

Comparative Analysis of the Alien Vascular Flora of Sardinia and Corsica

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Abstract

This article provides a comparison of the vascular alien flora of Sardinia (Italy) and that of Corsica (France), both territories belonging to the Western Mediterranean biogeographic subregion. The study has recorded 598 (90 doubtful) alien *taxa* in Sardinia (18% of the total flora) while 553 (87 doubtful) in Corsica (17%); six are new report to Sardinia and 27 to Corsica. A total of 234 *taxa* are common to both islands. Neophytes are 344 *taxa* (68% of the total) in Sardinia and 399 *taxa* (73%) in Corsica. The invasive component includes 64 *taxa* in Sardinia (13% of the alien flora) and 99 *taxa* (21%) in Corsica, 33 of them common to both territories. The total 740 alien *taxa* of Sardinia and Corsica are included in 93 families; being *Fabaceae* the richest. The comparison of the biological spectrum reveals that phanerophytes (202 *taxa*, 40%) are the most represented in Sardinia and therophytes (149 *taxa*, 32%) in Corsica. A study of the geographical origin shows supremacy of the American element in Sardinia (170 *taxa*, 34%) and in Corsica (136 *taxa*, 29%). The majority of *taxa* arrived as a result of intentional human introductions, mainly for ornamental use (247 *taxa*, 49% in Sardinia; 208 *taxa*, 45% in Corsica). Semi-natural, agricultural and synanthropic are the most occupied habitats. These data show the need for joint action to stem the increasingly worrying phenomenon of the alien flora in order to reduce the negative effects on natural habitats and native flora.

Keywords: alien vascular flora, conservation, invasions, Mediterranean Basin, Tyrrhenian islands

Introduction

Alien plant species, especially in their invasive and naturalized component, are considered one of the major threats to the conservation of endangered plant species and habitats (Mack *et al.*, 2000; Genovesi and Shine, 2004; Millennium Ecosystem Assessment, 2005; Lambdon *et al.*, 2008). There are many ways alien plants can directly and indirectly menace the preservation of native flora. As regards, among other effects on biodiversity, it is reported that they can change ecosystems through the alteration of soil stability, the promotion of erosion, being vector of parasites and diseases, the colonization of free spaces, the exploitation of natural resources, the accumulation of litter,

the promotion or suppression of fire and, together with the more or less massive human intervention, the homogenization of the floras (Vitousek, 1990; Richardson *et al.*, 2000; Winter *et al.*, 2009).

Regarding the severe degree of the impact of alien plants on island ecosystems compared to mainland, different points of view have been developed so far. In fact, if on the one hand there is who sustains that island ecosystems, and especially those of the Mediterranean Basin, are more susceptible to alien plant invasions (Sala *et al.*, 2000; Sax and Gaines, 2008), on the other hand more recent doubts have been expressed concerning the different impact that plant invasions could actually have on the native floras of mainland respect to islands (Vilà *et al.*, 2011).

Notwithstanding, islands usually harbour very particular floras, due to their geographical isolation, by the presence of a high number of endemics that deserve absolute protection from the various menaces that threaten the integrity of their populations up to the survival of the species (Fenu *et al.*, 2014; Thompson, 2005).

Sardinia (Italy) and Corsica (France) are two important centres of plant biodiversity belonging to the Tyrrhenian Islands hotspot (Cañadas *et al.*, 2014; Médail and Quézel, 1997, 1999; Médail and Diadema, 2009; Zachos and Habel, 2011).

With regard to the latest checklist updates, the Sardinian flora included 2494 *taxa* (Conti *et al.*, 2005, 2007) of which 347 are endemics (Bacchetta *et al.*, 2005), while Corsica, though being pretty smaller, harbours a flora of 2680 *taxa*, with an endemic component of 284 *taxa* (Jeanmonod *et al.*, 2015). The high percentages of endemics, many of them being strictly exclusive to Sardinia and/or Corsica, meet the also relatively high amount of alien plant species of the floras of the two islands: according to the last report made by Podda *et al.* (2012), the alien component for Sardinia reached the amount of 541, of which 58 are invasive, while in the latest study of the Corsican alien flora carried out by Jeanmonod *et al.* (2011, 2015) non-native component accounted 443 *taxa*, of which 31 are invasive or potentially invasive.

Unfortunately, it cannot be omitted that both in Sardinia and Corsica many fragile habitats and some endangered and endemic *taxa* are at risk of disappearance (Bacchetta *et al.*, 2012; Cañadas *et al.*, 2014). It is also noteworthy that the two islands are major touristic destinations in the Mediterranean, especially concerning beach tourism thus entailing an exceptional land use in coastal areas that, together with other natural and semi-natural habitats, are also constantly threatened by other menaces such as recurring fires, exaggerated herbivorism, overexploitation of natural resources, increasing urbanization and the subsequent land degradation (Vacca *et al.*, 2002; Delbosc, 2015).

In a context of an increasing menace by the continuous rising percentages of alien plant *taxa*, an update of the checklist of the alien vascular flora and the analysis of its components is useful to get a snapshot of the current composition of the non-native components. Moreover, the comparison of the invasive alien floras of two biogeographically related areas such as the islands of Sardinia and Corsica – especially in the framework of a broad survey on the alien plants distribution in islands of the Mediterranean Basin – can provide an insight of which are the processes that act as primary drivers of the introduction and the subsequent invasion of alien plants in Mediterranean insular habitats.

In this paper, the results of the comparison between the alien floras of Sardinia and Corsica are reported, as inferred from field investigations and from the latest literature. Special care has been put into the analysis of the chorology, the life form, the type (if neophyte or archaeophyte), the diffusion (if invasive, naturalized or casual), the pathway of introduction and the most affected habitats in relation to the two alien floras.

Materials and Methods

The basis of the current comparative analysis is the latest update of the Sardinian alien flora checklist (Podda *et al.*, 2012) and the recent revisions of the “Catalogue des Tracheophytes de Corse” (CBNC, 2014). The two checklists have been subjected to revision and updated based on field investigations, literature and herbarium data. Those *taxa* that had been recorded in the past and for which there is no certainty concerning their actual presence in the studied areas, were considered of doubtful presence and marked by the letter D.

Plant *taxa* have been classified as archaeophytes or neophytes on the basis of their introduction before or after 1492/1500 A.D., respectively. Concerning the *taxa* for which doubts still persist, regarding their status (alien or native), we have preferred the attribution of doubtful alien (Da).

The status of invasiveness has followed that proposed by Richardson *et al.* (2000) and subsequently elaborated and reviewed by Pyšek *et al.* (2004) and Richardson *et al.* (2011).

In particular, Sardinian *taxa* have been attributed to the classes of invasive, naturalized and casual plants on the basis of the current literature as well as on field observations, while for Corsican *taxa* we mainly followed what was reported by the Conservatoire Botanique National de Corse (2014) with minor modifications together with what was observed during field investigations.

From a nomenclatural point of view and for the attribution of the *taxa* to the plant families we have followed the on-line databases of The Plant List website (2016) and that of the Med-Checklist website (Euro+Med, 2006-onwards).

Plant families have been validated according to what is reported in the Angiosperm Phylogeny Group III (Chase and Reveal, 2009; Stevens, 2001-onwards) and in the works of Christenhusz *et al.* (2011a, 2011b). Moreover, when available, dedicated taxonomic revisions have been taken into account.

Regarding biological forms, Raunkiaer life form classification (Raunkiaer, 1934) was followed, with the variations and abbreviations used by Pignatti (1982), while geographic origin was based on what was basically reported by Podda *et al.* (2012) and by Jeanmonod and Garnisans (2013).

The way of introduction of the alien *taxa*, when known, was first defined as intentional or unintentional, according to the definitions proposed by the Convention on Biological Diversity (CBD) (Miller *et al.*, 2006). Regarding introduction pathways, the categories proposed by Sanz-Elorza *et al.* (2004) and Hulme *et al.* (2008), already adopted by Podda *et al.*, (2012), have been followed: (1) ornamental; (2) agriculture; (3) forestry; (4) seed contaminants; (5) hitchhikers.

Each *taxon* has been linked to the habitat where it mostly shows its invasiveness and then ordered in the following seven categories as already proposed by Podda *et al.*, (2012): (1) agricultural; (2) synanthropic; (3) coastal; (4) matorral; (5) woodland; (6) riparian; (7) wetland.

The *taxa* that are known to be cultivated for ornamental or forestry purposes and that do not show any degree of spontaneization have not been taken into account in the present work.

Calculations have been made excluding those *taxa* from the category of doubtful species in relation to their actual presence in the studied area (D) or to their alien or native status (Da).

In order to study differences among the alien floras of Sardinia and Corsica the non-parametric U test Mann-Whitney was applied using version 16 (Minitab Inc.) of MINITAB®.

Results

The total alien flora of the two territories includes 740 *taxa*. Sardinian alien flora in total is composed of 598 *taxa*, representing the 18% of the whole Sardinian vascular flora. An increase of 61 *taxa* has been registered in comparison to the last update (Podda et al., 2012). Corsican alien flora is composed of 553 *taxa*, representing the 17% of the whole Corsican flora. An increase of 40 *taxa* has been registered in comparison to the last update (Jeanmonod and Gamisans, 2013) (Annex 1).

Considering the previous known data, six new alien *taxa* have been found in the island of Sardinia (Table 1).

Regarding the island of Corsica, 27 new alien *taxa* are reported (Table 2).

The proportion of doubtful entities in Sardinia in relation to the total alien *taxa* (598) is of around a 15%, from which 23

taxa are considered of doubtful presence (“D”), 62 are in doubt in relation to their alien or native status (“Da”) and five are both “D” and “Da”.

Regarding Corsica, from the 553 alien *taxa*, 31 are considered of doubtful presence (“D”), 47 of doubtful alien origin (“Da”) and nine both “D” and “Da”.

Of the 508 remaining alien *taxa* (without considering “D” and “Da” entities) in Sardinia, 164 are archaeophytes (32%) and 344 neophytes (68%) while Corsican alien flora includes 466 *taxa*, of which 127 are archaeophytes (27%) and 339 neophytes (73%) (Fig. 1).

The number of invasive neophytes is 60 (12%) and 96 (20%) for Sardinia and Corsica respectively. The amount of other neophytes (naturalized and casual) is of 101 and 183 respectively (20% and 36%) for Sardinia and 85 and 158 respectively (18% and 34%) for Corsica. Regarding archaeophytes, only a small percentage is invasive (1%), both for Sardinia and Corsica, while for those naturalized and casual it is higher (13% and 18% Sardinia; 7% and 20% Corsica) (Fig. 1). The Mann-Whitney test confirmed no significant differences between the medians of the samples considered ($U = 4, p = 0.8852$).

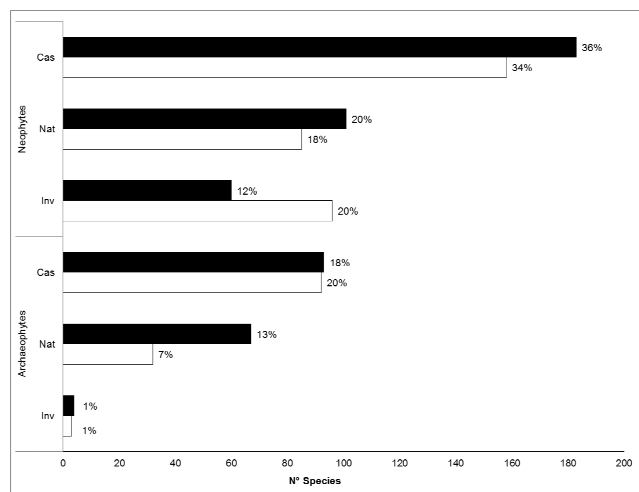


Fig. 1. Numerical and percentage comparison of invasive (Inv), naturalized (Nat) and casual species (Cas), distinguishing archaeophytes and neophytes from the total alien flora in Sardinia (black) and the Corsica (white)

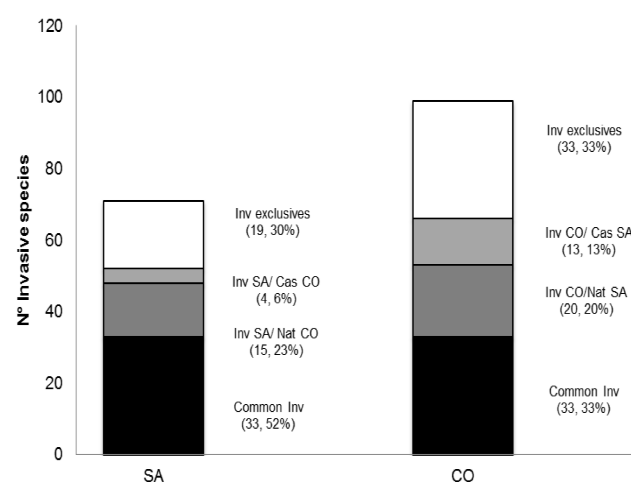


Fig. 2. Comparison of each type of alien plants in Sardinia and Corsica (Inv= invasive; Nat= naturalized; Cas= casual). Percentages consider the total alien flora

Table 1. New *taxa* for the Sardinian alien flora

No	Taxa	Site/Location (place name, municipality, province)	Coord. Geogr. (datum WGS 84)	Elevation (m)	Habitat	Thermotype and ombrotype
1	<i>Aucuba japonica</i> Thunb.	Cagliari (CA)	39°12'46.59"N 9° 6'53.73"E	6	Synanthropic	Thermomedit. sup. Dry inf.
2	<i>Cedrus deodara</i> (Roxb. ex Lamb.) G. Don.	Sos Nibberos, Bono (SS)	40°25'21.82"N 8°59'28.48"E	1004	Woodland	Supratemp. Inf. Humid sup.
3	<i>Opuntia microdasys</i> (Lehm.) Pfeiff. subsp. <i>microdasys</i>	Elmas (CA)	39°14'33.81"N 9° 5'7.83"E	8	Synanthropic	Thermomedit. sup. Dry inf.
4	<i>Proboscidea louisianica</i> (Mill.) Thell.	Assemmini (CA)	39°17'54.80"N 9° 0'4.34"E	11	Synanthropic	Thermomedit. sup. Dry inf.
5	<i>Prunus mahaleb</i> L.	Vivaio forestale, Talana (OG)	40° 3'43.99"N 9°27'32.19"E	1094	Woodland	Supramedit. Inf. Humid inf.
6	<i>Sedum palmeri</i> S. Watson.	Cagliari (CA)	39°13'9.89"N 9° 6'59.39"E	95	Synanthropic	Thermomedit. sup. Dry inf.

Table 2. New *taxa* for the Corsican alien flora

No	Taxa	Site/Location (place name, municipality, province)	Coord. Geogr. (datum WGS 84)	Elevation (m)	Habitat	Thermotype and ombrotype
1	<i>Acacia longifolia</i> (Andrews) Willd.	San-Giuliano	42°17' 22.632" N 9°33' 22.5"E	7	Coastal	Mésomedit. Inf. Dry sup.
2	<i>Acacia retinoides</i> Schlcht.	Bonifacio	41° 25' 22.404" N 9° 13' 31.584" E	2	Coastal	Thermomedit. Dry sup.
3	<i>Actinidia deliciosa</i> (A. Chev.) C.F. Liang & A.R. Ferguson	Poggio-Mezzana	42° 23' 51.72" N 9° 29' 40.307" E	55	Agricultural	Mésomedit. Inf. Dry sup.
4	<i>Albizia julibrissin</i> Durazz.	Conca	41° 44' 42.792" N 9° 24' 22.680" E	25	Synanthropic	Thermomedit. Dry sup.
5	<i>Adonis annua</i> L. subsp. <i>cupaniana</i> (Guss.) C. Steinb.	Bonifacio	41° 24' 2.124" N 9° 12' 7.344" E	55	Agricultural	Mésomedit. Inf. Dry sup.
6	<i>Agrostemma githago</i> L.	Bonifacio	41° 23' 58.236" N 9° 12' 48.852" E	30	Agricultural	Mésomedit. Inf. Dry sup.
7	<i>Amaranthus blitum</i> L. subsp. <i>blitum</i>	Figari	41° 29' 35.59" N 9° 5' 22.344" E	5	Agricultural	Mésomedit. Inf. Dry sup.
8	<i>Anthemis cretica</i> L.	Giuncaggio	42° 11' 5.964" N 9° 22' 8.472" E	120	Synanthropic	Mésomedit. Inf. Dry sup.
9	<i>Antirrhinum latifolium</i> L.	Grosseto-Prugna	41° 54' 16.20" N 8° 48' 8.28" E	10	Synanthropic	Mésomedit. Inf. Dry sup.
10	<i>Brassica rapa</i> L. s.l.	Biguglia	42° 37' 37.92" N 9° 25' 14.628" E	15	Agricultural	Mésomedit. Inf. Dry sup.
11	<i>Cota tinctoria</i> (L.) J. Gay	Tralonca	42° 20' 37.32" N 9° 12' 36.467" E	810	Synanthropic	Mésomedit. Sup. Dry sup.
12	<i>Cynosurus echinatus</i> L. var. <i>giganteus</i> Salis	Borgo	42° 35' 56.11" N 9° 28' 48.396" E	4	Agricultural	Mésomedit. Inf. Dry sup.
13	<i>Ligustrum lucidum</i> W.T. Aiton	Peri	42° 0' 10.33" N 8° 53' 22.52" E	160	Synanthropic	Mésomedit. Inf. Dry inf.
14	<i>Lycium barbarum</i> L.	Cargèse	42° 10' 15.56" N 8° 35' 31.81" E	3	Synanthropic	Thermomedit. Dry sup.
15	<i>Malephora crocea</i> Schwantes var. <i>purpureo-crocea</i> (Haw.) H. Jacobsen & Schwantes	Calvi	42° 34' 56.64" N 8° 43' 31.54" E	40	Coastal	Mésomedit. Inf. Dry sup.
16	<i>Picris hieracioides</i> L. subsp. <i>hieracioides</i>	Valle-di-Rostino	42° 28' 11.68" N 9° 15' 1.367" E	175	Synanthropic	Mésomedit. Inf. Dry sup.
17	<i>Pistia stratiotes</i> L.	Ajaccio	41° 54' 29.9" N 8° 47' 52.29" E	2	Wetland	Mésomedit. Inf. Dry sup.
18	<i>Reynoutria</i> × <i>bohémica</i> Chrtek & Chrtkova	Cargèse	42° 8' 2.004" N 8° 35' 46.14" E	60	Synanthropic	Thermomedit. Dry sup.
19	<i>Setaria verticillata</i> (L.) P. Beauv.	Penta-di- Casinca	42° 26' 32.17" N 9° 31' 19.67" E	5	Synanthropic	Mésomedit. Inf. Dry sup.
20	<i>Setaria verticillata</i> var. <i>ambigua</i> (Guss.) Parl.	Calvi	42° 33' 19.33" N 8° 47' 20.47" E	8	Synanthropic	Mésomedit. Inf. Dry sup.
21	<i>Tragopogon porrifolius</i> subsp. <i>eriospermus</i> (Ten.) Greuter	Porto-Vecchio	41° 35' 28.68" N 9° 16' 49.19" E	60	Synanthropic	Mésomedit. Inf. Dry sup.
22	<i>Ulex europaeus</i> L.	Corbara	42° 36' 55.80" N 8° 54' 27.83" E	290	Matorrals	Mésomedit. Inf. Dry sup.
23	<i>Vachellia farnesiana</i> (L.) Wight & Arn.	Ajaccio	41° 54' 29.10" N 8° 41' 1.10" E	5	Synanthropic	Thermomedit. Dry sup.
24	<i>Washingtonia robusta</i> H. Wendl.	Ajaccio	41° 55' 1.56" N 8° 44' 2.51" E	40	Synanthropic	Thermomedit. Dry sup.
25	<i>Wisteria sinensis</i> (Sims) Sweet	Calvi	42° 34' 7.32" N 8° 45' 39.71" E	15	Synanthropic	Mésomedit. Inf. Dry sup.
26	<i>Yucca filamentosa</i> L.	Penta-di- Casinca	42° 26' 59.57" N 9° 32' 30.08" E	3	Coastal	Mésomedit. Inf. Dry sup.
27	<i>Yucca gloriosa</i> L.	Monticello	42° 38' 8.34" N 8° 57' 59.65" E	10	Coastal	Mésomedit. Inf. Dry sup.

A total of 234 *taxa* are common to Sardinia and Corsica, from which the 33% are naturalized, the 45% casual and the 22% invasive in Sardinia, while in Corsica the 24% are naturalized, the 48% casual and the 28% invasive (Table 3). The Mann-Whitney test confirmed no significant differences between the medians of the samples considered ($U = 3, p =$

1,0000) for section "Total" and for the section "In common".

Invasive *taxa* common to both territories are 33. Regarding the other invasive *taxa*, 19 are exclusive to Sardinia and 33 to Corsica. The number of *taxa* behaving as invasive in Sardinia and naturalized in Corsica is 15, while 20 are invasive in Corsica and naturalized in Sardinia (Fig. 2). Regarding the

Table 3. Comparison of the number of common alien taxa of Sardinia and Corsica

Status of invasivity	Total		In common	
	Sardinia	Corsica	Sardinia	Corsica
Naturalized	168	117	77	55
Casual	276	250	105	113
Invasive	64	99	52	66
Total	508	466	234	234

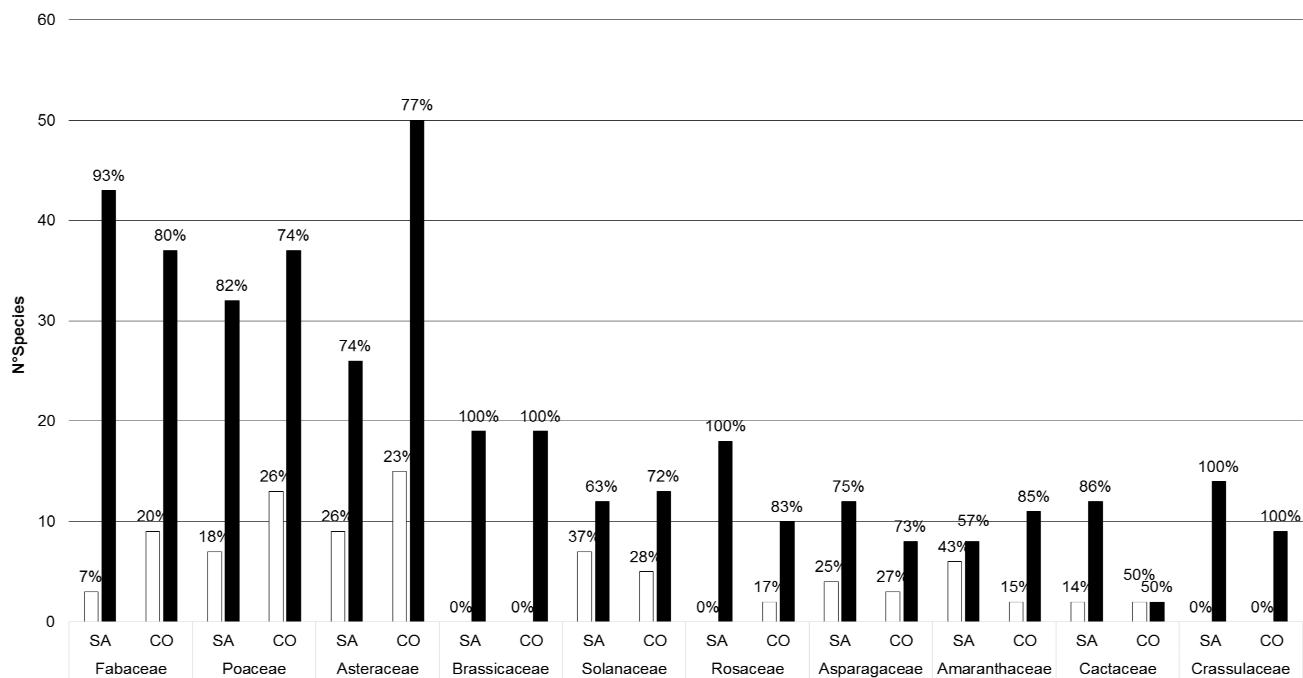


Fig. 3. Comparison of the number of invasive species (white) and naturalized plus casual (black) for each family in Sardinia and in Corsica

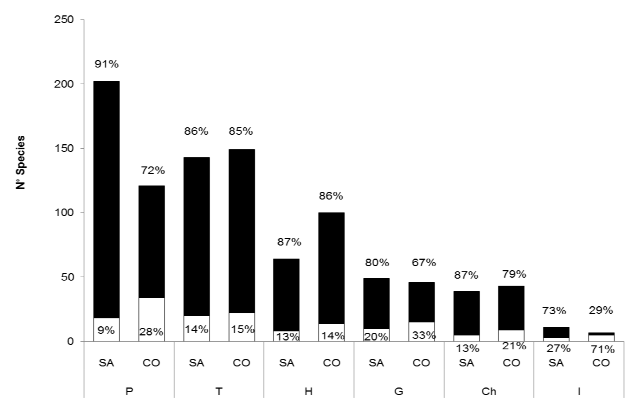


Fig. 4. Comparison of the life forms of invasive (white) alien flora and other (black) alien species (naturalized and casual) in Sardinia and Corsica. Note: T: therophytes, P: phanerophytes, H: hemicryptophytes, Ch: chamaephytes, G: geophytes, I: hydrophytes

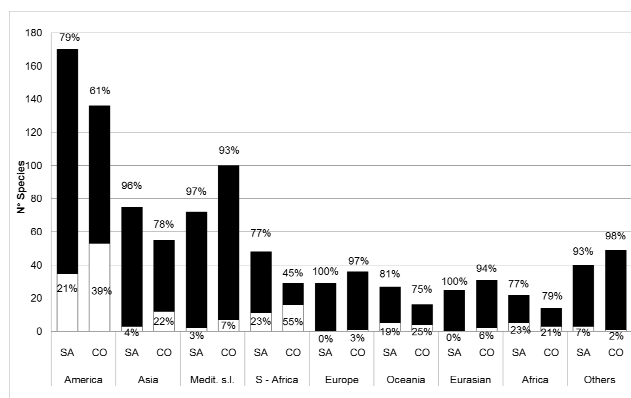


Fig. 5. Comparison of the geographical origin of invasive (white) alien flora and other (black) alien taxa (naturalized and casual) in Sardinia and Corsica

status, the Mann-Whitney test showed no significant differences between the medians of the samples considered ($U = 4, p = 1,0000$).

The alien flora of Sardinia includes 93 families; *Fabaceae* is the richest one (46 taxa), followed by *Poaceae* (39), *Asteraceae* (35), *Brassicaceae* and *Solanaceae* (both 19). Corsican alien flora

also includes 93 families, among which the most represented are *Asteraceae* (65), *Poaceae* (50), *Fabaceae* (46), *Brassicaceae* (19) and *Solanaceae* (18) (Fig. 3). The Mann-Whitney test showed no significant differences between the medians of the different families of the samples considered ($U = 14, p = 0,6959$).

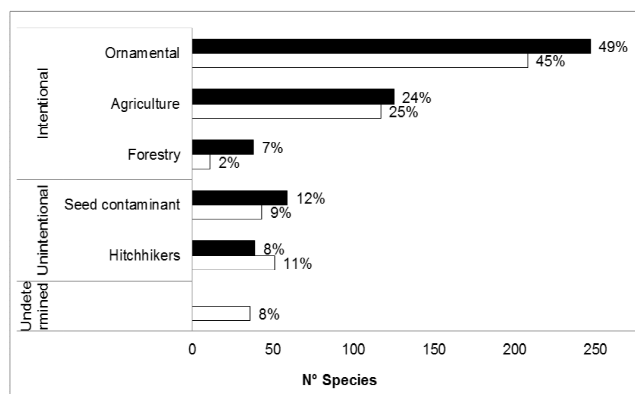


Fig. 6. Comparison of different introduction pathways of alien flora in Sardinia (black) and Corsica (white)

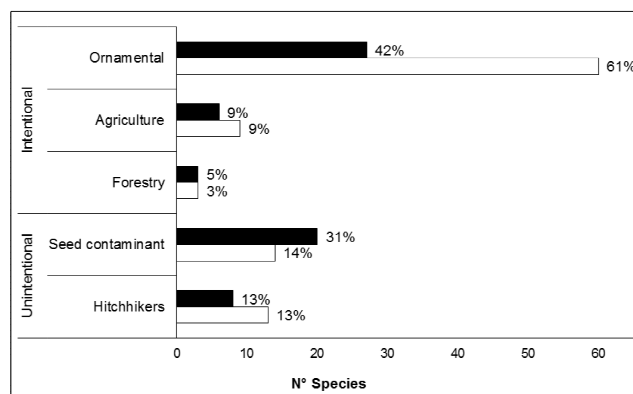


Fig. 7. Comparison of different introduction pathways of invasive species in Sardinia (black) and Corsica (white)

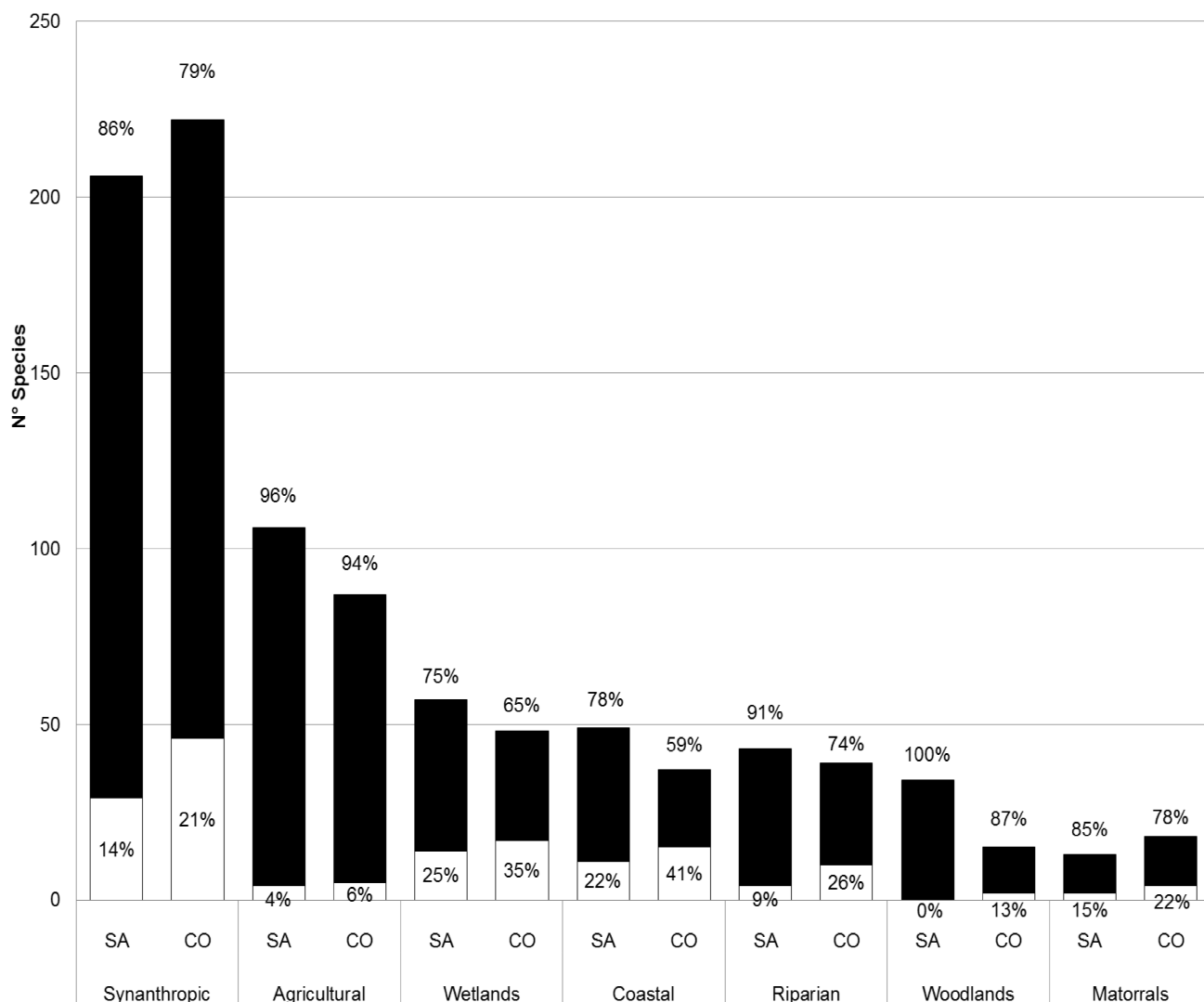


Fig. 8. Comparison of habitats affected by invasive (white) alien taxa and other (black) alien plants (naturalized and casual) in Sardinia and Corsica

Concerning invasive taxa, the most represented families in Sardinia and Corsica are *Asteraceae* (9 and 15 taxa respectively), *Poaceae* (7 and 13 taxa), *Solanaceae* (7 and 5 taxa) and *Fabaceae* (3 and 9 taxa) (Fig. 3). In this case the Mann-Whitney test also showed no significant differences between the medians of the different families of the samples considered

($U = 14, p = 0,5938$).

Considering life forms, Sardinian alien flora shows a net preponderance of phanerophytes (202 taxa, 40%) and therophytes (143 taxa, 28%), while minor contributions come from hemicryptophytes, geophytes and chamaephytes (Fig. 4). In Corsica alien therophytes, phanerophytes and

hemicryptophytes compose the major group being represented by 149 (32%), 121 (26%) and 100 (21%) *taxa* respectively, followed by geophytes and chamaephytes. The Mann-Whitney test showed no significant differences between the medians of the samples considered ($U = 6, p = 1,0000$).

The analysis of the invasive component of Sardinia shows that therophytes and phanerophytes are again the most abundant life forms with 20 (31%) and 18 *taxa* (28%) respectively followed by a substantial contribution of geophytes. Among the invasive alien plants of Corsica phanerophytes constitute the relative majority with 34 *taxa* (35%) against therophytes (22 *taxa*, 22%), while the other life forms provide minor contributions. Both in Sardinia and Corsica hydrophytes are poorly represented (Fig. 4). The Mann-Whitney test showed no significant differences between the medians of the samples considered ($U = 6, p = 0,9362$).

Regarding the geographical origin, the major source of alien *taxa* for Sardinia is represented by the American component (170 *taxa*, 34%), followed by the Asian (75 *taxa*, 15%) and the Mediterranean *sensu lato* (72 *taxa*, 14%). For Corsica, the American origin also makes far the largest group with 136 *taxa* (29%) while other important contributions are provided by the Mediterranean *sensu lato* plants (100 *taxa*, 22%) and the Asian (55 *taxa*, 12%) (Fig. 5). The Mann-Whitney test confirmed no significant differences between the medians of the samples considered ($U = 9, p = 1,0000$).

Invasive units of the Sardinian alien flora are mostly of American (35 *taxa*, 55%) and South African origin (11 *taxa*, 17%). With regard to the invasive flora from Corsica, the most represented element is also the American (53 *taxa*, 53%), followed by the South African (16 *taxa*, 16%) (Fig. 5). Mann-Whitney test confirmed no significant differences between the medians of the samples considered ($U = 9, p = 0,8595$).

Concerning the ways of introduction, *taxa* that are cultivated as ornamental are far the most frequent in the Sardinian alien flora, counting 247 entities (49%), followed by crops, with 125 *taxa* (24%), while seed contaminant *taxa* account for up to 59 (12%), hitchhikers 39 (8%) and forestry 38 (7%) (Fig. 6). As far as Sardinian invasive *taxa* are concerned, ornamental units still represent the most numerous group with 27 *taxa* (42%), while there is a net decrease of the crops and an increase of the seed contaminants and of hitchhikers (Fig. 7). In Corsica the ornamental and agricultural paths are also the ways of introduction that provide more than half of the whole alien flora [208 (45%) and 117 *taxa* (25%) respectively], while similar and much more modest contributions come from hitchhikers and seed contaminant *taxa* and a very low quota of *taxa* introduced for forestry (Fig. 6). When only taking the invasive units into account, the ornamental component in Corsica is represented by 60 *taxa* (61%), followed by seed contaminants (14 *taxa*, 14%) and by hitchhikers (13 *taxa*, 13%) (Fig. 7).

For the situation of alien *taxa* in general and in the specific case of invasive units, the Mann-Whitney test confirmed no significant differences between the medians of the samples considered ($U = 6, p = 0,8102$) and ($U = 5, p = 1,0000$) respectively.

The analysis of the habitats occupied by alien *taxa* in Sardinia shows that synanthropic environments are those where alien units are found more frequently (206 *taxa*, 40%),

followed by agricultural habitats with 106 *taxa* (21%), while the remaining ones provide minor and nearly comparable contributions, with the exception of *matorrals*, that account for only 13 *taxa* (3%). In Sardinia invasive *taxa* tend to invade mostly synanthropic habitats (29 *taxa*, 45%) and at a lesser extent wetlands and coastal habitats. A similar situation is seen in Corsica, where the habitats that aliens tend to occupy are commonly synanthropic (222 *taxa*, 48%), followed by agricultural lands (87 *taxa*, 19%). These data are coincident with the highest number of invasive *taxa* in Corsica, that occur in synanthropic habitats (46 *taxa*, 46%). By contrast, important differences regarding agricultural habitats are found, when comparing alien and invasive Corsican flora, with a decrease to 14% (5 *taxa*). Important differences are also found in wetlands and coasts, where invasive units nearly double their percentage (17 *taxa* (17%) and 15 *taxa* (15%) respectively) (Fig. 8). The Mann-Whitney test confirmed no significant differences between the medians of the samples considered ($U = 7, p = 0,7983$) and ($U = 7, p = 1,0000$) for the general and only invasive cases respectively.

Discussion

The alien vascular flora of Sardinia and Corsica constitutes the 18% and 17% of the total vascular flora of each island, respectively. These data are consistent with those observed in other contexts of the Mediterranean islands, e.g., the Balearic Islands (19%, Podda *et al.*, 2010), and are significantly higher than those reported for Sicily (12.55%, Raimondo *et al.*, 2010) and for the Tuscan Archipelago (10%, Lazzaro *et al.*, 2014).

The prevalence of invasive neophytes on archeophytes, is evident in both islands, with an outstanding higher proportion in Corsica, although the territory is mostly mountainous and smaller than that of Sardinia. The high disproportion of invasive *taxa* found between neophytes and archeophytes also characterizes other contexts such as the Balearic Islands (Podda *et al.*, 2011) and the Tuscan Archipelago (Lazzaro *et al.*, 2014). In the case of the Balearic Islands (14% of invasive *taxa*) and the Tuscan Archipelago (22% of invasive *taxa*), the proportion of such invasive entities is higher than in Sardinia and Corsica. This fact could be attributed to the greater anthropization of the territories than those analysed in this paper.

Among the invasive units common to the two islands, some are also spread worldwide [*Acacia mearnsii* De Willd., *Ailanthus altissima* (Mill.) Swingle, *Arundo donax* L., *Carpobrotus edulis* (L.) N.E. Br., *Cortaderia selloana* (Schult. & Schult. F.) Asch. & Graebn., etc.], or around Europe (*A. altissima*, *C. edulis*, *C. selloana*, *Cyperus eragrostis* Lam. non Vahl., etc.) (DAISIE, 2009), and there are others that are emerging in other countries with a similar (Mediterranean-like) climate to Sardinia and Corsica. These include *Agave americana* L. (Badano and Puignaire, 2004; Smith and Figueiredo, 2007), *Asclepias fruticosa* L. (Fernández Haeger *et al.*, 2010), *Cotula coronopifolia* L. (Brunel *et al.*, 2010), *Malephora crocea* Schwantes (Cal-IPC, 2006) and *Phytolacca americana* L. (Dumas, 2011).

With regard to the plant families, *Asteraceae*, *Poaceae* and *Fabaceae*, are the most represented when considering the alien flora as a whole, while if taking into consideration only the invasive component, a relatively high contribution from the

Solanaceae, *Amaranthaceae* and *Aizoaceae* families has been recorded. These values are consistent with what has been observed in other Mediterranean islands and archipelagos, such as the Balearic Islands and the Tuscan Archipelago (Podda *et al.*, 2011; Lazzaro *et al.*, 2014) and in the continent, as Spain (Sanz Elorza *et al.*, 2004).

When considering the life forms that characterize both the alien and invasive component of Sardinia and Corsica, the predominance of phanerophytes -mainly introduced for reforestation, forestation and ornamental use-, of therophytes -spread as seed contaminants, due to the degradation of habitats and fires- and, to a lesser extent of hemicryptophytes, were also observed in other islands, such as the Balearic (Podda *et al.*, 2010) and the Tuscan Archipelago (Lazzaro *et al.*, 2014) and continental areas, like Spain (Sanz Elorza *et al.*, 2004). The substantial contribution of geophytes is due to their mechanisms of adaptation and resistance to fire, very common in the Mediterranean area. This situation is to be interpreted on the basis of an extended period of summer drought representative of the Mediterranean climates, usually occurring as a particularly long period that obviously leads to a strong selection in favour of arboreal and annual *habitus* (Lloret *et al.*, 2004; Allen, 2001) or of just the arboreal component, based on the massive use for ornamental purposes, as already reported by Richardson and Rejmanek (2011).

The American predominance featuring alien flora -invasive and not invasive- of Sardinia and Corsica, is a constant in many Mediterranean areas, both islands -such as the Balearic Islands (Podda *et al.*, 2011, 2010), Crete (Dal Cin D'Agata *et al.*, 2009) and the Tuscan Archipelago (Lazzaro *et al.*, 2014)- and continental, as Spain (Sanz Elorza *et al.*, 2004) and Greece (Arianoutsou *et al.*, 2010). Other relatively important contributions to the exotic flora of Sardinia and Corsica, as for the other mentioned territories, come from Asia, from the Mediterranean basin and the African continent; with respect to the invasive flora, it is to be noted that the Mediterranean component is significantly reduced. In light of what emerges from the analysis of introduction pathways in Sardinia and Corsica as well as in other Mediterranean contexts (Lazzaro *et al.*, 2014; Podda *et al.*, 2010; Sanz Elorza *et al.*, 2004), the greater invasiveness that characterizes neophytes has been confirmed, associated to intentional introductions, in particular to the entities cultivated for ornamental purposes.

The analysis of the habitats where the largest number of alien *taxa* occur, or where some of these plants show an increased invasiveness indicates, as noted above for other territories (Podda *et al.*, 2010; Sanz Elorza *et al.*, 2004), that one of the basic factors explaining the arrival of non-indigenous entities, of their permanence in the two islands and their possible tendency to invade, is the loss of wilderness, phenomenon usually favoured by human activities and by changes in land use, as revealed in synanthropic and ruderal habitats. In contrast, although aquatic, coastal and riparian habitats host a relatively small number of alien *taxa*, it is equally true that being these habitats clearly marked by similar ecological conditions regardless of geographical and climatic conditions, these habitats are particularly susceptible to invasions and suffer the presence of some of the most invasive entities of both islands (Blondel and Médail, 2009; Mascia *et al.*, 2009; Nucci *et al.*, 2012; Schnitzler *et al.*, 2007; Zedler and Kercher, 2004). Instead, the habitats less susceptible to

invasions are *matorrals*, typically Mediterranean habitats with greater resilience (Di Castri, 1991).

Conclusions

Although there are important differences in the size and geography, as well as in the number of alien *taxa* present in the two islands, the analysis of the two alien floras shows a remarkable consistency between the two islands on the various aspects analysed. Nevertheless, in light of the high proportion of alien entities that characterizes the flora of Sardinia and Corsica, it is reasonable to speak of a full-scale invasion. In this sense, although it is possible to lead back at least part of the competitive success of some alien *taxa* -linked to their ability to settle down in anthropic environments, it is undeniable that other natural habitats, such as wetlands and coastal areas, are particularly sensitive to the entry of alien and in particular invasive entities. Therefore, a need for greater combined efforts, both geographically, and with regard to the various thematic areas of the phenomenon of biological invasions is necessary, in order to address the issue of the presence and the increasing danger of alien plant *taxa* through similar actions and common conservation policies.

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Comparative analysis of the exotic vascular flora of Sardinia (Italy) and Corsica (France)

For Sardinia: * new report taxa respect to the previous checklist (Podda *et al.*, 2012), ** new taxa from other authorsFor Corsica: *** new taxa respect to the previous checklist (Jeanmonod *et al.*, 2013), **** new reports

N°	Family	Taxon	Sardinia presence/ Doubtful presence (D)	Corsica presence/ Doubtful presence (D)	Archaeophyte (Arch)/ Neophyte (Neo)/ Doubtful alien (Da) Sardinia	Archaeophyte (Arch)/ Neophyte (Neo)/ Doubtful alien (Da) Corsica	Status Sardinia	Status Corsica	Habitat
1	Acanthaceae	<i>Acanthus mollis</i> L.	1	1	Arch	Arch	Inv	Inv	Synanthropic
2	Acanthaceae	** <i>Ruellia simplex</i> C. Wright	1		Neo		Cas		Synanthropic
3	Actinidiaceae	*** <i>Actinidia deliciosa</i> (A. Chev.) C.F. Liang & A.R. Ferguson		1		Neo		Cas	Agricultural
4	Aizoaceae	<i>Carpobrotus acinaciformis</i> (L.) L. Bolus	1	1	Neo	Neo	Inv	Inv	Coastal
5	Aizoaceae	<i>Carpobrotus edulis</i> (L.) N.E. Br.	1	1	Neo	Neo	Inv	Inv	Coastal
6	Aizoaceae	<i>Drosanthemum floribundum</i> (Haw.) Schwantes	1		Neo		Nat		Coastal
7	Aizoaceae	<i>Lampranthus brownii</i> (Hook. f.) N.E. Br.		1		Neo		Nat	Coastal
8	Aizoaceae	<i>Lampranthus elegans</i> (Jacq.) Schwantes	1		Neo		Inv		Coastal
9	Aizoaceae	**** <i>Malephora crocea</i> Schwantes var. <i>purpureo-crocea</i> (Haw.) H. Jacobsen & Schwantes	1	1	Neo	Neo	Inv	Inv	Coastal
10	Aizoaceae	<i>Malephora lutea</i> Schwantes	1		Neo		Cas		Coastal
11	Aizoaceae	<i>Malephora uitenhagensis</i> (L. Bol.) Jacobsen et Schwantes	1		Neo		Cas		Coastal
12	Aizoaceae	<i>Mesembryanthemum cordifolium</i> L. f.	1	1	Neo	Neo	Inv	Inv	Coastal
13	Aizoaceae	<i>Mesembryanthemum cristallinum</i> L.	1	1	Neo	Da	Nat	Nat	Coastal
14	Aizoaceae	<i>Mesembryanthemum nodiflorum</i> L.	1		Neo		Nat		Coastal
15	Aizoaceae	<i>Ruschia tumidula</i> (Haw.) Schwantes	1		Neo		Nat		Coastal
16	Aizoaceae	* <i>Tetragonia tetragonoides</i> (Pall.) Kuntze	1	1	Neo	Neo	Cas	Cas	Coastal
17	Alismataceae	* <i>Damasonium bourgaei</i> Coss.	1		Da		Nat		Wetlands
18	Alismataceae	<i>Sagittaria sagittifolia</i> L.		1		Da		Cas	Riparian
19	Amaranthaceae	<i>Achyranthes aspera</i> L.	1		Neo		Nat		Matorrals

20	Amaranthaceae	<i>Amaranthus albus</i> L.	1	1	Neo	Neo	Inv	Inv	Agricultural
21	Amaranthaceae	<i>Amaranthus blitoides</i> S. Watson	1	1	Neo	Neo	Nat	Nat	Synanthropic
22	Amaranthaceae	*** <i>Amaranthus blitum</i> L. subsp. <i>blitum</i>		1		Neo		Nat	Synanthropic
23	Amaranthaceae	<i>Amaranthus blitum</i> L. subsp. <i>emarginatus</i> (Salzm. ex Uline & W.L.Bray) Carretero, Muñoz Garm. & J. Pedrol	1	1	Neo	Neo	Nat	Cas	Synanthropic
24	Amaranthaceae	<i>Amaranthus caudatus</i> L.	1		Neo		Nat		Agricultural
25	Amaranthaceae	<i>Amaranthus crispus</i> (Lesp. et Thévenau) N. Terracc.	1		Neo		Cas		Agricultural
26	Amaranthaceae	<i>Amaranthus cruentus</i> L.	1	1	Neo	Neo	Inv	Nat	Synanthropic
27	Amaranthaceae	<i>Amaranthus deflexus</i> L.	1	1	Neo	Neo	Inv	Nat	Synanthropic
28	Amaranthaceae	<i>Amaranthus graecizans</i> L.	1		Arch		Nat		Synanthropic
29	Amaranthaceae	<i>Amaranthus hybridus</i> L.	1	1	Neo	Neo	Nat	Nat	Synanthropic
30	Amaranthaceae	<i>Amaranthus hypochondriacus</i> L.	1	1	Neo	Neo	Cas	Nat	Synanthropic
31	Amaranthaceae	<i>Amaranthus muricatus</i> (Moq.) Hieron.	1		Neo		Inv		Synanthropic
32	Amaranthaceae	<i>Amaranthus powellii</i> S. Watson		1		Neo		Nat	Synanthropic
33	Amaranthaceae	<i>Amaranthus powellii</i> subsp. <i>bouchonii</i> (Thell.) Costea & Carretero		1		Neo		Nat	Synanthropic
34	Amaranthaceae	<i>Amaranthus retroflexus</i> L.	1	1	Neo	Neo	Inv	Inv	Synanthropic
35	Amaranthaceae	<i>Amaranthus spinosus</i> L.		1		Neo		Cas	Agricultural
36	Amaranthaceae	<i>Amaranthus viridis</i> L.	1	1	Neo	Neo	Inv	Nat	Synanthropic
37	Amaryllidaceae	<i>Allium cepa</i> L.	1		Arch		Nat		Agricultural
38	Amaryllidaceae	<i>Allium neapolitanum</i> Cirillo		1			Da		Synanthropic
39	Amaryllidaceae	<i>Allium obtusiflorum</i> DC.		1			Neo	Cas	Wetlands
40	Amaryllidaceae	<i>Allium porrum</i> L. subsp. <i>porrum</i>	D	1	Arch	Neo	Cas	Cas	Agricultural
41	Amaryllidaceae	<i>Allium sativum</i> L.	1		Arch		Cas		Agricultural
42	Amaryllidaceae	<i>Allium scorodoprasum</i> L.		1		Neo		Cas	Agricultural
43	Amaryllidaceae	<i>Amaryllis belladonna</i> L.		1		Neo		Cas	Synanthropic
44	Amaryllidaceae	<i>Narcissus papyraceus</i> Ker Gawl.	1		Da		Nat		Synanthropic
45	Amaryllidaceae	<i>Narcissus pseudonarcissus</i> L.	1		Arch		Nat		Synanthropic
46	Amaryllidaceae	<i>Nothoscordum gracile</i> (Aiton) Stearn	1		Neo		Nat		Synanthropic
47	Amaryllidaceae	<i>Nothoscordum</i> × <i>borbonicum</i> Kunth	D	1	Neo	Neo		Inv	Synanthropic
48	Amaryllidaceae	<i>Tristagma uniflorum</i> (Lindl.) Traub	1	1	Neo	Neo	Cas	Nat	Synanthropic

49	Anacardiaceae	<i>Rhus coriaria</i> L.	1		Arch		Nat		Agricultural
50	Anacardiaceae	<i>Rhus laevigata</i> L.	1		Neo		Cas		Synanthropic
51	Anacardiaceae	<i>Rhus typhina</i> L.	1		Neo		Cas		Synanthropic
52	Anacardiaceae	<i>Schinus molle</i> L.	1		Neo		Cas		Synanthropic
53	Anacardiaceae	** <i>Schinus terebinthifolia</i> Raddi	1		Neo		Cas		Synanthropic
54	Apiaceae	<i>Anethum graveolens</i> L.	1		Arch		Cas		Agricultural
55	Apiaceae	<i>Anthriscus cerefolium</i> (L.) Hoffm.	1	1	Arch	Neo	Nat	Nat	Synanthropic
56	Apiaceae	<i>Apium graveolens</i> L.	1		Arch		Cas		Riparian
57	Apiaceae	<i>Bupleurum odontites</i> L.		D			Da		Cas
58	Apiaceae	* <i>Bupleurum rotundifolium</i> L.	D		Arch		Nat		
59	Apiaceae	<i>Coriandrum sativum</i> L.	1	1	Arch	Neo	Cas	Cas	Agricultural
60	Apiaceae	<i>Cyclospermum leptophyllum</i> (Pers.) Britton & Wilson		1		Neo		Cas	Matorrals
61	Apiaceae	<i>Daucus carota</i> subsp. <i>sativus</i> Schübl. & G. Martens		1		Arch		Cas	Agricultural
62	Apiaceae	<i>Ferula arrigonii</i> Bocchieri		1			Da		Nat
63	Apiaceae	<i>Levisticum officinale</i> W. D. J. Koch		D		Arch		Cas	Synanthropic
64	Apiaceae	<i>Magydaris pastinacea</i> (Lam.) Paol.		1			Da		Nat
65	Apiaceae	<i>Orlaya grandiflora</i> (L.) Hoffm.		D		Arch		Cas	Synanthropic
66	Apiaceae	<i>Pastinaca sativa</i> L. subsp. <i>sativa</i> var. <i>sativa</i>		1		Arch		Cas	Synanthropic
67	Apiaceae	<i>Petroselinum crispum</i> (Mill.) Fuss	1	1	Arch	Arch	Cas	Cas	Agricultural
68	Apiaceae	<i>Pimpinella anisum</i> L.	1	1	Arch	Arch	Cas	Cas	Agricultural
69	Apiaceae	<i>Thapsia villosa</i> L.		1		Arch		Cas	Synanthropic
70	Apocynaceae	<i>Araujia sericifera</i> Brot.	1	1	Neo	Neo	Cas	Inv	Synanthropic
71	Apocynaceae	<i>Asclepias fruticosa</i> L.	1	1	Neo	Neo	Inv	Inv	Riparian
72	Apocynaceae	<i>Asclepias syriaca</i> L.		D		Neo		Cas	Synanthropic
73	Apocynaceae	<i>Catharanthus roseus</i> (L.) G. Don	1		Neo		Cas		Synanthropic
74	Apocynaceae	<i>Vinca major</i> L.	1	1	Da	Arch	Nat	Inv	Synanthropic
75	Araceae	<i>Chamaerops humilis</i> L.		1			Neo		Cas
76	Araceae	<i>Colocasia esculenta</i> (L.) Schott	1		Neo		Nat		Riparian
77	Araceae	<i>Dracunculus vulgaris</i> Schott	1	1	Arch		Da	Cas	Nat

78	Araceae	<i>Lemna aequinoctialis</i> Welw.	1		Neo		Cas		Wetlands
79	Araceae	<i>Lemna minuta</i> Kunth	1		Neo		Inv		Wetlands
80	Araceae	<i>Lemna valdiviana</i> Phil.	1		Neo		Cas		Wetlands
81	Araceae	**** <i>Pistia stratiotes</i> L.		1		Neo		Cas	Wetlands
82	Araceae	<i>Zantedeschia aethiopica</i> (L.) Spreng.	1	1	Neo	Neo	Nat	Nat	Riparian
83	Araliaceae	*** <i>Hedera helix</i> subsp. <i>maroccana</i> (McAll.) Fennane		1		Neo		Cas	Synanthropic
84	Araliaceae	<i>Hedera helix</i> L. subsp. <i>poëtarum</i> (Bertol.) Nyman	1		Arch		Nat		Riparian
85	Araliaceae	<i>Hydrocotyle ranunculoides</i> L. f.	1	1	Neo	Neo	Inv	Nat	Wetlands
86	Arecaceae	<i>Phoenix canariensis</i> Chabaud	1	1	Neo	Neo	Nat	Nat	Wetlands
87	Arecaceae	<i>Phoenix dactylifera</i> L.	1		Arch		Cas		Synanthropic
88	Arecaceae	<i>Raphia farinifera</i> (Gaertn.) Hylander	1		Neo		Cas		Agricultural
89	Arecaceae	<i>Trachycarpus fortunei</i> (Hook.) H. Wendl.	1		Neo		Cas		Synanthropic
90	Arecaceae	<i>Washingtonia filifera</i> (Linden ex André) H.Wendl. ex de Bary	1	1	Neo	Neo	Cas	Cas	Synanthropic
91	Arecaceae	*** <i>Washingtonia robusta</i> H. Wendl.	1	1	Neo	Neo	Cas	Cas	Synanthropic
92	Aristolochiaceae	<i>Aristolochia sempervirens</i> L.	1		Arch		Nat		Synanthropic
93	Asclepiadaceae	<i>Periploca graeca</i> L.		1			Da	Nat	Wetlands
94	Asparagaceae	<i>Agave americana</i> L. var. <i>americana</i>	1	1	Neo	Neo	Inv	Inv	Coastal
95	Asparagaceae	<i>Agave attenuata</i> Salm-Dick	1		Neo		Nat		Coastal
96	Asparagaceae	<i>Agave fourcroydes</i> Lem.	1		Neo		Inv		Coastal
97	Asparagaceae	<i>Agave ingens</i> A. Berger	1	1	Neo	Neo	Inv	Nat	Coastal
98	Asparagaceae	<i>Agave salmiana</i> Otto ex Salm-Dyck	1		Neo		Inv		Coastal
99	Asparagaceae	<i>Agave salmiana</i> var. <i>ferox</i> (K. Koch) Gentry	1		Neo		Nat		Coastal
100	Asparagaceae	<i>Agave sisaliana</i> Perrine	1	1	Neo	Neo	Nat	Inv	Coastal
101	Asparagaceae	** <i>Asparagus aethiopicus</i> L.	1		Neo		Cas		Synanthropic
102	Asparagaceae	<i>Asparagus asparagoides</i> (L.) Druce	1	1	Neo	Neo	Nat	Inv	Synanthropic
103	Asparagaceae	<i>Asparagus officinalis</i> L. subsp. <i>officinalis</i>	1	1	Arch	Da	Cas		Agricultural
104	Asparagaceae	<i>Asparagus setaceus</i> (Kunth) Jessop	1		Neo		Cas		Synanthropic
105	Asparagaceae	<i>Convallaria majalis</i> L.		1			Da	Cas	Synanthropic
106	Asparagaceae	<i>Hyacinthus orientalis</i> L.	D	1	Arch	Arch	Cas	Cas	Synanthropic

107	Asparagaceae	<i>Melomphis arabica</i> (L.) Raf.		1			Arch	Nat	Synanthropic	
108	Asparagaceae	<i>Muscari armeniacum</i> Baker		1			Neo	Cas	Synanthropic	
109	Asparagaceae	<i>Nectaroscilla hyacinthoides</i> (L.) Parl.	1	1	Neo		Neo	Cas	Synanthropic	
110	Asparagaceae	<i>Oncostema peruviana</i> (L.) Speta		1			Arch	Cas	Synanthropic	
111	Asparagaceae	<i>Ornithogalum divergens</i> Boreau		1			Da	Nat	Agricultural	
112	Asparagaceae	<i>Stellarioides canaliculata</i> Medik.	1		Neo			Cas	Synanthropic	
113	Asparagaceae	<i>Yucca aloifolia</i> L.	1		Neo			Cas	Coastal	
114	Asparagaceae	**** <i>Yucca filamentosa</i> L.	1	1	Neo		Neo	Cas	Nat	Coastal
115	Asparagaceae	**** <i>Yucca gloriosa</i> L.	1	1	Neo		Neo	Cas	Nat	Coastal
116	Asteraceae	<i>Achillea millefolium</i> L. subsp. <i>millefolium</i>		1			Neo		Nat	Synanthropic
117	Asteraceae	<i>Ageratina adenophora</i> (Spreng.) R. M. King & H. Rob.		1			Neo		Nat	Woodlands
118	Asteraceae	<i>Ambrosia artemisiifolia</i> L.		1			Neo		Inv	Synanthropic
119	Asteraceae	**** <i>Anthemis cretica</i> L.		1			Neo		Cas	Synanthropic
120	Asteraceae	<i>Arctotheca calendula</i> (L.) Levyns	1	1	Neo		Neo	Nat	Cas	Coastal
121	Asteraceae	<i>Argyranthemum frutescens</i> (L.) Sch. Bip. subsp. <i>frutescens</i>	1	1	Neo		Neo	Cas	Cas	Synanthropic
122	Asteraceae	<i>Artemisia absinthium</i> L.		1			Neo		Nat	Agricultural
123	Asteraceae	** <i>Artemisia annua</i> L.	1	1	Neo		Neo	Nat	Nat	Synanthropic
124	Asteraceae	<i>Artemisia arborescens</i> (Vaill.) L.		1			Da		Nat	Synanthropic
125	Asteraceae	<i>Artemisia verlotiorum</i> Lamotte	1	1	Neo		Neo	Nat	Inv	Synanthropic
126	Asteraceae	<i>Bidens aureus</i> (Ait.) Sherff.		1				Nat		Synanthropic
127	Asteraceae	<i>Bidens frondosus</i> L.	1	1	Neo		Neo	Nat	Inv	Riparian
128	Asteraceae	** <i>Bidens pilosus</i> L.	1		Neo			Cas		Synanthropic
129	Asteraceae	<i>Bidens radiatus</i> Thuill.	1		Neo			Cas		Riparian
130	Asteraceae	<i>Bidens subalternans</i> DC.		1			Neo		Inv	Agricultural
131	Asteraceae	<i>Calendula officinalis</i> L.	1		Arch			Nat		Synanthropic
132	Asteraceae	* <i>Calendula suffruticosa</i> Vahl subsp. <i>fulgida</i> (Raf.) Guadagno	1		Da			Nat		
133	Asteraceae	<i>Carpesium cernuum</i> L.		1			Arch		Cas	Wetlands
134	Asteraceae	<i>Centaurea aspera</i> L. subsp. <i>aspera</i>		1			Da		Cas	Synanthropic
135	Asteraceae	<i>Centaurea babylonica</i> (L.) L.	1		Da					

136	Asteraceae	<i>Centaurea cineraria</i> L. subsp. <i>cineraria</i>		D		Neo		Cas	Synanthropic
137	Asteraceae	<i>Centaurea decipiens</i> Thuill.		1		Neo		Nat	Wetlands
138	Asteraceae	** <i>Centaurea diluta</i> Aiton	1		Neo		Inv		Synanthropic
139	Asteraceae	<i>Centaurea jacea</i> L. subsp. <i>jacea</i>		1		Neo		Nat	Synanthropic
140	Asteraceae	<i>Centaurea jacea</i> subsp. <i>angustifolia</i> Greml.		1		Neo		Cas	Synanthropic
141	Asteraceae	<i>Centaurea paniculata</i> L. subsp. <i>paniculata</i>		D		Arch		Cas	Synanthropic
142	Asteraceae	<i>Centaurea thuillieri</i> (Dostál) J. Duvign. & Lambinon		1		Neo		Nat	Synanthropic
143	Asteraceae	<i>Cheirolophus intybaceus</i> (Lam.) Dostál		D		Neo		Cas	Synanthropic
144	Asteraceae	<i>Cichorium endivia</i> L.		1		Arch		Cas	Agricultural
145	Asteraceae	**** <i>Cota tinctoria</i> (L.) J. Gay		1		Neo		Cas	Synanthropic
146	Asteraceae	<i>Cotula australis</i> (Spreng.) Hooker f.		1		Neo		Inv	Synanthropic
147	Asteraceae	<i>Cotula coronopifolia</i> L.	1	1	Neo	Neo	Inv	Inv	Wetlands
148	Asteraceae	<i>Crepis bursifolia</i> L.		1		Arch		Nat	Synanthropic
149	Asteraceae	<i>Crepis nicaeensis</i> Balb. ex Pers.		1		Neo		Cas	Synanthropic
150	Asteraceae	* <i>Crepis sancta</i> (L.) Babc. subsp. <i>nemausensis</i> (P. Fourn.) Babc.	1		Arch			Nat	Synanthropic
151	Asteraceae	<i>Crepis vesicaria</i> L. subsp. <i>stellata</i> (Ball) Babc.		1		Arch		Nat	Synanthropic
152	Asteraceae	<i>Crepis vesicaria</i> subsp. <i>taraxacifolia</i> (Thuill.) Thell.		1		Arch		Nat	Synanthropic
153	Asteraceae	** <i>Cyanus segetum</i> Hill	1		Da			Cas	Agricultural
154	Asteraceae	<i>Cynara scolymus</i> L.	1		Arch			Nat	Agricultural
155	Asteraceae	<i>Delairea odorata</i> Lem.	1		Neo			Cas	Synanthropic
156	Asteraceae	<i>Eclipta prostrata</i> (L.) L.	1	1	Neo	Neo	Nat	Nat	Wetlands
157	Asteraceae	<i>Erigeron annuus</i> (L.) Pers.		1		Neo		Cas	Wetlands
158	Asteraceae	<i>Erigeron bonariensis</i> L.	1	1	Neo	Neo	Inv	Inv	Synanthropic
159	Asteraceae	<i>Erigeron canadensis</i> L.	1	1	Neo	Neo	Inv	Inv	Synanthropic
160	Asteraceae	<i>Erigeron karvinskianus</i> DC.		1		Neo		Cas	Synanthropic
161	Asteraceae	<i>Erigeron philadelphicus</i> L.		1		Neo		Cas	Synanthropic
162	Asteraceae	<i>Erigeron sumatrensis</i> Retz.	1	1	Neo	Neo	Inv	Inv	Synanthropic
163	Asteraceae	<i>Eriocephalus africanus</i> L.	1		Neo			Cas	Synanthropic
164	Asteraceae	<i>Filago arvensis</i> L.	1		Da			Nat	Agricultural

165	Asteraceae	<i>Gaillardia × grandiflora</i> Van Houtte		1			Neo		Cas	Synanthropic
166	Asteraceae	<i>Galinsoga parviflora</i> Cav.	1	1	Neo		Neo	Inv	Cas	Agricultural
167	Asteraceae	<i>Gamochaeta antillana</i> (Urban) Anderberg		1			Neo		Cas	Coastal
168	Asteraceae	<i>Gazania linearis</i> (Thunb.) Druce	1		Neo			Nat		Synanthropic
169	Asteraceae	<i>Gazania rigens</i> (L.) Gaertner	1	1	Neo		Neo	Cas	Nat	Synanthropic
170	Asteraceae	<i>Geropogon hybridus</i> L.		1			Arch		Cas	Synanthropic
171	Asteraceae	<i>Glebionis coronaria</i> (L.) Spach	1		Da			Inv		Agricultural
172	Asteraceae	<i>Grindelia robusta</i> Nutt.	1		Neo			Cas		Coastal
173	Asteraceae	<i>Guizotia abyssinica</i> (L. fil.) Cass.	1		Neo			Cas		Synanthropic
174	Asteraceae	<i>Helianthus annuus</i> L.	1	1	Neo		Neo	Nat	Cas	Agricultural
175	Asteraceae	<i>Helianthus pauciflorus</i> Nutt. subsp. <i>pauciflorus</i>	D		Neo					Agricultural
176	Asteraceae	<i>Helianthus tuberosus</i> L.	1	1	Neo		Neo	Nat	Cas	Riparian
177	Asteraceae	<i>Helianthus × laetiflorus</i> Pers.	D	1	Neo		Neo		Inv	Wetlands
178	Asteraceae	<i>Helichrysum petiolare</i> Hilliard & B. L. Burt		1			Neo		Cas	Synanthropic
179	Asteraceae	<i>Helichrysum stoechas</i> (L.) Moench		1			Arch		Cas	Synanthropic
180	Asteraceae	<i>Helminthotheca echioides</i> (L.) Holub		1			Arch		Nat	Synanthropic
181	Asteraceae	<i>Hieracium glaucinum</i> subsp. <i>jaubertianum</i> (Timb.-Lagr. & Loret) O. Bolòs & Vigo		1			Da		Cas	Woodlands
182	Asteraceae	<i>Hieracium mixtum</i> Froel		1			Da		Cas	Coastal
183	Asteraceae	<i>Hieracium murorum</i> L.		1			Arch		Cas	Synanthropic
184	Asteraceae	<i>Lactuca sativa</i> L.	1	1	Arch		Arch	Cas	Cas	Agricultural
185	Asteraceae	<i>Leontodon hispidus</i> L.		1			Neo		Cas	Agricultural
186	Asteraceae	<i>Leucanthemum vulgare</i> (Vaill.) Lam.		1			Neo		Nat	Synanthropic
187	Asteraceae	<i>Mantisalca salmantica</i> (L.) Briq. et Cavill.	1	1	Da		Da	Nat	Nat	Agricultural
188	Asteraceae	<i>Matricaria chamomilla</i> L.	1	1	Arch		Arch	Cas	Cas	Agricultural
189	Asteraceae	<i>Petasites pyrenaicus</i> (L.) G. López		1			Arch		Nat	Wetlands
190	Asteraceae	<i>Picris hieracioides</i> L.		1			Arch		Nat	Synanthropic
191	Asteraceae	**** <i>Picris hieracioides</i> L. subsp. <i>hieracioides</i>		1			Neo		Nat	Agricultural
192	Asteraceae	<i>Scolymus grandiflorus</i> Desf.		1			Neo		Nat	Synanthropic
193	Asteraceae	<i>Senecio angulatus</i> L. f.	1	1	Neo		Neo	Inv	Inv	Synanthropic

194	Asteraceae	<i>Senecio inaequidens</i> DC.	1	1	Neo	Neo	Nat	Inv	Riparian
195	Asteraceae	<i>Solidago canadensis</i> L.		1		Neo		Inv	Riparian
196	Asteraceae	<i>Soliva sessilis</i> Ruiz & Pavon		1		Neo		Cas	Synanthropic
197	Asteraceae	<i>Symphotrichum squamatum</i> (Spreng.) G.L. Nesom	1	1	Neo	Neo	Inv	Nat	Wetlands
198	Asteraceae	<i>Tagetes minuta</i> L.		1		Neo		Cas	Synanthropic
199	Asteraceae	<i>Tanacetum balsamita</i> L.		1		Arch		Cas	Synanthropic
200	Asteraceae	<i>Tanacetum parthenium</i> (L.) Sch. Bip.	1	1	Arch	Arch	Cas	Cas	Agricultural
201	Asteraceae	<i>Tanacetum vulgare</i> L.		1		Arch		Cas	Synanthropic
202	Asteraceae	<i>Tolpis barbata</i> (L.) Gaertn		1		Arch		Cas	Synanthropic
203	Asteraceae	<i>Tragopogon porrifolius</i> subsp. <i>eriospermus</i> (Ten.) Greuter		1		Neo		Cas	Agricultural
204	Asteraceae	*** <i>Tragopogon pratensis</i> L. subsp. <i>pratensis</i>		1		Neo		Cas	Synanthropic
205	Asteraceae	* <i>Tussilago farfara</i> L.	1		Da		Nat		Woodlands
206	Asteraceae	<i>Xanthium orientale</i> L. subsp. <i>italicum</i> (Moretti) Greuter	1	1	Neo	Neo	Nat	Inv	Synanthropic
207	Asteraceae	<i>Xanthium spinosum</i> L.	1	1	Neo	Neo	Inv	Inv	Agricultural
208	Asteraceae	** <i>Zinnia elegans</i> Jacq.	1		Neo		Cas		Synanthropic
209	Balsaminaceae	<i>Impatiens balfourii</i> Hook. f. I. de Balfur	1	1	Neo	Neo	Cas	Inv	Synanthropic
210	Basellaceae	<i>Anredera cordifolia</i> (Ten.) Steenis		1		Neo		Cas	Synanthropic
211	Berberidaceae	<i>Mahonia aquifolium</i> (Pursh) Nutt.		1		Neo		Cas	Synanthropic
212	Betulaceae	<i>Alnus cordata</i> (Loisel.) Duby	1		Arch		Cas		Riparian
213	Betulaceae	<i>Alnus incana</i> (L.) Moench	1		Arch		Cas		Riparian
214	Betulaceae	<i>Corylus avellana</i> L.	1		Arch		Cas		Riparian
215	Bignoniaceae	<i>Campsis radicans</i> (L.) Seem.	1	1	Neo	Neo	Cas	Cas	Synanthropic
216	Bignoniaceae	<i>Catalpa bignonioides</i> Walter	1		Neo		Cas		Riparian
217	Bignoniaceae	<i>Jacaranda mimosifolia</i> D. Don.	1		Neo		Cas		Synanthropic
218	Bignoniaceae	<i>Podranea ricasoliana</i> (Tanfani) Sprague		1		Neo		Cas	Synanthropic
219	Bignoniaceae	<i>Tecomaria capensis</i> (Thunb.) Lindl.	1		Neo		Cas		Riparian
220	Boraginaceae	<i>Heliotropium curassavicum</i> L.	1		Neo		Nat		Synanthropic
221	Boraginaceae	<i>Phacelia tanacetifolia</i> Benth.	1	1	Neo	Neo	Cas	Cas	Wetlands
222	Brassicaceae	<i>Alyssum corsicum</i> Duby		1		Arch		Nat	Wetlands

223	Brassicaceae	<i>Armoracia rusticana</i> P. Gaertn., B. Mey. & Scherb.		1			Neo	Cas	Riparian
224	Brassicaceae	<i>Brassica napus</i> L.	1	1	Arch	Arch	Nat	Cas	Synanthropic
225	Brassicaceae	<i>Brassica nigra</i> (L.) W.D.J. Koch	1	D	Arch	Arch	Nat		Synanthropic
226	Brassicaceae	<i>Brassica oleracea</i> L.	1	1	Arch	Arch	Cas	Cas	Agricultural
227	Brassicaceae	<i>Brassica procumbens</i> (Poir.) O.E. Schulz		1		Arch		Nat	Agricultural
228	Brassicaceae	*** <i>Brassica rapa</i> L. s.l.	1	1	Arch	Arch	Cas	Cas	Agricultural
229	Brassicaceae	<i>Brassica rapa</i> L. subsp. <i>campestris</i> (L.) Clapham		1		Arch		Cas	Synanthropic
230	Brassicaceae	<i>Brassica rapa</i> L. subsp. <i>rapa</i>		1		Arch		Cas	Synanthropic
231	Brassicaceae	<i>Camelina alyssum</i> (Mill.) Thell. subsp. <i>alyssum</i>		D		Arch		Cas	Agricultural
232	Brassicaceae	<i>Camelina microcarpa</i> DC.		D		Arch		Cas	Agricultural
233	Brassicaceae	<i>Camelina sativa</i> (L.) Crantz subsp. <i>sativa</i>	1	D	Arch	Arch	Cas	Cas	Agricultural
234	Brassicaceae	** <i>Cardamine flexuosa</i> With subsp. <i>debilis</i> O.E. Schulz	1		Neo			Cas	Synanthropic
235	Brassicaceae	<i>Cardamine pratensis</i> L.		1		Da		Cas	Woodlands
236	Brassicaceae	<i>Carrichtera annua</i> (L.) DC.		1		Da		Cas	Synanthropic
237	Brassicaceae	<i>Diplotaxis catholica</i> (L.) DC. subsp. <i>catholica</i>		1		Neo		Cas	Synanthropic
238	Brassicaceae	<i>Diplotaxis eruroides</i> (L.) DC. subsp. <i>eruroides</i>		1		Da		Nat	Synanthropic
239	Brassicaceae	<i>Diplotaxis muralis</i> (L.) DC.		1		Arch		Cas	Agricultural
240	Brassicaceae	<i>Erysimum cheiri</i> (L.) Crantz	1	1	Arch	Arch	Nat	Cas	Synanthropic
241	Brassicaceae	<i>Hesperis matronalis</i> L. subsp. <i>matronalis</i>		1		Arch		Cas	Synanthropic
242	Brassicaceae	<i>Isatis tinctoria</i> L. subsp. <i>tinctoria</i>	1	1	Arch	Arch	Nat	Nat	Agricultural
243	Brassicaceae	<i>Lepidium campestre</i> (L.) R. Br.	1		Da				Agricultural
244	Brassicaceae	<i>Lepidium coronopus</i> (L.) Al-Shehbaz	1		Da		Nat		Synanthropic
245	Brassicaceae	<i>Lepidium didymum</i> L.	1	1	Neo	Neo	Nat	Nat	Wetlands
246	Brassicaceae	<i>Lepidium heterophyllum</i> Benth.		1		Neo		Nat	Synanthropic
247	Brassicaceae	<i>Lepidium latifolium</i> L.	1		Arch		Nat		Wetlands
248	Brassicaceae	<i>Lepidium ruderale</i> L.	1		Neo		Nat		Synanthropic
249	Brassicaceae	<i>Lepidium sativum</i> L. subsp. <i>sativum</i>	1		Arch		Cas		Agricultural
250	Brassicaceae	<i>Lepidium virginicum</i> L.		1		Neo		Cas	Wetlands
251	Brassicaceae	<i>Lunaria annua</i> L.	1	1	Arch	Neo	Nat	Cas	Riparian

252	Brassicaceae	<i>Malcolmia maritima</i> (L.) R. Br.	1	D	Arch	Arch	Cas	Cas	Coastal
253	Brassicaceae	<i>Malcolmia triloba</i> (L.) Spreng.				Neo		Cas	Coastal
254	Brassicaceae	<i>Matthiola incana</i> (L.) R. Br. subsp. <i>incana</i>	1		Arch		Nat		Synanthropic
255	Brassicaceae	<i>Moricandia arvensis</i> (L.) DC.	1		Da				Agricultural
256	Brassicaceae	<i>Neslia paniculata</i> (L.) Desv. subsp. <i>thracica</i> (Velen.) Bornm.	1		Arch		Nat		Agricultural
257	Brassicaceae	<i>Raphanus sativus</i> L.	1		Arch		Cas		Agricultural
258	Brassicaceae	<i>Rorippa austriaca</i> (Crantz) Besser		1		Neo		Cas	Wetlands
259	Brassicaceae	<i>Rorippa palustris</i> (L.) Besser		1		Da		Nat	Wetlands
260	Brassicaceae	<i>Sinapis alba</i> L. subsp. <i>alba</i>	1		Arch		Nat		Agricultural
261	Brassicaceae	<i>Sisymbrium orientale</i> L. subsp. <i>orientale</i>	1		Arch		Nat		Agricultural
262	Brassicaceae	<i>Sisymbrium runcinatum</i> DC.		D		Neo		Cas	Synanthropic
263	Cactaceae	<i>Austrocylindropuntia cylindrica</i> (Lam.) Backeb.	1		Neo		Cas		Matorrals
264	Cactaceae	<i>Austrocylindropuntia subulata</i> (Mühlenpf.) Backeb.	1	1	Neo	Neo	Inv	Nat	Matorrals
265	Cactaceae	** <i>Hylocereus undatus</i> (Haworth) Britton & Rose	1		Neo		Cas		Riparian
266	Cactaceae	<i>Nopalea dejecta</i> Salm-Dick	1		Neo		Cas		Synanthropic
267	Cactaceae	* <i>Opuntia amyclaea</i> Ten.	1		Neo		Nat		Matorrals
268	Cactaceae	<i>Opuntia decumbens</i> Salm-Dyck	1		Neo		Cas		Coastal
269	Cactaceae	<i>Opuntia dillenii</i> (Ker Gawl.) Haw.	1	1	Neo	Neo	Nat	Cas	Synanthropic
270	Cactaceae	<i>Opuntia ficus-indica</i> (L.) Mill.	1	1	Neo	Neo	Inv	Inv	Matorrals
271	Cactaceae	<i>Opuntia humifusa</i> (Raf.) Raf.	1		Neo		Nat		Matorrals
272	Cactaceae	* <i>Opuntia microdasys</i> (Lehm.) Pfeiff. subsp. <i>microdasys</i>	1		Neo		Cas		Synanthropic
273	Cactaceae	<i>Opuntia monacantha</i> (Willd.) Haw.	1	1	Neo	Neo	Cas	Inv	Synanthropic
274	Cactaceae	<i>Opuntia stricta</i> (Haw.) Haw.	1		Neo		Cas		Matorrals
275	Cactaceae	<i>Opuntia tomentosa</i> Salm-Dyck	1		Neo		Cas		Matorrals
276	Cactaceae	<i>Opuntia tuna</i> (L.) Mill.	1		Neo		Nat		Matorrals
277	Campanulaceae	<i>Campanula patula</i> L.		1		Neo		Cas	Synanthropic
278	Campanulaceae	<i>Campanula rapunculoides</i> L. subsp. <i>rapunculoides</i>	1		Neo		Cas		Synanthropic
279	Campanulaceae	<i>Campanula versicolor</i> Andrews	1		Neo		Cas		Synanthropic
280	Campanulaceae	<i>Trachelium caeruleum</i> L.		1		Arch		Cas	Synanthropic

281	Cannabaceae	<i>Cannabis sativa</i> L.	1	1	Arch	Arch	Cas	Cas	Agricultural
282	Cannabaceae	<i>Celtis australis</i> L.	1	1	Da	Da	Nat	Nat	Synanthropic
283	Cannaceae	<i>Canna indica</i> L.	1	1	Neo	Neo	Nat	Nat	Wetlands
284	Capparidaceae	** <i>Capparis spinosa</i> L.	1	1	Arch	Arch	Cas	Nat	Synanthropic
285	Caprifoliaceae	<i>Centranthus ruber</i> (L.) DC. subsp. <i>ruber</i>	1	1	Arch	Neo	Nat	Inv	Synanthropic
286	Caprifoliaceae	<i>Fedia graciliflora</i> Fisch. & C. A. Mey.		1		Arch		Cas	Synanthropic
287	Caprifoliaceae	<i>Knautia integrifolia</i> (L.) Bertol. subsp. <i>integrifolia</i>	1		Da		Cas		Coastal
288	Caprifoliaceae	<i>Lonicera japonica</i> Thunb.	1	1	Neo	Neo	Cas	Inv	Synanthropic
289	Caprifoliaceae	<i>Sisylvestris atropurpurea</i> (L.) Greuter & Burdet subsp. <i>atropurpurea</i>		1		Neo		Cas	Riparian
290	Caprifoliaceae	<i>Valeriana officinalis</i> L.	1		Da				Synanthropic
291	Caryophyllaceae	*** <i>Agrostemma githago</i> L.		1		Arch		Cas	Agricultural
292	Caryophyllaceae	<i>Cerastium comatum</i> Desv.		1		Arch		Nat	Matorrals
293	Caryophyllaceae	<i>Cerastium tomentosum</i> L.		1		Arch		Cas	Matorrals
294	Caryophyllaceae	<i>Gypsophila muralis</i> L.	1		Da		Cas		Synanthropic
295	Caryophyllaceae	<i>Saponaria ocymoides</i> L. subsp. <i>ocimoides</i>		1		Neo		Cas	Synanthropic
296	Caryophyllaceae	<i>Silene conica</i> L.		1		Arch		Cas	Coastal
297	Caryophyllaceae	<i>Silene coronaria</i> (L.) Clairv.		1		Neo		Cas	Synanthropic
298	Caryophyllaceae	<i>Silene cretica</i> L.		D		Da		Cas	Synanthropic
299	Caryophyllaceae	<i>Silene disticha</i> Willd.		1		Neo		Nat	Synanthropic
300	Caryophyllaceae	*** <i>Silene fuscata</i> Brot.		1		Neo		Cas	Synanthropic
301	Caryophyllaceae	<i>Silene italica</i> (L.) Pers. subsp. <i>italica</i>		1		Neo		Cas	Synanthropic
302	Caryophyllaceae	<i>Silene pendula</i> L.		1		Neo		Cas	Synanthropic
303	Caryophyllaceae	<i>Silene portensis</i> L.		D		Neo		Cas	Coastal
304	Caryophyllaceae	<i>Stellaria graminea</i> L.		1		Neo		Nat	Synanthropic
305	Caryophyllaceae	<i>Vaccaria hispanica</i> (Mill.) Rauschert	D	D	Arch	Arch	Cas	Cas	Agricultural
306	Casuarinaceae	<i>Allocasuarina verticillata</i> L.A.S. Johnson	1		Neo		Cas		Synanthropic
307	Casuarinaceae	<i>Casuarina cunninghamiana</i> Miq.	1	1	Neo	Neo	Cas	Cas	Synanthropic
308	Celastraceae	<i>Euonymus japonicus</i> L. f.	1	1	Neo	Neo	Cas	Nat	Synanthropic
309	Celastraceae	<i>Parnassia palustris</i> L. subsp. <i>palustris</i>	1		Arch		Cas		Wetlands

310	Chenopodiaceae	<i>Atriplex halimus</i> L.					1		Neo	Nat	Synanthropic		
311	Chenopodiaceae	<i>Atriplex tatarica</i> L. subsp. <i>tatarica</i>					1		Arch	Nat	Coastal		
312	Chenopodiaceae	<i>Bassia scoparia</i> (L.) A.J. Scott	1	1	Arch			Neo	Nat	Cas	Coastal		
313	Chenopodiaceae	<i>Beta trigyna</i> Waldst. et Kit.	1					Neo		Nat	Agricultural		
314	Chenopodiaceae	<i>Beta vulgaris</i> L. subsp. <i>vulgaris</i>	1	1	Arch			Arch		Nat	Cas	Agricultural	
315	Chenopodiaceae	<i>Chenopodium giganteum</i> D. Don						1	Neo		Cas	Synanthropic	
316	Chenopodiaceae	<i>Chenopodium hircinum</i> Schrad						D	Neo		Cas	Synanthropic	
317	Chenopodiaceae	<i>Chenopodium hybridum</i> L.						D	Neo		Cas	Synanthropic	
318	Chenopodiaceae	<i>Dysphania ambrosioides</i> (L.) Mosyakin & Clemants	1	1	Neo			Neo		Inv	Inv	Riparian	
319	Chenopodiaceae	<i>Dysphania multifida</i> (L.) Mosyakin & Clemants	1	1	Neo			Neo		Nat	Cas	Wetlands	
320	Chenopodiaceae	** <i>Dysphania pumilio</i> (R. Br.) Mosyakin & Clemants	1	1	Neo			Neo		Inv	Nat	Synanthropic	
321	Chenopodiaceae	<i>Polycnemum majus</i> A. Braun	1					Neo			Cas	Coastal	
322	Chenopodiaceae	<i>Spinacia oleracea</i> L.	D	1	Arch			Arch		Cas	Cas	Agricultural	
323	Cistaceae	<i>Cistus albidus</i> L.						1	Da		Cas	Synanthropic	
324	Cistaceae	<i>Cistus laurifolius</i> L. subsp. <i>atlanticus</i> (Pit.) Sennen & Mauricio						1	Neo		Nat	Woodlands	
325	Colchicaceae	<i>Colchicum variegatum</i> L.						1	Arch		Cas	Coastal	
326	Commelinaceae	<i>Commelina communis</i> L.						1	Neo		Cas	Wetlands	
327	Commelinaceae	<i>Tradescantia fluminensis</i> Velloso	1	1	Neo			Neo		Nat	Inv	Wetlands	
328	Convolvulaceae	<i>Calystegia silvatica</i> (Kit.) Griseb.	1					1	Da		Nat	Woodlands	
329	Convolvulaceae	<i>Convolvulus tricolor</i> L. subsp. <i>tricolor</i>						1			Arch	Cas	Synanthropic
330	Convolvulaceae	<i>Convolvulus tricolor</i> subsp. <i>cupanianus</i> (Tod.) Cavara & Grande						1			Da	Nat	Agricultural
331	Convolvulaceae	<i>Cuscuta campestris</i> Yunck.	1	1	Neo			Neo		Nat	Inv	Agricultural	
332	Convolvulaceae	<i>Cuscuta epilinum</i> Weihe	1					1	Arch		Nat	Agricultural	
333	Convolvulaceae	<i>Dichondra micrantha</i> Urb.	1					1	Neo		Cas	Synanthropic	
334	Convolvulaceae	<i>Ipomoea cairica</i> (L.) Sweet	1					1	Neo		Cas	Synanthropic	
335	Convolvulaceae	<i>Ipomoea indica</i> (Burm.) Merr.	1	1	Neo			Neo		Nat	Inv	Riparian	
336	Convolvulaceae	<i>Ipomoea purpurea</i> (L.) Roth	1	1	Neo			Neo		Nat	Inv	Synanthropic	
337	Crassulaceae	<i>Aeonium arboreum</i> (L.) Webb. et Berthel.	1					1	Arch		Nat	Coastal	
338	Crassulaceae	<i>Aeonium decorum</i> Webb ex Bolle	1					1	Neo		Nat	Coastal	

339	Crassulaceae	** <i>Aeonium haworthii</i> (Webb & Berthel.) Webb & Berthel.	1	1	Neo	Neo	Cas	Cas	Synanthropic
340	Crassulaceae	<i>Cotyledon oblonga</i> Haw.	1		Neo		Nat		Synanthropic
341	Crassulaceae	<i>Cotyledon orbiculata</i> L.	1		Neo		Cas		Coastal
342	Crassulaceae	<i>Crassula muscosa</i> L.	1	1	Neo	Neo	Cas	Cas	Coastal
343	Crassulaceae	<i>Crassula ovata</i> Druce	1		Neo		Cas		Coastal
344	Crassulaceae	<i>Hylotelephium maximum</i> (L.) Holub subsp. <i>maximum</i>	1	1	Arch	Arch	Cas	Nat	Synanthropic
345	Crassulaceae	<i>Kalanchoë daigremontiana</i> Hamet et H. Perrier	1		Neo		Cas		Matorrals
346	Crassulaceae	* <i>Kalanchoe delagoensis</i> Eckl. & Zeyh.	1	1	Neo	Neo	Cas	Cas	Synanthropic
347	Crassulaceae	<i>Kalanchoë × houghtonii</i> D.B. Ward	1		Neo		Cas		Synanthropic
348	Crassulaceae	<i>Sedum acre</i> L.		1			Neo		Nat
349	Crassulaceae	<i>Sedum mexicanum</i> Britton		1			Neo		Cas
350	Crassulaceae	<i>Sedum multiceps</i> Coss. & Durieu		1			Neo		Nat
351	Crassulaceae	* <i>Sedum palmeri</i> S. Watson	1		Neo		Cas		Synanthropic
352	Crassulaceae	** <i>Sedum praealtum</i> DC.	1		Neo		Cas		Synanthropic
353	Crassulaceae	<i>Sedum sedifforme</i> (Jacq.) Pau		1			Arch		Nat
354	Crassulaceae	<i>Sempervivum tectorum</i> L.	1	1	Arch	Arch	Cas	Cas	Synanthropic
355	Cucurbitaceae	<i>Citrullus colocynthis</i> (L.) Schrad.		1			Arch		Cas
356	Cucurbitaceae	<i>Citrullus lanatus</i> (Thunb.) Matsum. et Nakai	1	1	Arch	Arch	Cas	Cas	Synanthropic
357	Cucurbitaceae	<i>Cucumis melo</i> L.	1	1	Arch	Arch	Cas	Cas	Agricultural
358	Cucurbitaceae	<i>Cucumis sativus</i> L.	1	1	Arch	Arch	Cas	Cas	Agricultural
359	Cucurbitaceae	<i>Cucurbita maxima</i> Duchesne	1		Neo		Cas		Agricultural
360	Cucurbitaceae	<i>Cucurbita pepo</i> L.	1		Neo		Cas		Agricultural
361	Cucurbitaceae	<i>Lagenaria siceraria</i> (Molina) Standl.	1	1	Arch	Arch	Cas	Cas	Agricultural
362	Cucurbitaceae	<i>Sechium edule</i> Swartz	1		Neo		Cas		Agricultural
363	Cupressaceae	<i>Callitropsis arizonica</i> (Greene) D.P. Little	1		Neo		Cas		Woodlands
364	Cupressaceae	<i>Callitropsis macrocarpa</i> (Hartw.) D.P. Little	1		Neo		Cas		Woodlands
365	Cupressaceae	<i>Calocedrus decurrens</i> (Torr.) Florin	1		Neo		Cas		Woodlands
366	Cupressaceae	<i>Chamaecyparis lawsoniana</i> (Murray) Parl.	1		Neo		Cas		Woodlands
367	Cupressaceae	<i>Cupressus sempervirens</i> L.	1		Arch		Cas		Woodlands

368	Cupressaceae	<i>Juniperus chinensis</i> L.	1		Neo		Cas		Synanthropic
369	Cupressaceae	<i>Thuja orientalis</i> L.	1		Neo		Cas		Synanthropic
370	Cyperaceae	*** <i>Bolboschoenus laticarpus</i> Marhold, Hroudová, Zákřavský & Ducháček		1		Neo		Nat	Wetlands
371	Cyperaceae	<i>Cyperus alternifolius</i> L. subsp. <i>flabelliformis</i> (Rottb.) Kük	1	1	Neo	Neo	Inv	Cas	Wetlands
372	Cyperaceae	<i>Cyperus difformis</i> L.	1	1	Neo	Da	Cas	Nat	Wetlands
373	Cyperaceae	<i>Cyperus eragrostis</i> Lam. non Vahl.	1	1	Neo	Neo	Inv	Inv	Wetlands
374	Cyperaceae	<i>Cyperus michelianus</i> (L.) Delile	1	1	Arch	Neo	Nat	Nat	Wetlands
375	Cyperaceae	<i>Cyperus rotundus</i> L.	1		Da		Nat		Synanthropic
376	Didiereaceae	<i>Portulacaria afra</i> Jacq.	1		Neo		Cas		Synanthropic
377	Ebenaceae	<i>Diospyros lotus</i> L.		1		Neo		Nat	Synanthropic
378	Elaeagnaceae	<i>Elaeagnus angustifolia</i> L.	1	1	Neo	Neo	Nat	Cas	Wetlands
379	Elatinaceae	<i>Elatine triandra</i> Schkuhr	1		Neo		Nat		Wetlands
380	Ericaceae	<i>Calluna vulgaris</i> (L.) Hull		1		Neo		Nat	Woodlands
381	Ericaceae	<i>Orthilia secunda</i> (L.) House		D		Da		Cas	Woodlands
382	Euphorbiaceae	<i>Euphorbia cyparissias</i> L.		1		Neo		Cas	Synanthropic
383	Euphorbiaceae	<i>Euphorbia esula</i> L. subsp. <i>saratoi</i> (Ard.) P. Fourn.		1		Neo		Cas	Synanthropic
384	Euphorbiaceae	<i>Euphorbia hirta</i> L.		1		Neo		Cas	Agricultural
385	Euphorbiaceae	<i>Euphorbia humifusa</i> Willd.	1		Neo		Nat		Synanthropic
386	Euphorbiaceae	<i>Euphorbia lathyris</i> L.	1		Arch		Nat		Synanthropic
387	Euphorbiaceae	<i>Euphorbia maculata</i> L.	1	1	Neo	Neo	Inv	Inv	Synanthropic
388	Euphorbiaceae	<i>Euphorbia prostrata</i> Aiton	1	1	Neo	Neo	Cas	Inv	Synanthropic
389	Euphorbiaceae	<i>Euphorbia serpens</i> Kunth	1		Neo		Nat		Synanthropic
390	Euphorbiaceae	** <i>Euphorbia serpens</i> Kunth var. <i>serpens</i>		1		Neo		Inv	Synanthropic
391	Euphorbiaceae	<i>Ricinus communis</i> L.	1	1	Arch	Neo	Inv	Inv	Wetlands
392	Fabaceae	<i>Acacia baileyana</i> F. Muell.		1		Neo		Cas	Riparian
393	Fabaceae	<i>Acacia caven</i> (Molina) Molina	1		Neo		Cas		Riparian
394	Fabaceae	<i>Acacia cultriformis</i> Cunn.	1		Neo		Nat		Woodlands
395	Fabaceae	<i>Acacia dealbata</i> Link.	1	1	Neo	Neo	Nat	Inv	Woodlands
396	Fabaceae	**** <i>Acacia longifolia</i> (Andrews) Willd.	1	1	Neo	Neo	Cas	Cas	Woodlands

397	Fabaceae	<i>Acacia mearnsii</i> De Willd.	1	1	Neo	Neo	Inv	Nat	Riparian	
398	Fabaceae	<i>Acacia melanoxylon</i> R. Br.	1		Neo		Cas		Woodlands	
399	Fabaceae	<i>Acacia pycnantha</i> Benth.	1		Neo		Nat		Woodlands	
400	Fabaceae	*** <i>Acacia retinodes</i> Schltld.	1	1	Neo	Neo	Inv	Inv	Coastal	
401	Fabaceae	<i>Acacia saligna</i> (Labill.) H. L. Wendl.	1	1	Neo	Neo	Inv	Nat	Coastal	
402	Fabaceae	*** <i>Albizia julibrissin</i> Durazz.	1	1	Neo	Neo	Cas	Cas	Synanthropic	
403	Fabaceae	<i>Amorpha fruticosa</i> L.	1		Neo		Nat		Wetlands	
404	Fabaceae	<i>Anthyllis vulneraria</i> subsp. <i>carpatica</i> (Pant.) Nyman		1		Neo		Cas	Synanthropic	
405	Fabaceae	<i>Caesalpinia tinctoria</i> Domb. ex DC.	1		Neo		Cas		Synanthropic	
406	Fabaceae	<i>Ceratonia siliqua</i> L.	1	1	Da	Arch	Nat	Nat	Matorrals	
407	Fabaceae	<i>Cercis siliquastrum</i> L.	1	1	Arch	Arch	Cas	Nat	Woodlands	
408	Fabaceae	<i>Cicer arietinum</i> L.	1	1	Arch	Arch	Cas	Cas	Agricultural	
409	Fabaceae	<i>Coronilla valentina</i> subsp. <i>glauca</i> (L.) Batt		1			Neo		Cas	Matorrals
410	Fabaceae	<i>Cytisus multiflorus</i> (L'Hér.) Sweet		1			Neo		Cas	Matorrals
411	Fabaceae	<i>Cytisus scoparius</i> (L.) Link subsp. <i>scoparius</i>	1		Da			Nat		Matorrals
412	Fabaceae	<i>Cytisus striatus</i> (Hill) Rothm.		1			Neo		Inv	Matorrals
413	Fabaceae	<i>Erythrostemon gilliesii</i> (Wall. ex Hook.) Klotzsch	1		Neo			Cas		Synanthropic
414	Fabaceae	<i>Galega officinalis</i> L.	1	1	Arch	Arch	Cas	Cas	Riparian	
415	Fabaceae	<i>Genista aetnensis</i> (Biv.) DC.		1			Da		Nat	Matorrals
416	Fabaceae	<i>Genista ephedroides</i> DC.		1			Neo		Nat	Matorrals
417	Fabaceae	*** <i>Genista januensis</i> subsp. <i>lydia</i> (Boiss.) Kit Tan & Zielinski		1			Neo		Cas	Synanthropic
418	Fabaceae	<i>Genista linifolia</i> L.	1	1	Da	Da	Nat	Nat	Matorrals	
419	Fabaceae	<i>Genista tinctoria</i> L.		D			Neo		Cas	Coastal
420	Fabaceae	<i>Gleditsia triacanthos</i> L.	1	1	Neo	Neo	Cas	Cas	Matorrals	
421	Fabaceae	<i>Glycyrrhiza glabra</i> L.	1		Arch			Nat		Agricultural
422	Fabaceae	<i>Haematoxylum campechianum</i> L.	D		Neo			Cas		Agricultural
423	Fabaceae	<i>Laburnum anagyroides</i> Medik.		1			Neo		Cas	Woodlands
424	Fabaceae	<i>Lathyrus odoratus</i> L.	1		Neo			Cas		Synanthropic
425	Fabaceae	<i>Lathyrus sativus</i> L.	1	1	Arch	Arch	Cas	Nat	Synanthropic	

426	Fabaceae	<i>Lathyrus tingitanus</i> L.		1		Arch		Cas	Matorrals
427	Fabaceae	<i>Lens culinaris</i> Medik.	1	1	Arch	Arch	Cas	Cas	Synanthropic
428	Fabaceae	<i>Lupinus albus</i> L. subsp. <i>albus</i>	1	1	Arch	Arch	Cas	Nat	Agricultural
429	Fabaceae	<i>Lupinus luteus</i> L.		1		Da		Nat	Agricultural
430	Fabaceae	<i>Lupinus pilosus</i> L.		1		Arch		Nat	Synanthropic
431	Fabaceae	<i>Medicago arborea</i> L.	1	1	Arch	Neo	Nat	Inv	Coastal
432	Fabaceae	<i>Medicago falcata</i> L.		1		Arch		Cas	Synanthropic
433	Fabaceae	<i>Medicago laciniata</i> (L.) Mill. subsp. <i>laciniata</i>		1		Da		Nat	Synanthropic
434	Fabaceae	<i>Medicago rugosa</i> Desr.		1		Da		Nat	Synanthropic
435	Fabaceae	<i>Medicago sativa</i> L.	1	1	Arch	Arch	Nat	Nat	Agricultural
436	Fabaceae	<i>Medicago soleirolii</i> Duby	1		Arch		Cas		Synanthropic
437	Fabaceae	** <i>Medicago</i> × <i>varia</i> Martyn	1		Arch		Cas		Synanthropic
438	Fabaceae	<i>Melilotus albus</i> Medik.		1		Neo		Nat	Synanthropic
439	Fabaceae	<i>Melilotus officinalis</i> Lam.		1		Arch		Cas	Synanthropic
440	Fabaceae	<i>Melilotus siculus</i> (Turra) B.D. Jacks.	1		Da			Inv	Synanthropic
441	Fabaceae	<i>Onobrychis viciifolia</i> Scop.	1	1	Arch	Arch	Cas	Cas	Synanthropic
442	Fabaceae	<i>Ononis spinosa</i> L. subsp. <i>spinosa</i>		1		Neo		Cas	Synanthropic
443	Fabaceae	<i>Paraserianthes lophantha</i> (Willd.) I.C. Nielsen	1	1	Neo	Neo	Nat	Inv	Wetlands
444	Fabaceae	<i>Parkinsonia aculeata</i> L.	1		Neo		Nat		Woodlands
445	Fabaceae	<i>Phaseolus vulgaris</i> L.	1	1	Neo	Neo	Cas	Cas	Agricultural
446	Fabaceae	<i>Pisum sativum</i> L. subsp. <i>biflorum</i> (Raf.) Soldano	1		Arch		Nat		Synanthropic
447	Fabaceae	<i>Pisum sativum</i> L. subsp. <i>sativum</i>	1	1	Arch	Arch	Cas	Cas	Agricultural
448	Fabaceae	<i>Retama monosperma</i> (L.) Boiss.	1	1	Neo	Neo	Cas	Cas	Synanthropic
449	Fabaceae	<i>Robinia pseudoacacia</i> L.	1	1	Neo	Neo	Nat	Inv	Synanthropic
450	Fabaceae	<i>Securigera varia</i> (L.) Lassen		1		Arch		Cas	Synanthropic
451	Fabaceae	<i>Senegalia visco</i> (Lorentz ex Griseb.) Seigler et Ebinger	1		Neo		Nat		Riparian
452	Fabaceae	** <i>Senna corymbosa</i> (Lam.) H.S. Irwin & Barneby	1		Neo		Cas		Synanthropic
453	Fabaceae	<i>Sesbania punicea</i> (Cav.) Benth.	1	1	Neo	Neo	Nat	Inv	Synanthropic
454	Fabaceae	<i>Spartium junceum</i> L.	1	1	Da	Da	Nat	Nat	Matorrals

455	Fabaceae	<i>Sulla coronaria</i> (L.) Medik.	1	1	Arch	Arch	Nat	Nat	Agricultural
456	Fabaceae	<i>Trifolium alexandrinum</i> L.	1		Arch		Nat		Agricultural
457	Fabaceae	<i>Trifolium incarnatum</i> L. subsp. <i>incarnatum</i>	1	1	Arch	Arch	Nat	Cas	Agricultural
458	Fabaceae	<i>Trifolium pratense</i> L. subsp. <i>sativum</i> Schreb.		1		Arch		Cas	Agricultural
459	Fabaceae	<i>Trigonella foenum-graecum</i> L.	1		Arch		Cas		Agricultural
460	Fabaceae	**** <i>Ulex europaeus</i> L.		1			Neo		Inv
461	Fabaceae	**** <i>Vachellia farnesiana</i> (L.) Wight & Arn.	1	1	Neo	Neo	Nat	Cas	Woodlands
462	Fabaceae	<i>Vachellia karroo</i> (Hayne) Banfi & Galasso	1	1	Neo	Neo	Nat	Inv	Coastal
463	Fabaceae	<i>Vicia faba</i> L.	1	1	Arch	Arch	Nat	Cas	Agricultural
464	Fabaceae	<i>Vicia sativa</i> L. subsp. <i>sativa</i>	1		Arch		Nat		Agricultural
465	Fabaceae	**** <i>Wisteria sinensis</i> (Sims) Sweet	1	1	Neo	Neo	Nat	Cas	Synanthropic
466	Fagaceae	<i>Castanea sativa</i> Mill.	1		Arch		Nat		Woodlands
467	Fagaceae	<i>Fagus sylvatica</i> L. subsp. <i>sylvatica</i>	1		Arch		Cas		Woodlands
468	Fagaceae	<i>Quercus robur</i> L. subsp. <i>robur</i>	1		Arch		Cas		Woodlands
469	Garryaceae	* <i>Aucuba japonica</i> Thunb.	1		Neo		Cas		Synanthropic
470	Geraniaceae	** <i>Geranium sanguineum</i> L.	1	1	Neo	Neo	Cas	Cas	Synanthropic
471	Geraniaceae	<i>Pelargonium capitatum</i> (L.) L'Her. ex Ait.	1		Neo		Cas		Synanthropic
472	Geraniaceae	<i>Pelargonium graveolens</i> L'Hér.		1		Neo		Cas	Synanthropic
473	Geraniaceae	** <i>Pelargonium</i> × <i>hortorum</i> L.H. Bailey	1		Neo		Cas		Synanthropic
474	Geraniaceae	<i>Pelargonium zonale</i> (L.) Aiton	1		Neo		Cas		Coastal
475	Grossulariaceae	<i>Ribes rubrum</i> L.		1		Neo		Cas	Synanthropic
476	Haloragaceae	<i>Myriophyllum aquaticum</i> (Vell.) Verdc.		1		Neo		Inv	Wetlands
477	Hydrocharitaceae	<i>Elodea canadensis</i> Michx		1		Neo		Inv	Wetlands
478	Hydrocharitaceae	<i>Najas graminea</i> Delile var. <i>graminea</i>		1		Da		Cas	Wetlands
479	Hypericaceae	<i>Hypericum androsaemum</i> L.	1		Neo		Cas		Synanthropic
480	Hypericaceae	<i>Hypericum calycinum</i> L.	1		Neo		Cas		Synanthropic
481	Iridaceae	<i>Chasmanthe bicolor</i> (Gasp. ex Vis.) N.E.Br.		1			Neo		Cas
482	Iridaceae	<i>Chasmanthe aethiopica</i> (L.) N.E.Br.	1		Neo			Inv	Synanthropic
483	Iridaceae	* <i>Chasmanthe floribunda</i> (Salisb.) N.E.Br.	1	1	Neo	Neo	Cas	Inv	Synanthropic

484	Iridaceae	<i>Crocus sativus</i> L.	1	D	Arch	Arch	Cas	Cas	Agricultural
485	Iridaceae	<i>Freesia alba</i> (G.L. Mey.) Gumbel.				Neo		Inv	Matorrals
486	Iridaceae	<i>Freesia refracta</i> (Jacq.) Ecklon ex Klatt	1		Neo		Cas		Synanthropic
487	Iridaceae	** <i>Iris albicans</i> Lange	1	1	Neo	Neo	Cas	Nat	Synanthropic
488	Iridaceae	<i>Iris germanica</i> L.	1	1	Arch	Arch	Nat	Nat	Synanthropic
489	Iridaceae	<i>Iris tuberosa</i> L.	1		Da				Synanthropic
490	Iridaceae	<i>Romulea rosea</i> (L.) Eckl.	D		Neo				Synanthropic
491	Iridaceae	<i>Sparaxis tricolor</i> (Schneev.) Ker Gawl.	1		Neo		Cas		Wetlands
492	Juglandaceae	<i>Juglans regia</i> L.	1	1	Da	Arch	Nat	Nat	Riparian
493	Juglandaceae	<i>Juncus tenuis</i> Willd.		1		Neo		Cas	Wetlands
494	Lamiaceae	<i>Galeopsis angustifolia</i> Hoffm.		1		Arch		Cas	Matorrals
495	Lamiaceae	<i>Galeopsis ladanum</i> L.		D		Arch		Cas	Matorrals
496	Lamiaceae	<i>Lavandula angustifolia</i> Mill.		1		Arch		Cas	Synanthropic
497	Lamiaceae	** <i>Lavandula dentata</i> L.	1		Neo		Cas		Synanthropic
498	Lamiaceae	<i>Mentha spicata</i> L.	1	1	Arch	Arch	Nat	Cas	Riparian
499	Lamiaceae	<i>Mentha × gentilis</i> hyb.		1		Neo		Cas	Riparian
500	Lamiaceae	<i>Mentha × piperita</i> L.	1	1	Arch	Arch	Cas	Cas	Riparian
501	Lamiaceae	<i>Mentha × rotundifolia</i> (L.) Huds.		1		Neo		Cas	Agricultural
502	Lamiaceae	<i>Nepeta cataria</i> L.	1		Da		Nat		Riparian
503	Lamiaceae	<i>Ocimum basilicum</i> L.	1	1	Arch	Arch	Cas	Cas	Agricultural
504	Lamiaceae	** <i>Origanum majorana</i> L.	1	1	Neo	Arch	Nat	Cas	Agricultural
505	Lamiaceae	<i>Origanum vulgare</i> L. subsp. <i>vulgare</i>	1		Arch		Cas		Agricultural
506	Lamiaceae	* <i>Origanum vulgare</i> L. subsp. <i>viridulum</i> (Martrin-Donos) Nyman	1		Arch		Cas		Synanthropic
507	Lamiaceae	** <i>Phlomis fruticosa</i> L.	D		Arch		Cas		Synanthropic
508	Lamiaceae	<i>Salvia aethiopsis</i> L.	1		Da				
509	Lamiaceae	<i>Salvia fruticosa</i> Mill.		1		Arch		Cas	Synanthropic
510	Lamiaceae	<i>Salvia microphylla</i> Kunth		1		Neo		Cas	Riparian
511	Lamiaceae	<i>Salvia officinalis</i> L.	1	1	Arch	Arch	Cas	Cas	Agricultural
512	Lamiaceae	<i>Salvia pratensis</i> L.		D		Da		Cas	Synanthropic

513	Lamiaceae	<i>Salvia tiliifolia</i> Vahl		1			Neo		Cas	Agricultural	
514	Lamiaceae	** <i>Satureja hortensis</i> L.	1	1	Neo		Neo	Cas	Cas	Agricultural	
515	Lamiaceae	<i>Teucrium fruticans</i> L. subsp. <i>fruticans</i>	1		Arch			Nat		Matorrals	
516	Lamiaceae	<i>Thymus vulgaris</i> L. subsp. <i>vulgaris</i>		1			Neo		Cas	Synanthropic	
517	Lauraceae	<i>Laurus nobilis</i> L.	1		Da			Inv		Woodlands	
518	Liliaceae	<i>Lilium candidum</i> L.	1	1	Arch		Arch	Nat	Cas	Synanthropic	
519	Liliaceae	<i>Tulipa agenensis</i> DC.	D	D	Neo		Neo		Cas	Agricultural	
520	Liliaceae	<i>Tulipa gesneriana</i> L.	D		Arch					Synanthropic	
521	Liliaceae	<i>Tulipa raddii</i> Reboul		D			Arch		Cas	Agricultural	
522	Linaceae	<i>Linum narbonense</i> L.		D			Da		Cas	Synanthropic	
523	Linaceae	<i>Linum usitatissimum</i> L.	1	D	Arch		Arch	Nat	Cas	Agricultural	
524	Lomariopsidaceae	<i>Nephrolepis exaltata</i> (L.) Schott	1		Neo				Cas	Riparian	
525	Lythraceae	<i>Ammannia auriculata</i> Willd.	1		Neo			Nat		Wetlands	
526	Lythraceae	<i>Ammannia verticillata</i> (Ard.) Lam.	1		Neo			Nat		Wetlands	
527	Lythraceae	<i>Punica granatum</i> L.	1	1	Arch		Arch	Nat	Cas	Agricultural	
528	Malvaceae	<i>Abutilon theophrasti</i> Medik.	1	1	Neo		Neo	Nat	Nat	Agricultural	
529	Malvaceae	** <i>Alcea biennis</i> Winterl	1		Neo				Cas	Synanthropic	
530	Malvaceae	<i>Alcea rosea</i> L.	1	1	Arch		Neo	Nat	Cas	Synanthropic	
531	Malvaceae	<i>Hibiscus rosa-sinensis</i> L.	1		Neo				Cas	Synanthropic	
532	Malvaceae	<i>Hibiscus syriacus</i> L.	1	1	Neo		Neo		Cas	Cas	Synanthropic
533	Malvaceae	<i>Hibiscus trionum</i> L.	1		Neo			Nat		Wetlands	
534	Malvaceae	<i>Lagunaria patersonia</i> (Andrews) G. Don	1		Neo				Cas	Coastal	
535	Malvaceae	<i>Malope malacoides</i> L.		D			Arch		Cas	Agricultural	
536	Malvaceae	<i>Malva moschata</i> L.		1			Arch		Cas	Synanthropic	
537	Malvaceae	<i>Malva trimestris</i> (L.) Salisb.		1			Da		Cas	Synanthropic	
538	Malvaceae	<i>Modiola caroliniana</i> (L.) G. Don		1			Neo		Nat	Wetlands	
539	Malvaceae	<i>Tilia platyphyllos</i> Scop. s.l.	1	1	Arch		Arch		Cas	Cas	Riparian
540	Malvaceae	<i>Tilia tomentosa</i> Moench		1			Arch		Cas	Riparian	
541	Malvaceae	<i>Tilia</i> × <i>vulgaris</i> Hayne	1		Arch				Cas	Riparian	

542	Martyniaceae	<i>*Proboscidea louisianica</i> (Mill.) Thell.	1		Neo		Cas		Synanthropic
543	Meliaceae	<i>Melia azedarach</i> L.	1	1	Neo	Neo	Cas	Cas	Synanthropic
544	Molluginaceae	<i>Glinus lotoides</i> L.	1	1	Neo	Neo	Inv	Nat	Wetlands
545	Molluginaceae	<i>Mollugo cerviana</i> (L.) Ser.	D		Arch				Wetlands
546	Montiaceae	<i>Claytonia perfoliata</i> Willd.		1		Neo		Nat	Riparian
547	Moraceae	<i>Broussonetia papyrifera</i> (L.) Vent.	1	1	Neo	Neo	Cas	Cas	Synanthropic
548	Moraceae	<i>Fatoua villosa</i> (Thunb.) Nakai		1		Neo		Cas	Agricultural
549	Moraceae	<i>Ficus carica</i> L.	1		Da		Nat		Woodlands
550	Moraceae	<i>Ficus elastica</i> Roxb.	1		Neo		Cas		Synanthropic
551	Moraceae	** <i>Ficus microcarpa</i> L.f.	1		Neo		Cas		Synanthropic
552	Moraceae	<i>Ficus retusa</i> L.	1		Neo		Cas		Synanthropic
553	Moraceae	<i>Maclura pomifera</i> (Rafin.) C.K. Schneider	1		Neo		Cas		Synanthropic
554	Moraceae	<i>Morus alba</i> L.	1	1	Arch	Neo	Cas	Cas	Riparian
555	Moraceae	*** <i>Morus kagayamae</i> Koidz.		1		Neo		Cas	Synanthropic
556	Moraceae	<i>Morus nigra</i> L.	1	1	Arch	Neo	Cas	Cas	Agricultural
557	Myrtaceae	<i>Eucalyptus botryoides</i> Sm.	1		Neo		Cas		Woodlands
558	Myrtaceae	<i>Eucalyptus camaldulensis</i> Dehnh.	1	1	Neo	Neo	Inv	Nat	Riparian
559	Myrtaceae	<i>Eucalyptus globulus</i> Labill.	1	1	Neo	Neo	Nat	Nat	Riparian
560	Myrtaceae	<i>Eucalyptus gomphocephala</i> D.C.	1		Neo		Cas		Woodlands
561	Myrtaceae	<i>Eucalyptus robusta</i> Sm.	1		Neo		Cas		Woodlands
562	Myrtaceae	<i>Eucalyptus rudis</i> Endl.	1		Neo		Cas		Woodlands
563	Myrtaceae	<i>Eucalyptus sideroxylon</i> A. Cunn. ex Wools	1		Neo		Cas		Woodlands
564	Myrtaceae	<i>Eucalyptus tereticornis</i> Sm.	1		Neo		Cas		Woodlands
565	Nyctaginaceae	<i>Bougainvillea spectabilis</i> Willd.	1		Neo		Cas		Synanthropic
566	Nyctaginaceae	<i>Mirabilis jalapa</i> L.	1	1	Neo	Neo	Inv	Inv	Synanthropic
567	Nymphaeaceae	** <i>Nuphar lutea</i> (L.) Sm.	1		Da				Wetlands
568	Nymphaeaceae	<i>Nymphaea flava</i> Leitner ex Audubon	1		Neo		Cas		Wetlands
569	Nymphaeaceae	<i>Nymphaea mexicana</i> Zucc.	1		Neo		Nat		Wetlands
570	Oleaceae	<i>Fraxinus excelsior</i> L. subsp. <i>excelsior</i>	1		Arch		Cas		Riparian

571	Oleaceae	<i>Jasminum officinale</i> L.	1	1	Arch	Arch	Cas	Cas	Synanthropic
572	Oleaceae	*** <i>Ligustrum lucidum</i> W.T. Aiton		1		Neo		Inv	Synanthropic
573	Oleaceae	<i>Ligustrum vulgare</i> L.	1		Arch		Cas		Synanthropic
574	Oleaceae	<i>Olea europaea</i> L.	1		Da		Inv		Matorrals
575	Oleaceae	<i>Syringa vulgaris</i> L.	1		Arch		Cas		Synanthropic
576	Onagraceae	<i>Ludwigia peploides</i> subsp. <i>montevidensis</i> (Spreng.) P.H. Raven		1			Neo		Inv Wetlands
577	Onagraceae	<i>Oenothera biennis</i> L.	1	1	Neo	Neo	Nat	Nat	Riparian
578	Onagraceae	<i>Oenothera glazioviana</i> Micheli	1	1	Neo	Neo	Cas	Cas	Synanthropic
579	Onagraceae	<i>Oenothera lindheimeri</i> (Engelm & A. Gray) W.L. Wagner & Hoch.		1			Neo		Cas Synanthropic
580	Onagraceae	*** <i>Oenothera rosea</i> L'Hér. ex Aiton	1	1	Neo	Neo	Cas	Cas	Riparian
581	Onagraceae	<i>Oenothera sinuosa</i> W.L. Wagner & Hoch	1		Neo		Cas		Wetlands
582	Onagraceae	<i>Oenothera stricta</i> Link	1	D	Neo	Neo	Nat	Cas	Agricultural
583	Orobanchaceae	<i>Rhinanthus alectorolophus</i> (Scop.) Pollich		1			Neo		Nat Synanthropic
584	Orobanchaceae	<i>Rhinanthus minor</i> L.		1			Neo		Nat Synanthropic
585	Oxalidaceae	<i>Oxalis articulata</i> Savigny	1	1	Neo	Neo	Inv	Inv	Synanthropic
586	Oxalidaceae	** <i>Oxalis bowiei</i> Lindl.	1	1	Neo	Neo	Nat	Cas	Synanthropic
587	Oxalidaceae	<i>Oxalis carnososa</i> Molina	1		Neo		Cas		Synanthropic
588	Oxalidaceae	<i>Oxalis corniculata</i> L.	1		Da		Nat		Synanthropic
589	Oxalidaceae	** <i>Oxalis debilis</i> Kunth	1	1	Neo	Neo	Cas	Cas	Synanthropic
590	Oxalidaceae	* <i>Oxalis dillenii</i> Jacq.	1		Neo		Nat		Synanthropic
591	Oxalidaceae	** <i>Oxalis latifolia</i> Kunth	1	1	Neo	Neo	Cas	Cas	Agricultural
592	Oxalidaceae	<i>Oxalis pes-caprae</i> L.	1	1	Neo	Neo	Inv	Inv	Synanthropic
593	Oxalidaceae	<i>Oxalis purpurata</i> Jacq.	D		Neo				Synanthropic
594	Oxalidaceae	<i>Oxalis purpurea</i> L. non Thunb.	1	1	Neo	Neo	Nat	Cas	Synanthropic
595	Oxalidaceae	<i>Oxalis stricta</i> L.	1	1	Neo	Neo	Inv	Cas	Synanthropic
596	Oxalidaceae	<i>Oxalis violacea</i> L. non Thunb.	1		Neo		Nat		Synanthropic
597	Papaveraceae	<i>Eschscholzia californica</i> Cham.		1			Neo		Cas Synanthropic
598	Papaveraceae	<i>Fumaria agraria</i> Lag.	1		Da		Nat		Agricultural
599	Papaveraceae	<i>Fumaria kralikii</i> Jord.	1		Arch		Cas		Agricultural

600	Papaveraceae	<i>Papaver argemone</i> L. subsp. <i>argemone</i>	1		Da		Nat		Agricultural	
601	Papaveraceae	<i>Papaver dubium</i> L. subsp. <i>dubium</i>	1		Da		Nat		Agricultural	
602	Papaveraceae	<i>Papaver hybridum</i> L.	1		Da		Nat		Agricultural	
603	Papaveraceae	<i>Papaver lecoqii</i> Lamotte	1		Arch		Cas		Agricultural	
604	Papaveraceae	<i>Papaver rhoeas</i> L. subsp. <i>rhoeas</i>	1		Da		Inv		Agricultural	
605	Papaveraceae	<i>Papaver setigerum</i> DC.	1		Da		Nat		Synanthropic	
606	Papaveraceae	<i>Papaver somniferum</i> L.	1		Arch		Nat		Synanthropic	
607	Papaveraceae	<i>Platycapnos spicatus</i> (L.) Bernh.	1		Da		Cas		Agricultural	
608	Passifloraceae	<i>Passiflora caerulea</i> L.	1	1	Neo	Neo	Cas	Cas	Synanthropic	
609	Paulowniaceae	<i>Paulownia tomentosa</i> (Thunb.) Steud.	1	1	Neo	Neo	Cas	Cas	Agricultural	
610	Phyllanthaceae	<i>Phyllanthus tenellus</i> Roxb.		1			Neo		Cas	Agricultural
611	Phytolaccaceae	<i>Phytolacca americana</i> L.	1	1	Neo	Neo	Inv	Inv	Synanthropic	
612	Phytolaccaceae	<i>Phytolacca dioica</i> L.	1	1	Neo	Neo	Cas	Cas	Synanthropic	
613	Pinaceae	<i>Abies alba</i> Mill.	1		Arch		Cas		Synanthropic	
614	Pinaceae	*** <i>Abies pinsapo</i> Boiss.		1			Neo		Nat	Synanthropic
615	Pinaceae	<i>Cedrus atlantica</i> (Endl.) Carrière	1	1	Neo	Neo	Cas	Cas	Woodlands	
616	Pinaceae	* <i>Cedrus deodara</i> (Roxb. ex Lamb.) G.Don	1		Neo		Cas		Woodlands	
617	Pinaceae	<i>Picea abies</i> (L.) H. Karst.		1			Arch		Cas	Woodlands
618	Pinaceae	<i>Pinus brutia</i> Ten.	1		Neo		Cas		Woodlands	
619	Pinaceae	<i>Pinus canariensis</i> C. Sm.	1		Neo		Cas		Woodlands	
620	Pinaceae	<i>Pinus halepensis</i> Mill.	1	1	Da	Neo		Inv	Woodlands	
621	Pinaceae	<i>Pinus nigra</i> J.F. Arnold subsp. <i>laricio</i> (Poirot) Maire	1		Arch		Cas		Woodlands	
622	Pinaceae	<i>Pinus pinaster</i> Aiton subsp. <i>pinaster</i>	1		Arch		Nat		Woodlands	
623	Pinaceae	<i>Pinus pinea</i> L.	1	1	Arch	Arch	Nat	Nat	Coastal	
624	Pinaceae	<i>Pinus radiata</i> D. Don	1		Neo		Cas		Woodlands	
625	Pinaceae	<i>Pinus sylvestris</i> L.	1		Arch		Cas		Woodlands	
626	Pinaceae	<i>Pseudotsuga menziesii</i> (Mirb.) Franco	1	1	Neo	Neo	Cas	Cas	Woodlands	
627	Pittosporaceae	<i>Pittosporum tobira</i> (Thunb.) W.T. Aiton	1	1	Neo	Neo	Cas	Inv	Coastal	
628	Pittosporaceae	<i>Pittosporum undulatum</i> Vent.	D		Neo					

629	Plantaginaceae	**** <i>Antirrhinum latifolium</i> Mill.		1			Neo		Nat	Synanthropic	
630	Plantaginaceae	<i>Antirrhinum majus</i> L. subsp. <i>majus</i>	1	1	Arch		Neo	Nat	Nat	Synanthropic	
631	Plantaginaceae	** <i>Antirrhinum majus</i> subsp. <i>tortuosum</i> (Lam.) Rouy	1		Da			Nat			
632	Plantaginaceae	<i>Antirrhinum siculum</i> Mill.	1		Da			Cas		Synanthropic	
633	Plantaginaceae	<i>Cymbalaria muralis</i> P. Gaertn., B. Mey. & Scherb. subsp. <i>muralis</i>	1	1	Da		Neo	Nat	Inv	Synanthropic	
634	Plantaginaceae	<i>Gratiola officinalis</i> L.		1			Arch		Cas	Riparian	
635	Plantaginaceae	<i>Kickxia lanigera</i> (Desf.) Hand.-Mazz.		1			Da		Cas	Coastal	
636	Plantaginaceae	<i>Linaria reflexa</i> (L.) Desf.		1			Arch		Cas	Synanthropic	
637	Plantaginaceae	* <i>Linaria vulgaris</i> Mill.	1	1	Da		Da	Nat	Inv	Synanthropic	
638	Plantaginaceae	<i>Plantago loeflingii</i> L.	1		Da			Cas			
639	Plantaginaceae	<i>Veronica beccabunga</i> L.		1			Arch		Nat	Wetlands	
640	Plantaginaceae	*** <i>Veronica filiformis</i> Sm.		1			Neo		Nat	Synanthropic	
641	Plantaginaceae	<i>Veronica peregrina</i> L. subsp. <i>peregrina</i>	D				Neo				
642	Plantaginaceae	<i>Veronica persica</i> Poir.	1	1	Arch		Arch	Nat	Nat	Agricultural	
643	Platanaceae	<i>Platanus</i> × <i>hispanica</i> Mill. ex Münchh.	1	1			Neo	Neo	Cas	Nat	Synanthropic
644	Plumbaginaceae	<i>Limoniastrum monopetalum</i> (L.) Boiss.		1				Arch		Cas	Coastal
645	Plumbaginaceae	<i>Plumbago auriculata</i> Blume	1				Neo		Nat	Synanthropic	
646	Poaceae	<i>Aegilops caudata</i> L.	D						Cas	Agricultural	
647	Poaceae	<i>Aegilops triuncialis</i> L.		1				Da		Synanthropic	
648	Poaceae	<i>Aegilops ventricosa</i> Tausch		D				Arch		Cas	Synanthropic
649	Poaceae	<i>Alopecurus myosuroides</i> Huds.		1				Arch		Nat	Agricultural
650	Poaceae	<i>Apera spica-venti</i> (L.) P. Beauv.		D				Da		Cas	Synanthropic
651	Poaceae	<i>Arrhenatherum elatius</i> (L.) J. Presl & C. Presl subsp. <i>elatius</i>		1				Da		Nat	Synanthropic
652	Poaceae	<i>Arrhenatherum elatius</i> subsp. <i>bulbosum</i> (Willd.) Schübl. & G. Martens		1				Da		Nat	Synanthropic
653	Poaceae	** <i>Arundo collina</i> Ten.	1						Cas		Synanthropic
654	Poaceae	<i>Arundo donax</i> L.	1	1	Arch		Arch	Inv	Inv	Wetlands	
655	Poaceae	<i>Avena sativa</i> L.	1	1	Arch		Arch	Nat	Cas	Agricultural	
656	Poaceae	<i>Avena sterilis</i> subsp. <i>ludoviciana</i> (Durieu) Nyman		1				Da		Synanthropic	
657	Poaceae	<i>Avena strigosa</i> Schreb.		D				Arch		Cas	Synanthropic

658	Poaceae	<i>Bothriochloa barbinodis</i> (Lag.) Herter		1			Neo	Nat	Synanthropic	
659	Poaceae	<i>Briza media</i> L.		1			Arch	Cas	Agricultural	
660	Poaceae	<i>Bromus alopecuroides</i> Poir. subsp. <i>alopecuroides</i>		1			Neo	Cas	Synanthropic	
661	Poaceae	<i>Bromus alopecuroides</i> subsp. <i>caroli-henrici</i> (Greuter) P.M. Sm.		1			Neo	Cas	Coastal	
662	Poaceae	<i>Bromus catharticus</i> Vahl		1			Neo	Inv	Synanthropic	
663	Poaceae	<i>Bromus erectus</i> Huds. subsp. <i>erectus</i>		1			Neo	Nat	Synanthropic	
664	Poaceae	<i>Bromus erectus</i> subsp. <i>longiflorus</i> (Willd.) Arcang.		1			Neo	Cas	Synanthropic	
665	Poaceae	<i>Bromus inermis</i> Leyss.		D			Neo	Cas	Synanthropic	
666	Poaceae	<i>Bromus secalinus</i> L. subsp. <i>secalinus</i>		1			Da	Cas	Agricultural	
667	Poaceae	<i>Cenchrus clandestinus</i> (Hochst. ex Chiov.) Morrone		1			Neo	Inv	Coastal	
668	Poaceae	<i>Cenchrus longisetus</i> M. C. Johnst.	1	1		Neo	Neo	Inv	Inv	Synanthropic
669	Poaceae	<i>Cenchrus longispinus</i> (Hack.) Fernald		1			Neo		Inv	Coastal
670	Poaceae	<i>Cenchrus setaceus</i> (Forssk.) Morrone	1			Neo		Inv		Synanthropic
671	Poaceae	** <i>Ceratochloa cathartica</i> (Vahl) Herter	1			Neo		Cas		Synanthropic
672	Poaceae	<i>Chloris gayana</i> Kunth	1			Neo		Cas		Wetlands
673	Poaceae	<i>Cortaderia selleana</i> (Schult.) Asch. et Graebn.	1	1		Neo	Neo	Inv	Inv	Wetlands
674	Poaceae	<i>Crypsis aculeata</i> (L.) Aiton	1			Da		Nat		Wetlands
675	Poaceae	<i>Crypsis schoenoides</i> (L.) Lam.	1			Da		Nat		Wetlands
676	Poaceae	**** <i>Cynosurus echinatus</i> L. var. <i>giganteus</i> Salis		1			Neo		Cas	Agricultural
677	Poaceae	<i>Dactyloctenium aegyptium</i> (L.) Richt.	1			Neo		Nat		Wetlands
678	Poaceae	*** <i>Digitaria ciliaris</i> (Retz.) Koeler	1	1		Neo	Neo	Nat	Cas	Synanthropic
679	Poaceae	*** <i>Digitaria violascens</i> Link		1			Neo		Cas	Synanthropic
680	Poaceae	<i>Echinochloa colona</i> (L.) Link	1	1		Neo	Neo	Nat	Cas	Wetlands
681	Poaceae	<i>Echinochloa crus-galli</i> (L.) P. Beauv. subsp. <i>Crusgalli</i>	1			Neo		Nat		Wetlands
682	Poaceae	** <i>Echinochloa crus-galli</i> (L.) Beauv. var. <i>praticola</i> Ohwi	1			Neo		Cas		Wetlands
683	Poaceae	<i>Echinochloa oryzicola</i> (Vasinger) Vasinger	1			Neo		Cas		Wetlands
684	Poaceae	<i>Echinochloa oryzoides</i> (Ard.) Fritsch.	1			Neo		Nat		Wetlands
685	Poaceae	<i>Ehrharta erecta</i> Lam.	1			Neo		Nat		Wetlands
686	Poaceae	<i>Eleusine indica</i> (L.) Gaertn. subsp. <i>indica</i>	1	1		Neo	Neo	Nat	Cas	Agricultural

687	Poaceae	<i>Eleusine tristachya</i> (Lam.) Lam.		1			Neo		Cas	Riparian	
688	Poaceae	<i>Elytrigia elongata</i> subsp. <i>pontica</i> (Podp.) Gamisans			1		Neo		Cas	Synanthropic	
689	Poaceae	** <i>Eragrostis curvula</i> (Schrad.) Nees	1			Neo			Cas	Synanthropic	
690	Poaceae	<i>Eragrostis mexicana</i> (Hornem.) Link subsp. <i>mexicana</i>			1		Neo		Cas	Synanthropic	
691	Poaceae	<i>Eragrostis mexicana</i> subsp. <i>virescens</i> (J. Presl) S. D. Koch & Sánchez Vega			1		Neo		Cas	Synanthropic	
692	Poaceae	<i>Festuca rubra</i> L. subsp. <i>rubra</i> var. <i>rubra</i>			1		Arch		Cas	Synanthropic	
693	Poaceae	<i>Festuca rubra</i> subsp. <i>juncea</i> (Hack.) K. Richt.			D		Arch		Cas	Agricultural	
694	Poaceae	<i>Hordeum secalinum</i> Schreb.			D		Da		Cas	Matorrals	
695	Poaceae	<i>Hordeum vulgare</i> L.	1	1		Arch	Arch	Nat	Cas	Agricultural	
696	Poaceae	<i>Lolium temulentum</i> L. subsp. <i>temulentum</i>			1		Arch		Cas	Agricultural	
697	Poaceae	<i>Nassella trichotoma</i> (Nees) Hack. & Arechav.			1		Neo		Inv	Synanthropic	
698	Poaceae	<i>Oryza sativa</i> L.	1			Arch			Cas	Wetlands	
699	Poaceae	<i>Panicum capillare</i> L.			1		Neo		Inv	Wetlands	
700	Poaceae	** <i>Panicum dichotomiflorum</i> Michx	1	1		Neo	Neo	Nat	Cas	Wetlands	
701	Poaceae	<i>Panicum miliaceum</i> L.	1	1		Arch	Arch	Cas	Cas	Wetlands	
702	Poaceae	<i>Paspalum dilatatum</i> Poir.	1	1		Neo	Neo	Nat	Inv	Wetlands	
703	Poaceae	<i>Paspalum distichum</i> L.	1	1		Neo	Neo	Inv	Inv	Wetlands	
704	Poaceae	<i>Paspalum notatum</i> Flügge			1		Neo		Cas	Agricultural	
705	Poaceae	*** <i>Paspalum vaginatum</i> Sw.	1	1		Neo	Neo	Nat	Cas	Coastal	
706	Poaceae	<i>Phalaris canariensis</i> L.	1	1		Neo	Neo	Inv	Nat	Agricultural	
707	Poaceae	<i>Phalaris paradoxa</i> L.			1		Da		Nat	Agricultural	
708	Poaceae	<i>Phyllostachys aurea</i> Rivière & C. Rivière			1		Neo		Inv	Riparian	
709	Poaceae	<i>Saccharum officinarum</i> L.	1			Arch			Cas	Agricultural	
710	Poaceae	<i>Schismus barbatus</i> (L.) Thell.			D		Da		Cas	Synanthropic	
711	Poaceae	<i>Secale cereale</i> L. subsp. <i>cereale</i>	1	1		Arch	Arch	Cas	Cas	Agricultural	
712	Poaceae	<i>Setaria adhaerens</i> (Forssk.) Chiov.			1		Neo	Neo	Nat	Nat	Synanthropic
713	Poaceae	<i>Setaria italica</i> (L.) P. Beauv. s.l.	1	1		Arch	Neo	Nat	Nat	Agricultural	
714	Poaceae	<i>Setaria italica</i> (L.) P. Beauv. subsp. <i>italica</i>	1			Arch			Nat	Agricultural	
715	Poaceae	<i>Setaria parviflora</i> (Poir.) Kerguelen	1	1		Neo	Neo	Cas	Inv	Synanthropic	

716	Poaceae	<i>Setaria pumila</i> (Poir.) Roem. & Schult.	1		Arch		Nat		Synanthropic
717	Poaceae	*** <i>Setaria verticillata</i> (L.) P. Beauv.	1	1	Da	Neo	Nat	Nat	Synanthropic
718	Poaceae	*** <i>Setaria verticillata</i> var. <i>ambigua</i> (Guss.) Parl.		1		Neo		Nat	Synanthropic
719	Poaceae	<i>Setaria viridis</i> (L.) P. Beauv. subsp. <i>viridis</i>	1		Arch		Nat		Synanthropic
720	Poaceae	* <i>Setaria viridis</i> subsp. <i>pynocoma</i> (Steud.) Tzvelev	1	1	Da	Neo	Cas	Nat	Agricultural
721	Poaceae	<i>Sorghum bicolor</i> (L.) Moench	1	1	Arch	Arch	Cas	Cas	Agricultural
722	Poaceae	<i>Sorghum halepense</i> (L.) Pers.	1	1	Arch	Arch	Inv	Nat	Synanthropic
723	Poaceae	<i>Spartina versicolor</i> E. Fabre		1		Da		Nat	Coastal
724	Poaceae	<i>Sporobolus indicus</i> (L.) R.Br.		1		Neo		Nat	Riparian
725	Poaceae	<i>Stenotaphrum secundatum</i> (Walter) Kuntze	1	1	Neo	Neo	Cas	Nat	Synanthropic
726	Poaceae	<i>Stipa neesiana</i> Trin. & Rupr.		1		Neo		Inv	Synanthropic
727	Poaceae	<i>Trisetum flavescens</i> (L.) P. Beauv. subsp. <i>flavescens</i>		1		Da		Cas	Synanthropic
728	Poaceae	<i>Triticum aestivum</i> L.	1	1	Arch	Arch	Cas	Cas	Agricultural
729	Poaceae	** <i>Triticum durum</i> Desf.	1		Arch		Nat		Agricultural
730	Poaceae	<i>Triticum turgidum</i> L.		D		Arch		Cas	Agricultural
731	Poaceae	<i>Zea mays</i> L.	1	1	Neo	Neo	Cas	Cas	Wetlands
732	Polygalaceae	<i>Polygala myrtifolia</i> L.	1	1	Neo	Neo	Cas	Inv	Synanthropic
733	Polygonaceae	<i>Emex spinosa</i> (L.) Campd.		1		Neo		Nat	Synanthropic
734	Polygonaceae	<i>Fallopia baldschuanica</i> (Regel) Holub	1		Neo		Cas		Synanthropic
735	Polygonaceae	<i>Fallopia dumetorum</i> (L.) Holub	1		Arch		Cas		Agricultural
736	Polygonaceae	<i>Persicaria capitata</i> (D. Don) H. Gross		1		Neo		Cas	Synanthropic
737	Polygonaceae	<i>Reynoutria japonica</i> Houtt.		1		Neo		Inv	Wetlands
738	Polygonaceae	*** <i>Reynoutria</i> × <i>bohemica</i> Chrtek & Chrtkova		1		Neo		Inv	Wetlands
739	Polygonaceae	<i>Rumex acetosa</i> L. subsp. <i>acetosa</i>	1		Arch		Nat		Agricultural
740	Polygonaceae	<i>Rumex lunaria</i> L.	1		Neo		Nat		Synanthropic
741	Pontederiaceae	<i>Eichhornia crassipes</i> (Mart.) Solms	1	1	Neo	Neo	Inv	Cas	Wetlands
742	Pontederiaceae	<i>Heteranthera limosa</i> Willd.	1		Neo		Nat		Wetlands
743	Pontederiaceae	<i>Heteranthera rotundifolia</i> (Kunth) Griseb.	1		Neo		Nat		Wetlands
744	Portulacaceae	<i>Portulaca grandiflora</i> Hook.	1		Neo		Cas		Synanthropic

745	Portulacaceae	<i>Portulaca oleracea</i> L. subsp. <i>oleracea</i>	1	1	Da	Arch	Inv	Nat	Agricultural
746	Portulacaceae	<i>Portulaca oleracea</i> L. subsp. <i>sativa</i>		1		Arch		Cas	Synanthropic
747	Portulacaceae	<i>Talinum paniculatum</i> Gaertn.	1		Neo		Cas		Synanthropic
748	Primulaceae	** <i>Cyclamen persicum</i> Mill.	1		Neo		Cas		Synanthropic
749	Primulaceae	<i>Primula veris</i> L.		1		Neo		Cas	Woodlands
750	Ranunculaceae	<i>Adonis aestivalis</i> L. subsp. <i>aestivalis</i>		D		Arch			Agricultural
751	Ranunculaceae	<i>Adonis aestivalis</i> L. subsp. <i>squarrosa</i> (Steven) Nyman	1		Da		Cas		Agricultural
752	Ranunculaceae	*** <i>Adonis annua</i> L. subsp. <i>cupaniana</i> (Guss.) C. Steinb.		1		Arch		Cas	Agricultural
753	Ranunculaceae	<i>Anemone coronaria</i> L.		1		Neo		Cas	Synanthropic
754	Ranunculaceae	<i>Anemone nemorosa</i> L.		1		Da		Nat	Woodlands
755	Ranunculaceae	<i>Delphinium ajacis</i> L.	1		Arch		Nat		Synanthropic
756	Ranunculaceae	<i>Delphinium consolida</i> L.	1		Arch		Nat		Synanthropic
757	Ranunculaceae	<i>Nigella sativa</i> L.	1		Arch		Cas		Agricultural
758	Ranunculaceae	<i>Ranunculus acris</i> L. subsp. <i>acris</i>	1	1	Da	Neo	Cas	Cas	Synanthropic
759	Ranunculaceae	<i>Ranunculus arvensis</i> L.	1	D	Da	Da	Cas		Agricultural
760	Ranunculaceae	<i>Ranunculus serpens</i> Schrank subsp. <i>nemosus</i> (DC.) G. López	1		Da				Wetlands
761	Rhamnaceae	<i>Paliurus spina-christi</i> Mill.	1	1	Arch	Arch	Cas	Cas	Synanthropic
762	Rhamnaceae	<i>Rhamnus cathartica</i> L.		1		Da		Nat	Woodlands
763	Rhamnaceae	<i>Ziziphus lotus</i> (L.) Lam.	1		Da				
764	Rhamnaceae	<i>Ziziphus zizyphus</i> (L.) H. Karst.	1		Arch		Nat		Agricultural
765	Rosaceae	<i>Cotoneaster horizontalis</i> Decne	1		Neo		Cas		Synanthropic
766	Rosaceae	<i>Crataegus azarolus</i> L.	1		Arch		Cas		Synanthropic
767	Rosaceae	<i>Crataegus crus-galli</i> L.		1		Neo		Cas	Synanthropic
768	Rosaceae	<i>Crataegus germanica</i> (L.) Kuntze	1	1	Arch	Arch	Nat	Cas	Agricultural
769	Rosaceae	<i>Cydonia oblonga</i> Mill.	1	1	Arch	Arch	Cas	Cas	Agricultural
770	Rosaceae	<i>Eriobotrya japonica</i> (Thunb.) Lindl.	1	1	Arch	Arch	Cas	Cas	Agricultural
771	Rosaceae	<i>Fragaria × ananassa</i> (Weston) Decne. & Naudin		1		Neo		Cas	Agricultural
772	Rosaceae	<i>Malus dasyphylla</i> Borkh.	D		Arch				Woodlands
773	Rosaceae	<i>Malus pumila</i> Mill.	1		Arch		Cas		Agricultural

774	Rosaceae	<i>Potentilla indica</i> (Andrews) Th. Wolf	1		Neo		Nat		Wetlands
775	Rosaceae	<i>Prunus armeniaca</i> L.	1		Arch		Cas		Agricultural
776	Rosaceae	<i>Prunus avium</i> L. subsp. <i>avium</i>	1		Arch		Cas		Agricultural
777	Rosaceae	<i>Prunus cerasus</i> L.	1		Arch		Cas		Agricultural
778	Rosaceae	<i>Prunus coccomilia</i> Ten.	1		Arch		Cas		Agricultural
779	Rosaceae	<i>Prunus domestica</i> L. subsp. <i>domestica</i>	1	1	Arch	Arch	Cas	Cas	Agricultural
780	Rosaceae	<i>Prunus domestica</i> L. subsp. <i>insititia</i> (L.) Bonnier et Layens	1	1	Arch	Arch	Cas	Cas	Agricultural
781	Rosaceae	<i>Prunus dulcis</i> (Mill.) D.A. Webb	1	1	Arch	Arch	Cas	Cas	Agricultural
782	Rosaceae	<i>Prunus laurocerasus</i> L.		1			Neo		Inv Agricultural
783	Rosaceae	* <i>Prunus mahaleb</i> L.	1	1	Arch	Arch	Nat	Cas	Woodlands
784	Rosaceae	<i>Prunus persica</i> (L.) Batsch	1		Arch		Cas		Agricultural
785	Rosaceae	<i>Pyracantha coccinea</i> M. Roem.	1	1	Da		Neo	Cas	Inv Synanthropic
786	Rosaceae	<i>Pyrus communis</i> L.	1	1	Arch	Arch	Cas	Cas	Matorrals
787	Rosaceae	<i>Rosa gallica</i> L.	D		Arch		Cas		Synanthropic
788	Rosaceae	<i>Rubus idaeus</i> L. subsp. <i>idaeus</i>	1		Arch		Cas		Wetlands
789	Rosaceae	<i>Sorbus domestica</i> L.	1		Da				Woodlands
790	Rubiaceae	<i>Galium verum</i> L. subsp. <i>verum</i>		1			Neo		Cas Synanthropic
791	Rubiaceae	<i>Rubia tinctorum</i> L.	1		Arch		Cas		Synanthropic
792	Ruscaceae	<i>Ruscus hypoglossum</i> L.	1		Arch		Nat		Synanthropic
793	Rutaceae	<i>Citrus aurantium</i> L.	1		Arch		Cas		Agricultural
794	Rutaceae	<i>Citrus limon</i> (L.) Burm.	1		Arch		Cas		Agricultural
795	Salicaceae	<i>Populus deltoides</i> W. Bartram ex Marshall	1		Neo		Nat		Riparian
796	Salicaceae	<i>Populus</i> × <i>canadensis</i> Moench	1		Neo		Cas		Riparian
797	Salicaceae	<i>Populus</i> × <i>canescens</i> (Aiton) Sm.		1			Neo		Nat Riparian
798	Salicaceae	<i>Salix babylonica</i> L.	1	1	Neo	Neo	Cas	Cas	Riparian
799	Salicaceae	<i>Salix fragilis</i> L.	1		Neo		Cas		Riparian
800	Salviniaceae	<i>Azolla filiculoides</i> Lam.	1	1	Neo	Neo	Inv	Inv	Wetlands
801	Salviniaceae	<i>Salvinia molesta</i> D. S. Mitchell	1	1	Neo	Neo	Nat	Inv	Riparian
802	Sapindaceae	<i>Acer campestre</i> L.	1	1	Arch	Da	Nat	Nat	Synanthropic

803	Sapindaceae	<i>Acer negundo</i> L.	1	1	Neo	Neo	Cas	Inv	Riparian
804	Sapindaceae	<i>Acer platanoides</i> L.		1		Neo		Nat	Woodlands
805	Sapindaceae	<i>Acer pseudoplatanus</i> L.	1		Neo		Cas		Riparian
806	Sapindaceae	<i>Aesculus hippocastanum</i> L.	1		Neo		Cas		Woodlands
807	Sapindaceae	<i>Cardiospermum halicacabum</i> L.	1		Neo		Cas		Synanthropic
808	Scrophulariaceae	<i>Buddleja davidii</i> Franch.		1		Neo		Inv	Synanthropic
809	Scrophulariaceae	<i>Myoporum insulare</i> R. Br.	1	1	Neo	Neo	Cas	Cas	Coastal
810	Scrophulariaceae	<i>Myoporum laetum</i> G. Forst	1	1	Neo	Neo	Nat	Cas	Coastal
811	Scrophulariaceae	<i>Myoporum tenuifolium</i> G. Forst.	D		Neo				Coastal
812	Scrophulariaceae	<i>Myoporum tetrandrum</i> (Labill.) Domin	1		Neo		Nat		Coastal
813	Scrophulariaceae	<i>Russelia equisetiformis</i> Schlecht. et Cham.	1		Neo		Cas		Synanthropic
814	Selaginellaceae	<i>Selaginella kraussiana</i> (Kunze) A. Braun		1		Neo		Cas	Synanthropic
815	Simaroubaceae	<i>Ailanthus altissima</i> (Mill.) Swingle	1	1	Neo	Neo	Inv	Inv	Synanthropic
816	Solanaceae	<i>Capsicum annuum</i> L.	1		Neo		Cas		Agricultural
817	Solanaceae	<i>Datura ferox</i> L.	1		Neo		Nat		Synanthropic
818	Solanaceae	<i>Datura innoxia</i> Mill.	1		Neo		Inv		Synanthropic
819	Solanaceae	<i>Datura stramonium</i> L. subsp. <i>stramonium</i>	1	1	Neo	Neo	Inv	Inv	Synanthropic
820	Solanaceae	<i>Datura wrightii</i> Regel	1	1	Neo	Neo	Nat	Nat	Synanthropic
821	Solanaceae	<i>Jaborosa integrifolia</i> Lam.	1		Neo		Cas		Synanthropic
822	Solanaceae	**** <i>Lycium barbarum</i> L.		1		Neo		Inv	Synanthropic
823	Solanaceae	<i>Lycium europaeum</i> L.	1	1	Arch	Arch	Cas	Nat	Synanthropic
824	Solanaceae	** <i>Lycium ferocissimum</i> Miers	1		Neo		Inv		Wetlands
825	Solanaceae	<i>Lycium intricatum</i> Boiss.	D		Da		Cas		Coastal
826	Solanaceae	<i>Lycopersicon esculentum</i> Mill.		1		Neo		Cas	Riparian
827	Solanaceae	<i>Nicotiana glauca</i> Graham	1	1	Neo	Neo	Inv	Inv	Synanthropic
828	Solanaceae	<i>Nicotiana rustica</i> L.		D		Neo		Cas	Synanthropic
829	Solanaceae	<i>Nicotiana tabacum</i> L.	1	1	Neo	Neo	Cas	Cas	Agricultural
830	Solanaceae	<i>Petunia</i> × <i>punctata</i> Paxton		1		Neo		Cas	Synanthropic
831	Solanaceae	<i>Physalis peruviana</i> L.		1		Neo		Cas	Riparian

832	Solanaceae	** <i>Salpichroa origanifolia</i> (Lam.) Baill.	1	1	Neo	Neo	Cas	Inv	Synanthropic
833	Solanaceae	<i>Solanum bonariense</i> L.		1		Neo		Cas	Synanthropic
834	Solanaceae	<i>Solanum chenopodioides</i> Lam.		1		Neo		Inv	Synanthropic
835	Solanaceae	<i>Solanum elaeagnifolium</i> Cav.	1		Neo		Inv		Synanthropic
836	Solanaceae	<i>Solanum laciniatum</i> Aiton		1		Neo		Cas	Synanthropic
837	Solanaceae	* <i>Solanum linnaeanum</i> Hepper & P.-M.L. Jaeger	1	1	Neo	Neo	Inv	Nat	Synanthropic
838	Solanaceae	<i>Solanum lycopersicum</i> L.	1	1	Neo	Neo	Cas	Cas	Agricultural
839	Solanaceae	*** <i>Solanum mauritanium</i> Scop.		1		Neo		Nat	Synanthropic
840	Solanaceae	<i>Solanum melongena</i> L.	1		Arch		Cas		Agricultural
841	Solanaceae	<i>Solanum pseudocapsicum</i> L.		1		Neo		Cas	Synanthropic
842	Solanaceae	<i>Solanum rostratum</i> Dunal	1		Neo		Nat		Synanthropic
843	Solanaceae	<i>Solanum sisymbriifolium</i> Lam.	1		Neo		Inv		Synanthropic
844	Solanaceae	<i>Solanum tuberosum</i> L.	1	1	Neo	Neo	Cas	Cas	Agricultural
845	Solanaceae	<i>Withania somnifera</i> (L.) Dunal subsp. <i>somnifera</i>	1		Neo		Nat		Synanthropic
846	Tamaricaceae	<i>Tamarix gallica</i> L.		1		Da		Nat	Riparian
847	Tamaricaceae	<i>Tamarix hampeana</i> Boiss. & Heldr. emend. Boiss.	D		Da				Wetlands
848	Tamaricaceae	<i>Tamarix parviflora</i> DC.	D	1	Neo	Neo	Cas	Inv	Coastal
849	Tamaricaceae	<i>Tamarix passerinoides</i> Delile	D		Da				Wetlands
850	Tamaricaceae	<i>Tamarix tetragyna</i> Ehrenb.	D		Da				Wetlands
851	Tamaricaceae	<i>Tamarix tetrandra</i> Pall. ex M. Bieb.	D		Da				Wetlands
852	Taxodiaceae	<i>Sequoiadendron giganteum</i> (Lindl.) Buchholz	1		Neo		Cas		Woodlands
853	Taxodiaceae	<i>Taxodium distichum</i> (L.) Richt.	1		Neo		Cas		Wetlands
854	Tropaeolaceae	<i>Tropaeolum majus</i> L.	1	1	Neo	Neo	Nat	Inv	Riparian
855	Ulmaceae	<i>Ulmus laevis</i> Pall.		1		Da		Cas	Woodlands
856	Ulmaceae	<i>Ulmus minor</i> Mill. subsp. <i>minor</i>	1		Da				Agricultural
857	Urticaceae	<i>Parietaria cretica</i> L.	1		Da		Nat		Synanthropic
858	Verbenaceae	<i>Aloysia citriodora</i> Palau	1		Neo		Cas		Synanthropic
859	Verbenaceae	<i>Lantana camara</i> L.	1	1	Neo	Neo	Cas	Cas	Coastal
860	Verbenaceae	<i>Phyla canescens</i> (Kunth) Greene	1	1	Neo	Neo	Cas	Cas	Synanthropic

861	Verbenaceae	<i>Phyla nodiflora</i> (L.) Greene	1	1	Neo	Da	Nat	Nat	Wetlands
862	Violaceae	* <i>Viola odorata</i> L.	1		Arch		Nat		Synanthropic
863	Violaceae	<i>Viola tricolor</i> L.	1		Arch		Cas		Synanthropic
864	Vitaceae	<i>Parthenocissus inserta</i> (A. Kern.) Fritsch		1		Neo		Inv	Synanthropic
865	Vitaceae	<i>Parthenocissus quinquefolia</i> (L.) Planch.	1	1	Neo	Neo	Cas	Cas	Synanthropic
866	Vitaceae	<i>Vitis labrusca</i> L.	1	1	Neo	Neo	Cas	Nat	Agricultural
867	Vitaceae	<i>Vitis riparia</i> Michx.	1		Neo		Cas		Riparian
868	Vitaceae	** <i>Vitis rupestris</i> Scheele	1	1	Neo	Neo	Nat	Nat	Agricultural
869	Vitaceae	<i>Vitis vinifera</i> L. subsp. <i>vinifera</i>	1	1	Arch	Arch	Nat	Nat	Riparian
870	Vitaceae	<i>Vitis vinifera</i> L. subsp. <i>sylvestris</i> (C.C. Gmel.) Hegi	1		Da		Nat		Riparian
871	Vitaceae	*** <i>Vitis × instabilis</i> Ardenghi, Galasso, Banfi & Lastrucci		1		Neo		Nat	Matorrals
872	Vitaceae	** <i>Vitis × koberi</i> Ardenghi, Galasso, Banfi & Lastrucci	1		Neo		Nat		Agricultural
873	Vitaceae	** <i>Vitis × ruggerii</i> Ardenghi, Galasso, Banfi & Lastrucci	1		Neo		Nat		Agricultural
874	Xanthorrhoeaceae	<i>Aloe × caesia</i> Salm-Dyck	D		Neo				Synanthropic
875	Xanthorrhoeaceae	<i>Aloe arborescens</i> Mill.	1	1	Neo	Neo	Cas	Inv	Coastal
876	Xanthorrhoeaceae	<i>Aloe maculata</i> All.	1	1	Neo	Neo	Cas	Inv	Coastal
877	Xanthorrhoeaceae	** <i>Aloe perfoliata</i> L.	1		Neo		Cas		Synanthropic
878	Xanthorrhoeaceae	<i>Aloe vera</i> (L.) Burm. fil.	1		Arch		Cas		Coastal
879	Xanthorrhoeaceae	<i>Phormium tenax</i> Forst.	1		Neo		Cas		Synanthropic
880	Zygophyllaceae	<i>Tribulus terrestris</i> L.	1		Da		Nat		Synanthropic
881	Zygophyllaceae	<i>Zygophyllum fabago</i> L.	1		Arch		Nat		Agricultural