* L.	Ranunculaceae	G	CIME		pr	
64.	*Anthemis altissima* L.	Asteraceae	T	SEME			
65.	*Anthemis arvensis* L.	Asteraceae	T	CIME			
66.	*Anthemis cotula* L.	Asteraceae	T	WISP			
67.	*Anthemis segetalis* Ten.	Asteraceae	T	SEEU			
68.	*Anthoxanthum odoratum* L.	Poaceae	H	EUAS			
69.	*Anthyllis vulneraria* L. ssp. *rubiflora* (DC.) Arcang.	Fabaceae	H	ILAE	end	sp	
70.	*Antirrhinum majus* L.	Scrophulariaceae	Ch	CUAD			
71.	*Aphanes arvensis* L.	Rosaceae	T	EURO			
72.	*Apium graveolens* L.	Apiaceae	H	CUAD			
73.	*Aptenia cordifolia* (L. f.) Schwantes*	Aizoaceae	Ch	CUAD			
74.	*Arabidopsis thaliana* (L.) Heynh.	Brassicaceae	T	WISP			
75.	*Arabis hirsuta* (L.) Scop.	Brassicaceae	H	WISP			
76.	*Arbutus unedo* L.	Ericaceae	P	CIME			Pe
77.	*Arctium minus* Bernh.	Asteraceae	H	EUAS			
78.	*Arenaria leptoclados* (Reichenb.) Guss.	Caryophyllaceae	T	EUAS			
79.	*Arenaria serpillyfolia* L.	Caryophyllaceae	T	WISP			
80.	*Argyranthemum frutescens* (L.) Sch. Bip.*	Asteraceae	Ch	CUAD			
81.	*Argyrolobium zanonii* (Turra) P.W. Ball	Fabaceae	Ch	WEME			
82.	*Aristolochia rotunda* L.	Aristolochiaceae	G	CIME			
83.	*Armoracia rusticana* P.Gaertn., B.Mey. et Scherb.	Brassicaceae	G	WISP			
84.	*Artemisia absinthium* L.	Asteraceae	Ch	EUAS			
85.	*Artemisia caerulescens* L.	Asteraceae	Ch	ILAP			
86.	*Artemisia verlotiorum* Lamotte	Asteraceae	H	CUAD			Pa
87.	*Arthrocnemum fruticosum* (L.) Moq.	Chenopodiaceae	Ch	SEME			

No. of taxa	Taxa	Family	Life-form	Chorological group	Endemic & Threatened taxa	Protected taxa	Author of previously registered taxa
88.	*Arthrocnemum macrostachyum* (Moric) C. Koch	Chenopodiaceae	Ch	SEME			
89.	*Arum italicum* Mill.	Araceae	G	CIME		pr	
90.	*Arundo donax* L.	Poaceae	G	WISP			
91.	*Asparagus acutifolius* L.	Liliaceae	G	CIME			
92.	*Asperula aristata* L.f. ssp. *scabra* (J.Presl et C.Presl) Nyman	Rubiaceae	H	SEME			
93.	*Asphodelus aestivus* Brot.	Liliaceae	G	CIME			
94.	*Asphodelus fistulosus* L.	Liliaceae	H	CIME			
95.	*Asplenium ceterach* L.	Aspleniaceae	H	SEME			
96.	*Asplenium ruta-muraria* L.	Aspleniaceae	H	CIHO			
97.	*Asplenium trichomanes* L.	Aspleniaceae	H	WISP			
98.	*Aster linosyris* (L.) Bernh.	Asteraceae	H	SEPO			
99.	*Aster squamatus* (Spreng.) Hieron.	Asteraceae	T	CUAD			Pa
100.	*Asterolinon linum-stellatum* (L.) Duby	Primulaceae	T	CIME			
101.	*Astragalus hamosus* L.	Fabaceae	T	CIME			
102.	*Astragalus monspessulanus* L. ssp. *illyricus* (Bernhardt) Chater	Fabaceae	H	ILAE	end	sp	
103.	*Astragalus onobrychis* L.	Fabaceae	H	MEPO			
104.	*Atriplex halimus* L.	Chenopodiaceae	P	CUAD			
105.	*Atriplex littorallis* L.	Chenopodiaceae	T	EUAS			
106.	*Atriplex patula* L.	Chenopodiaceae	T	WISP			
107.	*Atriplex prostrata* Boucher ex DC in Lam. et DC.	Chenopodiaceae	T	WISP			
108.	*Aurinia sinuata* (L.) Griseb.	Brassicaceae	Ch	ILAP	end	sp	
109.	*Avena barbata* Pott ex Link	Poaceae	T	SEPO			
110.	*Avena sterilis* L.	Poaceae	T	SEPO			
111.	*Ballota nigra* L. ssp. *foetida* Hayek	Lamiaceae	H	SEME			
112.	*Ballota nigra* L. ssp. *uncinata* (Fiori et Bég.) Patzak	Lamiaceae	H	CIME			
113.	*Bassia scoparia* (L.) A.J.Scott	Chenopodiaceae	T	CUAD			
114.	*Bellardia trixago* (L.) All.	Scrophulariaceae	T	SEME			
115.	*Bellis perennis* L.	Asteraceae	H	CEEU			
116.	*Bellis sylvestris* Cirillo	Asteraceae	H	CIME			
117.	*Beta vulgaris* L. ssp. *maritima* (L.) Arcang.	Chenopodiaceae	H	MEAT			
118.	*Beta vulgaris* L. ssp. *vulgaris*	Chenopodiaceae	T	CUAD			
119.	*Betonica officinalis* L.	Lamiaceae	H	EURO		pr	
120.	*Bidens subalternans* DC.	Asteraceae	T	CUAD			Pa
121.	*Bituminaria bituminosa* (L.) Stirton	Fabaceae	H	CIME			
122.	*Blackstonia perfoliata* (L.) Huds. ssp. *perfoliata*	Gentianaceae	T	MEAT			
123.	*Bombycilaena erecta* (L.) Smoljan.	Asteraceae	T	SEPO			
124.	*Borago officinalis* L.	Boraginaceae	T	CIME			
125.	*Brachypodium distachyon* (L.) P.Beauv.	Poaceae	T	CIME			
126.	*Brachypodium pinnatum* (L.) P.Beauv. ssp. *rupestre* (Host) Schübl. et M.Martens	Poaceae	H	MEAT			
127.	*Brachypodium retusum* (Pers.) P.Beauv.	Poaceae	H	CIME			

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128.	*Brachypodium sylvaticum* (Huds.) P.Beauv.	Poaceae	H	EUAS			
129.	*Brassica nigra* (L.) Koch	Brassicaceae	T	CUAD		pr	
130.	*Brassica oleracea* L.	Brassicaceae	Ch	CUAD			
131.	*Brassica rapa* L.	Brassicaceae	T	CUAD			
132.	*Briza maxima* L.	Poaceae	T	CIME			
133.	*Bromus arvensis* L.	Poaceae	T	EUAS			
134.	*Bromus catharticus* Vahl.	Poaceae	T	CUAD			M2
135.	*Bromus commutatus* Schrad.	Poaceae	T	EURO		sp	
136.	*Bromus erectus* Huds.	Poaceae	H	SEME			
137.	*Bromus hordaceus* L. ssp. *hordaceus*	Poaceae	T	EUAS			Ma
138.	*Bromus hordaceus* L. ssp. *molliformis* (Lloyd) Maire et Weiller	Poaceae	T	SEME			
139.	*Bromus intermedius* Guss.	Poaceae	T	CIME			
140.	*Bromus japonicus* Thunb.	Poaceae	T	EUAS			
141.	*Bromus madritensis* L.	Poaceae	T	MEAT			
142.	*Bromus racemosus* L.	Poaceae	T	WISP			
143.	*Bromus rigidus* Roth.	Poaceae	T	EEUP			
144.	*Bromus sterilis* L.	Poaceae	T	WISP			
145.	*Broussonetia papyrifera* (L.) Vent.	Moraceae	P	CUAD			Pe
146.	*Bryonia dioica* Jacq.	Cucurbitaceae	G	SEME		pr	
147.	*Bunias erucago* L.	Brassicaceae	T	SEME			
148.	*Bupleurum lancifolium* Hornem.	Apiaceae	T	CIME	CR	sp	
149.	*Bupleurum veronense* Turra	Apiaceae	T	ILSE			
150.	*Calamintha nepetoides* Jord.	Lamiaceae	H	SEPO		pr	
151.	*Calendula arvensis* L.	Asteraceae	T	SEME		pr	
152.	*Calendula officinalis* L.	Asteraceae	T	CUAD			
153.	*Calepina irregularis* (Asso) Thell.	Brassicaceae	T	EURO			
154.	*Calystegia sepium* (L.) R.Br.	Convolvulaceae	H	WISP			
155.	*Campanula erinus* L.	Campanulaceae	T	CIME			
156.	*Campanula rapunculus* L.	Campanulaceae	H	EUAS			
157.	*Camphorosma monspeliaca* L.	Chenopodiaceae	Ch	CIME			
158.	*Campsis radicans* (L.) Seen.	Bignoniaceae	P	CUAD			
159.	*Canna indica* L.	Cannaceae	G	CUAD			
160.	*Cannabis sativa* L.	Cannabaceae	T	CUAD			
161.	*Capparis spinosa* L.	Capparaceae	P	CIME			
162.	*Capsella bursa-pastoris* (L.) Medik.	Brassicaceae	H	WISP			
163.	*Capsella rubella* Reut.	Brassicaceae	T	CIME			Ma
164.	*Cardamine hirsuta* L.	Brassicaceae	T	WISP			
165.	*Cardaria draba* (L.) Desv.	Brassicaceae	H	WISP			
166.	*Carduus micropterus* (Borbás) Teyber ssp. *micropterus*	Asteraceae	H	ILAE	end	sp	
167.	*Carduus pycnocephalus* L. ssp. *pycnocephalus*	Asteraceae	H	CIME		sp	
168.	*Carex distachya* Desf.	Cyperaceae	H	CIME			
169.	*Carex distans* L.	Cyperaceae	H	CIME			
170.	*Carex divisa* Huds.	Cyperaceae	G	SEME	EN	sp	
171.	*Carex divulsa* Stokes	Cyperaceae	H	WISP			
172.	*Carex extensa* Gooden.	Cyperaceae	H	WISP	EN	sp	

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173.	*Carex flacca* Schreb. ssp. *serrulata* (Biv.) Greuter	Cyperaceae	G	CIME			
174.	*Carex hallerana* Asso	Cyperaceae	H	SEME			
175.	*Carex hirta* L.	Cyperaceae	G	EUAS			
176.	*Carex spicata* Huds.	Cyperaceae	H	EUAS			
177.	*Carex vulpina* L.	Cyperaceae	H	EUAS			
178.	*Carlina corymbosa* L.	Asteraceae	H	CIME			
179.	*Carpinus orientalis* Mill.	Corylaceae	P	ILSE			
180.	*Carpobrothus acinaciformis* (L.) L. Bolus	Aizoaceae	Ch	CUAD			
181.	*Carpobrothus edulis* (L.) N.E.Br. in Phillips	Aizoaceae	Ch	CUAD			
182.	*Carthamus lanatus* L.	Asteraceae	T	CIME			
183.	*Catalpa bignonioides* Walter	Bignoniaceae	P	CUAD			Pe
184.	*Celtis australis* L.	Ulmaceae	P	SEME			Pe
185.	*Centaurea calcitrapa* L.	Asteraceae	H	MEAT			
186.	*Centaurea solstitialis* L.	Asteraceae	H	SEPO			
187.	*Centaurea spinosociliata* Seenus ssp. *cristata* (Bertol.) Dostál	Asteraceae	H	ILAE	end	sp	
188.	*Centaurea weldeniana Rchb.*	*Asteraceae*	H	EEUP			
189.	*Centaurium erythraea* Rafn	Gentianaceae	T	WISP		pr	
190.	*Centaurium pulchellum (Sw.) Druce*	Gentianaceae	T	EUAS			
191.	*Centranthus ruber* (L.) DC.	Valerianaceae	Ch	MEAT		pr	
192.	*Cephalanthera longifolia* (L.) Fritsch	Orchidaceae	G	EUAS		sp	
193.	*Cephalaria leucantha* (L.) Roem. et Schult.	Dipsacaceae	H	CIME			
194.	*Cerastium brachypetalum* Pers. ssp. *brachypetalum*	Caryophyllaceae	T	SECO			
195.	*Cerastium brachypetalum* Pers. ssp. *roeseri* (Boiss. et Heldr.) Nyman	Caryophyllaceae	T	SEAT			
196.	*Cerastium glomeratum* Thuill.	Caryophyllaceae	T	WISP			
197.	*Cerastium pumilum* Curtis ssp. *glutinosum* (Fries) Jalas	Caryophyllaceae	T	WISP			
198.	*Cerastium semidecandrum* L.	Caryophyllaceae	T	SEPO			
199.	*Cerastium tomentosum* L.	Caryophyllaceae	Ch	CUAD			
200.	*Ceratonia siliqua* L.	Fabaceae	P	CUAD			
201.	*Ceratostigma plumbaginoides* Bunge	Plumbaginaceae	G	CUAD			
202.	*Cercis siliquastrum* L.	Fabaceae	P	CUAD			Pe
203.	*Chaenorhinum minus* (L.) Lange ssp. *litorale* (Willd.) Hayek	Scrophulariaceae	T	ILAP			
204.	*Chaenorhinum minus* (L.) Lange ssp. *minus*	Scrophulariaceae	T	EURO			
205.	*Chamomilla recutita* (L.) Rauschert	Asteraceae	T	CUAD			
206.	*Chenopodium album* L.	Chenopodiaceae	T	WISP			
207.	*Chenopodium ambrosioides* L.	Chenopodiaceae	T	CUAD		sp	
208.	*Chenopodium hybridum* L.	Chenopodiaceae	T	WISP			
209.	*Chenopodium murale* L.	Chenopodiaceae	T	WISP		sp	
210.	*Chenopodium opulifolium* Schrader ex Koch et Ziz	Chenopodiaceae	T	WISP		sp	
211.	*Chenopodium polyspermum* L.	Chenopodiaceae	T	WISP			
212.	*Chenopodium strictum* Roth	Chenopodiaceae	T	WISP		sp	

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213.	*Chenopodium vulvaria* L.	Chenopodiaceae	T	SEME		sp	
214.	*Chondrilla juncea* L.	Cichoriaceae	H	EUAS			
215.	*Chrozophora tinctoria* (L.) A.Juss.	Euphorbiaceae	T	MEPO			
216.	*Chrysanthemum coronarium* L.	Asteraceae	T	CIME			
217.	*Chrysopogon gryllus* (L.) Trin.	Poaceae	H	MEPO			
218.	*Cicer arietinum* L.	Fabaceae	T	CUAD			
219.	*Cichorium endivia* L.	Cichoriaceae	T	CUAD			
220.	*Cichorium intybus* L.	Cichoriaceae	H	WISP			
221.	*Cirsium arvense* (L.) Scop.	Asteraceae	T	EUAS			
222.	*Cirsium vulgare* (Savi) Ten.	Asteraceae	H	EUAS			
223.	*Cistus incanus* L. ssp. *incanus*	Cistaceae	P	CIME			
224.	*Cistus monspeliensis* L.	Cistaceae	P	CIME			
225.	*Cistus salvifolius* L.	Cistaceae	P	CIME			
226.	*Citrullus lanatus* (Thunb.) Mansf.	Cucurbitaceae	T	CUAD			
227.	*Cleistogenes serotina* (L.) Keng	Poaceae	H	SEPO			
228.	*Clematis flammula* L.	Ranunculaceae	P	CIME			
229.	*Clematis vitalba* L.	Ranunculaceae	P	EURO			
230.	*Clinopodium vulgare* L.	Lamiaceae	H	WISP			
231.	*Colchicum hungaricum* Janka	Liliaceae	G	SEEU		pr	
232.	*Colchicum visianii* Parl.	Liliaceae	G	ILAP		pr	
233.	*Colutea arborescens* L.	Fabaceae	P	CIME		pr	
234.	*Commelina benghalensis* L.	Commelinaceae	G	CUAD			M2
235.	*Commelina communis* L.	Commelinaceae	G	CUAD			
236.	*Consolida regalis* S.F.Gray ssp. *paniculata* (Host) Soó	Ranunculaceae	T	CIME		pr	
237.	*Convolvulus althaeoides* L. ssp. *tenuissimus* (Sibith. et Sm.) Stace	Convolvulaceae	H	EAME			
238.	*Convolvulus arvensis* L.	Convolvulaceae	G	WISP			Ma
239.	*Convolvulus cantabrica* L.	Convolvulaceae	H	SEME			
240.	*Conyza bonariensis* (L.) Cronquist	Asteraceae	T	CUAD			M1
241.	*Conyza canadensis* (L.) Cronquist	Asteraceae	T	CUAD			M1
242.	*Conyza sumatrensis* (Retz.) E. Walker	Asteraceae	T	CUAD			M1
243.	*Cornus mas* L.	Cornaceae	P	SECO			
244.	*Cornus sanguinea* L.	Cornaceae	P	EURO			
245.	*Coronilla emerus* L. ssp. *emeroides* Boiss. et Spruner	Fabaceae	P	EAME			
246.	*Coronilla scorpioides* (L.) Koch	Fabaceae	T	CIME			
247.	*Coronopus didymus* (L.) Sm.	Brassicaceae	T	CUAD			
248.	*Corydalis acaulis* (Wulfen) Pers.	Fumariaceae	H	ILAE	end	sp	
249.	*Cosmos bipinnatus* Cav.	Asteraceae	T	CUAD			
250.	*Cotinus coggygria* Scop.	Anacardiaceae	P	SEPO		pr	
251.	*Crataegus monogyna* Jacq.	Rosaceae	P	EUAS		pr	Pe; as *C. oxyacantha* L.
252.	*Crepis capillaris* (L.) Wallr.	Cichoriaceae	T	CEEU			
253.	*Crepis dioscoridis* L.	Cichoriaceae	T	EAME			
254.	*Crepis foetida* L. ssp. *foetida*	Cichoriaceae	T	SEME			

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255.	*Crepis foetida* L. ssp. *rhoedifolia* (M.Bieb.) Čelak.	Cichoriaceae	T	EEUP			
256.	*Crepis neglecta* L.	Cichoriaceae	T	EUME			
257.	*Crepis pulchra* L.	Cichoriaceae	T	SEME			
258.	*Crepis rubra* L.	Cichoriaceae	T	EAME			
259.	*Crepis sancta* (L.) Babc.	Cichoriaceae	T	EAME			
260.	*Crepis setosa* Haller f.	Cichoriaceae	T	SEPO			
261.	*Crepis vesicaria* L. ssp. *taraxacifolia* (Thuill.) Thell.	Cichoriaceae	T	MEAT			
262.	*Crepis vesicaria* L. ssp. *vesicaria*	Cichoriaceae	T	CIME			
263.	*Crepis zacintha* (L.) Babc.	Cichoriaceae	T	CIME			
264.	*Crithmum maritimum* L.	Apiaceae	Ch	MEAT			
265.	*Crocus biflorus* Mill. (incl. *C. weldenii* Hoppe et Fürnr. nom.nud.)	Iridaceae	G	SEPO		pr	
266.	*Crocus reticulatus* Steven ex. Adams	Iridaceae	G	EEUP		pr	
267.	*Crocus thomasii* Ten.	Iridaceae	G	ILAP	end	sp	
268.	*Crucianella latifolia* L.	Rubiaceae	T	CIME			
269.	*Cruciata laevipes* Opiz.	Rubiaceae	T	EUAS			
270.	*Crupina crupinastrum* (Moris) Vis.	Asteraceae	T	SEME			
271.	*Cupressus sempervirens* L.	Cupressaceae	P	EAME			Pe
272.	*Cuscuta campestris* Yuncker	Cuscutaceae	T	WISP			
273.	*Cuscuta europaea* L.	Cuscutaceae	T	EUAS			
274.	*Cyclamen hederifolium* Aiton	Primulaceae	G	SEME		pr	
275.	*Cyclamen repandum* Sibth. et Sm.	Primulaceae	G	EUME		pr	
276.	*Cymbalaria muralis* P. Gaertn. ssp. *muralis*	Scrophulariaceae	H	SEME			
277.	*Cynara scolymus* L.	Asteraceae	H	CUAD			
278.	*Cynodon dactylon* (L.) Pers.	Poaceae	G	WISP			
279.	*Cynoglossum columnae* Ten.	Boraginaceae	T	EAME			
280.	*Cynoglossum creticum* Mill.	Boraginaceae	T	CIME			
281.	*Cynosurus echinatus* L.	Poaceae	T	SEME			
282.	*Cyperus alternifolius* L.*	Cyperaceae	Hy	CUAD			
283.	*Cyperus longus* L.	Cyperaceae	G	CUAD	VU	sp	
284.	*Dactylis glomerata* L. ssp. *glomerata*	Poaceae	H	EUAS			
285.	*Dactylis glomerata* L. ssp. *hispanica* (Roth) Nyman	Poaceae	H	CIME			
286.	*Dasypyrum villosum* (L.) P.Candargy	Poaceae	T	MEPO			
287.	*Datura innoxia* Mill.	Solanaceae	T	CUAD			P&S
288.	*Datura stramonium* L.	Solanaceae	T	WISP			
289.	*Daucus carota* L. ssp. *carota*	Apiaceae	H	WISP			
290.	*Daucus carota* L. ssp. *major* (Vis.) Arcang.	Apiaceae	H	ILAE			
291.	*Daucus carota* L. ssp. *maximus* (Desf.) Ball	Apiaceae	H	CIME			
292.	*Delphinium peregrinum* L.	Ranunculaceae	T	SEME	EN	sp	
293.	*Desmazeria marina* (L.) Druce	Poaceae	T	MEAT	VU	sp	
294.	*Desmazeria rigida* (L.) Tutin	Poaceae	T	MEAT			
295.	*Dianthus ciliatus* Guss.	Caryophyllaceae	H	ILAE		sp	
296.	*Dianthus sylvestris* Wulfen in Jacq. ssp. *tergestinus* (Reichenb.) Hayek	Caryophyllaceae	H	ILAE		sp	

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297.	*Dichanthium ischaemum* (L.) Roberty	Poaceae	H	SEME		sp	
298.	*Dichondra micrantha* Urb.	Convolvulaceae	G	CUAD			
299.	*Digitaria ciliaris* Retz.) Koeler	Poaceae	T	WISP		sp	
300.	*Digitaria sanguinalis* (L.) Scop.	Poaceae	T	WISP			
301.	*Diplotaxis erucoides* (L.) DC.	Brassicaceae	T	WEME			
302.	*Diplotaxis muralis* (L.) DC.	Brassicaceae	T	WISP			
303.	*Diplotaxis tenuifolia* (L.) DC.	Brassicaceae	H	WISP			
304.	*Diplotaxis viminea* (L.) DC.	Brassicaceae	T	CIME			
305.	*Dipsacus fullonum* L.	Dipsacaceae	H	WISP			
306.	*Dittrichia graveolens* (L.) Greuter	Asteraceae	T	SEME			
307.	*Dittrichia viscosa* (L.) Greuter	Asteraceae	H	CIME			
308.	*Dorycnium herbaceum* Vill.	Fabaceae	H	SEME			
309.	*Dorycnium hirsutum* (L.) Ser.	Fabaceae	Ch	CIME			
310.	*Ecballium elaterium* (L.) A.Rich.	Cucurbitaceae	Ch	CIME			
311.	*Echinochloa crus-galli* (L.) P.Beauv.	Poaceae	T	WISP			
312.	*Echinops ritro* L. ssp. *ritro*	Asteraceae	H	SEPO			
313.	*Echium italicum* L.	Boraginaceae	H	CIME			
314.	*Echium parviflorum* Moench	Boraginaceae	T	CIME			
315.	*Echium plantagineum* L.	Boraginaceae	T	MEAT			
316.	*Eleusine coracana* (L.) Gaertn.	Poaceae	T	CUAD			M2
317.	*Eleusine indica* (L.) Gaertn.	Poaceae	T	CUAD			
318.	*Elymus pycnanthus* (Godr.) Melderis	Poaceae	G	CIME		pr	
319.	*Elymus repens* (L.) Gould	Poaceae	G	WISP			
320.	*Epilobium tetragonum* L. ssp. *tetragonum*	Onagraceae	H	WISP			
321.	*Equisetum ramosissimum* Desf.	Equisetaceae	G	CIHO			
322.	*Eragrostis cilianensis* (All.) F.T.Hubb.	Poaceae	T	WISP			
323.	*Eragrostis minor* Host	Poaceae	T	CIME			
324.	*Eragrostis pilosa* (L.) P.Beauv.	Poaceae	T	WISP			
325.	*Erica arborea* L.	Ericaceae	P	CIME			Pe
326.	*Erigeron annuus* (L.) Pers. ssp. *septentrionalis* (Fernald et Wiegand) Wagenitz	Asteraceae	T	CUAD			
327.	*Eriobotrya japonica* (Thunb.) Lindl.	Rosaceae	P	CUAD			Pe
328.	*Erodium ciconium* (L.) L'Hér.	Geraniaceae	T	MEPO			
329.	*Erodium cicutarium* (L.) L'Hér.	Geraniaceae	T	WISP			
330.	*Erodium malacoides* (L.) L'Hér.	Geraniaceae	T	CIME			
331.	*Erophila verna* (L.) Chevall. ssp. *praecox* (Steven) Walters	Brassicaceae	T	CIME			
332.	*Eruca vesicaria* (L.) Cav. ssp. *sativa* (Mill.) Thell.	Brassicaceae	T	CUAD			
333.	*Eryngium amethystinum* L.	Apiaceae	H	ILSE			
334.	*Eryngium campestre* L.	Apiaceae	H	SEME		pr	
335.	*Euonymus europaeus* L.	Celastraceae	P	EUAS			
336.	*Euonymus japonica* L.f.	Celastraceae	P	CUAD			Pe
337.	*Eupatorium cannabinum* L.	Asteraceae	H	EUAS			
338.	*Euphorbia chamaesyce* L.	Euphorbiaceae	T	SEME			
339.	*Euphorbia characias* L. ssp. *wulfenii* (Hoppe ex Koch) A.M.Sm.	Euphorbiaceae	Ch	ILAE			

No. of taxa	Taxa	Family	Life-form	Chorological group	Endemic & Threatened taxa	Protected taxa	Author of previously registered taxa
340.	*Euphorbia exigua* L.	Euphorbiaceae	T	SEME			
341.	*Euphorbia falcata* L.	Euphorbiaceae	T	SEME			
342.	*Euphorbia fragifera* Jan.	Euphorbiaceae	Ch	ILAE			
343.	*Euphorbia helioscopia* L.	Euphorbiaceae	T	WISP			
344.	*Euphorbia lathyris* L.	Euphorbiaceae	H	CUAD			
345.	*Euphorbia maculata* L.	Euphorbiaceae	T	CUAD			
346.	*Euphorbia peplus* L.	Euphorbiaceae	T	WISP			
347.	*Euphorbia platyphyllos* L.	Euphorbiaceae	T	SEME			
348.	*Euphorbia prostrata* Aiton	Euphorbiaceae	T	CUAD			M&R
349.	*Euphorbia spinosa* L.	Euphorbiaceae	Ch	CIME			
350.	*Euphrasia rostkoviana* Hayne	Scrophulariaceae	T	EURO		pr	
351.	*Fallopia baldschuanica* (Regel) Holub	Polygonaceae	P	CUAD			Pe; as *Polygonum aubertii*
352.	*Fallopia convolvulus* (L.) Á.Löve	Polygonaceae	T	CIHO			
353.	*Fallopia dumetorum* (L.) Holub	Polygonaceae	T	EUAS			
354.	*Festuca arundinacea* Schreb.	Poaceae	H	EURO			
355.	*Festuca pratensis* Huds.	Poaceae	H	WISP			
356.	*Festuca rupicola* Heuff.	Poaceae	H	ILAE			
357.	*Ficus carica* L.	Moraceae	P	CIME			Pe
358.	*Filago pyramidata* L.	Asteraceae	T	MEAT			
359.	*Filago vulgaris* Lam.	Asteraceae	T	EUAS			
360.	*Filipendula vulgaris* Moench	Rosaceae	H	EUAS			
361.	*Foeniculum vulgare* Mill.	Apiaceae	H	CIME			
362.	*Fraxinus ornus* L.	Oleaceae	P	SEME			
363.	*Fumana ericoides* (Cav.) Gand.	Cistaceae	Ch	CIME			
364.	*Fumana procumbens* (Dunal) Gren. et Godr.	Cistaceae	Ch	SEME			
365.	*Fumana thymifolia* (L.) Spach ex Webb	Cistaceae	Ch	CIME			
366.	*Fumaria officinalis* L.	Fumariaceae	T	WISP			
367.	*Fumaria parviflora* Lam.	Fumariaceae	T	SEME			
368.	*Fumaria petteri* Reichenb. ssp. *thuretii* (Boiss.) Pugsley	Fumariaceae	T	CIME			
369.	*Gagea pusilla* (Schmidt) Schult. et Schult.f.	Liliaceae	G	MEPO			
370.	*Galinsoga ciliata* (Raf.) S.F.Blake	Asteraceae	T	CUAD			
371.	*Galinsoga parviflora* Cav.	Asteraceae	T	CUAD			Pa
372.	*Galium aparine* L.	Rubiaceae	T	WISP			
373.	*Galium corrudifolium* Vill.	Rubiaceae	H	SEME			
374.	*Galium mollugo* L.	Rubiaceae	H	EUAS			
375.	*Galium murale* (L.) All.	Rubiaceae	T	CIME			
376.	*Galium verum* L.	Rubiaceae	H	WISP		pr	
377.	*Gastridium ventricosum* (Gouan) Schinz et Thell.	Poaceae	T	MEAT			
378.	*Gaudinia fragilis* (L.) P.Beauv.	Poaceae	T	SEME			
379.	*Gazania rigens* (L.) Gaertn.*	Asteraceae	Ch	CUAD			
380.	*Genista sylvestris* Scop. ssp. *dalmatica* (Bartl.) H.Lindb.	Fabaceae	Ch	ILAE	end	sp	
381.	*Genista tinctoria* L.	Fabaceae	Ch	EUAS			

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382.	*Geranium columbinum* L.	Geraniaceae	T	EUAS			
383.	*Geranium dissectum* L.	Geraniaceae	T	WISP			
384.	*Geranium molle* L. ssp *molle*	Geraniaceae	T	WISP			
385.	*Geranium molle* L. ssp. *brutium* (Gasparr.) Graebn.	Geraniaceae	T	EAME			
386.	*Geranium purpureum* Vill.	Geraniaceae	T	SEME			
387.	*Geranium robertianum* L.	Geraniaceae	T	WISP		pr	
388.	*Geranium rotundifolium* L.	Geraniaceae	T	EUAS			
389.	*Geranium sanguineum* L.	Geraniaceae	H	SEMO			
390.	*Geranium tuberosum* L.	Geraniaceae	G	EUAS			
391.	*Gladiolus italicus* Mill.	Iridaceae	G	CIME		sp	
392.	*Gleditsia triacanthos* L.	Fabaceae	P	CUAD			Pe
393.	*Glycine max* (L.) Merr.	Fabaceae	T	CUAD			
394.	*Gratiola officinalis* L.	Scrophulariaceae	H	WISP		pr	
395.	*Hainardia cylindrica* (Willd.) Greuter	Poaceae	T	CIME	VU	sp	
396.	*Halimione portulacoides* (L.) Aellen	Chenopodiaceae	Ch	CIHO			
397.	*Hedera helix* L.	Araliaceae	P	EURO			Pe
398.	*Hedypnois cretica* (L.) Dum.Cours.	Cichoriaceae	T	CIME			
399.	*Helianthemum nummularium* (L.) Mill. ssp. *obscurum* (Èelak) Holub	Cistaceae	Ch	SEME			
400.	*Helianthemum salicifolium* (L.) Mill.	Cistaceae	T	SEME			
401.	*Helianthus tuberosus* L.	Asteraceae	G	CUAD			
402.	*Helichrysum italicum* (Roth) G. Don ssp. *italicum*	Asteraceae	Ch	CIME		pr	
403.	*Helictotrichon convolutum* (C.Presl) Henrard.	Poaceae	H	WEME			
404.	*Heliotropium europaeum* L.	Boraginaceae	T	MEPO			
405.	*Herniaria glabra* L.	Caryophyllaceae	T	EUAS		pr	
406.	*Herniaria incana* Lam.	Caryophyllaceae	H	SEME			
407.	*Hibiscus syriacus* L.	Malvaceae	P	CUAD			Pe
408.	*Hibiscus trionum* L.	Malvaceae	T	SEPO	EN	sp	
409.	*Hieracium heterogynum* (Froel.) Gutermann	Cichoriaceae	H	ILBE			
410.	*Hieracium hoppeanum* Schult. ssp. *troicum* Zahn	Cichoriaceae	H	SEEU			
411.	*Hieracium praealtum* Vill. ex Gochnat ssp. b*auhinii* (Besser) Petunn.	Cichoriaceae	H	EUAS			
412.	*Hippocrepis biflora* Spreng.	Fabaceae	T	CIME			
413.	*Hippocrepis ciliata* Willd.	Fabaceae	T	CIME			
414.	*Hippocrepis comosa* L.	Fabaceae	H	SEME			
415.	*Holcus lanatus* L.	Poaceae	H	EUAS			
416.	*Hordeum bulbosum* L.	Poaceae	H	SEME			
417.	*Hordeum murinum* L. ssp. *leporinum* (Link) Arcang.	Poaceae	T	CIME			Ma; as *H. leporinum*
418.	*Hyacinthus orientalis* L.	Liliaceae	G	CUAD			
419.	*Hymenocarpus circinnatus* (L.) Savi	Fabaceae	T	CIME			
420.	*Hyoscyamus albus* L.	Solanaceae	T	CIME		pr	

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421.	*Hypericum perforatum* L.	Clusiaceae	H	SEME		pr	
422.	*Hypochoeris radicata* L.	Cichoriaceae	H	SEME			
423.	*Impatiens balfourii* Hooker f.	Balsaminaceae	T	CUAD			
424.	*Inula conyza* DC.	Asteraceae	H	SEPO			
425.	*Inula crithmoides* L.	Asteraceae	Ch	MEAT			
426.	*Inula spiraeifolia* L.	Asteraceae	H	SEME			
427.	*Ipomoea coccinea* L.	Convolvulaceae	H	CUAD			M2
428.	*Ipomoea cordatotriloba* Dennst.	Convolvulaceae	H	CUAD			M2
429.	*Ipomoea hederacea* Jacq.	Convolvulaceae	T	CUAD			M2
430.	*Ipomoea purpurea* Roth	Convolvulaceae	T	CUAD			
431.	*Iris adriatica* Trinajstic ex Mitic	Iridaceae	G	ILAE	end	sp	
432.	*Iris germanica* L.	Iridaceae	G	CUAD			
433.	*Iris pseudacorus* L.	Iridaceae	G	EUAS		sp	
434.	*Juglans regia* L.	Juglandaceae	P	CUAD			Pe
435.	*Juncus acutiflorus* Ehrh. ex Hoffm.	Juncaceae	G	EURO		sp	
436.	*Juncus acutus* L.	Juncaceae	H	MEAT			
437.	*Juncus articulatus* L.	Juncaceae	G	CIHO			
438.	*Juncus bufonius* L.	Juncaceae	T	WISP			
439.	*Juncus effusus* L.	Juncaceae	H	WISP			
440.	*Juncus inflexus* L.	Juncaceae	H	EUAS			
441.	*Juncus maritimus* Lam.	Juncaceae	G	WISP			
442.	*Juniperus oxycedrus* L. ssp. *macrocarpa* (Sibith. et Sm.) Ball	Cupressaceae	P	CIME			
443.	*Juniperus oxycedrus* L. ssp. *oxycedrus*	Cupressaceae	P	CIME			
444.	*Juniperus phoenicea* L.	Cupressaceae	P	CIME			
445.	*Kickxia commutata* (Bernh. ex Rchb.) Fritsch	Scrophulariaceae	H	EUAS			
446.	*Kickxia spuria* (L.) Dumort.	Scrophulariaceae	T	EUAS			
447.	*Knautia arvensis* (L.) Coult.	Dipsacaceae	H	EUAS			
448.	*Knautia integrifolia* (L.) Bertol.	Dipsacaceae	T	CIME			
449.	*Knautia purpurea* (Vill.) Borbas	Dipsacaceae	H	WEME			
450.	*Koeleria splendens* C.Presl	Poaceae	H	SEME			
451.	*Lactuca sativa* L.	Cichoriaceae	T	CUAD			
452.	*Lactuca serriola* L.	Cichoriaceae	H	WISP			
453.	*Lactuca viminea* (L.) J. et C.Presl	Cichoriaceae	H	SEPO			
454.	*Lagurus ovatus* L.	Poaceae	T	CIME			
455.	*Lamium amplexicaule* L.	Lamiaceae	T	EUAS			
456.	*Lamium purpureum* L.	Lamiaceae	T	EUAS			
457.	*Lantana camara* L.*	Verbenaceae	P	CUAD			
458.	*Lathyrus annuus* L.	Fabaceae	T	CIME			
459.	*Lathyrus aphaca* L.	Fabaceae	T	SEME			
460.	*Lathyrus cicera* L.	Fabaceae	T	CIME			
461.	*Lathyrus hirsutus* L.	Fabaceae	T	SEME			
462.	*Lathyrus latifolius* L.	Fabaceae	H	SEME			
463.	*Lathyrus ochrus* (L.) DC.	Fabaceae	T	CIME	CR	sp	
464.	*Lathyrus pannonicus* (Jacq.) Garcke ssp. *varius* (Hill) P.W.Ball	Fabaceae	G	EEUP			
465.	*Lathyrus pratensis* L.	Fabaceae	H	EUAS			

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466.	*Lathyrus setifolius* L.	Fabaceae	T	MEPO			
467.	*Lathyrus sphaericus* Retz.	Fabaceae	T	CIME			
468.	*Laurus nobilis* L.	Lauraceae	P	CUAD		pr	Pe
469.	*Lavatera arborea* L.	Malvaceae	H	EUME			
470.	*Legousia hybrida* (L.) Delarbre	Campanulaceae	T	SEAT			
471.	*Leontodon autumnalis* L.	Cichoriaceae	H	EUAS			
472.	*Leontodon crispus* Vill. ssp. *asperrimus* (Willd.) Finch et P.D.Sell	Cichoriaceae	H	SEME			
473.	*Leontodon taraxacoides* (Vill.) Merat	Cichoriaceae	H	SEME			
474.	*Leontodon tuberosus* L.	Cichoriaceae	H	CIME			
475.	*Lepidium campestre* (L.) R.Br.	Brassicaceae	T	WISP			
476.	*Lepidium graminifolium* L. ssp. *sufruticosum* (L.) P.Monts.	Brassicaceae	H	SEPO			
477.	*Lepidium virginicum* L.	Brassicaceae	T	CUAD			
478.	*Ligustrum lucidum* Aiton f. (=*L. japonicum* auct. eur. non Thunb.)	Oleaceae	P	CUAD			Pe; as *L. japonicum* Thumb.
479.	*Ligustrum vulgare* L.	Oleaceae	P	CEEU			
480.	*Lilium candidum* L.	Liliaceae	G	CUAD			
481.	*Limodorum abortivum* (L.) Sw.	Orchidaceae	G	SEME		sp	
482.	*Limonium bellidifolium* (Gouan) Dumont	Plumbaginaceae	H	MEPO			
483.	*Limonium cancellatum* (Bernh. ex Bertol.) O.Kuntze	Plumbaginaceae	H	ILAP	end	sp	
484.	*Limonium narbonense* Mill.	Plumbaginaceae	H	CIME			
485.	*Limonium oleifolium* Miller ssp. *oleifolium*	Plumbaginaceae	H	CIME		sp	
486.	*Limonium sinuatum* (L.) Mill.*	Plumbaginaceae	H	CUAD			
487.	*Linaria angustissima* (Loisel.) Borbas	Scrophulariaceae	H	SEME			
488.	*Linaria simplex* (Willd.) DC.	Scrophulariaceae	T	CIME			
489.	*Linaria vulgaris* Mill.	Scrophulariaceae	H	EUAS		pr	
490.	*Linum bienne* Mill.	Linaceae	H	MEAT		pr	
491.	*Linum strictum* L. ssp. *corymbulosum* (Rchb.) Riony	Linaceae	T	MEPO		pr	
492.	*Linum strictum* L. ssp. *strictum*	Linaceae	T	CIME		pr	
493.	*Linum tenuifolium* L.	Linaceae	Ch	SEPO		pr	
494.	*Linum usitatissimum* L.	Linaceae	T	CUAD		pr	
495.	*Lithospermum arvense* L.	Boraginaceae	T	EUAS			
496.	*Lobularia maritima* (L.) Desv.	Brassicaceae	H	CUAD			
497.	*Lolium multiflorum* Lam.	Poaceae	T	CIME			
498.	*Lolium perenne* L.	Poaceae	H	EURO			Ma
499.	*Lolium rigidum* Gaudin ssp. *rigidum*	Poaceae	T	CIME			
500.	*Lomelosia brachiata* (Sm.) Greuter et Burdet	Dipsacaceae	T	EAME			
501.	*Lonicera etrusca* Santi	Caprifoliaceae	P	CIME			
502.	*Lonicera implexa* Aiton	Caprifoliaceae	P	CIME			
503.	*Lophochloa cristata* (L.) Hyl.	Poaceae	T	MEAT			
504.	*Lotus corniculatus* L.	Fabaceae	H	WISP			
505.	*Lotus glaber* Mill.	Fabaceae	H	WISP			
506.	*Lotus ornithopodioides* L.	Fabaceae	T	CIME			

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507.	*Lupinus albus* L. ssp. *albus*	Fabaceae	T	CUAD			
508.	*Lycium barbarum* L.	Solanaceae	P	CUAD			
509.	*Maclura pomifera* (Rafin.) C.K. Schneider	Moraceae	P	CUAD			Pe
510.	*Mahonia aquifolium* (Pursh.) Nutt.	Berberidaceae	P	CUAD			Pe
511.	*Malus domestica* Borkh.	Rosaceae	P	CUAD			
512.	*Malva neglecta* Wallr.	Malvaceae	T	WISP		pr	
513.	*Malva nicaeensis* All.	Malvaceae	H	CIME			
514.	*Malva sylvestris* L.	Malvaceae	H	WISP			
515.	*Marrubium incanum* Desr.	Lamiaceae	H	ILAP		pr	
516.	*Marrubium vulgare* L.	Lamiaceae	H	WISP		pr	
517.	*Matricaria perforata* Mérat	Asteraceae	T	EUAS			
518.	*Matthiola incana* (L.) R.Br.	Brassicaceae	Ch	CUAD		pr	
519.	*Medicago arabica* (L.) Huds.	Fabaceae	T	WISP			
520.	*Medicago falcata* L.	Fabaceae	H	EUAS			
521.	*Medicago littoralis* Rohde ex Loisel.	Fabaceae	T	CIME			
522.	*Medicago lupulina* L.	Fabaceae	T	WISP			
523.	*Medicago minima* (L.) Bartal.	Fabaceae	T	WISP			
524.	*Medicago orbicularis* (L.) Bartal.	Fabaceae	T	CIME			
525.	*Medicago polymorpha* L.	Fabaceae	T	SEME			
526.	*Medicago prostrata* Jacq.	Fabaceae	H	SEME			
527.	*Medicago rigidula* (L.) All.	Fabaceae	T	MEPO			
528.	*Medicago sativa* L.	Fabaceae	H	WISP			
529.	*Medicago scutellata* (L.) Mill.	Fabaceae	T	CIME			
530.	*Melia azedarach* L.	Meliaceae	P	CUAD			Pe
531.	*Melica ciliata* L. ssp. *ciliata*	Poaceae	H	EUAS			
532.	*Melilotus albus* Medik.	Fabaceae	T	EUAS			
533.	*Melilotus officinalis* (L.) Lam.	Fabaceae	H	EAME			
534.	*Melissa officinalis* L.	Lamiaceae	H	SEME		pr	
535.	*Mentha longifolia* (L.) Huds.	Lamiaceae	H	WISP		pr	
536.	*Mentha spicata* L.	Lamiaceae	H	WISP			
537.	*Mercurialis annua* L.	Euphorbiaceae	T	WISP			
538.	*Micromeria juliana* (L.) Benth. ex Rchb.	Lamiaceae	Ch	CIME			
539.	*Minuartia hybrida* (Vill.) Schischkin	Caryophyllaceae	T	EUAS			
540.	*Minuartia mediterranea* (Link.) K.Maly	Caryophyllaceae	T	CIME			
541.	*Minuartia verna* (L.) Hiern	Caryophyllaceae	Ch	EAME			
542.	*Mirabilis jalapa* L.	Nyctaginaceae	G	CUAD			
543.	*Misopates orontium* (L.) Raf.	Scrophulariaceae	T	EUAS			
544.	*Morus alba* L.	Moraceae	P	CUAD			
545.	*Muscari botryoides* (L.) Mill.	Liliaceae	G	SEME			
546.	*Muscari comosum* (L.) Mill.	Liliaceae	G	SEME			
547.	*Muscari neglectum* Guss. ex Ten.	Liliaceae	G	SEME			
548.	*Myosotis arvensis* (L.) Hill	Boraginaceae	T	EUAS			
549.	*Myosotis ramosissima* Rochel	Boraginaceae	T	EUAS			
550.	*Myosoton aquaticum* (L.) Moench	Caryophyllaceae	H	EUAS			
551.	*Myrtus communis* L.	Myrtaceae	P	CUAD			Pe
552.	*Narcissus tazetta* L. ssp. *italicus* (Ker Gawl.) Baker	Amaryllidaceae	G	CIME		pr	

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553.	*Nasturtium officinale* R. Br.	Brassicaceae	H	WISP		pr	
554.	*Neatostema apulum* (L.) I.M. Johnst.	Boraginaceae	T	CIME			
555.	*Nerium oleander* L.	Apocynaceae	P	CUAD			Pe
556.	*Nicandra physaloides* (L.) Gaertn.	Solanaceae	T	CUAD			
557.	*Nigella damascena* L.	Ranunculaceae	T	CIME			
558.	*Odontites lutea* (L.) Clairv.	Scrophulariaceae	T	SEME			
559.	*Oenanthe pimpinelloides* L.	Apiaceae	H	MEAT			
560.	*Oenothera biennis* L.	Onagraceae	H	CUAD			
561.	*Olea europaea* L.	Oleaceae	P	CUAD			Pe
562.	*Onobrychis arenaria* (Kit.) DC. ssp. *tommasini* (Jord.) Asch. Et Graebn.	Fabaceae	H	ILAE	end	sp	
563.	*Onobrychis caput-galli* (L.) Lam.	Fabaceae	T	CIME			
564.	*Ononis antiquorum* (L.) Arcang.	Fabaceae	Ch	CIME			
565.	*Ononis pusilla* L.	Fabaceae	H	SEME			
566.	*Ononis reclinata* L.	Fabaceae	T	CIME			
567.	*Onopordum illyricum* L.	Asteraceae	H	CIME		pr	
568.	*Onosma echioides* L.	Boraginaceae	Ch	ILAP	end	sp	
569.	*Ophrys bertolonii* Moretti	Orchidaceae	G	BAAP	VU	sp	
570.	*Ophrys bombyliflora* Link	Orchidaceae	G	CIME	VU	sp	
571.	*Ophrys fuciflora* (F.W. Schmidt) Moench	Orchidaceae	G	CEEU	VU	sp	
572.	*Ophrys lutea* (Gouan) Cav. ssp. *minor* (Tod.) O.Danesch et E.Danesch	Orchidaceae	G	CIME	EN	sp	
573.	*Ophrys scolopax* Cav. ssp. *cornuta* (Steven) E.G.Camus	Orchidaceae	G	MEPO		sp	
574.	*Ophrys sphegodes* Mill. ssp. *atrata* (Lindl.) E.Mayer	Orchidaceae	G	EURO	VU	sp	
575.	*Opuntia ficus-indica* (L.) Miller	Cactaceae	P	CUAD			
576.	*Opuntia scheeri* F. A. C. Weber*	Cactaceae	P	CUAD			
577.	*Opuntia vulgaris* Miller	Cactaceae	P	CUAD			
578.	*Orchis coriophora* L. ssp. *fragrans* (Pollini) K.Richt.	Orchidaceae	G	SEME	VU	sp	
579.	*Orchis papilionacea* L.	Orchidaceae	G	MEPO	VU	sp	
580.	*Orchis purpurea* Huds.	Orchidaceae	G	EUAS	VU	sp	
581.	*Orchis quadripunctata* Cirillo ex Ten.	Orchidaceae	G	EAME	VU	sp	
582.	*Origanum vulgare* L.	Lamiaceae	H	EUAS			
583.	*Orlaya grandiflora* (L.) Hoffm.	Apiaceae	T	SEME			
584.	*Ornithogalum collinum* Guss.	Liliaceae	G	SEME		pr	
585.	*Ornithogalum comosum* L.	Liliaceae	G	SEEU		pr	
586.	*Ornithogalum narbonense* L.	Liliaceae	G	SEME		pr	
587.	*Ornithogalum refractum* Kit. ex Schltr.	Liliaceae	G	SEME		pr	
588.	*Ornithogalum umbellatum* L.	Liliaceae	G	SEME		pr	
589.	*Orobanche artemisiae-campestris* Vaucher ex Gaudin (O. loricata Rchb.)	Orobanchaceae	T	SEME			
590.	*Orobanche hederae* Duby	Orobanchaceae	T	SEME			
591.	*Orobanche minor* Sm.	Orobanchaceae	T	SEME			
592.	*Osyris alba* L.	Santalaceae	P	CIME			
593.	*Oxalis articulata* Savigny	Oxalidaceae	G	CUAD			

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594.	*Oxalis corniculata* L.	Oxalidaceae	H	WISP			
595.	*Oxalis pes-capre* L.	Oxalidaceae	G	CUAD			
596.	*Paliurus spina-christii* Mill.	Rhamnaceae	P	ILSE			
597.	*Pallenis spinosa* (L.) Cass.	Asteraceae	T	CIME			
598.	*Panicum dichotomiflorum* Michx.	Poaceae	T	CUAD			
599.	*Panicum miliaceum* L.	Poaceae	T	CUAD			
600.	*Papaver rhoeas* L.	Papaveraceae	T	WISP		pr	
601.	*Papaver somniferum* L.	Papaveraceae	T	CUAD			
602.	*Papaver strigosum* (Boenn.) Schur	Papaveraceae	T	EAME			
603.	*Parapholis incurva* (L.) C.E.Hubb.	Poaceae	T	MEAT	VU	sp	
604.	*Parietaria judaica* L.	Urticaceae	H	SEME			
605.	*Parthenocissus quinquefolia* (L.) Planchon	Vitaceae	P	CUAD			Pe
606.	*Paspalum paspalodes* (Michx.) Scribn.	Poaceae	G	CUAD			
607.	*Passiflora caerulea* L.	Passifloraceae	P	CUAD			
608.	*Paulownia tomentosa* (Thunb.) Steud.	Scrophulariaceae	P	CUAD			Pe; as *P. imperialis*
609.	*Pennisetum glaucum* (L.) R.Br.	Poaceae	T	CUAD			M2
610.	*Perilla frutescens* (L.) Britton*	Lamiaceae	T	CUAD			
611.	*Petrorhagia prolifera* (L.) P.W.Ball ex Heywood	Caryophyllaceae	T	EUAS			
612.	*Petrorhagia saxifraga* (L.) Link	Caryophyllaceae	H	SEME			
613.	*Petroselinum crispum* (Mill.) A.W. Hill.	Apiaceae	H	CUAD			
614.	*Petunia ×hybrida* hort. ex E. Vilm.*	Solanaceae	T	CUAD			
615.	*Peucedanum carvifolia* Vill.	Apiaceae	H	SEPO			
616.	*Peucedanum cervaria* (L.) Lapeyr.	Apiaceae	H	SEME			
617.	*Phalaris canariensis* L.	Poaceae	T	CUAD		pr	
618.	*Phalaris paradoxa* L.	Poaceae	T	CIME		sp	
619.	*Phillyrea angustifolia* L.	Oleaceae	P	WEME			
620.	*Phillyrea latifolia* L.	Oleaceae	P	CIME			Pe
621.	*Phleum echinatum* Host.	Poaceae	T	CIME			
622.	*Phleum pratense* L. ssp. *bertolonii* (DC.) Bornm.	Poaceae	H	EUAS			
623.	*Phleum pratense* L. ssp. *pratense*	Poaceae	H	CIHO			
624.	*Phleum subulatum* (Savi) Asch. et Graebn.	Poaceae	T	CIME			
625.	*Phoenix canariensis* hort. ex Chabaud	Arecaceae	P	CUAD			Pe
626.	*Phragmites australis* (Cav.) Trin. ex Steud.	Poaceae	G	WISP			
627.	*Phyllostachys aurea* Rivière & C. Rivière	Poaceae	P	CUAD			Pe
628.	*Physalis angulata* L.	Solanaceae	T	CUAD			M2
629.	*Phytolacca americana* L.	Phytolaccaceae	G	CUAD			Pa
630.	*Picnomon acarna* (L.) Cass.	Asteraceae	H	CIME			
631.	*Picris echioides* L.	Cichoriaceae	T	CIME			
632.	*Picris hieracioides* L.	Cichoriaceae	H	EUAS			
633.	*Picris hispidissima* (Bartl.) Koch	Cichoriaceae	H	ILAE			
634.	*Pimpinella peregrina* L.	Apiaceae	H	SEME			
635.	*Pinus halepensis* Mill.	Pinaceae	P	CIME			Pe
636.	*Pinus nigra* Arnold.	Pinaceae	P	SEME			
637.	*Pinus pinea* L.	Pinaceae	P	CIME			Pe

No. of taxa	Taxa	Family	Life-form	Chorological group	Endemic & Threatened taxa	Protected taxa	Author of previously registered taxa
638.	*Piptatherum miliaceum* (L.) Coss.	Poaceae	H	CIME			
639.	*Pistacia lentiscus* L.	Anacardiaceae	P	CIME			
640.	*Pistacia terebinthus* L.	Anacardiaceae	P	CIME			
641.	*Pittosporum tobira* (Thunb.) Aiton f.	Pittosporaceae	P	CUAD			Pe
642.	*Plantago afra* L. (=*P. psillyum* L.)	Plantaginaceae	T	CIME		pr	
643.	*Plantago altissima* L.	Plantaginaceae	H	SEME			
644.	*Plantago bellardi* All.	Plantaginaceae	T	SEME			
645.	*Plantago coronopus* L. ssp. *commutatus* (Guss.) Pilg.	Plantaginaceae	T	MEPO			
646.	*Plantago coronopus* L. ssp. *weldenii* (Rchb.) Arcang.	Plantaginaceae	T	EUAS			
647.	*Plantago holosteum* Scop.	Plantaginaceae	H	CIME			
648.	*Plantago lanceolata* L.	Plantaginaceae	H	WISP			
649.	*Plantago major* L. ssp. *intermedia* (Gilib.) Lange	Plantaginaceae	H	WISP			
650.	*Plantago major* L. ssp. *major*	Plantaginaceae	H	WISP			
651.	*Platanus acerifolia* (Aiton) Willd.	Platanaceae	P	CUAD			Pe; as *P. hybrida*
652.	*Plumbago auriculata* Lam.*	Plumbaginaceae	P	CUAD			
653.	*Plumbago europaea* L.	Plumbaginaceae	Ch	CIME		pr	
654.	*Poa annua* L.	Poaceae	T	WISP			Ma
655.	*Poa bulbosa* L.	Poaceae	H	EUAS			
656.	*Poa compressa* L.	Poaceae	H	WISP			
657.	*Poa pratensis* L.	Poaceae	H	WISP			
658.	*Poa trivialis* L. ssp. *sylvicola* (Guss.) H.Lindb.	Poaceae	H	EUME			Ma; as *P. sylvicola*
659.	*Polycarpon tetraphyllum* (L.) L.	Caryophyllaceae	T	SEME			
660.	*Polycnemum arvense* L.	Chenopodiaceae	T	EUAS		sp	
661.	*Polycnemum majus* A. Braun	Chenopodiaceae	T	EUAS		sp	
662.	*Polygala nicaeensis* Risso ex Koch ssp. *mediterranea* Chodat	Polygalaceae	H	CIME			
663.	*Polygonum arenastrum* Boreau	Polygonaceae	T	WISP			
664.	*Polygonum aviculare* L.	Polygonaceae	T	WISP			
665.	*Polygonum bellardii* All.	Polygonaceae	T	SEME			
666.	*Polygonum lapathifolium* L.	Polygonaceae	T	WISP			
667.	*Polygonum persicaria* L.	Polygonaceae	T	WISP			
668.	*Polypogon viridis* (Gouan) Breistr.	Poaceae	T	CIME		sp	
669.	*Populus alba* L.	Salicaceae	P	EUAS			Pe
670.	*Populus nigra* L.	Salicaceae	P	EUAS			Pe
671.	*Portulaca oleracea* L.	Portulacaceae	T	WISP			
672.	*Potentilla australis* Krašan	Rosaceae	H	ILAE			
673.	*Potentilla recta* L.	Rosaceae	H	EUAS			
674.	*Potentilla reptans* L.	Rosaceae	H	WISP			
675.	*Prunella laciniata* (L.) L.	Lamiaceae	H	SEME			
676.	*Prunella vulgaris* L.	Lamiaceae	H	WISP			
677.	*Prunus avium* L.	Rosaceae	P	CUAD			

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678.	*Prunus cerasifera* Ehrh.	Rosaceae	P	CUAD			Pe; as *P. pisardii*
679.	*Prunus cerasus* L.	Rosaceae	P	CUAD			
680.	*Prunus dulcis* (Mill.) D.A. Webb	Rosaceae	P	CUAD			
681.	*Prunus mahaleb* L.	Rosaceae	P	SEPO		pr	
682.	*Prunus persica* (L.) Batsch	Rosaceae	P	CUAD			
683.	*Prunus spinosa* L.	Rosaceae	P	EUAS			
684.	*Pseudognaphalium luteoalbum* (L.) Hilliard et B.L.Burtt	Asteraceae	T	WISP		sp	
685.	*Pseudolysimachion barrelieri* (Schott ex Roem. et Schult.) Holub ssp. *barrelieri*	Scrophulariaceae	H	SEEU			
686.	*Psilurus incurvus* (Gouan) Schinz et Thell.	Poaceae	T	CIME			
687.	*Pulicaria dysenterica* (L.) Bernh.	Asteraceae	H	SEME		pr	
688.	*Punica granatum* L.	Punicaceae	P	CUAD			Pe
689.	*Pyracantha coccinea* M. J. Roemer	Rosaceae	P	CUAD			Pe
690.	*Pyrus amygdaliformis* Vill.	Rosaceae	P	SEME			
691.	*Quercus ilex* L.	Fagaceae	P	CIME			Pe
692.	*Quercus pubescens* Willd.	Fagaceae	P	SEPO			Pe
693.	*Ranunculus aquatilis* L.	Ranunculaceae	Hy	WISP		pr	
694.	*Ranunculus arvensis* L.	Ranunculaceae	T	EURO		pr	
695.	*Ranunculus bulbosus* L.	Ranunculaceae	H	EUAS		pr	
696.	*Ranunculus chius* DC.	Ranunculaceae	T	EAME		pr	
697.	*Ranunculus ficaria* L. ssp. *calthifolius* (Rchb.) Arcang.	Ranunculaceae	G	SEME		pr	
698.	*Ranunculus ficaria* L. ssp. *ficariiformis* (F.W.Schultz) Rouy et Fouc.	Ranunculaceae	G	SEME		pr	
699.	*Ranunculus millefoliatus* Vahl.	Ranunculaceae	H	SEME		pr	
700.	*Ranunculus muricatus* L.	Ranunculaceae	T	CIME		pr	
701.	*Ranunculus neapolitanus* L.	Ranunculaceae	H	SEME		pr	
702.	*Ranunculus ophioglossifolius* Vill.	Ranunculaceae	T	SEME	EN	sp	
703.	*Ranunculus sardous* Crantz	Ranunculaceae	T	WISP		pr	
704.	*Raphanus raphanistrum* L. ssp. *raphanistrum*	Brassicaceae	T	WISP			
705.	*Raphanus sativus* L.	Brassicaceae	T	CUAD			
706.	*Reichardia picroides* (L.) Roth.	Cichoriaceae	H	CIME			
707.	*Reseda alba* L.	Resedaceae	H	CIME			
708.	*Reseda lutea* L.	Resedaceae	H	WISP		pr	
709.	*Reseda phyteuma* L.	Resedaceae	T	SEME			
710.	*Rhagadiolus stellatus* (L.) Gaertn.	Cichoriaceae	T	CIME			
711.	*Rhamnus alaternus* L.	Rhamnaceae	P	CIME			Pe
712.	*Rhamnus intermedius* Steud. et Hohst.	Rhamnaceae	P	ILAE	end	sp	
713.	*Rhus typhina* L. (=*R. hirta* (L.) Sudw.)	Anacardiaceae	P	CUAD			
714.	*Ricinus communis* L.	Euphorbiaceae	T	CUAD			
715.	*Robinia pseudoacacia* L.	Fabaceae	P	CUAD			Pe
716.	*Romulea bulbocodium* (L.) Sebast. et Mauri	Iridaceae	G	CIME			
717.	*Rosa canina* L.	Rosaceae	P	WISP		pr	

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718.	*Rosa gallica* L.	Rosaceae	P	EUAS		pr	
719.	*Rosa sempervirens* L.	Rosaceae	P	CIME		pr	
720.	*Rosmarinus officinalis* L.	Lamiaceae	P	CUAD			Pe
721.	*Rubia peregrina* L.	Rubiaceae	P	CIME			
722.	*Rubus caesius* L.	Rosaceae	P	EUAS			
723.	*Rubus ulmifolius* Schott.	Rosaceae	P	MEAT			
724.	*Rumex conglomeratus* Murray	Polygonaceae	H	WISP			
725.	*Rumex crispus* L.	Polygonaceae	H	WISP			
726.	*Rumex obtusifolius* L.	Polygonaceae	H	WISP			
727.	*Rumex patientia* L.	Polygonaceae	H	EEUP			
728.	*Rumex pulcher* L. ssp. *woodsii* (De Not.) Arcangeli	Polygonaceae	H	SEPO			
729.	*Ruscus aculeatus* L.	Liliaceae	G	MEPO		pr	Pe
730.	*Ruscus hypoglossum* L.	Liliaceae	G	CUAD		pr	Pe
731.	*Ruta graveolens* L. (incl. *R. divaricata* Ten.)	Rutaceae	Ch	ILAP		pr	
732.	*Saccharum strictum* (Host) Spreng.	Poaceae	H	ILSE		sp	
733.	*Sagina maritima* G.Don	Caryophyllaceae	T	WISP			
734.	*Salicornia europaea* L.	Chenopodiaceae	T	WISP			
735.	*Salix alba* L.	Salicaceae	P	EUAS			Pe
736.	*Salsola kali* L.	Chenopodiaceae	T	WISP	VU	sp	
737.	*Salsola soda* L.	Chenopodiaceae	T	SEPO	VU	sp	
738.	*Salvia coccinea* Buc'hoz ex Etl.*	Lamiaceae	Ch	CUAD			
739.	*Salvia officinalis* L.	Lamiaceae	Ch	EUME			
740.	*Salvia pratensis* L.	Lamiaceae	H	EURO			
741.	*Salvia sclarea* L.	Lamiaceae	H	SEME		pr	
742.	*Salvia verbenaca* L.	Lamiaceae	H	MEAT			
743.	*Sambucus ebulus* L.	Caprifoliaceae	G	EURO			
744.	*Sambucus nigra* L.	Caprifoliaceae	P	CUAD			Pe
745.	*Sanguisorba minor* Scop. ssp. *muricata* Briq.	Rosaceae	H	SEME		pr	
746.	*Saponaria officinalis* L.	Caryophyllaceae	H	CUAD		pr	
747.	*Satureja cuneifolia* Ten.	Lamiaceae	Ch	ILAP			
748.	*Satureja montana* L. ssp. *variegata* (Host) P.W.Ball	Lamiaceae	Ch	MEPO			
749.	*Saxifraga tridactylites* L.	Saxifragaceae	T	WISP			
750.	*Scabiosa columbaria* L.	Dipsacaceae	H	EUAS			
751.	*Scandix australis* L.	Apiaceae	T	CIME			
752.	*Scandix pecten-veneris* L.	Apiaceae	T	WISP			
753.	*Scilla autumnalis* L.	Liliaceae	G	MEPO			
754.	*Scilla bifolia* L.	Liliaceae	G	SEME			
755.	*Scirpus holoschoenus* L.	Cyperaceae	G	CIME		pr	
756.	*Scirpus maritimus* L.	Cyperaceae	G	WISP		pr	
757.	*Scolymus hispanicus* L.	Cichoriaceae	H	CIME			
758.	*Scorpiurus muricatus* L.	Fabaceae	T	CIME			
759.	*Scorzonera villosa* Scop.	Cichoriaceae	H	ILSE			
760.	*Scrophularia canina* L. ssp. *bicolor* (Sibth. et Sm.) Greuter	Scrophulariaceae	H	SEME			
761.	*Scrophularia peregrina* L.	Scrophulariaceae	T	CIME			

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762.	*Securigera cretica* (L.) Lassen	Fabaceae	T	EAME			
763.	*Securigera securidaca* (L.) Degen et Dörfl.	Fabaceae	T	CIME			
764.	*Sedum acre* L.	Crassulaceae	Ch	WISP		pr	
765.	*Sedum dasyphyllum* L.	Crassulaceae	Ch	SEME			
766.	*Sedum ochroleucum* Chaix	Crassulaceae	Ch	SEME			
767.	*Sedum rubens* L.	Crassulaceae	T	SEME			
768.	*Sedum sexangulare* L.	Crassulaceae	Ch	SEME			
769.	*Sedum telephium* L. ssp. *maximum* (L.) Krock.	Crassulaceae	H	EURO		pr	
770.	*Sempervivum tectorum* L.	Crassulaceae	Ch	CUAD		sp	
771.	*Senecio angulatus*	Asteraceae	Ch	CUAD			M2
772.	*Senecio bicolor* (Willd.) Tod. ssp. *cineraria* (DC.) Chater	Asteraceae	Ch	CUAD			
773.	*Senecio vulgaris* L.	Asteraceae	T	WISP			
774.	*Senna obtusifolia* (L.) Irwin & Barneby	Caesalpiniaceae	T	CUAD			M2
775.	*Serapias vomeracea* (Burm.) Briq.	Orchidaceae	G	MEAT	VU	sp	
776.	*Seseli montanum* L. ssp. *tommassinii* (Rchb. F.) Arcang.	Apiaceae	H	ILSE			
777.	*Seseli tomentosum* Vis.	Apiaceae	H	ILAE	end	sp	
778.	*Sesleria autumnalis* (Scop.) F.W. Schultz	Poaceae	H	ILSE			
779.	*Setaria gussonei* Kerguélen	Poaceae	T	WISP			
780.	*Setaria italica* (L.) P.Beauv.	Poaceae	T	CUAD			
781.	*Setaria pumila* (Poir.) Schult.	Poaceae	T	WISP			
782.	*Setaria verticillata* (L.) P.Beauv.	Poaceae	T	WISP			
783.	*Setaria viridis* (L.) P.Beauv.	Poaceae	T	EUAS			
784.	*Sherardia arvensis* L.	Rubiaceae	T	WISP			
785.	*Sida rhombifolia* L.	Malvaceae	P	CUAD			M2
786.	*Sideritis romana* L.	Lamiaceae	T	CIME			
787.	*Silene gallica* L.	Caryophyllaceae	T	WISP			
788.	*Silene latifolia* Poir.	Caryophyllaceae	H	EUAS			
789.	*Silene otites* (L.) Wibel	Caryophyllaceae	H	SEPO			
790.	*Silene paradoxa* L.	Caryophyllaceae	H	SEAT			
791.	*Silene vulgaris* (Moench) Garcke ssp. *angustifolia* Hayek	Caryophyllaceae	H	SEME			
792.	*Sinapis arvensis* L.	Brassicaceae	T	WISP			
793.	*Sisymbrium officinale* (L.) Scop.	Brassicaceae	T	WISP			
794.	*Sixalix atropurpurea* (Forssk.) Greuter et Burdet ssp. *maritima* Greuter et Burdet	Dipsacaceae	H	CIME			
795.	*Smilax aspera* L.	Liliaceae	P	CIME			
796.	*Solanum carolinense* L.	Solanaceae	T	CUAD			
797.	*Solanum chenopodioides* Lam.	Solanaceae	H	CUAD			M2
798.	*Solanum eleagnifolium* Cav.	Solanaceae	H	CUAD			
799.	*Solanum lycopersicum* L.	Solanaceae	T	CUAD			
800.	*Solanum nigrum* L.	Solanaceae	T	WISP		pr	
801.	*Solanum rostratum* Dunal	Solanaceae	T	CUAD			
802.	*Solanum sisymbriifolium* Lam.	Solanaceae	P	CUAD			M2
803.	*Solanum tuberosum* L.	Solanaceae	T	CUAD			

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804.	*Solanum villosum* Mill. ssp. *alatum* (Moench) Dostál	Solanaceae	T	EUAS			
805.	*Sonchus asper* (L.) Hill ssp. *glaucescens* (Jord.) Ball	Cichoriaceae	T	CIME			
806.	*Sonchus oleraceus* L.	Cichoriaceae	T	WISP			
807.	*Sonchus tenerrimus* L.	Cichoriaceae	T	CIME			
808.	*Sophora japonica* L.	Fabaceae	P	CUAD			Pe
809.	*Sorbus domestica* L.	Rosaceae	P	CIME		pr	
810.	*Sorghum halepense* (L.) Pers.	Poaceae	G	WISP			
811.	*Spartium junceum* L.	Fabaceae	P	CIME			
812.	*Spergularia salina* J.Presl et C.Presl	Caryophyllaceae	T	WISP			
813.	*Spiranthes spiralis* (L.) Chevall.	Orchidaceae	G	EURO		sp	
814.	*Stachys annua* (L.) L.	Lamiaceae	T	EURO			
815.	*Stachys cretica* L. ssp. *salvifolia* (Ten.) Rech.f.	Lamiaceae	H	ILAP			
816.	*Stellaria media* (L.) Vill. ssp. *media*	Caryophyllaceae	T	WISP			
817.	*Stellaria pallida* (Dumort) Piré	Caryophyllaceae	T	EUAS			
818.	*Sternbergia lutea* (L.) Ker Gawl. ex Spreng	Amaryllidaceae	G	CUAD		pr	
819.	*Stipa bromoides* (L.) Dörfl.	Poaceae	H	CIME		sp	
820.	*Stipa pennata* L.	Poaceae	H	SEME		sp	
821.	*Suaeda maritima* (L.) Dumort.	Chenopodiaceae	T	WISP	VU	sp	
822.	*Symphytum bulbosum* Schimp.	Boraginaceae	G	BAAP			
823.	*Syringa vulgaris* L.	Oleaceae	P	CUAD			
824.	*Tagetes patula* L.	Asteraceae	T	CUAD			
825.	*Tamus communis* L.	Dioscoreaceae	G	SEME		pr	
826.	*Tanacetum cinerarifolium* (Trevir.) Sch.Bip.	Asteraceae	Ch	ILAE	end	sp	
827.	*Tanacetum parthenium* (L.) Sch.Bip.	Asteraceae	H	CUAD			
828.	*Taraxacum laevigatum* auct. croat.	Cichoriaceae	H	SEME			
829.	*Taraxacum meghalorhizon* (Forssk.) Hand.-Mazz.	Cichoriaceae	H	CIME			
830.	*Taraxacum officinale* Webber	Cichoriaceae	H	WISP			
831.	*Taraxacum palustre* (Lyons) Symons	Cichoriaceae	H	EUAS			
832.	*Teucrium chamaedrys* L.	Lamiaceae	Ch	SEPO		pr	
833.	*Teucrium polium* L.	Lamiaceae	Ch	MEPO			
834.	*Theligonum cynocrambe* L.	Theligonaceae	T	SEME			
835.	*Thesium divaricatum* Jan. ex Mert. et Koch	Santalaceae	H	CIME			
836.	*Thlaspi perfoliatum* L.	Brassicaceae	T	EUAS			
837.	*Thlaspi praecox* Wulfen	Brassicaceae	H	ILSE			
838.	*Thymus longicaulis* C.Presl	Lamiaceae	Ch	ILAP		pr	
839.	*Tordylium apulum* L.	Apiaceae	T	CIME			
840.	*Tordylium officinale* L.	Apiaceae	T	EAME			
841.	*Torilis arvensis* (Huds.) Link ssp. *arvensis*	Apiaceae	T	EURO			
842.	*Torilis arvensis*(Huds.) Link ssp. *purpurea* (Ten.) Hayek	Apiaceae	T	CIME			
843.	*Torilis nodosa* (L.) Gaertn.	Apiaceae	T	MEAT			
844.	*Trachycarpus fortunei* (Hook.) H. Wendl.*	Arecaceae	P	CUAD			Pe; as *T. excelsus* Wendl.

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845.	*Tradescantia blossfeldiana* Mildbr.**	Commelinaceae	G	CUAD			
846.	*Tradescantia fluminensis* Velloso	Commelinaceae	G	CUAD			
847.	*Tradescantia pallida* (Rose) D. R. Hunt*	Commelinaceae	G	CUAD			
848.	*Tradescantia sillamontana* Matuda **	Commelinaceae	G	CUAD			
849.	*Tragopogon dubius* Scop.	Cichoriaceae	H	SEPO			
850.	*Tragopogon porrifolius* L.	Cichoriaceae	H	CIME			
851.	*Tragopogon pratensis* L. ssp. *pratensis*	Cichoriaceae	H	EUAS			
852.	*Tragus racemosus* (L.) All.	Poaceae	T	SEME			
853.	*Tribulus terrestris* L.	Zygophyllaceae	T	SEME			
854.	*Trifolium angustifolium* L.	Fabaceae	T	CIME			
855.	*Trifolium arvense* L.	Fabaceae	T	EUAS			
856.	*Trifolium campestre* Schreber	Fabaceae	T	WISP			
857.	*Trifolium cherleri* L.	Fabaceae	T	SEME			
858.	*Trifolium echinatum* M.Bieb.	Fabaceae	T	SEEU		sp	
859.	*Trifolium fragiferum* L.	Fabaceae	H	WISP			
860.	*Trifolium incarnatum* L.	Fabaceae	T	MEAT			
861.	*Trifolium lappaceum* L.	Fabaceae	T	CIME			
862.	*Trifolium nigrescens* Viv.	Fabaceae	T	CIME			
863.	*Trifolium patens* Schreb.	Fabaceae	T	SECO			
864.	*Trifolium pratense* L. ssp. *pratense*	Fabaceae	H	EUAS			
865.	*Trifolium repens* L. ssp. *prostratum* Nyman	Fabaceae	H	CIME			
866.	*Trifolium repens* L. ssp. *repens*	Fabaceae	H	WISP			
867.	*Trifolium resupinatum* L.	Fabaceae	T	MEPO	VU	sp	
868.	*Trifolium scabrum* L.	Fabaceae	T	CIME			
869.	*Trifolium stellatum* L.	Fabaceae	T	CIME			
870.	*Trifolium striatum* L. ssp. *tenuiflorum* (Ten.) Arcang.	Fabaceae	T	EUAS	end	sp	
871.	*Trifolium subterraneum* L.	Fabaceae	T	MEAT			
872.	*Trigonella esculenta* Willd.	Fabaceae	T	CIME			
873.	*Trigonella gladiata* M.Bieb.	Fabaceae	T	CIME			
874.	*Trigonella monspeliaca* L.	Fabaceae	T	MEPO			
875.	*Tropaeolum majus* L.	Tropaeolaceae	T	CUAD			
876.	*Typha angustifolia* L.	Typhaceae	G	WISP		pr	
877.	*Tyrimnus leucographus* (L.) Cass.	Asteraceae	T	EUME			
878.	*Ulmus minor* Miller (=*U. campestris* auct. non. L.)	Ulmaceae	P	WISP			Pe; as *U. carpinifolia* Gled.
879.	*Ulmus pinnato-ramosa* Dieck ex Koehne	Ulmaceae	P	CUAD			Tr
880.	*Urospermum picroides* (L.) Scop. ex F.W.Schmidt	Cichoriaceae	T	CIME			
881.	*Urtica dioica* L.	Urticaceae	H	WISP			
882.	*Urtica urens* L.	Urticaceae	T	WISP		pr	
883.	*Valantia muralis* L.	Rubiaceae	T	CIME			
884.	*Valerianella dentata* (L.) Pollich	Valerianaceae	T	SEME			
885.	*Valerianella eriocarpa* Desv.	Valerianaceae	T	SEME			
886.	*Valerianella locusta* (L.) Laterrade	Valerianaceae	T	CIME		pr	

No. of taxa	Taxa	Family	Life-form	Chorological group	Endemic & Threatened taxa	Protected taxa	Author of previously registered taxa
887.	*Valerianella muricata* (Stiven ex M.Bieb.) J.W.Loudon	Valerianaceae	T	CIME			
888.	*Valerianella rimosa* Bastard	Valerianaceae	T	SEME			
889.	*Verbascum blattaria* L.	Scrophulariaceae	H	SEPO		pr	
890.	*Verbascum pulverulentum* Vill.	Scrophulariaceae	H	SEAT		pr	
891.	*Verbascum sinuatum* L.	Scrophulariaceae	H	CIME		pr	
892.	*Verbena officinalis* L.	Verbenaceae	H	WISP			
893.	*Veronica arvensis* L.	Scrophulariaceae	T	EUAS			
894.	*Veronica austriaca* L. ssp. *jacquini* (Baumg.) Eb.Fisch.	Scrophulariaceae	H	EEUP			
895.	*Veronica beccabunga* L.	Scrophulariaceae	H	CIHO		pr	
896.	*Veronica cymbalaria* Bodard	Scrophulariaceae	T	SEME			
897.	*Veronica hederifolia* L.	Scrophulariaceae	T	EUAS			
898.	*Veronica persica* Poir.	Scrophulariaceae	T	WISP			
899.	*Veronica polita* Fr.	Scrophulariaceae	T	EUAS			
900.	*Veronica triloba* Opiz.	Scrophulariaceae	T	EAME			
901.	*Viburnum tinus* L.	Caprifoliaceae	P	CIME			Pe
902.	*Vicia angustifolia* L. ssp. *angustifolia*	Fabaceae	T	EURO			
903.	*Vicia faba* L.	Fabaceae	T	CUAD			
904.	*Vicia grandiflora* Scop.	Fabaceae	H	EEUP			
905.	*Vicia hybrida* L.	Fabaceae	T	CIME			
906.	*Vicia lutea* L.	Fabaceae	T	CIME			
907.	*Vicia narbonensis* L.	Fabaceae	T	CIME			
908.	*Vicia parviflora* Cav.	Fabaceae	T	CIME			
909.	*Vicia villosa* Roth. ssp. *varia* (Host) Corb.	Fabaceae	T	EEUP			
910.	*Vinca major* L.	Apocynaceae	Ch	CUAD			
911.	*Vincetoxicum hirundinaria* Medik ssp. *adriaticum* (Beck) Markgr.	Asclepiadaceae	H	ILAE	end	sp	
912.	*Viola arvensis* Murray	Violaceae	T	WISP		pr	
913.	*Viola odorata* L.	Violaceae	T	WISP		pr	
914.	*Viola suavis* M.Bieb.	Violaceae	H	SEME			
915.	*Viola tricolor* L.	Violaceae	T	CUAD		pr	
916.	*Viola x witrockiana* Gams ex Kappert	Violaceae	T	CUAD			
917.	*Vitex agnus-castus* L.	Verbenaceae	P	CIME		pr	
918.	*Vitis vinifera* L. ssp. *vinifera*	Vitaceae	P	CUAD			
919.	*Vulpia ciliata* Dumort.	Poaceae	T	SEME			
920.	*Vulpia fasciculata* (Forssk.) Samp.	Poaceae	T	MEAT		pr	
921.	*Vulpia myuros* (L.) C.C.Gmel.	Poaceae	T	WISP			
922.	*Wisteria sinensis* (Sims) Sweet	Fabaceae	P	CUAD			Pe
923.	*Xanthium spinosum* L.	Asteraceae	T	WISP			Pa
924.	*Xanthium strumarium* L. ssp. *italicum* (Moretti) D.Löve	Asteraceae	T	WISP			
925.	*Yucca gloriosa* L.	Agavaceae	P	CUAD			Pe; as *Y. recurvifolia*
926.	*Zea mays* L.	Poaceae	T	CUAD			