The urban vascular flora of Palermo (Sicily, Italy)

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Abstract

This paper presents a comprehensive inventory of the urban vascular flora of the town of Palermo. The data were gathered from extensive field collections, from specimens kept in different herbaria, and publications of the last 30 years. The floristic catalogue includes all the vascular plants that occur spontaneously within the urban area. Thirteen taxa are endemic to Sicily and one of these, *Clinopodium raimondoi*, is exclusive to Palermo's area. The inventory comprises 1,052 taxa belonging to 119 families and 225 genera, and contains 170 taxa non-native to the Italian flora.

Keywords: Mediterranean Basin, nature conservation, plant invasion, species inventories, urban biodiversity.

Introduction

The study of urban floras is of particular interest from many points of view. From the taxonomic one, many new taxa have been described in urban or suburban contexts. Examples are the Italian endemics *Centaurea macroacantha* Guss. described from Palermo, *Hieracium tolstoii* Fen. & Zahn from Milano, *Stellaria media* subsp. *romana* Bég. from Roma (Peruzzi et al. 2015). From the historic point of view it is possible to compare the evolution of the landscape and land use with floristic data (Müller et al. 2013). Wild plants in man-made environments are of interest from the standpoint of human health due to allergies, dangers of toxicity. etc. (D'Amato et al. 2007).

Furthermore, urban areas are often precious reservoirs of biodiversity hosting species of high biogeographical value not found elsewhere (MacGregor-Fors et al. 2016). Moreover, since cities are major centres for the introduction and expansion of non-native species, these data sets provide a rich source of information on biological invasion and habitat homogenization (Banfi and Galasso 1998; Salinitro et al. 2018). For all these reasons, the study of urban flora in recent years has aroused great interest. In the Mediterranean Area examples can be given from Spain (Gavilan et al. 1993; Dana et al. 2002; Garcillán et al. 2014), Dalmatia (Milović and Mitić 2012), Montenegro (Stešević et al. 2009), Greece (Krigas and Kokkini 2002; Pateli et al. 2002; Chronopoulos and Christodoulakis 2003) and Turkey (Yarci et al. 2007; Altay et al. 2010). To these we can add comparisons between different European cities (La Sorte et al. 2014; Kalusová et al. 2019). But the country with the highest number of studies is Italy. In this county urban floras have been investigated since the beginning of floristic research. In the 19th century, several floristic reports from Italian cities were published (Celesti-Grapow et al. 1996). Over the past few years, to the awareness that urban vascular flora has a great landscape and cultural value has been also highlighted its value as an important tool for investigating the biological quality of the urban ecosystem (Verona et al. 2004). Consequently, a growing interest in floristic analyses in urban environments arose. Several examples from Italian cities include Ancona (Hruska 1988), Catania

(Poli Marchese et al. 1989), Pavia (Pavan Arcidiacono et al. 1990), Verona (Bianchini and Curti 1992), Torino (Siniscalco and Montacchini 1993-94), Milano (Banfi and Galasso 1998), Pescara (Pirone and Ferretti 1999), Rovigo (Benetti and Tornadore 2000), Cremona (Bonali 2000), Napoli (De Natale and La Valva 2000), Chieti (Leporatti et al. 2001), Lecce (Mele et al. 2002), Messina (Interdonato et al. 2003), Udine (Verona et al. 2004; Martini 2005), Trieste (Martini 2006), Ravenna (Lazzari et al. 2013), and Roma (Celesti-Grapow et al. 2013). Preserving biodiversity and natural urban environments is an important goal since urban areas host more than half of the world's human population (Celesti-Grapow et al. 2013). The first step toward reaching this goal is to complete updated surveys documenting the plants growing in cities in order to create the data sources necessary for planning effective management strategies. In addition, it is essential to collect samples in the field, literature data and herbarium records. The review of the herbarium samples is useful to verify the distribution in a territory of each taxon and can also highlight the presence of species not yet reported allowing the verification of their existence in nature (Venturella et al. 2012; Mandracchia et al. 2017). Besides, the revision of the samples kept in a herbarium allow to update maps of distribution of the species, as recently reported by Gargano et al. (2018).

Sicily is the largest island in the Mediterranean basin with an exceptionally long history of human impact and a long tradition of botanical research. Despite progress made in recent years, exhaustive inventories of urban floras in Sicily are still poor and further researches are required to better understand urban plant diversity. Palermo is the main city of the administrative region and has a multi-millennial human history, so it is an ideal case study for urban flora. Currently, the urban flora of Palermo was not complete. Historical data is available from Bivona (1806, 1807), Presl (1826), Parlatore (1839), Gussone (1827–1834, 1842–1844), Lojacono (1888–1909), Cannarella (1909–1912), Di Martino and Perrone (1962) and Celesti-Grapow et al. (1996). In addition, several recent contributions focused on single species (Scafidi et al. 2016a, 2016b, 2016c; Scafidi and Raimondo 2017, 2018) were collected within the boundaries of the city. The aim of this study is an inventory of the current flora belonging to the urban area of Palermo and to provide an overview of its composition and species diversity.

The study area

Palermo is located on the Tyrrhenian coast of Sicily on a plane of about 100 km², the so-named "Conca d'Oro" (latitude 38°06'56.37"N, longitude 13°21'40.54"E), which is delimited by the Gulf of Palermo and the Carbonate Mountains (Mounts of Palermo). Palermo falls within the "Northern coast" subunit as identified by Domina et al. (2018) and within the "Sicilia" eco-regional section, "Western Sicilia" subsection as defined by Blasi et al. (2014, 2018).

The area of the city of Palermo has been inhabited since prehistoric times. In its territory there have been at least 12 dominations. The first substantial urban development occurred in the Punic-Roman era. Further development of the city came under Arab rule. The Arabs from the 3rd century BC bounded the city with walls that contained it on a surface of about 2 Km² until the 18th century (Chirco 1992). Outside the walls there were crops and orchards that served to supply the city.

The Kemonia and Papireto rivers that crossed the historical centre of the city were buried during the seventeenth century. Since the 18th Century, under the Spanish domination, the expansion towards the north of the city was done by the noble families that built new villas and transformed preexisting agricultural houses into summer holiday residences, thus stimulating the creation of new hamlets inhabited by the employed workers. At the beginning of the twentieth century the further development of the city towards the north in the fishing village of Mondello, was due to the rich bourgeoisie. The northern part of the city was built on land used for orchards, citrus and vine cultivation. The Valdesi-Mondello village built on a large swampy reclaimed area The main development of the city was carried out in the 40 years after the end of the Second World War during which the built area of the city increased from 600 to 7000 hectares (Chirco 1992). Even the coastline has been advanced of about 200 meters, dumping the debris from the buildings destroyed by the bombing of 1943 into the sea.

The settlement of the city is almost flat with a difference in elevation from the sea level to 100 m a.s.l. at the slopes of the mountains of Palermo and an average gradient of 1.7%. In the town of Palermo actually there are no surface watercourses. The Oreto River defines the eastern limit of the study area; the last 2 kilometres of his bed have been rectified and paved at the end of the XIX century (Contino et al. 2010). The population of Palermo is about 674,000 (Istat 2018). According to Bazan et al. (2015), the bioclimate of Palermo is Mediterranean pluviseasonal oceanic with Lower thermomediterranean thermotype and Upper semiarid ombrotype. The climate is characterized by minimum temperatures that rarely fall below 0 °C during winter and quite frequent summer maximum temperatures between 38 and 40 °C. The daily temperature range during winter fluctuates between 5 and 6 °C. There is high air humidity (68.9 % on average) both in winter and in summer thanks to the sea breezes (Alaimo et al. 1992). These subtropical conditions allow the cultivation and naturalization of several species native to the tropics. The most common type of soil is the Red Mediterranean evolving on carbonate lithosoils (Raimondo et al. 1990). The area considered in this study extends over 63.5 km^2 and includes the city centre and the suburban exagricultural areas, from the Oreto River (not included) to the township of Sferracavallo, including the Park of Favorita in the Mount Pellegrino Natural Reserve. The mountains surrounding Palermo, Mount Pellegrino and Mount Gallo were not taken into consideration (Fig. 1).

Material and methods

This study consisted of collecting plants from 2010 until 2018. The spontaneous vascular flora was recorded, including both naturalized and casual aliens. We excluded taxa that grow exclusively as garden escapees in sites that are strongly affected by human cultivation practices (e.g., public gardens and the Botanical Garden of Palermo), or on constantly irrigated plant nurseries and flowerbeds. Additionally, individuals that only occurred close to their parental plant and those that did not grow beyond the seedling stage were excluded. As for introduced species, we used the standardized system on a nationwide scale provided by Galasso et al. (2018). For taxon identification we primarily referred to the keys included in Flora d'Italia (Pignatti 1982; 2017-2019) and Flora Europaea (Tutin et al. 1964–1980, 1993). The nomenclature of taxa follows the checklists of Bartolucci et al. (2018) and Galasso et al. (2018) and their updates (Bartolucci et al. 2018a, 2018b; Galasso et al. 2018a, 2018b). In order to obtain an overall view of the current flora, we only took into account botanical records or publications from the last 30 years. Crucial information was also gathered from the wealth of botanical records found in herbaria collections, particularly in the Herbarium Mediterraneum Panormitanum (PAL) where new specimens are kept. For each taxon, its reference (bibliographic reference, Herbarium with exsiccata or "Obs." for new observations), biological form, chorological type, and growth environment (e.g., trees, walls, interstices, flowerbeds, open fields, rocks, marshes, sands) were recorded and are reported in this survey. Historical records not confirmed are presented and commented separately.

Results and Comments

General results

Currently, the flora of the metropolitan area of Palermo (Appendix 1) includes 1,052 taxa from 119 families and 225 genera. The greatest numbers of specific and subspecific taxa fall in the families Poaceae (142 taxa), Asteraceae (118), Fabaceae (114), Brassicaceae (42), Caryophyllaceae (33),

Euphorbiaceae (21), and Solanaceae (20). The most represented genera are: *Trifolium* L., *Euphorbia* L., *Medicago* L., Lathyrus L., *Orobanche* L., *Silene* L., *Vicia* L., *Lotus* L., and *Amaranthus* L. (Table 1).

The analysis of biological spectrum showed the prevalence of therophytes (46.10 %) and hemicryptophytes (23.00 %). Geophytes (11.00 %) and phanerophytes (10.08 %) were also well represented, while chamaephytes (5.89 %), nano-phanerophytes (2.85 %), hydrophytes (0.86 %), and helophytes (0.19 %) were of less importance (Figure 2). The analysis of biological forms provides useful information on the actual environmental characteristics of the city. The prevalence of therophytes and hemicriptophytes is linked to the long period of aridity that characterises this territory and to the intense anthropogenic disturbance on the area. Hydrophytes and helophytes are concentrated in temporary wetlands due to the water losses along the water pipelines. Regarding the chorological analysis, the Mediterranean type is prevalent (42.87 %). Taxa with large distribution are quite abundant (20.72 %), while the percentage of endemics is 2.28 % (Figure 3). A comparison with the chorological spectrum of the hwole flora of Sicily (Raimondo and Spadaro 2011) shows that in urban environment the percentage of Mediterranean (including Endemics) is similar (45.34 % in Palermo vs 46.86% in Sicily), Cosmopolitans are higher (20.72 vs 12.55 %), Southern taxa are slightly higher (9.41 vs 8.55 %), taxa with Eastern and Western chorotype are slightly lower, Boreal taxa are lower (5.04 vs 8.58%). This composition can be justified by the dominance of human made environments that favour generalist species with large distribution.

The increase of temperature associated with the heat island effect in Mediterranean cities does not seem to lead to selection for a thermophilous flora. In the Mediterranean environment where arid microclimate conditions in cities are similar to those of less anthropogenic environments.

This agrees with the observations done in Milano (Banfi and Galasso 1998) and in some northern European cities (Godefroid 2001) where the increase of temperature associated with the heat island effect does not seem to lead to selection for a thermophilous flora.

Origin of data

All the 1,052 recoded taxa have been personally observed during this study. Of these 192 were already known in literature. For 345 taxa were traced herbarium specimens. The 558 taxa not recoded in herbaria or in literature are not new for this area but only subsampled. The attention of researchers is mainly focused on endemics, rare or new naturalized taxa; limited interest is generally given to the common species of roadsides and nitrified areas.

Endemics

The most significant endemics are: *Centaurea panormitana* Lojac., *C. tyrrhena* C. Brullo, Brullo & Giusso, *Helichrysum pendulum* (C. Presl) C. Presl, *Limonium bocconei* (Lojac.) Litard., and *Ophrys panormitana* (Tod.) Soó. *Clinopodium raimondoi* Spadaro, Faqi & Mazzola is known as endemic exclusively in Palermo's area (Spadaro et al. 2015; Tuttolomondo et al. 2017b), but is also expected to occur in other territories of Sicily. If compared with the Sicilian western Tyrrhenian coast, the city of Palermo show an overall reduced numeric plant population and biogeographical (Domina et al. 2018b). This is particularly evident if we consider the quota for endemic species. The percentage of endemic and subendemic species is 3.61 %, significantly lower than the regional one (15.44 %, Raimondo and Spadaro 2011). The limited presence of these species is related to intense human activities and to the near lack within the study area of rocky environments that act as refuges for many endemic species.

Aliens

The urban flora is significantly enriched with alien species. There are 170 taxa that are non-native to Italy (the 16% of the whole urban flora), 16 of which are considered archaeophytes and the remaining 153, neophytes. About the origins (Fig. 4) one half comes from Americana (49.71%), follow the africans (20.12%) and asiatic (17.16%) the remaining are Australians (6.51%); originated in cultivation or hybrids (5.33%), and European (1.18%). The alien species are mainly found in interstices, flowerbeds, and open fields. The constant increase of new spontaneous exotics species within the territory that has occurred in recent times is explained by increased commercial plant exchange by nurseries and private parties (Mandracchia et al. 2017). The high percentage of aliens, often with a large distribution, should be related with the extension man-made environments, that, deprived of their natural cover, are subject to the invasion of generalist species Some species as *Pennisetum setaceum* or *Ailanthus altissima* have become real scourges, creating serious problems for artifacts and residual natural vegetation.

Flora and land use changes

In the last 100 years, substantial changes have been recorded in the floral spectrum of the investigated area. The main change comes from the reclamation of the Valdesi-Mondello area and its tourist exploitation. This has led to the disappearance of species that grow in wetlands and instead abound in the collections of herbaria. The cementing of the coasts and their exploitation for tourist and residential purposes has caused the disappearance of the sandy coastal dunes and the flora associated with them. On the contrary, typical species of cultivated habitats, although occupying considerably smaller areas than in the past, are still found in the north-western part of the city, which is the one that has preserved the main traits of semi-naturality (Tuttolomondo et al. 2017a).

In Table 2 are presented 28 taxa not found anymore in the study area. These are species associated with sandy shores, wet areas and agricultural practices. The area of Mondello-Valdesi to the north of the city is the one that underwent major transformations, being transformed from a fishing village surrounded by marshes in a sought holiday district. This led to the disappearance of the species of marshes and sand dunes such as: *Alopecurus bulbosus, Cachrys sicula, Callitriche brutia, C. truncata, Echium arenarium, Ipomoea sagittata,* etc. To the south the transformation of the mouth of the Oreto river, a delta marshland surrounded by vegetable gardens, up to the eighteenth century, into a straight artificial canal has also determined the disappearance of the species linked to the suburban areas that surround the city the agricultural surface has been considerably reduced and fragmented, the cultivation practices have changed, the working animals are not used anymore, the water troughs have disappeared and the surface waters have been drained. In this way it has been determined the disappearance of some species linked to these environments such as *Humulus lupulus*.

Comparison with other urban floras

Due to the differences between the methodologies adopted by other authors and the size of the investigated cities, it is not appropriate to make detailed quantitative floristic comparisons with other Italian or European cities.

However, some generic considerations can be made. The life spectrum of Palermo is similar to that one of Istanbul (Yarci et al. 2007). The main differences are in Phanerophtes that are more abundant in Istanbul (32.78 % vs 10.08 %) and Therophytes that are more abundant in Palermo (46.10 % vs

26,11). This can be due to the larger number of green areas with semi-natural vegetation occurring in Istanbul.

Stešević et al. (2009) presented a comparison between the urban floras of Podgorica in Montenegro, Rome in Italy, Patras and Salonika in Greece.

Regarding the quota of alien species, the proportion of this group in Central European cities varies between 20 to 60 % (Pyšek 1998), in Istanbul is 21.67 % (Yarci et al. 2007), while in Palermo correspond to 16.06 %. This ratio is little higher in comparison with Sicily (13.55 %, Galasso et al. 2018) and with the floras of Rome (13.83 %, Celesti-Grapow et al. 2013) and the region Latium (13.66 %, Galasso et al. 2018). In each of these cases there are increases in the percentage of alien species in the metropolitan region relative to the percentage throughout the whole region. This observation is justified by the features of the Mediterranean environment where arid microclimate conditions in cities are similar to those of less anthropogenic environments.

The alien flora of Palermo has some similarities with that of Patras, that is a coastal city with similar latitude (Stešević et al. 2009). The two floras have similar percentages of African and American taxa but Palermo has a lower incidence of European and Horticultural taxa (6% vs 14% in Patras) and of Asiatic taxa (17% vs 21%) and a higher incidence of Australian taxa (6% vs 1%)

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References

Alaimo MG, Melati MR, Raimondo FM. 1992. Indagini aerobiologiche nel contesto urbano di Palermo: nota preliminare. Quad Bot Ambientale Appl. 3: 191–207.

Altay V, Özyiğit İİ, Yarci C. 2010. Urban flora and ecological characteristics of the Kartal District (Istanbul): A contribution to urban ecology in Turkey. Sci Res Essay. 5(2): 183–200.

Badalamenti E 2009. Notes about the naturalization in Sicily of *Paulownia tomentosa* (Paulowniaceae) and remarks about its global spread. Fl Medit. 29: 67–70. https://doi.org/10.7320/flmedit29.067

Banfi E, Galasso G. 1998. La flora spontanea della città di Milano alle soglie del terzo millennio e i suoi cambiamenti a partire dal 1700. Mem Soc Ital Sci Mat Museo Civ Sto Nat Milano. 28: 267–388.

Bartolucci F, Peruzzi L, Galasso G, Albano A, Alessandrini A, Ardenghi NGM, Astuti G, Bacchetta G, Ballelli S, Banfi E, et al. 2018. An updated checklist of the vascular flora native to Italy. Plant Biosyst. 152:179–303. https://doi.org/1080/11263504.2017.1419996.

Bartolucci F, Domina G, Ardenghi NMG, Banfi E, Bernardo L, Bonari G, Buccomino G, Calvia G, Carruggio F, Cavallaro V, et al. 2018a. Notulae to the Italian native vascular flora: 5. Italian Botanist. 5: 71–81. https://10.3897/italianbotanist.5.25892.

Bartolucci F, Domina G, Ardenghi NMG, Bacchetta G, Bernardo L, Buccomino G, Buono S, Caldararo F, Calvia G, Carruggio F, et al. 2018b. Notulae to the Italian native vascular flora: 6. Italian Botanist. 6: 45–64. https://10.3897/italianbotanist.6.30575.

Bazan G, Marino P, Guarino R, Domina G, Schicchi R. 2015. Bioclimatology and vegetation series in Sicily: a geostatistical approach. Ann Bot Fennici. 52: 1–18. https://doi.org/10.5735/085.052.0202

Benetti G, Tornadore N. 2000. Analisi quantitativa e qualitativa della flora urbica di Rovigo (NE Italia). Inf Bot Ital. 32(1): 82–87.

Bianchini F, Curti L. 1992. Flora sinantropica nella citta di Verona. Boll Mus Civ St Nat Verona 19: 257–95.

Bivona-Bernardi A. 1806-1807. Sicularum plantarum centuria prima et secunda, Palermo, Apud Philippum Barravecchia. https://doi.org/10.5962/bhl.title.50468

Bivona-Bernardi A. 1816. Stirpium rariorum minusque cognitarum in Sicilia sponte provenientium descriptiones nonnullis iconibus aucte. Manipulus IV. Palermo, Typis Laurentii. https://doi.org/10.5962/bhl.title.50454

Blasi C, Capotorti G, Copiz R, Guida D, Mollo B, Smiraglia D, Zavattero L. 2014. Classification and mapping of the ecoregions of Italy. Plant Biosyst.148: 1255–1345. https://doi.org/10.1080/11263504.2014.985756

Blasi C, Capotorti G, Copiz R, Mollo B. 2018. A first revision of the Italian Ecoregion map. Plant Biosyst. 152: 1–4. https://doi.org/10.1080/11263504.2018.1492996

Bonali F. 2000. La flora spontanea del centro storico di Cremona. Monografie di Pianura" n. 4.

Cannarella P. 1909-12. Flora urbica palermitana. Boll Soc Bot Ital 3 cent. I, II: 73–81, 172–183; cent. III: 23–31.

Celesti-Grapow L, Blasi C, Andreis C, Biondi E, Raimondo FM, Mossa L. 1996. Studio comparativo sulla flora urbana in Italia. Giorn Bot Ital. 130: 779–93. https://doi.org/10.1080/11263509609438349

Celesti-Grapow L, Capotorti G, Del Vico E, Lattanzi E, Tilia A, Blasi C. 2013. The vascular flora of Rome. Plant Biosyst. 147: 1059–1087. https://doi.org/10.1080/11263504.2013.862315

Chirco A. 1992. Palermo: tremila anni tra storia e arte. Palermo: Dario Flaccovio.

Chronopoulos G, Christodoulakis D. 2003. The flora of the city of Patras (W Greece): an analysis relative to the city's spatial structure and habitat types. Bot Chronicles. 16: 115–124.

Contino A, Cusimano G, Bova P, Gatto A. 2010. La valle dell'Oreto. Aspetti geologicogeomorfologici, idrogeologici e vegetazionali di un bacino della Sicilia nord-occidentale. Collana Sicilia Foreste. 46: 1–216. D'Amato G, Cecchi L, Bonini S, Nunes C, Annesi-Maesano I, Behrendt H, Liccardi G, Popov T, Van Cauwenberge P. 2007. Allergenic pollen and pollen allergy in Europe. Allergy, 62(9): 976–990. https://doi.org/10.1111/j.1398_9995.2007.01393.x

Dana ED, Vivas S, Mota JF. 2002. Urban vegetation of Almería City: a contribution to urban ecology in Spain. Landscape and Urban Planning 59: 203–216.

De Natale A, La Valva V. 2000. La flora di Napoli: i quartieri della città. Webbia. 54: 271–373. https://doi.org/10.1080/00837792.2000.10670681

Domina G, Campisi P, Mannino A.M, Sparacio I, Raimondo F.M. 2018b: Environmental quality assessment of the Sicilian coast using a multi-disciplinary approach. Acta Zool Bulg, suppl. 11: 11–18.

Domina G, Venturella G, Garagano ML. 2018a. Synthetic cartography for mapping biodiversity in the Mediterranean region: Sicily as a case study. Phytokeys. 109: 77–92. https://doi.org/10.3897/phytokeys.109.28297

Di Martino A, Perrone C. 1962. Nuovo contributo alla flora arboricola di Palermo. Lav Ist Bot Giardino Colon Palermo. 18: 112–202.

Fiori A. 1924. Nuova Flora Analitica d'Italia, Vol. 1-2. Firenze: Tip. Ricci.

Fiori A, Paoletti, G. 1896-1909. Flora Analitica d'Italia, Vol. 1-2. Padova: Tip. del Seminario.

Galasso G, Conti F, Peruzzi L, Ardenghi NMG, Banfi E, Celesti-Grapow L, Albano A, Alessandrini A, Bacchetta G, Ballelli S, et al. 2018. An updated checklist of the vascular flora alien to Italy. Plant Biosyst 152(3):556–592. https://doi.org/10.1080/11263504.2018.1441197

Galasso G, Domina G, Adorni M, Ardenghi NMG, Bonari G, Buono S, Cancellieri L, Chianese G, Ferretti G, Fiaschi T, et al. 2018a. Notulae to the Italian alien vascular flora: 5. Italian Botanist 5: 45–56. https://doi.org/10.3897/italianbotanist.5.25910

Galasso G, Domina G, Alessandrini A, Ardenghi NMG, Bacchetta G, Ballelli S, Bartolucci F, Brundu G, Buono S, Busnardo G, et al. 2018b. Notulae to the Italian alien vascular flora: 6. Italian Botanist. 6: 65–90. https://doi.org/10.3897/italianbotanist.6.30560

Galasso G, Domina G, Ardenghi NMG, Aristarchi C, Bacchetta G, Bartolucci F, Bonari G, Douvet D, Brundu G, Buono S. et al. 2019. Notulae to the Italian alien vascular flora: 7. Italian Botanist. 7: 157–182. https://doi.org/10.3897/italianbotanist.5.25910

Gargano ML, Mandracchia G, Venturella G, Calvo R. 2018. A revision of *Tamarix* specimens (Tamaricaceae) kept in the BCN herbarium of Barcelona (Spain). Fl. Medit. 28: 393–397. https://doi.org/10.7320/flmedit28.397

Garcillán PP, Dana ED, Rebman JP, & Julio Peñas J. 2014. Effects of alien species on homogenization of urban floras across continents: a tale of two Mediterranean cities on two different continents. Pl Ecol Evol. 147: 3–9. https://doi.org/10.5091/plecevo.2014.950

Gavilan R, Echevarria JE, Casas I. 1993. Catálogo de la flora vascular de la Ciudad Universitaria de Madrid (España). Bot Complutensis. 18: 175–201. https://doi.org/10.5209/rev_bocm.2012.v36.39448

Godefroid S. 2001. Analysis of the Brussels flora as indicator for changing environmental quality. Landscape and Urban Panning. 52: 203–224. https://doi.org/10.1016/s0169-2046(00)00117-1

Gussone G. 1827-1834. Florae Siculae Prodromus. Vol. 1, 2, suppl., Napoli. https://doi.org/10.5962/bhl.title.6700

Gussone G. 1842-1845. Florae Siculae Synopsis. Vol. 1, 2, add., Napoli.

Hruska K. 1988. Flora e vegetazione della città di Ancona. Giorn Bot Ital 122: 29.

Kalusová V, Čeplová N, Chytrý M, Danihelka J. Dřevojan P, Fajmon K, Hájek O, Kalníková V, Novák P, Řehořek V et al 2019. Similar responses of native and alien floras in European cities to climate. J Biogeogr. 2019: 1–13. https://doi.org/10.1111/jbi.13591

Krigas N, Kokkini S. 2002. A survey of the alien vascular flora of the urban and suburban area of Thessaloniki, North Greece. Willdenowia. 34: 81–99. https://doi.org/10.3372/wi.34.34108

Interdonato M, Hruska K, Villari R. 2003. Research on the urban flora of Messina. Ann Bot. 3: 106–116.

Istat 2018. Atlante statistico dei comuni, edizione 2018. http://asc.istat.it

La Sorte FA, Aronson MFJ, Williams NSG, Celesti-Grapow L, Cilliers S, Clarkson BD, Dolan RW, Hipp A. 2014: Beta diversity of urban floras among European and non-European cities. Global Ecol Biogeogr 23(7): 769-779. https://doi.org/10.1111/geb.12159

Lazzari G, Merloni N, Saiani D. 2013. Flora Siti della Rete Natura 2000 della fascia costiera ravennate. Parco Delta del Po - Emilia-Romagna. Quaderni dell'IBIS. 6. 79 pp.

Leporatti ML, Pavesi A, Massari G. 2001. Contributo alla flora vascolare urbana di Chieti (Abruzzo). Webbia. 56: 343–378. https://doi.org/10.1080/00837792.2001.10670720

Lojacono-Pojero M. 1882. Criteri sui caratteri delle *Orobanche* ed enumerazione delle nuove specie rinvenute in Sicilia. Naturalista Sic. 1: 198–202.

Lojacono-Pojero M. 1888-1909. Flora Sicula, Vol. 1-3. Palermo: Stabilimento Tipografico Virzì, Tipografia dello Statuto, Litografia Salvatore Bizzarrilli, Scuola Tip. Boccone del Povero.

MacGregor-Fors I, Escobar F, Rueda-Hernández R, Avendaño-Reyes S, Lucía Baena M, Bandala VM, Chacón-Zapata S, Guillén-Servent A, González-García F, Lorea-Hernández F, et al. 2016: City "Green" Contributions: The Role of Urban Greenspaces as Reservoirs for Biodiversity Forests 7(146): 1–14. https://doi.org/10.3390/f7070146

Mandracchia G., Venturella G. Gargano M.L. 2017. First record of *Tamarix macrocarpa* (Tamaricaceae) for Europe, Plant Biosyst 151(4): 577–580. https://doi.org/10.1080/11263504.2017.1320315 Martini F. 2005. Atlante della flora vascolare spontanea di Udine. Pubbl Mus Friul St Nat 46.

Martini F. 2006. La flora vascolare spontanea della città di Trieste (Italia nordorientale). Webbia. 61: 57–94. https://doi.org/10.1080/00837792.2006.10670795

Mele C, Annese B, Albano A, Marchiori S. 2002. Contributo alla flora e vegetazione del centro storico di Lecce (Puglia-Italia). Inf Bot Ital. 34: 91–104.

Milović M, Mitić B. 2012. The urban flora of the city of Zadar (Dalmatia, Croatia). Nat Croat. 21(1): 65–100.

Müller N, Ignatieva M, Nilon CH, Werner P, Zipperer WC. 2013. Patterns and Trends in Urban Biodiversity and Landscape Design. In: Elmqvist T, Fragkias M, Goodness J,Güneralp B, Marcotullio PJ, McDonald RI,Parnell S,Schewenius M, Sendstad M, Seto KC. (eds) Urbanization, Biodiversity and Ecosystem Services: Challenges and Opportunities. Dordrecht: Springer, https://doi.org/10.1007/978-94-007-7088-1_10

Parlatore F. 1839. Flora Panormitana, Vol.1. Palermo: Tip. P. Pensante

Pateli M, Krigas N, Karousou R, Hanlidou E, Kokkini S. 2002. Vascular plants in the suburban area of Thessaloniki (North Greece). I. The industrial part of Sindos. Fl Medit. 12: 323–339.

Pavan Arcidiacono L, Valcuvia Passadore M, Vittadini Zorzoli M. 1990. La flora del centro storico di Pavia. Atti Ist Bot e Lab Critt Univ Pavia s. 7(9): 7–26.

Peruzzi L, Domina G, Bartolucci F, Galasso G, Peccenini S, Raimondo FM, et al. 2015. An inventory of the names of vascular plants endemic to Italy, their loci classici and types. Phytotaxa 196: 1–217. https://doi.org/10.11646/phytotaxa.196.1.1

Pignatti S. 1982. Flora d'Italia, Vol.1-3. Bologna: Edagricole.

Pignatti S. 2017-2019. Flora d'Italia, 2° ed., Vol.1-4. Milano: Edagricole.

Pirone G, Ferretti C. 1999. Flora e vegetazione spontanee della città di Pescara. Fitosociologia. 36: 111–155.

Poli Marchese E, Grillo M, Maugeri G. 1989. Investigation of spontaneous urban flora of the city of Catania (Sicily). Braun-Blanquetia. 3: 137–142.

Presl CB. 1826. Flora Sicula. Praga, sumptibus A. Borrosch.

Pyšek, P. 1998: Alien and native species in Central European urban floras: a quantitative comparison. J Biogeogr. 25: 155–163. https://doi.org/10.1046/j.1365-2699.1998.251177.x

Rimondo FM, Spadaro V. 2011. Caratteri biogeografici della flora vascolare della Sicilia. Biogeographia. 30: 112–139. https://doi.org/10.21426/b630110557

Rimondo FM, Ottonello D, Castiglia C. 1979. Aspetti stagionali e caratteri biocorologici della vegetazione infestante gli agrumeti del palermitano. Not Fitosoc. 15: 159–170.

Raimondo FM, Venturella G, Gianguzzi L. 1990. Lineamenti floristici e vegetazionali del Bacino del Fiume oreto (Palermo) con annessa carta del paesaggio vegetale (1:150000). Quad Bot Ambientale Appl. 1: 77–91.

Ross H. 1899. Beitrage zur Flora von Sicilien. 1 Teil. Erlauterungen und kritische Bemerkungen zum Herbarium siculum. Centuria I. Bull Herb Boissier. 7: 262–299.

Salinitro M, Alessandrini A, Zappi A, Melucci D, Tassoni A. 2018. Floristic diversity in different urban ecological niches of a southern European city. Sci Rep 8: 15110.

Spadaro V, Faqi AS, Mazzola P. 2016: *Clinopodium raimondoi* (Lamiaceae), a new species from Sicily. Fl Medit 25 (Special Issue): 311–315. https://doi.org/10.7320/flmedit25si.311

Scafidi F, Di Gristina E, Domina G. 2016a. *Alternanthera tenella* Colla. In: Raab-Straube E, Raus T, editors. Euro+Med–Checklist Notulae, 6. Willdenowia. 46:423–424.

Scafidi F, Di Gristina E, Domina G. 2016b. *Brachychiton discolor* F. Muell., *Brachychiton diversifolius* R. Br. In: Raab-Straube E, Raus T, editors. Euro+Med–Checklist Notulae, 6. Willdenowia. 46: 429.

Scafidi F, Raimondo FM, Domina G. 2016c. First record of *Euphorbia graminea* (Euphorbiaceae) in Italy. Fl Medit 26: 25–30. https://doi.org/10.7320/flmedit26.025

Scafidi F, Raimondo FM. 2017. Principi di spontaneizzazione in Sicilia di *Talinum paniculatum* (Talinaceae). Quad Bot Amb Appl. 26(2015): 23–25.

Scafidi F, Raimondo FM. 2018. First record of *Pilea microphylla* (Urticaceae) in Sicily. Fl Medit. 28: 79–84. https://doi.org/10.7320/flmedit28.079

Schicchi R, Mazzola P. 2003. *Ficus watkinsiana* F. M. Bailey (*Moraceae*), nuova xenofita siciliana. Naturalista Sic. 27: 307–311.

Siniscalco C, Montacchini F. 1993-94. Prodromo della flora urbica torinese. Allionia. 32: 137-162.

Stešević D, Jovanović S, Šćepanović S. 2009. Flora of the city of Podgorica, Montenegro – Chorological structure and comparison with the floras of Rome, Patras and Salonika. Arch Biol Sci Belgrade. 61(2): 307–315. https://doi.org/10.2298/abs0902307s

Tutin TG, Burges NA, Chater AO, Edmondson JR, Heywood WH, Moore DM, et al. 1993. Flora Europaea. Vol. 1. 2nd ed., Cambridge: University Press. https://doi.org/10.1006/anbo.1994.1108

Tutin TG, Heywood VH, Burges NA, Valentine DH, Walters SM, Webb DA. 1964–1980. Flora Europaea. 5 vols. Cambridge: University Press. https://doi.org/10.1006/anbo.1994.1108

Tuttolomondo T, La Bella S, Venturella, G, Leto C, Riccobono L, Virga G, Gennaro MC, Licata M. 2017a. Germplasm of medicinal and aromatic plant species in the Parco della Favorita in Palermo city (Sicily, Italy). Acta Horticulturae. 1189: 505–508. https://doi.org/10.17660/actahortic.2017.1189.101

Tuttolomondo T, La Bella S, Venturella, G, Leto C, Riccobono L, Virga G, Gennaro MC, Licata M. 2017b. Characterization and conservation of *Clinopodium raimondoi* Spadaro, A.S. Faqi &

Mazzola germplasm in the Parco della Favorita of Palermo city (Sicily, Italy). Acta Horticulturae. 1189: 509–512. https://doi.org/10.17660/actahortic.2017.1189.102

Venturella G, Gargano ML, Mandracchia G. 2012: First record of *Tamarix meyeri* (Tamaricaceae) for western Europe. Pl. Biosyst. 146(2): 484–489. https://doi.org/10.1080/11263504.2011.629010

Verona V, Candolini A, Cenci CA, Pagiotti R, Menghin L. 2004. La flora spontanea della città di Udine. Inform Bot Ital. 36: 363-399.

Yarci C, Serin M, Altay V, Ġahin N, Osma E, Mutlu P, Eskin B. 2007: Observations on the urban flora of Istanbul (Turkey). International Conference on Environment: Survival and Sustainability 19-24 February 2007 Near East University, Nicosia-Northern Cyprus: 695–747.

Appendix List of the present-day vascular flora of Palermo.

Family	Taxon	Trees	Walls	Interstices	Flowerbeds	Fields	Rocks	Marshes	Sands	Biological	Chorology	Alien/ Native
Fabaceae	Acacia saligna (Labill.) H.L. Wendl.			8	1 5	1	8		1	P scap	Australia	
Acanthaceae	Acanthus mollis L. subsp. mollis	1	1	1	1	1			. 3	H scap	W-Stenomedit.	n
Asteraceae	Achillea ligustica All.			19 - 19 - 19 - 19 - 19 - 19 - 19 - 19 -		1				H scap	W-Stenomedit.	n
Amaranthaceae	Achyranthes sicula (L.) All.	1		1	1	1	§		1 1	Ch suffr	SW-MeditMont.	n
Amaryllidaceae	Acis autumnalis (L.) Sweet			· · · · ·		1			1	G bulb	Stenomedit.	n
Adiantaceae	Adiantum capillus-veneris L.	1	1	8			1		1 - I	G rhiz	Pantrop.	n
Ranunculaceae	Adonis annua L subsp. annua				1	1				Tscap	EurimeditSubatl.	n
Ranunculaceae	Adonis microcarpa DC. subsp. microcarpa			8 1	1	1	0 0		N	Tscap	S-Stenomedit.	n
Poaceae	Aeluropus littoralis (Gouan) Parl. subsp. littoralis					1			1	G rhiz	EurimeditTuran.	n
Crassulaceae	Aeonium arboreum (L.) Webb & Berthel.	1	1	S 3	1 2		1		S (NP	Canarie	n
Agavaceae	Agave americana L. subsp. americana	1		1	1	1			3	P caesp	C-America	2
Agavaceae	Agave salmiana subsp. ferox (K.Koch) Hochstätter	1		1	1	1	1 1			P caesp	C-America	
Agavaceae	Agave sisalana Engelm.			1	1	1				P caesp	C-America	
Rosaceae	Aprimonia eupatoria L. subso, eupatoria	i - 1		3	1 1	1	3 8		S 3	H scap	Subcosmop.	
Carvophyllaceae	Agrostemma githago L subsp. githago					1			-	Tscap	EuropCaucas.	n
Poaceae	Agrostis stolonifera L subso stolonifera	÷ 3		10 I	1	1	8 8		1	Hrept	Subendem.	(n)
Simaroubaceae	Ailanthus altissima (Mill.) Swingle			1	1	1				P scap	E-Asia	3
Poaceae	Aira carvophvilea L		-	8 - S - 1	1	1	2 - 2		÷ 1	Tiscap	Subtrop.	n
Poaceae	Aira cupaniana Guss		-		1	1	8 8		1 1	Tscap	W-Stenomedit.	
Poaceae	Aira elegantissima Schur, subso, elegantissima	-		63	1	1			-	Tiscap	Eurimedit	n
Poaceae	Aira intermedia Guss.	6 - 3	-		1	1	8 8		97	Tiscan	Stenomedit	
Lamiaceae	Aiuga chamaepity subsp. suffrutescens (Willk.) Greuter & Burdet	<u> </u>		53	1 24 3	1	<u> </u>			Tscap	Eurimedit	0
Lamiaceae	Aiuga chamaepitys (L.) Schreb, subsp. chamaepitys	8 - 6		Q 1	2 2	1	1			Tscap	Eurimedit	n
Lamiaceae	Aiuga chamaepitys subsp. chia (Schreb.) Arcane.			-		1				Tscap	Eurimedit	0
Lamiaceae	Aiuga iya (L.) Schreb, subsp. iya	g g		S 1	2 2	1			2	Ch suffe	Stenomedit	
Fabaceae	Albizio iulibrissio Durazz			1	1	1				Peran	Asia	
Malvaceae	Alcen rosen I	<u> </u>		0	-	1	14 22		8	Hisran	Borticle	
Alismataceae	Alisma lanceolatum With				9 - 14 -			1		Irad	Subcosmon	
Liliaceae	Allium Iongispathum Redoute	2		3 I	1	1	15 - 72	-	<u>i</u>	Ghulb	Stenomedit	
Liliaceae	Allium ninnum I	1			1	1			()	Ghulb	Stenomedit	
Liliaceae	Allium obtusifiorum DC	-		8 1		1	8 8		1 - A	Ghulb	Subendem	
Liliaceae	Allium nallens I		-	S. 3	2	1				Ghulb	Stenomedit	
Liliaceae	Allium polyanthum Schult & Schult f.	1		10 I	2 2	1	8 8		1 3	Ghulb	SE Furon	
Liliaceae	Allium sahaerosephalon I, subsp. sahaerosephalon					1			1	Ghulb	Paleotemp	
Liliaceae	Allium sphaerocephalon subsp. sphaerocephalon		-	10	2 1	1	a a		÷	Ghulb	Paleotemp	
Liliaceae	Allium trifoliatum Cirillo		-	8)	3	1	8 8		1	G bulb	E-Stenomedit	
Liliaceae	Allium triquetrum L	-	-	1	1	1			-	Ghulb	W-Stenomedit	
Sinonteridaceae	Allosonus acrosticus (Balb.) Christeph		-	20	-	-	1		92	Hros	Stepomedit -Turan	
Sinopteridaceae	Allosonus atendinides (Beichard) Christenh		1		S		1			Hros	W-Medit -Macarones	
Aloaceae	Aloe Xonesia Salm-Duck	8 8		S 1	ð	1				Praeso	Hybrid	
Aloscese	Aloe arborescens Mill			1		1			-	Penero	S Africa	
Aloscese	Alea masulata All	3		S 3	5 S	1			0	ND	S Africa	-
Amaranthaceze	Alternanthers tenella Colla	3			1	-			1	Tenero	America	
Amaranchaceae	Amaganathus albus 1		-	10	4		3 2			Teresp	America	
Amaranthaceae	Amaranthus blitum I subso blitum	0		S 8	1	4				Terro	Cormonal	
Amaranthaceae	Amorenthus deflever I	<u> </u>		2 1	-	1	5 Q			Treas	Cosmopol.	
Amaranchaceae	Americanical and a second seco		-	32 3		4	S			T	Delessibles	
ennaranchaceae	remonuncius gradecizaris subsp. syrvestris (viii.) prenan			1	10	1		I		i scap	raicosubtrop.	- D -

	La construction de la constructi											
Amaranthaceae	Amaranthus hybridus L. subsp. hybridus		i (j		1	1	14		<u>1</u>	T scap	N-Amer.	•
Amaranthaceae	Amaranthus hybridus subsp. caudatus (L.) lamonico & Galasso	1			1	1			<u> </u>	T scap	S Amer.	
Amaranthaceae	Amaranthus hybridus subsp. cruentus (L.) Thell.	3 i			1	1			3	T scap	America Trop. e Subtrop.	•
Amaranthaceae	Amaranthus muricatus (Moq.) Hieron.				1	1				H scap	America	
Amaranthaceae	Amaranthus retroflexus L.	8 3	3 8		1	1	1		8	T scap	America Trop.	
Amaranthaceae	Amaranthus viridis L.				1	1				T scap	S Amer.	
Araceae	Ambrosina bassii L.	Q	1			1			<u>(8</u>	G rhiz	W-Stenomedit.	n
Apiaceae	Ammi majus L.					1				T scap	Eurimedit.	n
Poaceae	Ampelodesmos mauritanicus (Poir.) T. Durand & Schinz	8 - 1	i2		jj	1			<u>8</u>	H caesp	SW-Stenomedit.	n
Orchidaceae	Anacamptis longicornu (Poir.) R.M.Bateman, Pridgeon & M.W.Ch	ase				1				G bulb	W-Stenomedit.	n
Orchidaceae	Anacamptis pyramidalis (L.) Rich.	8	£ - 8		4 - 4	1			3	G bulb	Eurimedit.	n
Asteraceae	Anacyclus clavatus (Desf.) Pers.					1				Tscap	Stenomedit.	n
Fabaceae	Anagyris faetida L.	\$ J	1 - M		8	1	1		8	P caesp	S-Stenomedit.	n.
Boraginaceae	Anchusa azurea Mill.					1				H scap	Eurimedit.	n
Boraginaceae	Anchusella cretica (Mill.) Bigazzi, E. Nardi & Selvi	83	S 85		2	1			25	T scap	NE-Stenomedit.	n
Poaceae	Andropogon distachyos L.	1	1	1	1	1	91	1	3	H caesp	Paleotrop.	n
Asteraceae	Andryala integrifolia L.	19 - 196 <u>-</u> - 1	-			1			10	Tscap	MeditOcc.	n
Poaceae	Anisantha diandra (Roth) Tzvelev	34	());		1	1	1	-	1	Tiscap	Eurimedit.	n
Poaceae	Anisantha fasciculata (C. Presl) Nevski subsp. fasciculata		1		1	1			19. 1.15	Tscap	S-Stenomedit.	n
Poaceae	Anisantha madritensis (L.) Nevski subsp.madritensis	Q 3	2 2		1	1	12 S	2	9	Tiscap	Eurimedit.	n
Poaceae	Anisantha riaida (Roth) Hyl.	1	1	1	1	1			-	Tiscap	Subtrop.	n
Poaceae	Anisantha rubens (L.) Nevski	S	1		1	1			8	Tscan	S-Stenomedit	n
Poaceae	Anisantha sterilis (L) Nevski			1	1	1	1			Tscan	Eurimedit	
Poaceae	Anisantha tectorum (L.) Nevski	1	1		1	1	1		12	Tscap	Paleotemp.	n
Hemionitidaceae	Anoaramma leatophylla (L.) Link		1				1		100	T caeso	Cosmopol, Subtrop.	n
Basellaceae	Anredera cordifolia (Ten) Steenis	Q 1	2 23		1	1	12 5		13. 13.	G rhiz	America Subtrop.	
Asteraceae	Anthemis arvensis L subsn. arvensis					1			100	Tscan	Stenomedit	
Asteraceae	Anthemis arvensis L subsp. incrassata (Loisel.) Nyman	10 j	1 (d)		8 8	1	9		<u>1</u>	Tscan	Medit	
Asteraceae	Anthemis chia L		2			1	1		18. 1	Tiscan	E-Medit -Mont	
Asterorece	Anthemis secundicamea Biv	10 S	1 N	1	8 8	1	1		1	Teran	S-Stenomedit	
Poscese	Anthoxanthum aracile Biv	· · · · ·	2	-		1	t i	-	· · ·	Teran	F-Stenomedit	
Poscese	Anthoxanthum adoratum 1	1	1	1	1	1	1 A	-	12	Hicaeso	Furstist	
Aniaceae	Anthriscus nemorosa (M Rieb.) Sprene	0) SO 3			- 0 .	1	6 S	5	<i>a)</i>	Hiscan	S-Euron -Sudsib	
Eshanna	Anthullis vulnorari subro, mouro (Back) Maira	8 <u> </u>	8	-	a - 6	-			200 102	H	City Changementik	
Fabaceae	Astistian asia Laska asia	0.04 3			2 2	1	1	5	85	Ch faut	W Change and a	
Scrophulariaceae	Antirchinum risukum Mill	10 10 1 1	1	1	2	-	-	-		Ch frut	Fodem	
Brassisaceae	Arabidonsis thelisee (1.) Heyeb	c:					0	2	CC	Tream	Paleotema	
Pressicaceae	Arabic colling, subra, coreg. (DC.) Minuta	2 <u>0</u>	2 02						10	H seap	Cubesday	
Pressicaceae	Arabis colline Tax subse colline	c	0			4	1		00	n scap	Made Mark	n
Pressicaceae	Arabis comna Ten, subsp. comna	8 <u></u>	s3			4	1	5	82	T scap	Neon.	n
brassicaceae	Arabis verna (L.) K. Dr.		3 53	-		1	1		10	1 scap	Stenomedit.	n
Asciepiadaceae	Around sencinera broc.	8 <u> </u>	0 <u>3</u>			-	02 0	5	82	r nan	S Amer.	
Caryophyliaceae	America reprocidados (Kono.) Guss suosp. reprocidados	0 82	3 63	2		1			10	1 scap	Paleotemp.	n
Caryophyllaceae	Arenaria serpyilijolia L. subsp. serpyilijolia	1	5 %	1	1	1	C 3	2	18	1 scap	subcosmop.	<u>n</u>
Aracese	Arisarum vulgare O.Targ.Tozz. subsp. vulgare		1 - <u>3</u> 3		2 3	1	÷	-	13) 90	Girhiz	stenomedit.	n
Poaceae	Armenatherum elatius subsp. bulbasum (Willd.) Schübl. & G.Mai	rtens	5	2.2	2	1	13	1	ŝ.	ri caesp	Paleotemp.	n
Asteraceae	Artemisia annuă L.	10 1	4	1	1	1	÷	1	22 20	1 scap	Eurasiat.	n
Asteraceae	Artemisia arborescens (Vaill.) L.				1	1				NP	5-Stenomedit.	n
Araceae	Arum italicum Mill. subsp. italicum	1 1	5 8		1.1	1	2 8		3	G rhiz	Stenomedit.	n

Poaceae	Arundo donax L.			1	<u> </u>	1	<u> </u>	1	G rhiz	Subcosmop.	(a)
Poaceae	Arundo plinii Turra	8				1	18	1	G rhiz	Stenomedit.	n
Asclepiadaceae	Asclepias curassavica L.				1	1			P caesp	America Trop.	3
Asclepiadaceae	Asclepias fruticosa L.				8 8	1	12	1 1	P caesp	Africa	
Asclepiadaceae	Asclopias physocarpa (E. Mey.) Schltr.					1			P caesp	S Africa	a (
Asparagaceae	Asparagus acutifolius L.	S			8 8	1	12	1 1	NP	Stenomedit.	n
Asparagaceae	Asparagus aethiopicus L.	1		1	1	1			G rhiz	S Africa	
Asparagaceae	Asparagus albus L.	8	8 - F		9	1	10 D	1 1	NP	W-Stenomedit.	(n)
Asparagaceae	Asparagus asparagoides (L.) Druce	1		1	1	1			P lian	S Africa	
Asparagaceae	Asparagus setaceus (Kunth) Jessop	1	8 - F	1	1	1	10 D	1 1	G rhiz	S-Stenomedit.	a l
Rubiaceae	Asperula arvensis L.					1			Tscap	Eurimedit.	n
Rubiaceae	Asperula laevigata L					1	10 · · · ·	5 - 23	H scap	W-Stenomedit.	n
Asphodelaceae	Asphadeline lutea (L.) Rchb.	8	8 1		1	1	Sk 3	8	G rhiz	E-Eurimedit.	n
Asphodelaceae	Asphodelus fistulosus L.	22			1 3	1	100 - C		Hiscap	Paleosubtrop.	n
Asphodelaceae	Asphodelus tenuifolius Cav.	8	8 3	1	1	1	8 3	1	H bienne	Paleosubtrop.	n
Aspleniaceae	Asplenium ceterach L. subsp. ceterach						1		H ros	EurasTemper.	п
Aspleniaceae	Asplenium onopteris L.	2	0		18 8	1	8	3 22	H ros	Subtrop. nesicola	n
Aspleniaceae	Asplenium petrarchae (Guérin) DC. subsp. petrarchae				1	1		· · · · ·	H ros	W-Stenomedit.	n
Aspleniaceae	Asplenium trichomanes subsp. inexpectans Lovis	8	1		12 5	1	1	0 0	H ros	Circumbor.	n
Fabaceae	Astragalus boeticus L.				1	1			Tiscap	S-Stenomedit.	n
Fabaceae	Astragalus epiglottis L. subsp. epiglottis	ŭ	1 3		12 3	1	19	1 11	Tscap	S-Stenomedit.	n
Fabaceae	Astragalus hamosus L.					1			Tscap	EurimeditTuran.	n
Fabaceae	Astrogalus pelecinus (L.) Berneby subsp. pelecinus		5 - V		1	1	18	1 8	Tscap	Stenomedit.	n
Fabaceae	Astragalus sesameus L					1			Tscap	Stenomedit.	n
Apiaceae	Athamanta sicula L	8	8 7		1	(1	1 11	H scap	SW-Stenomedit.	n.
Asteraceae	Atractylis cancellata L.					1			Tscap	S-Stenomedit.	n
Chenopodiaceae	Atriplex patula L	82	2 2		1	1	\$\$ ÷	× 84	Tscap	Circumbor.	л
Chenopodiaceae	Atriplex rosea L.	8	8 1		1	1	33	8	Tscap	C-Asia-Eurimedit.	
Cactaceae	Austrocylindropuntia subulata (Muehlenpf.) Backeb.	22			1000	1	10 C		P succ	S Amer.	(a)
Poaceae	Avena barbata Link	8	8 1	1	1	1	3k - 3	100	Tscap	Eurimedit.	
Poaceae	Avena fatua L subsp. fatua	22		1	1	1	10		Tscap	Eurasiat.	
Poaceae	Avena sterilis L.	1	1	1	1	1	8	1 2	Tscap	Eurimedit.	n
Poaceae	Avena sterilis L. subsp. sterilis	1	1	1	1	1			Tscap	Eurimedit.	п
Poaceae	Avena sterilis subsp. atherantha (C.Presl) H.Scholz	8				1	15	1 2	T scap	Eurimedit.	n
Poaceae	Avena sterilis subsp. Iudaviciana (Durieu) Gillet & Magne					1			Tscap	Eurimedit.	n
Lamiaceae	Ballota hispanica (L.) Benth.		1 1		8 8	1	1	1 11	H scap	Eurimedit.	n
Lamiaceae	Ballota nigra subsp. uncinata (Fiori & Bég.) Patzak					1	1		H scap	Eurimedit.	n
Orchidaceae	Barlia robertiana (Loisel.) Greuter	21	1		8 8	1	12	1 23	G bulb	Stenomedit.	n
Scrophulariaceae	Bellardia trixago (L.) All.					1			Tscap	Eurimedit.	n
Scrophulariaceae	Bellardia viscosa (L.) Fisch. & C.A.Mey.	8	8 7		1	1	10 D	1 8	Tscap	EurimeditSubatl.	n
Liliaceae	Bellevalia dubia (Guss.) Rchb.					1			G bulb	Endem. Sic.	n
Liliaceae	Bellevalia romana (L.) Sweet		8 6		1	1	10	1 8	G bulb	C-Eurimedit.	in //
Asteraceae	Bellis annua L. subsp. annua					1			Tscap	Stenomedit.	n
Asteraceae	Bellis margaritifolia Huter, Porta & Rigo				1	1	10		H ros	Endem.	п
Asteraceae	Bellis perennis L. var perennis	8	2 1	1	1	1	33 3	8	H ros	EuropCaucas.	n
Asteraceae	Bellis sylvestris Cirillo	22		10	1000	1	12		H ros	Stenomedit.	п
Chenopodiaceae	Beta vulgari subsp. maritima (L.) Arcang.	8	3 - D			1	8	8	1 H scap	Eurimedit.	n
Chenopodiaceae	Beta vulgaris L. subsp. vulgaris			1		1			H scap	Eurimedit.	n

Asteraceae	Bidens bipinnata L.	14	1	1	1	1	14 A	14	T scap	N-Amer.	3
Asteraceae	Bidens frondosa L.			1	1	1			T scap	N-Amer.	2
Asteraceae	Bidens pilosa L.	- 12	1	1	1	1	2 R.	1	T scap	Subcosmop.	
Asteraceae	Bidens tripartita L subsp. tripartita			1	1	1			Tscap	Eurasiat.	n
Apiaceae	Bifora testiculata (L.) Spreng.	1		1	1	1	1	1	T scap	Stenomedit.	n
Brassicaceae	Biscutella maritima Ten.				1	1			Tscap	Endem.	n
Fabaceae	Bituminaria bituminosa (L.) C.H.Stirt.			1	1	1			H scap	Eurimedit.	n
Gentaniaceae	Blackstonia acuminata (W.D.J.Koch & Ziz) Domin subsp. acumi	nata				1			Tscap	Eurimedit.	n
Gentaniaceae	Blackstonia perfoliata (L.) Huds. subsp. perfoliata	8	1	10	1	1		8	Tiscap	Eurimedit.	n
Gentaniaceae	Blackstonia perfoliata subsp. intermedia (Ten.) Zeltner					1			Tiscap	Eurimedit.	n
Nyctaginaceae	Boerhavia coccinea Mill.	8		1	1	1	a a	1	Tscap	Africa, Asia	
Boraginaceae	Borago officinalis L	1			1	1			Tscap	Eurimedit.	n
Poaceae	Bothriochloa insculpta subsp. panormitana (Parl.) Giardina & F	laimondo		<u>8</u>	1 1	1		21	H caesp	Subendem.	0.
Sterculiaceae	Brachychitan discolor F.Muell.			1					P scap	Australia	3
Sterculiaceae	Brachychiton diversifolius R.Br. subsp. diversifolius			1	e		e e.	1	P scap	Australia	
Sterculiaceae	Brachychitan populneus (Schott & Endl.) R. Br.	9	1	1	1		8 8	1	P scap	E Australia	-
Poaceae	Brachypodium distachyon (L.) P. Beauv.	-			1	1	1	1	Tiscap	Stenomedit.	n
Poaceae	Brachypodium phoenicoides (L.) Roem, & Schult.	6			-	1		5	Hicaeso	W-Stenomedit	
Poaceae	Brachynodium ninnatum (L) P. Beaux	-		- CO		1	r 1	-	Hearso	Furasiat	
Poaceae	Brachypodium retusum (Pers.) P. Beauv.		2	8		1	1 1	22	H caeso	Eurasiat.	n
Poaceae	Brachypodium sylvaticum (Huds.) P. Beauv.	1		10	-	1			H caeso	Paleotemp.	n
Brassicaceae	Brassica fruticulosa Cirillo subsp. fruticulosa		1	1	1	1		1	Hiscap	W-Stenomedit.	0
Brassicaceae	Brassica nigra (L.) W.D.J. Koch	-		-		1			Tscap	Eurimedit.	n
Brassicaceae	Brassica oleracea L	1		12		1		1	Ch suffr	CMedit	
Brassicaceae	Brassica rapa subsp. campestris (L.) A.R. Clapham	-	-	100	-	1			Tscap	Medit.	-
Brassicaceae	Brassica rupestris Raf, subsp. rupestris	1		12	12 12		1	1	Ch suffr	Endem	
Poaceae	Briza maxima L	-		100	1	1			Tscan	Subtrop	0
Poaceae	Briza minor L	17	1	10 I	1	1	8 8	1	Tscap	Subcosmop.	n
Poaceae	Bromopsis benekenii (Lanze) Holub	-				1			H caeso	Eurasiat.	n
Poaceae	Bromopsis ramosa (Huds.) Holub subso, ramosa	17	1.	10 I	1 12	1	8 8	1	Hicaeso	Eurasiat	
Poaceae	Bromus alonecuros Poir subsp. alonecuros					1			Tscan	Stenomedit	
Poaceae	Bromus hordeaceus L subsa, hordeaceus				1	1	a a		Tiscan	Subcosmon	
Poaceae	Bromus lanceolatus Both	6	-	<u>8</u> ,	1	1	8 8	1	Tscap	Paleotemp.	
Poscese	Bromus racemosus L subsp. racemosus				-	1			Teran	Furon -Caucas	
Poaceae	Bromus scopgrius L	6	1	(k)	1	1	8 8	2	Tiscan	Stenomedit	n
Moraceae	Broussonetia agovifera (L.) Vent	-		1	1	1			Picaeso	Asia	-
Verbenaceae	Buddleia madagascariensis Lam.	12	2	90		1		2	Picaesp	Madagascar	
Aniaceae	Bupleurum lancifolium Hornem.	-			-	1			Tscan	Eurimedit -Turan	
Brassicaceae	Cakile maritima Scop, subsp. maritima		2	15	2 2	-		1	Tscap	Eurosib.	n
Poaceae	Calamaarostis arenaria subsp. arundinacea (Husn.) Banfi Gala	sso & Bartoli	ucci	-		1			G rhiz	Eurimedit	
Asteraceae	Calendula arvensis (Vaill.) L	1	1	12		1		1	Tscap	SW-Stenomedit	n
Asteraceae	Calendula stellata Cav.					1			Tscap	CE-Medit	
Campanulaceae	Campanula erinus I	1	1	1	1	i		8	Tscap	Stenomedit	
Capparidaceae	Capparis spinosa L subsp. rupestris (Sm.) Nyman	2.00	1		-				NP	Stenomedit	0
Brassicaceae	Capsella bursa-pastoris (L.) Medik, subsp. bursa-pastoris		-	1	1	1	8 8	1	H bienne	Eurimedit	
Brassicaceae	Capsella rubella Reut.				1	1			Tiscap	SAmer	-
Brassicaceae	Cardamine flexuasa With	-		23			1		Hiscap	N-Medit -Mont	
Brassicaceae	Cardamine hirsuta L	1	1	1	1	1		6	Tiscap	Cosmopol	
							1.1	5			12

			-					-	-			
Sapindaceae	Cardiospermum grandiflorum Sw.	1			1	1				P lian	America Trop.	(R)
Sapindaceae	Cardiospermum halicacabum L.	(j	1 2		1	1	<u>i</u> i	÷	3	P lian	NE-MeditMont.	n
Asteraceae	Carduus argyroa Biv.	<u> </u>	î î			1			· · · · · · · · · · · · · · · · · · ·	T scap	Endem.	n
Asteraceae	Carduus pycnocephalus L. subsp pycnocephalus	8	1 8		1	1			8	H bienne	EurimeditTuran.	n
Cyperaceae	Carex acutiformis Ehrh.							1		G rhiz	Eurasiat.	n
Cyperaceae	Carex distachya Desf.	8 - 1				1	18		3	H caesp	Stenomedit.	n
Cyperaceae	Carex distans L					1				H caesp	Eurimedit.	n
Cyperaceae	Carex divisa Huds.	1	1		1 N		8	1	38	G rhiz	Eurimedit. Atl.	n
Cyperaceae	Carex divulsa Stokes					1				H caesp	Eurimedit.	n
Cyperaceae	Carex flacca subsp. erythrostachys (Hoppe) Holub	8 - 1	1		1 ji	1	1	5	38	G rhiz	Europ.	ono -
Cyperaceae	Carex leersii F.W.Schultz							1		H caesp	Eurimedit. Atl.	n
Cyperaceae	Carex pendula Huds.		1 (j)		8 8		S	1	- 22	H caesp	Eurasiat.	n
Asteraceae	Carlina aummifera (L.) Less.					1				Hros	S-Stenomedit.	n
Asteraceae	Carlina lanata L.		e (†		8 8	1	S 3		13	Tscap	Stenomedit.	(n)
Asteraceae	Carlina sicula Ten, subso, sicula		() ()			1				Hiscap	Endem, Sic.	0
Aizoaceae	Caraobrotus acinaciformis (L) L Bolus	1	7 23		1	1	19 - 19 19	-	1	Ch suffr	S Africa	
Aizoaceae	Carpobrotus edulis (L.) N.E. Br.	(()		0.70	1	a - 3	-	1	Ch suffr	S Africa	
Asteraceae	Carthamus caeruleus L		7 23		e e	1			10 112 11	Hiscan	S-Eurimedit	
Asteraceae	Casthamus craticus 1	6	()		8 8	1	G 3	c	20	Trean	Furimedit	
Arteraceae	Carthomus dontatur, (Forrek.) Vahl	2	3 22			1		-	2	Treap	Furnist	
Arteraceae	Carthamus Janatus	. .	2 32				10 - C	2	3	Trean	Eurimedit	
Commission	Conversion environtifation 1	0 <u> </u>	3 22	-	2 2	-	2	-	2	Dama	E Asia Austerlia	
Personal	Catabase equisiting (L) P. Beau	; ; ; ;	2 22	-	E (1	_	8 8		3	Cabia	Cissueher	
Postese	Catabolium belantium (Wills) H Schola	5	5 <u>35</u>			4	22		1	Tarna	Europedit Substi	
Poaceae	Catapoalum balearicum (Wilik.) H. Scholz		3 34			1	÷		1	T scap	EurimeditSubati.	n
Poaceae	Catapoalum nemipoa (spreng.) Ni. Lainz	£}	s		100	1	<u>8</u> 0	5	32	T scap	w-stenomedit.	n
Poaceae	Catapoalum rigiaum (C.) C.E.Hubb. subsp. rigiaum	-	3 34	1	1	1	8 8		10	I scap	Eurimedit.	n
Poaceae	Catapodium rigidum subsp. majus (C.Presi) F.H.Perring & P.D.Sell		5 - <i>1</i> 2		1	1	2 3	-	S.	I scap	Eurimedit.	n
Apocynaceae	Catharanthus roseus (L.) G. Don	;	2 23	1	1			-	2	Ch suffr	Madagascar	2045
Ulmaceae	Celtis australis L. subsp. australis		5	1120	8 3	1	2 3	-	8	Piscap	Eurimedit.	n
Poaceae	Cenchrus ciliaris L.		2 28 33	1	1		1		2	H caesp	Saharo-Sind.	n
Poaceae	Cenchrus setaceus (Forssk.) Morrone		1	1	1	1	1			H caesp	Subtrop.	n
Asteraceae	Centaurea calcitrapa L.		i (ji		8 8	1	4		13	H bienne	Eurimedit.	n
Asteraceae	Centaurea depressa M.Bieb.		· · · · · · · · · · · · · · · · · · ·			1		·	1	T scap	E-Medit.	n
Asteraceae	Centaurea hyalolepis Boiss. subsp. hyalolepis	()	1 13		š - 3	1	1 1	(3	H bienne	E-Stenomedit.	n
Asteraceae	Centaurea macroacantha Guss.					1			1	H bienne	Eurimedit.	n
Asteraceae	Centaurea napifolia L.	1	1 8		i i	1	8 8		3	T scap	SW-Stenomedit.	n
Asteraceae	Centaurea panormitana Lojac.						1			Ch suffr	Endem. Sic.	n
Asteraceae	Centaurea sicula L.	8	1 8		ų į	1			8	H bienne	SW-Stenomedit.	n
Asteraceae	Centaurea solstitiali subsp. schouwii (DC.) Gugler					1				H bienne	Subendem.	n
Asteraceae	Centaurea tyrrhena C.Brullo, Brullo & Giusso	1	1 - Q				1		2	Ch suffr	Endem. Sic.	n
Gentaniaceae	Centaurium erythraea Rafn subsp. erythraea				1	1				H bienne	Paleotemp.	n
Gentaniaceae	Centaurium maritimum (L.) Fritsch	1	1			1	2	5	8	Tscap	Stenomedit.	s no
Gentaniaceae	Centaurium pulchellum (Sw.) Druce subsp. pulchellum					1				T scap	Paleotemp.	n
Valerianaceae	Centranthus ruber (L.) DC. subsp. ruber	1	1		8 - S	1	1	6	3	Ch suffr	Stenomedit.	/ n c
Caryophyllaceae	Cerastium glomeratum Thuill.					1				Tscap	Eurimedit.	n
Poaceae	Ceratochloa cathartica (Vahl) Herter	8	1 (j		8 - S	1	£	í.	3	H caesp	S Amer.	
Cesalpinaceae	Ceratonia siligua L.					1		· ~		P caesp	S-Stenomedit.	
Ceratophyllaceae	Ceratophyllum demersum L.	-						1	1	Irad	Subcosmop.	n
										and the second sec		

Cesalpinaceae	Cercis siliquastrum L.				1	1				P scap	S Europ., W Asia	
Boraginaceae	Cerinthe major L. subsp. major	2 1	(§		(i)	1			2	T scap	Stenomedit.	л
Solanaceae	Cestrum parqui L'Hér.	1			1	1				NP	S Amer.	
Asteraceae	Chamaemelum fuscatum (Brot.) Vasc.	St 3	1 83		8 - S	1	1 I	6	8	Tscap	W-MeditMont.) п.
Arecaceae	Chamaerops humilis L.			1	1	1				Pscap	W-Stenomedit.	n
Liliaceae	Charybdis pancration (Steinh.) Speta		9			1	1	6	Q	G bulb	Stenomedit.	п
Iridaceae	Chasmanthe aethiopica (L.) N. E. Br.	-9				1				G rhiz	S Africa	
Iridaceae	Chasmanthe aethiopica (L.) N.E. Br.	· · · ·				1			10 10	G bulb	5 Africa	
Chenopodiaceae	Chenopodiastrum murale (L.) S. Fuentes, Uotila & Borsch	3 I	1		1	1	12 - 1		8	Tscap	Subcosmop.	n
Chenopodiaceae	Chenopodium album L. subsp. album	· · · · ·			1	1				T scap	Euroasiat.	n
Chenopodiaceae	Chenopodium vulvaria L.	12	8		1	1	2		8	T scap	Eurimedit.	n
Asteraceae	Chondrilla juncea L					1				H scap	S-EuropSudsib.	R
Euphorbiaceae	Chrozophora tinctoria (L.) Raf.	8 3	6 8			1		1	38	Tscap	EurimeditTuran.	n
Asteraceae	Cichorium endivia subsp. pumilum (Jacq.) Cout.					1				Tscap	Stenomedit.	n
Asteraceae	Cichorium intybus L.	18 1	1 8			1	18	((š.	H scap	Cosmopol.	n
Asteraceae	Cirsium creticum (Lam.) d'Urv. subsp. creticum					1				H bienne	NE-MeditMont.	n
Asteraceae	Cirsium creticum subsp. triumfettii (Lacaita) K.Werner	12 1	S \$3			1	8		28	H bienne	Subendem.	n
Asteraceae	Cirsium scabrum (Poir.) Bonnet & Barratte					1				H scap	SW-MeditMont.	n
Cistaceae	Cistus creticus subsp. eriocephalus (Viv.) Greuter & Burdet	8			á (ř.	1	8		3	NP	W-Stenomedit.	
Cistaceae	Cistus salviifolius L.					1				NP	Stenomedit.	n
Ranunculaceae	Clematis cirrhosa L.	\$2	1		8	1	8		8	P lian	Stenomedit.	ул.
Ranunculaceae	Clematis vitalba L.			100		1				P lian	EuropCaucas.	n
Lamiaceae	Clinopodium nepeta (L.) Kuntze subsp. nepeta	1	s	1	1	1			945	H scap	Orof. S-Europ.	n
Lamiaceae	Clinopodium raimondoi Spadaro, Faqi & Mazzola	3 1	8		š - 2	1	1	i -	3	H scap	Endem, Sic,	n
Colchicaceae	Colchicum cupanii Guss. subsp. cupanii	92 - O				1			-2	G bulb	Stenomedit.	n
Asteraceae	Coleostephus myconis (L.) Rchb. fil.	- (3) 			S 2	1	<u>6</u>	÷	33	Tscap	Stenomedit.	n
Araceae	Colocasia esculenta (L.) Schott	· · · ·				1			~~	G rhiz	Asia	
Convolvulaceae	Convolvulus althaeoides L.	18 1	1	1	1	1	8		8	H scand	Stenomedit.	n
Convolvulaceae	Convolvulus arvensis L.			1		1				G rhiz	Paleotemp.	n
Convolvulaceae	Convolvulus cantabrica L.	18 1	1	-		1			1	H scap	Eurimedit.	n
Convolvulaceae	Convolvulus farinosus L	11			1	1		1		G rhiz	S Africa	
Convolvulaceae	Convolvulus pentapetaloides L	8 8	8		1 1	1			8	Tscap	S-Stenomedit.	n
Convolvulaceae	Convolvulus siculus L. subsp. siculus					1				Tscap	S-Stenomedit.	n
Convolvulaceae	Convolvulus silvaticus Kit.	8	()			1	1	5	8	H scand	EurimeditTuran.	<u>. n.</u>
Fabaceae	Coronilla scorpioides (L) W.D.J.Koch					1	1			T scap	Eurimedit.	n
Sinopteridaceae	Cosentinia vellea (Aiton) Tod. subsp. vellea		1				1	£	22	H ros	EurimeditTuran.	
Crassulaceae	Crassula muscosa L		1	1	1				12	NP	SW Africa	1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 -
Crassulaceae	Crassula tillaea LestGarl.	3	1	1	8			Ę.	12	Tscap	Subatlant.	<n></n>
Asteraceae	Crepis bursifolia L.	92	2 V2	1	1	100			22	H scap	Subendem.	n
Asteraceae	Crepis foetida L. subsp. foetida	· · · ·				1			->-	T scap	Eurimedit.	n
Asteraceae	Crepis neglecta subsp. corymbosa (Ten.) Nyman	31 J		1	1	1	14		8	Tscap	C-Medit.	n
Apiaceae	Crithmum maritimum L.	20 C							1	Ch suffr	Eurimedit.	n
Rubiaceae	Crucianella latifolia L	3	1		2 E	1	8		3	Tscap	Stenomedit.	n
Rubiaceae	Crucianella maritima L.								1	Ch suffr	Stenomedit.	n
Cupressaceae	Cupressus sempervirens L	1	1 8	1	1	1			13	P scap	W-Medit.	n
Convolvulaceae	Cuscuta epithymum (L.) L. subsp. epithymum					1				Tpar	Eurasiat.	n
Primulaceae	Cyclamen hederifolium Aiton subsp. hederifolium	8 3	8			1	8		8	G bulb	N-Stenomedit.	n
Primulaceae	Cyclamen repandum Sm. subsp. repandum					1				G bulb	NW-Stenomedit.	n

Rosaceae	Cydonia oblonga Mill.					1				P scap	SW Asia	
Scrophulariaceae	Cymbalaria muralis G. Gaertn., B. Mey. & Scherb. subsp. muralis		1	1	1					Tscap	N-Eurimedit.	n
Asteraceae	Cynara cardunculus L. subsp. cardunculus		3	1 <u>8</u>		1		4 G		Hiscap	Stenomedit.	n
Poaceae	Cynodon dactylon (L.) Pers.			1		1				G rhiz	Cosmopol.	n
Boraginaceae	Cynoglossum columnae Ten.		18 - I	1. 33		1		S 8		Tiscap	NE-MeditMont.	n
Borazinaceae	Cynoglossum creticum Mill.			1		1				H bienne	Eurimedit.	
Poaceae	Cynosurus cristatus L		28 - P	0 - N		1				H caeso	EuropCaucas.	
Poaceae	Cynosurus echinatus L.		8	·		1		9		Tscap	Eurimedit.	n
Cyperaceae	Cyperus alternifolius subsp. flabelliformis Kük.					- 11 <u>50</u> -0		1		G rhiz	Madagascar	
Cyperaceae	Cyperus badius Desf.		8	1	1	1		1		He	Paleotemp.	
Cyperaceae	Cyperus esculentus L			10 - Tel - 11	10	1		1		He	Subcosmop.	0
Cyperaceae	Cyperus flavescens L		Q (2 - 22		1		1		Traesp	Subcosmop.	0
Cyperaceae	Cyperus fuscus L					1			-	Tscap	Paleotemp.	n
Cyperaceae	Cyperus rotundus L.		Q (2 2	1	1		1		G rhiz	Subcosmop.	
Rafflesiaceae	Cytinus hypocistis (L.) L			-	- 13	1				Grad	Eurimedit -Macaron	
Fabaceae	Cytisus infestus (C.Presl) Guss, subsp. infestus		Q 1	1 21	-	1		1. N		Pcaeso	Stenomedit	
Fabaceae	Cytisus laniger DC.					1		105 L.C.		Pcaesp	Subatlant.	n
Poaceae	Dactvlis alomerata L. subsp. alomerata		10. S	1 21	-	1		12 N		Hicaeso	Paleotemp.	0
Poaceae	Dactivis alomerata subsp. hispanica (Roth) Nyman					1				Hicaesp	Stenomedit	0
Alismataceae	Damasonium alisma Mill, subsp. alisma		10 I	1 11		1		1		Irad	Eurimedit	0
Poaceae	Dasypyrum villosum (L.) P.Candarev					1		10000		Tscap	EurimeditTuran.	0
Solanaceae	Datura ferox L		<u>8</u>	1. 83	1	1		S 5		Tscan	E-Asia	
Solanaceae	Datura inoxia Mill				1	1				Tiscan	C-America	
Solanaceae	Datura avercifolia Kunth		÷ 1		1	1				Tiscap	C-America	
Solanaceae	Datura stramonium L					1		97		Tiscap	America Trop.	1 1 1
Aniaceae	Daucus carota L subsp. carota	1		1	1	1		-		H bienne	Paleotemp	
Aniaceae	Daucus carota subso drenanensis (Loiac.) Heywood		8	1000		1		6 - B	1	Hbienne	Eurimedit Atl	
Apiaceae	Daucus carota subsp. aummifer (Syme) Hook f.			1 1		1			1	H bienne	W-Medit -Macarones.	
Apiaceae	Daucus carota subso, maritimus (Lam.) Batt.		Q (2 22		1		8	1	H bienne	W-Medit.	
Ranunculaceae	Delphinium emargingtum C.Presl subsp. emargingtum					1				Hiscan	SW-Stepomedit	
Ranunculaceae	Delphinium halteratum Sm. subsp. halteratum		S - 5	1 2		1		18 (i		Tscap	Stenomedit	
Poaceae	Desmazeria sicula (Jaco.) Dumort					1		105 12		Tscap	Eurimedit.	
Carvophyllaceae	Dianthus araminifolius C. Presl		Q 3	1 11	-	1	1	1. N		Ch suffr	Endem, Sic.	
Carvophyllaceae	Dianthus rupicola Biv. subsp. rupicola		105 · · · · ·				1	103 - 12		Ch suffr	Subendem.	
Carvophyllaceae	Dianthus siculus C. Presl		3	1. 83		1		19 - 13 19		Ch suffr	Subendem.	0
Convolvulaceae	Dichondra micrantha Urb.		18. I	1			<u> </u>		1	G rhiz	America Trop.	-
Poaceae	Diaitaria ischaemum (Schweige,) Muhl, subsp. ischaemum		<u>1</u>	1. 18	1	1		a - 8		Tiscap	Subcosmop.	n
Poaceae	Digitaria sanguinalis (L.) Scop.			1	1	1				Tiscan	Cosmopol	
Dioscoreaceae	Dioscorea communis (L.) Caddick & Wilkin		53	1 C2 22		1		e e		Hiscap	E-Eurimedit.	0
Brassicaceae	Dialotaxis erucaides (L.) DC. subsp. erucaides		8			1		6		Tiscap	W-Stenomedit.	
Brassicaceae	Dialotaxis muralis (L.) DC.		1				1			Tscap	EurimeditSubatl.	0
Brassicaceae	Dialotaxis viminea (L.) DC.		1			1	1	6 - B		Tscan	Eurimedit	
Dipsacaceae	Diosacus fullonum L. subsp. fullonum		10 10 10 1	1		1	2.5			H bienne	Eurimedit.	
Asteraceae	Dittrichia arayeolens (L) Greuter		\$ S	2		1		19 19		Tiscap	EurimeditTuran.	0
Asteraceae	Dittrichia viscosa (L.) Greuter subsp. viscosa	1		1	1	1				H scap	Eurimedit.	n
Bignoniaceae	Dolichandra unguis-cati (L.) L.G. Lohmann		1	1	1	1		8 8		P lian	CS-America	a
Agavaceae	Dracaena draco L. subsp. draca	1			1		1			Piscap	Canary Is.	
Aizoaceae	Drosanthemum floribundum (Haw.) Schwantes		12	1 23	1	1 I		1 ()		Ch suffr	S Africa	

Aspidiaceae	Dryopteris pallida (Bory) Maire & Petitm. subsp. pallida					1				G rhiz	Europ.	n
Aspidiaceae	Dryopteris villarii (Bellardi) Schinz & Thell.		8 B			1	12	1		G rhiz	Orof. S-Europ.	n
Verbenaceae	Duranta erecta L				1	1	89	2 22		P caesp	S Amer.	
Chenopodiaceae	Dysphania ambrosioides (L.) Mosyakin & Clemants				1	1			· · · · ·	Tiscap	America Trop.	
Chenopodiaceae	Dysphania multifida (L.) Mosyakin & Clemants		1		1	1	<u>ل</u> ا ا	1 X		H scap	S Amer.	
Cucurbitaceae	Ecballium elaterium (L.) A. Rich.					1	10	· · · · · ·		G bulb	Eurimedit.	0
Poaceae	Echinaria capitata (L.) Desf.		1 I			1	3			T scap	Stenomedit.	n
Poaceae	Echinochlaa calona (L.) Link					1		1		Tscap	Subtrop.	n
Poaceae	Echinochloa crus-galli (L.) P.Beauv. subsp. crus-galli					1	8	1		Tscap	Subcosmop.	n
Boraginaceae	Echium parviflorum Moench					1				T scap	Stenomedit.	n
Boraginaceae	Echium plantagineum L				1	1	8 1	: 8		T scap	Eurimedit.	n
Asteraceae	Eclipta prostrata (L.) L.			1	1					T scap	Neotropic.	п
Cyperaceae	Eleocharis palustris (L.) Roem. & Schult. subsp. palustris	5	1				2	1		G rhiz	Subcosmop.	n
Poaceae	Eleusine indica (L.) Gaertn.					1		1		T scap	Termocosmop.	
Poaceae	Elymus panormitanus (Parl.) Tzvelev		8			1	8	%		H caesp	MeditMont.	n
Poaceae	Elymus repens (L.) Gould subsp. repens					1				G rhiz	Circumbor.	n
Fabaceae	Emerus major subsp emeroides (Boiss & Spruner) Soldano & F.	Conti	8 B		3	1	1	1 0		NP	E-Medit.	n
Onagraceae	Epilobium hirsutum L.					1		1		H scap	Paleotemp.	n
Onagraceae	Epilobium parviflorum Schreb.		2		2 - 2	1	8.5	1		H scap	Paleotemp.	п
Onagraceae	Epilobium tetragonum subsp. tournefortii (Michalet) H.Lév.		1		1	1	33	i ne là		H scap	Paleotemp.	n
Equisetaceae	Equisetum arvense L.					1	· · · · · ·	1		G rhiz	Circumbor.	п
Equisetaceae	Equisetum ramosissimum Desf.		1		Q (1	(i) (i)	1		G rhiz	Circumbor.	n
Equisetaceae	Equisetum telmateia Ehrh.					1		1		G rhiz	Circumbor.	п
Poaceae	Eragrostis cilianensis Janch, subsp. cilianensis				1	1	S 1	3		Tscap	Cosmopol.	n
Poaceae	Eragrostis pectinacea (Michx.) Nees				1	1				T scap	N-Amer.	2
Poaceae	Eragrostis pilosa (L.) P. Beauv. subsp. pilosa					1	S - 1	1 8		T scap	Cosmopol.	n
Asteraceae	Erigeron annuus (L.) Desf.	1		1	1	1				Tscap	N-Amer.	3
Asteraceae	Erigeron bonariensis L.	1	1	1	1	1	1	()		T scap	America Trop.	
Asteraceae	Erigeron canadensis L.	1	1	1	1	1	1			T scap	N-Amer.	2
Asteraceae	Erigeron karvinskianus DC.	1	1	1	1	1	2 1	i 33		H scap	Subtrop.	n
Asteraceae	Erigeron sumatrensis Retz.	1	1	1	1	1				Tscap	S Amer.	
Rosaceae	Eriobotrya japonica (Thunb.) Lindl.		8 5		1	1	Ş	1 - Vi		P scap	E-Asia	S = 0
Geraniaceae	Erodium acaula (L.) Bech. & Thell.			1	1	1				H ros	MeditMont.	n
Geraniaceae	Erodium alnifolium Guss.		8 - F			1		1. Vi		T scap	W-Stenomedit.	n
Geraniaceae	Erodium chium (L.) Willd.	-			10 000 S	1	89	2 92	1	Tscap	Eurimedit.	n
Geraniaceae	Erodium cicutarium (L.) L'Her.				1	1				T scap	Subcosmop.	n
Geraniaceae	Erodium laciniatum (Cav.) Willd. subsp. laciniatum				1	1	<u>لا</u>		ľ	T scap	Stenomedit.	n
Geraniaceae	Erodium malacoides (L.) L'Hér. subsp. malacoides	1	18	1	1	1	1			Tscap	Stenomedit.	п
Geraniaceae	Erodium moschatum (L.) L'Her.					1	3: 	8		Tscap	Eurimedit.	n
Brassicaceae	Eruca vesicaria (L.) Cav.					1				Tscap	EurimeditTuran.	0
Fabaceae	Ervum gracile DC.				8 8	1	8 1	3 8		T scap	Eurimedit.	n
Apiaceae	Eryngium campestre L.					1				H scap	Eurimedit.	n
Apiaceae	Eryngium dichotomum Desf.					1	Q 3	1		H scap	SW-Stenomedit.	n
Apiaceae	Eryngium triquetrum Vahl					1				H scap	SW-Stenomedit.	n
Brassicaceae	Erysimum bonannianum C. Presl					1	8 1	1 - 3		H scap	Endem. Sic.	n
Brassicaceae	Erysimum cheiri (L.) Crantz				1					Ch suffr	E-Medit.	n
Cesalpinaceae	Erythrostemon gilliesii (Wall. ex Hook.) Klotzsch		a 1			1	8	1 - 37		P caesp	S Amer.	(R)
Myrtaceae	Eucalyptus camaldulensis Dehnh. subsp. camaldulensis	1		1	1	1		1		P scap	Australia	

			1	P	1					-		
Caryophyllaceae	Eudianthe coeli-rosa (L.) Endl.	12 5			1	1			1. Contraction (1997)	T scap	Stenomedit.	n
Euphorbiaceae	Euphorbia bivonae Steud. subsp. bivonae						1			NP	SW-Stenomedit.	n
Euphorbiaceae	Euphorbia ceratocarpa Ten.				i - 3	1				Ch suffr	Endem.	n
Euphorbiaceae	Euphorbia characias L.					1				NP	Subendem.	n
Euphorbiaceae	Euphorbia corallioides L.	- 1			1	1				G rhiz	Endem.	n
Euphorbiaceae	Euphorbia dendroides L.					1	1			NP	Stenomedit.	n
Euphorbiaceae	Euphorbia exigua L. subsp. exigua	12 13		2	1 - 33	1	1		£	T scap	Eurimedit.	n
Euphorbiaceae	Euphorbia graminea Jacq.			1						T scap	C America	
Euphorbiaceae	Eupharbia helioscopia L. subsp. helioscopia	10.00		1	1	1	9		8	Tscap	Cosmopol.	n
Euphorbiaceae	Euphorbia heterophylla L					1		1		Tiscap	America	
Euphorbiaceae	Euphorbia humifusa Schlecht.			1	i 88	1	s		18	Trept	Asia	-
Euphorbiaceae	Euphorbia hypericifolia L.	8 8		1	()		1		8	Tiscap	Paleotrop.	
Euphorbiaceae	Euphorbia maculata L	- C		1		1			1	Tiscap	N-Amer.	
Funhorbiaceae	Euphorbia maculata L	8 8		1	6				10000	Trent	N-Amer	-
Funhorbiaceae	Eucharbia autoas Las			1	1	21	-		1	Tiscan	C & N America	
Funhorbiaceae	Euphorbia autors Lag					1				Tscan	Furimedit	
Funhorbiaceae	Euphorbia natalias L				20		-		210	Ch frut	Eurimedit	
Euchashisses	Eucharbia paralus L		-	4	40 00	-				Tama	Europeite	2
Euphorbiaceae	Euclid Sectors Alter		-		- <u>*</u>	-	-	-		Teres	N. America	n
Cuphorbiaceae	Euphorbia prostrata Anton			-						Cable	W Charles	
Euphorbiaceae	Euphorbia serrata L.	-		8	1	1			-	Grniz	w-stenomedit.	n
cupnorbiaceae	cupnorola terracina L.				20.00	1				1 scap	Stenomedit.	n
Polygonaceae	Fallopia balaschuanica (Regel) fiolub	-			1	1	1)	24	-	Plian	Asia	
Polygonaceae	Fallopia dumetorum (L) Holub					1		1		T scap	Eurosib.	n
Valerianaceae	Fedia graciliflora Fisch. & C.A. Mey.	- 8 - 8		d}	1	1	1		2	T scap	Stenomedit.	n
Poaceae	Festuca circummediterranea Patzke					1				H caesp	Eurimedit.	n
Poaceae	Festuca danthonii Asch. & Graebn. subsp. danthonii	- E - B		8 - B	1	1	1 1		8	T caesp	Stenomedit.	n
Poaceae	Festuca lanceolata Forssk.	10 10			1 28 28	30			1	T scap	Stenomedit.	n
Poaceae	Festuca ligustica (All.) Bertol.				1	1			and the second	T caesp	W-Stenomedit.	0
Poaceae	Festuca myuros L. subsp. myuros	16 18		1	1	1			8	T caesp	Subcosmop.	n
Poaceae	Festuca pyramidata Link	1			1	1				T caesp	Eurimedit.	8
Poaceae	Festuca sicula C. Presl	10 0		12 I	1	1			ξ.	H caesp	W-MeditMont.	n
Moraceae	Ficus carica L.	1	1	1	1	1	1	1		P scap	EurimeditTuran.	n
Moraceae	Ficus macrophylla subsp. columnaris (C.Moore) P.S.Geen	- D		1	1 - 2					P scap	E Australia	
Moraceae	Ficus microcarpa Lf.		1	1	1					P scap	Australia, Malesia	2
Moraceae	Ficus watkinsiana F.M. Bailey		1	1	1 2		1 1			P scap	E-Australia	2
Asteraceae	Filago germanica (L.) Huds.					1				Tiscap	Paleotemp.	n
Asteraceae	Filogo pyamaea L.	14 12		12 I	1 21	1	1 1		1	Trept	Stenomedit.	n
Aniaceae	Foeniculum vulgare Mill, subsp. vulgare					1				Hiscap	S-Eurimedit.	
Aniaceae	Foeniculum vulgare subsp. pigeritum (Ucria) Bée.	13 8		S 3	1 2	1	1 1		1	Hiscap	S-Eurimedit.	0
Frankeniaceae	Frankenia laevis L. subsp. laevis			i	1	1		1	-	Ch suffr	Stenomedit.	
Oleaceae	Fraxinus arnus L subsp. ornus	8 8		3	- 10	1	1 12		8	Piscap	S-EuropSudsib.	
Cistoreae	Fumana juniperina (Dunal) Pau				1 12	1				Ch suffr	W-Medit	
Panaveraceae	Fumoria hastardii Boreau	2 2		Q 2	1 84	1	s 9		2	Tscan	Subatlant	
Papaveraceae	Fumaria consolata I, subso, consolata	1		1	- 10 - 33	1				Terro	Eurimedit	0
Panaveraceae	Eumonia Elabellata Cara			2 3 to 3		1	ě ř		8	Trent	Stanomadit.	-
n apaveraceae	Fumaria officiaalis L. subsa. officiaalis				2	4		-	0	Tana	Defectores	0
Papaveraceae	Considered officialities in subsp. officialities	1		1	1	1	2		8	Tacap	Paleotemp.	n
rapaveraceae	rumaria parvijiora Lam.				1	1			-	1 scap	curimeditTuran.	n
Asteraceae	Galactites tomentosus Moench	10 10		1	1 1	1	1 1			n Dienne	Stenomedit.	n

Artarara	Galiaraan anniflara Cau			4	1		1		Trees	S Amer	
Asteraceae	Galiasoga avadziradiata Puiz & Pou	1 1		-		0			Tara	S Amer	
Asteraceae Bubisses	Galium agazine I	1	-	1.4	1	5.4	8 - 72		Tarap	S Amer.	
Rubiaceae	Galium aparine E.			6	-	1	8 <u>8</u>		T scap	Eurasiac.	п
Rubincene	Galium musala (L.) All	30 0	-			1	8 8		Treap	Stenomedit	n
Dubiaceae	Galium tricocautum Dandu					-			Tarap	Engine dis	
Rubiaceae	Galian cheomotom baney	32 3		2 2		1	8 - N		Tiscap	Curimedic.	n
Rubiaceae	Gallum verrucesum Huds. subsp. verrucesum	-		2 3	-	1			T scap	Stenomedit.	n
Rubiaceae	Gastadum verum L. subsp. verum					1			Tiscap	CuropCaucas.	n
Poaceae	Gastridium scabrum C. Presi	-		-	-	1			i scap	Stenomedit.	n
Poaceae	Gescheiden vertreusen (Godan) sehnz achten.	10 B		1	1	1			i scap	StenomeditAti.	
Poaceae	Gaudinia fragilis (L.) P. besuv.	85 - 3				1	3 3		1 scap	curimedit.	<u>n</u>
Geraniaceae	Geranium columbinum L.	-				1			I scap	S-EuropSudsib.	n
Geraniaceae	Geranium dissectum L.	36 - D		£	-	1	3		1 scap	Eurasiat.	n
Geraniaceae	Geranium lucidum L.					1			Tscap	Eurimedit.	n
Geraniaceae	Geranium molle L	31		8 8	1	1	1. 11		T scap	Eurasiat.	n
Geraniaceae	Geranium purpureum Vill.			1	1	1	1		T scap	Eurimedit.	n
Geraniaceae	Geranium robertianum L.	1	1	1	1	1	1. Vi		T scap	Subcosmop.	n
Geraniaceae	Geranium ratundifolium L.	1	1	1	1	1			T scap	Paleotemp.	n
Geraniaceae	Geranium sanguineum L.					1			H scap	EuropCaucas.	n
Geraniaceae	Geranium tuberosum L. subsp. tuberosum			8 8		1			G rhiz	S-EuropSudsib.	n
Asteraceae	Geropogon hybridus (L.) Sch.Bip.					1	· · · · ·		T scap	Stenomedit.	n
Iridaceae	Gladiolus byzantinus, Mill.					1			G bulb	Stenomedit.	n
Iridaceae	Gladiolus communis L.					1			G bulb	S-EuropSudsib.	n
Iridaceae	Gladiolus italicus Mill.			į – į	1	1	8 8		G bulb	Eurimedit.	n
Boraginaceae	Glandora rosmarinifolia (Ten.) D. C. Thomas						1		Ch suffr	Subendem.	n
Asteraceae	Glebionis coronaria (L.) Spach			į – į	1	1	8 8		Tscap	Stenomedit.	n
Asteraceae	Glebionis segetum (L.) Fourr.				1	1			Tscap	Stenomedit.	n
Aizoaceae	Glinus lotoides L.	1		1 I	1	1	4		T scap	Paleotrop.	n
Poaceae	Glyceria fluitans (L.) R. Br.							1	Irad	Subcosmop.	n
Poaceae	Glyceria spicata Guss.			1		2	4	1	Irad	Subcosmop.	n
Crassulaceae	Graptopetalum paraguayense (N.E.Br.) Walther subsp.		1				1		Ch succ	Mexico	
Poaceae	Hainardia cylindrica (Willd.) Greuter	1		8 - S		1	1. S		T scap	Eurimedit.	8 n 8
Araliaceae	Hedera canariensis Willd.				1	1			P lian	Canarie	3
Araliaceae	Hedera helix L. subsp. helix	1		8 - 3	1	1	1. X		P lian	Eurimedit.	n
Asteraceae	Hedypnois rhaqadioloides (L.) F.W. Schmidt				1	1			Tscap	Stenomedit.	n
Cistaceae	Helianthemum salicifolium (L.) Mill.	-				1			Tscap	Eurimedit.	n
Asteraceae	Helianthus pauciflorus Nutt.	1 1		8 8		1	8 8		T scap	N-Amer.	3 al 3
Asteraceae	Helichrysum luteoalbum (L.) Rchb.	-		1		1			Tscap	Subcosmop.	n
Asteraceae	Helichrysum pendulum (C. Presi) C. Presi	1		8 8		2	1		Ch suffr	Endem, Sic.	n
Poaceae	Helictotrichon convolutum (C. Presi) Henrad	-				1	1		H caeso	NE-MeditMont.	n
Boraeinaceae	Heliotropium europaeum L	5 S		1	1	1	1 2		Tiscan	Eurimedit	n
Asteraceae	Helminthotheca aculeata (Vahli) Lack subsp. aculeata	-			1	1			Hiscan	SW-Stenomedit	
Aniaceae	Helesciedium andifierum (LLW D.) Kech subsp. andifierum	90 S			-	1	2	9	Hiscop	Furimedit	
Fahaceae	Hinnormais hiflora Sorene	-			1	1	1		Tiscan	Eurimedit	
Brassicareas	Hirschfeldin income (I.) Lass -Fors subsp. income	1 1		1	1	1	20	<u> </u>	Histop	Eurimedit	
Poperate	Holeus lanatus I subsp. lanatus	-	-		-			1	Hores	Ciscumber	-
Postere	Washing Kulkarun I	1 1		3 2		2.74	0.0	-	ri caesp	Culture Culture	n
Pouceae	Hordwarn barbosam L.	-			-	1	8 - H		T caesp	Subtrop.	
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PascesceProduct muturum stops, Regionand [1:1] Arang,II <t< td=""><td>Poaceae</td><td>Hordeum murinum L. subsp. murinum</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td></td><td>18 - 19 - 19 - 19 - 19 - 19 - 19 - 19 -</td><td>į – į</td><td>T scap</td><td>Circumbor.</td><td>n</td></t<>	Poaceae	Hordeum murinum L. subsp. murinum	1	1	1	1	1		18 - 19 - 19 - 19 - 19 - 19 - 19 - 19 -	į – į	T scap	Circumbor.	n
Brailsace Monuging procentations ([1) Reports All Sections ([1) Reports All Sectio	Poaceae	Hordeum murinum subsp. leporinum (Link) Arcang.	22	1	1	1	1				T scap	Eurimedit.	n
Catasees Phicareas introgularies (L) Brance & Review Impacts and strongularies (L) Seview	Brassicaceae	Hornungia procumbens (L) Hayek	2.4	100	s (2107 - 25		1		80 8	· · · · ·	T scap	Subcosmop.	n
Fibacese Mynescopy of chinosts (L.) Suit Image of the second of the sec	Cactaceae	Hylocereus triangularis (L.) Britton & Rose	8		1	1	1		8	()	P succ	C America	a
Solancest Myscheman Jahr Image Image Trans Entimedit Image Atteracest Myscheman Jahr 1 <td< td=""><td>Fabaceae</td><td>Hymenocarpos circinnatus (L.) Savi</td><td></td><td>-</td><td></td><td></td><td>1</td><td></td><td>2</td><td>· · · · ·</td><td>H scap</td><td>Stenomedit.</td><td>n</td></td<>	Fabaceae	Hymenocarpos circinnatus (L.) Savi		-			1		2	· · · · ·	H scap	Stenomedit.	n
Solutions Mysech radiation 1 <td>Solanaceae</td> <td>Hyoscyamus albus L.</td> <td>1</td> <td>1</td> <td>1</td> <td></td> <td>1 3</td> <td></td> <td></td> <td>()</td> <td>Tscap</td> <td>Eurimedit.</td> <td>n</td>	Solanaceae	Hyoscyamus albus L.	1	1	1		1 3			()	Tscap	Eurimedit.	n
Approxess Mysess Mysess andress L Test Test Test Stenometic n Peacese Myserhein kinder (Datgleichen L Lobert Andresse Notesten L Notesten	Solanaceae	Hyoscyamus niger L.		1	1				· · · · ·		Tscap	Eurasiat.	n
Pacese Myonthesis Nine (N1) Stage Josep, Ninz Image Notes Notes	Asteraceae	Hyoseris radiata L	1	1	1	1	1		8 1	-	Tros	Stenomedit.	n
Papertes Myporthesis Initial (Delling 1. Lápez Mypericum procumbers Image:	Poaceae	Hyparrhenia hirta (L.) Stapf subsp. hirta					1				H caesp	Paleotrop.	n
Papewerscee Mysecom precumberat L toolsp. procumbers Image: Construct T Targe Paiewerse N Chuilessee Myseciom perfortum L. subsp. profractum Image: Construct T Image: Const Image	Poaceae	Hyparrhenia sinaica (Deille) G. López	8		1		1		8		H caeso	W-Stenomedit.	n
Chailessee Physician perfortam L I	Papaveraceae	Hypecoum procumbens L subsp. procumbens					1			· · · · · · · · · · · · · · · · · · ·	Tscap	Paleotemp.	n
Charlacses Physichner physicher Lubba, perfortum Image: Charlacses Physicher Screenze Physicher Screenze Image: Charlacses Physicher Screenze Physicher Screenz	Clusiaceae	Hypericum perfoliatum L			2 2		1	-	12	1	Hscap	Stenomedit.	n
Azerszeze Nysobseiz schyrophoru L. n 1 <	Clusiaceae	Hypericum perforatum L. subsp. perforatum					1			· · · · · · · · · · · · · · · · · · ·	Hiscap	Paleotemp.	n
Arstracese Myschearis creatist (L) Bary & Chaub. 1<	Asteraceae	Hypochaeris achyrophorus L	27		2 32	1	1		11 S	1	Tscan	Stenomedit	
Astraceae Hypochawi nakona jerugita (L) Cex. Pass. & Gibelli L <thl< th=""> <thl< th=""> <thl< th=""> <thl< th=""></thl<></thl<></thl<></thl<>	Asteraceae	Hynochoeris cretensis (L) Bory & Chaub	1	1	1	1	1				Hiscan	NE-Medit -Mont	
Asteraceae Mypochawin addicate L in the second of the seco	Asteraceae	Hypochaeris laevianta (L.) Ces. Pass & Gibelli	- 8	-	-	-	1		10 E	i i	Hiros	SW-Medit -Mont	
Brasiscase Barls semperflorens L Image: Semperf	Asteraceae	Hypochaeris radicata I	70				1		8. X	· · · · · ·	Hros	Furon -Caucas	0
Descende Imparte of plandra (L) Reusch. Imparte of plandra (L) Reusch (L) Reusch. Imparte of plandra	Brarrisarea	Iberis semperflorens I	10		2 72		-	1	10 I		Chauffe	Subandam	
Product Implement of primotic () product, in presentation, in presentating presentating presentation, in presentation, in presentation,	Descent	Importe sufficient (L) Provide	-72					-	्य		C shis	Termerermen	
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Convolvulace Jonnes purg (L), Reth	Convolvulaceae	loomood indica (Burn) Marr		3		-	1		0) - S		Grhin	W.Aris	
Common Legan Image and the analysis of the analy	Convolvulaceae	loomood autourog (L.) Both	- <u>(4</u>		1		4				Cable	America Trees	
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Indexse Instructure Indexse Interview	Iridaceae	ins germanica L	- 63	-	1		1		10 - 11 - 11 - 11 - 11 - 11 - 11 - 11 -	-	Giniz	norticle	
Darassizaceae Idea thinchord L. subsp. intercono 1 <t< td=""><td>Iridaceae</td><td>Ins pseudopumila Tineo</td><td></td><td></td><td></td><td></td><td>1</td><td></td><td>2 X</td><td></td><td>Grhiz</td><td>Subendem.</td><td>n</td></t<>	Iridaceae	Ins pseudopumila Tineo					1		2 X		Grhiz	Subendem.	n
Bigmonicesee Jacobase disphinibility (UNA) Pelser & Velskamp 1 1 1 Tracey SAmer. a Juncaseae Juncus acutus L subsp. acutus 1 Tracey SAmer. n Juncaseae Juncus acutus L subsp. acutus 1 1 Tracey SAmer. n Juncaseae Juncus acutus L subsp. acutus 1 1 1 H casey Eurimedit. n Juncaseae Juncus articulatus L subsp. acutus 1 1 1 Griss Circumbor. n Juncaseae Juncus stritus E. Mey. 1 1 1 Griss W-Stenomedit. n Crassulaceae Kalanchoë diagonanzitane 1 1 1 1 Stenomedit. n Crassulaceae Kalanchoë diagonanzitane 1 <td< td=""><td>Brassicaceae</td><td>Isatis tinctoria L. subsp. tinctoria</td><td><u>8</u></td><td></td><td>1</td><td>1</td><td>1</td><td></td><td>0 ji</td><td></td><td>H bienne</td><td>SE ASIa</td><td>•</td></td<>	Brassicaceae	Isatis tinctoria L. subsp. tinctoria	<u>8</u>		1	1	1		0 ji		H bienne	SE ASIa	•
Acteracese Jacobase delphniipfolis (VAh) Peter & Velskamp 1 1 T scap SW-Medit-Mont. n Juncacese Juncacese Juncacese Juncacese 1 Hacesp Eurimedit-Subst. n Juncacese Juncacese Juncacese 1 G rhiz Greumbor. n Juncacese Juncacese Juncacese 1 T caeps Eurimedit-Subst. n Juncacese Juncacese Juncacese Juncacese 1 G rhiz W-Stenomedit. n Juncacese Juncacese Mano planifolis (MII) Asch. 1 1 G buils S-Stenomedit. n Indecese Kalonchoë Xoginamontiane RaymHamet & H.Perrier 1 1 1 P succ Madgascar a Crassulacese Kalonchoë Adgresontiane RaymHamet & H.Perrier 1 <t< td=""><td>Bignoniaceae</td><td>Jacaranda mimosifolia D.Don</td><td>1</td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td>P scap</td><td>S Amer.</td><td>-</td></t<>	Bignoniaceae	Jacaranda mimosifolia D.Don	1			1					P scap	S Amer.	-
Juncascear Juncus acutus L subsp. acutus Image: Construct acutus L subsp. acutus Image: Construction L subsp. acutus <t< td=""><td>Asteraceae</td><td>Jacobaea delphiniifolia (Vahl) Pelser & Veldkamp</td><td></td><td></td><td>i</td><td></td><td>1</td><td></td><td>di di</td><td></td><td>Tscap</td><td>SW-MeditMont.</td><td>n</td></t<>	Asteraceae	Jacobaea delphiniifolia (Vahl) Pelser & Veldkamp			i		1		di di		Tscap	SW-MeditMont.	n
Junczesze Junczy articulatus 1	Juncaceae	Juncus acutus L. subsp. acutus								1	H caesp	Eurimedit.	n
Juncacese Juncacese Juncacese I Tesep Eurimedit-Substi n Juncacese Juncacese Juncacese Juncacese In G bulb Stenomedit. n Iridacese Juncacese Juncacese Juncacese In G bulb Stenomedit. n Iridacese Juncacese Kalanchoe khoughtonii D.B.Ward 1 1 I G bulb Stenomedit. n Crassulacese Kalanchoe daignamontiana RaymHamet & H.Perrier 1 1 1 I P suce Madagascar a Crassulacese Kalanchoe daignamontiana RaymHamet & H.Perrier 1 1 1 I P suce Madagascar a Crassulacese Kolokia spuria 1 1 1 1 P suce Madagascar a Crassulacese Kolonchoë daignamontiana RaymHamet & H.Perrier 1 1 1 T scap Eurimedit. n Spindacese Kolonchoë daignamontiana RaymHamet & H.Perrier 1 1 1 T scap Eurimedit. n Spindacese Kolonchoë daignamotiana RaymHamet & H.Perrier 1 1 1 T scap Eurimedit. n Aplacese Kondmannia sicula (L	Juncaceae	Juncus articulatus L. subsp. articulatus			i - 11		i		1		G rhiz	Circumbor.	n
Juncaszeze Juncaus striature E. May. 1 G rhiz W-Stenomedit. n Crassulaceze Kalanchoë Khoughtonii D.B.Ward 1 1 G buib 5-Stenomedit. n Crassulaceze Kalanchoë Khoughtonii D.B.Ward 1 1 1 G buib 5-Stenomedit. n Crassulaceze Kalanchoë dalgeansitie K.B. Zeyh. 1 1 1 1 P succ Madagascar a Crassulaceze Kalanchoë dalgeansitie K.B. Zeyh. 1 1 1 1 P succ Madagascar a Lamiaceze Kickia spuria 1 1 1 1 1 P succ Madagascar a Dipsacaceze Koulvariaria paniculata lawn. 1 1 1 1 P suce Madagascar a Aplaceze Koulvariaria paniculata lawn. 1 1 1 1 P suce Madagascar a Aplaceze Koulvariaria paniculata lawn. 1 1 1 1 P suce Madagascar a Aplaceze Koulvariaria paniculata lawn. 1 1 1 1 T scap Eurimedit. n Aplaceze Lactura stria 1 1 1 1 1	Juncaceae	Juncus pygmaeus Thuill.							1		T caesp	EurimeditSubatl.	n
Inidescea Juno planifolia (MIII.) Asch. Image: Consultance of the sector of the s	Juncaceae	Juncus striatus E. Mey.			£ - 3		š		1	<u> </u>	G rhiz	W-Stenomedit.	0
Crassulacese Kalanchoë xhoughtonii D.B.Ward 1 1 1 Pruce Horticle a Crassulacese Kalanchoë delagemontiane RaymHamet & H.Perrier 1 1 1 1 Pruce Madagascar a Crassulacese Kalanchoë delageënstie Koll. & Zeyh. 1 1 1 1 1 Pruce Madagascar a Lamiacese Kickis spuria 1 1 1 1 1 Pruce Madagascar a Dispassozese Konuria integrifoli (L) Dumort. subsp. spuria 1 1 1 1 Tscap Euraist. n Dispassozese Konuria integrifoli (L) Dec. 1 1 1 1 Proce Madagascar a Apiacese Kolonioutra paniculate Laxm. 1 1 1 1 Proce Madagascar n Apiacese Kondmania sicula (L) DC. 1 1 1 1 Tracep Eurimedit. n Asteracese Lactuce asligna L 0 1 1 1 1 1 n Asteracese Lactuce asligna L 1 1 1 1 1 1 n Asteracese Lactuce asligna L<	Iridaceae	Juno planifolia (Mill.) Asch.	34	125 0			1		a		G bulb	S-Stenomedit.	n
Crassulacese Kalanchoë daigramontiana RaymHamet & H. Perrier 1	Crassulaceae	Kalanchoë ×houghtonii D.B.Ward		1	1		3		8 I	()	P succ	Horticle	•
Crassulacese Kolonchoë delogoënsis Edul, 8. Zeyh. 1 </td <td>Crassulaceae</td> <td>Kalanchoe daigremontiana RaymHamet & H.Perrier</td> <td></td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td></td> <td>· ·</td> <td></td> <td>P succ</td> <td>Madagascar</td> <td></td>	Crassulaceae	Kalanchoe daigremontiana RaymHamet & H.Perrier		1	1	1	1		· ·		P succ	Madagascar	
Lamiacese Kickvia spunia (L.) Dumont. subsp. spunia I	Crassulaceae	Kalanchoë delagoënsis Eckl. & Zeyh.	2.5	1	1	1	1		2.5 2		P succ	Madagascar	
Dipsacesee Koelrowardia paniculato Lawan. 1 1 1 1 T scap Eurimedit. n Sapindacese Koelrowardia paniculato Lawan. 1 1 1 1 Pscap E-Asia a Apiacese Koelrowardia paniculato Lawan. 1 1 1 1 Pscap E-Asia a Apiacese Kondrawardia paniculato Lawan. 1 1 1 Mescap Stenomedit. n Asteracese Lactuco sofivo L. subsp. serviola (L.) Galasso, Banfi, Bartolucci & Ardenghi 1 1 1 1 Tscap EurimeditTuran. n Asteracese Lactuco sofivo L. subsp. serviola (L.) Galasso, Banfi, Bartolucci & Ardenghi 1 1 1 1 Tscap EurimeditTuran. n Poacese Lactuco sofivo L. subsp. serviola (L.) Galasso, Banfi, Bartolucci & Ardenghi 1 1 1 1 Tscap Eurimedit. n Poacese Lactuco sofivo L. subsp. serviola (L.) Galasso, Banfi, Bartolucci & Ardenghi 1 1 1 Tscap Eurimedit. n Poacese Lactuco sofivos L. 1 1 1 1 1 Tscap StenomeditCutan. n Lamiacese Lamium ampikaioule L.	Lamiaceae	Kickxia spuria (L.) Dumort. subsp. spuria	1				1			()	T scap	Eurasiat.	n
Sapindacese Kondmannia paniculato Laxm. 1 1 1 1 Pacap E-Asia a Apiacese Kundmannia sicula (L) DC. I I I I H scap Stenomedit. n Apiacese Lactuca saligna L. I I I I I H scap Stenomedit. n Asteracese Lactuca saligna L. I <t< td=""><td>Dipsacaceae</td><td>Knautia integrifolia (L.) Bertol subsp. integrifolia</td><td>5 C C</td><td></td><td></td><td></td><td>1</td><td></td><td>2 · · · ·</td><td></td><td>T scap</td><td>Eurimedit.</td><td>n</td></t<>	Dipsacaceae	Knautia integrifolia (L.) Bertol subsp. integrifolia	5 C C				1		2 · · · ·		T scap	Eurimedit.	n
Apiacese Kundmannia sicula (L, DC. H scap Stenomedit: n Asteracese Lactuca saligna L. I I I T scap Eurimedit. Turan. n Asteracese Lactuca saligna L. I I I I T scap Eurimedit. Turan. n Asteracese Lactuca saligna L. I I I I I I n Asteracese Lactuca vinosa L. I I I I I I n Poacese Lagurus ovatus L. subap. ovatus I I I I I I n Poacese Lamuro divisos L. I I I I I I n Simacese Lamuro divisos L. I I I I I n Poacese Lamuro divisos L. I I I I I I I Simacese Lamica divisos L. I I I I I I I Simacese Lamuro divisos L. I I I I I I I Simacese Lamuro divisos L. I I I I I I	Sapindaceae	Koelreuteria paniculata Laxm.	1		1	1	1				P scap	E-Asia	
Asteracese Lactuce soligne L I I I Tacap Eurimedit-Turan. n Asteracese Lactuce solive L subsp. service (L Galasso, Banfi, Bartolucci & Ardenghi 1 1 1 1 1 H bienne S-EuropSudsib. n Asteracese Lactuce solive L subsp. service (L Galasso, Banfi, Bartolucci & Ardenghi 1 1 1 1 1 1 n N Asteracese Lactuce vives L S-EuropSudsib. n n Poacese Lagurus ovatus L subsp. ovatus 1 1 1 1 1 1 N N N Poacese Lamitorese Lamitorese Lamitorese 1 1 1 1 N	Apiaceae	Kundmannia sicula (L.) DC.	12. 24		1000		1		20 - P		H scap	Stenomedit.	n
Asteracese Lactuce series L Lobes, series L Galaxies, Banfi, Bartolucci & Ardenghi 1 1 1 1 1 1 H biene Sterage. In Asteracese Lactuce viruse L Lactuce viruse L Lactuce viruse L T T 1 1 1 1 1 T T T T N N Poacese Lagurus vortus L subsp. ovortus 1 1 1 1 1 N </td <td>Asteraceae</td> <td>Lactuca saligna L.</td> <td>8</td> <td>1</td> <td>1</td> <td></td> <td>1</td> <td></td> <td>8</td> <td></td> <td>Tscap</td> <td>EurimeditTuran.</td> <td>n</td>	Asteraceae	Lactuca saligna L.	8	1	1		1		8		Tscap	EurimeditTuran.	n
Asteraceae Lactuce virose L 1 <td>Asteraceae</td> <td>Lactuca sativa L. subsp. serriola (L.) Galasso, Banfi, Bartolucci & Ard</td> <td>lenghi</td> <td></td> <td>1</td> <td>1</td> <td>1</td> <td></td> <td></td> <td></td> <td>H bienne</td> <td>S-EuropSudsib.</td> <td>n</td>	Asteraceae	Lactuca sativa L. subsp. serriola (L.) Galasso, Banfi, Bartolucci & Ard	lenghi		1	1	1				H bienne	S-EuropSudsib.	n
Poscese Lagurus ovatus L subsp. avatus 1 1 1 1 1 T scap Eurimedit. n Poscese Lamiarckia aurea (L.) Moench 1 1 1 1 T scap StenomeditTuran. n Lamiaceae Lamius maphicaraule L 1 1 1 1 T scap PacemeditTuran. n Verbenaceae Lontana camara L. 1 1 1 1 P caesp Neotropic. n Fabscese Lathyrus amphicarpos L. 1 1 1 1 T scap Stenomedit. n Fabscese Lathyrus annuuz L. 1 1 1 T scap Stenomedit. n	Asteraceae	Lactuca virosa L.	1	1	1	1	1		8 1	1	Tscap	StenomeditAtl.	n
Poacese Lamarckia aurea (L.) Moench 1 1 1 1 T scap Stenomedit-Turan. n Lamiacese Lamium amplexicaule L 1 1 1 1 1 T scap Paleotemp. n Verbencese Lattiona comora L. 1 1 1 1 1 Paleotemp. n Fabaceae Lathyrus amphicarpos L. 1 1 1 1 T scap Stenomedit. n Fabaceae Lathyrus amphicarpos L. 1 1 1 T scap Stenomedit. n	Poaceae	Lagurus ovatus L. subsp. ovatus			1	1	1				Tscap	Eurimedit.	n
Lamiacese Lamium amplexicaule L 1 1 1 1 1 T scap Paleotemp. n Verbenacese Lantana comara L. 1 1 1 1 1 Paesa Neotropic. n Fabacese Lathyrus amphicarpos L. 1 1 1 T scap Stenomedit. n Fabacese Lathyrus amphicarpos L. 1 1 T scap Stenomedit. n	Poaceae	Lamarckia aurea. (L.) Moench		1	1	1	1		<u>s</u>		Tscap	StenomeditTuran.	n
Verbenacese Lontana camara L. 1 1 1 1 1 P caesp Neotropic. n Fabacese Lothyrus amphicarpos L. 1 1 1 1 T scap Stenomedit. n Fabacese Lathyrus annua L. 1 1 1 T scap T nonmedit. n	Lamiaceae	Lamium amplexicaule L.	1		1	1	1				Tscap	Paleotemp.	n
Fabacese Lathyrus amphicarpos L. 1 Tscap Stenomedit. n Fabacese Lathyrus annuus L. 1 Tscap Eurimedit. n	Verbenaceae	Lantana camara L.	1	-	1	1	1	1	3		Picaesp	Neotropic.	n
Fabacese Lathyrus annuus L. 1 Tscap Eurimedit. n	Fabaceae	Lathyrus amphicarpos L.					1				Tscap	Stenomedit.	n
	Fabaceae	Lathyrus annuus L.	81		5 T/		1		(i 1	()	Tscap	Eurimedit.	0

Fabaceae	Lathyrus aphaca L. subsp. aphaca			5) 	1 2	1	11 11		8	Tiscap	Eurimedit.	n
Fabaceae	Lathyrus clymenum L		1			1				T scap	Stenomedit.	n
Fabaceae	Lathyrus gorgoni Parl.	11 - E	i.	<u>8</u>	3 3	1				Tscap	SE-Stenomedit.	n
Fabaceae	Lathyrus hirsutus L.					1				T scap	Eurimedit.	n
Fabaceae	Lathyrus latifolius L.	8	5	<u> </u>	8 8	1			8	H scand	S-EuropSudsib.	n
Fabaceae	Lathyrus ochrus (L.) DC.					1				Tscap	Stenomedit.	n
Fabaceae	Lathyrus odoratus L	1		8	1	1	18 - 18		8	Tscap	Endem.	n
Fabaceae	Lathyrus oleraceus subsp. biflorus (Raf.) H.Schaef., Coulot & Raba	aute				1				T caesp	Asia	3
Fabaceae	Lathyrus pratensis L. subsp. pratensis	8	į.	3	1 1	1	1 S		1	H scap	Paleotemp.	(n)
Fabaceae	Lathyrus setifolius L.					1				Tscap	Eurimedit.	n
Fabaceae	Lathyrus sphaericus Retz.	· · · · ·		5.5	S - 21	1	2 2			T scap	Eurimedit.	n
Campanulaceae	Legousia falcata (Ten.) Janch. subsp. falcata	9	8	33	1	1	8 8		ii -	T scap	Stenomedit.	n
Campanulaceae	Legousia hybrida (L.) Delarbre		-	· · · ·	1	1				T scap	EurimeditSubatl.	n
Lemnaceae	Lemna gibba L.	9	E.	3	1		8 8	1	ii	Inat	Subcosmop.	n
Asteraceae	Leontodon tuberosus L.		·	10		1				H ros	Stenomedit.	n
Brassicaceae	Lepidium coronopus (L.) Al-Shehbaz	8 8	1	1	1	1	0 6		8	Trept	Eurimedit.	n
Brassicaceae	Lepidium didymum L			1	1	1				Trept	S Amer.	2
Brassicaceae	Lepidium didymum L	1	1	1	1	1				Trept	S Amer.	
Brassicaceae	Lepidium draba L. subsp. draba		0.4		· · · · · ·	1				G rhiz	Giamaica	2
Brassicaceae	Lepidium graminifolium L. subsp. graminifolium	8	1	1	1	1	11 78		8	H scap	Eurimedit.	n
Fabaceae	Leucaena leucocephala subsp. glabrata (Rose) Zárate					1				P caesp	America Trop.	2
Oleaceae	Ligustrum vulgare L.	1	1	1	1		1 1			NP	EuropCaucas.	. n.
Plumbaginaceae	Limonium bocconei (Lojac.) Litard.							1		Ch suffr	Endem. Sic.	n
Scrophulariaceae	Linaria reflexa (L.) Desf. subsp. reflexa	1	1	1	1	1	8 8		3	Trept	SW-Stenomedit.	0
Linaceae	Linum strictum L.					1				Tscap	Stenomedit.	n
Linaceae	Linum trigynum L.	3	į.	3	1 B	1	8 8		1	Tscap	Eurimedit.	n
Linaceae	Linum usitatissimum L. subsp. usitatissimum				1	1				Tscap	Agronomic	n
Linaceae	Linum usitatissimum subsp. angustifolium (Huds.) Thell.		°	55. · ·		1	1			H bienne	Eurimedit.	n
Brassicaceae	Lobularia maritima (L.) Desv.	1	1	1	1	1	1		1	H scap	Stenomedit.	n
Poaceae	Lolium arundinaceum (Schreb.) Darbysh. subsp. arundinaceum	27. 28.08% T		12 22		1	Press and	1		H caesp	Paleotemp.	n
Poaceae	Lolium multiflorum Lam.	9		8	i	1	16 8		5k	T scap	Medit.	n
Poaceae	Lolium perenne L.	1	1	1	1	1				H caesp	Circumbor.	n
Poaceae	Lolium rigidum Gaudin, subsp. rigidum	1		8	2 2	1	0		2	Tscap	Subtrop.	n
Poaceae	Lolium siculum Parl.					1				H scap	Eurimedit.	n
Poaceae	Lolium temulentum L.	1	ŝ	18. 18	3 2	1				Tscap	Subcosmop.	n
Dipsacaceae	Lomelosia cretica (L.) Greuter & Burdet		1				1			Ch frut	Stenomedit.	n
Asteraceae	Lonas annua (L.) Vines & Druce	8	1	<u> </u>	S - 33	1			8	Tscap	SW-MeditMont.	n
Caprifoliaceae	Lonicera implexa Aiton subsp. implexa					1				P lian	Stenomedit.	n
Caprifoliaceae	Lonicera japonica Thunb.	1	1	3	1	1	10 I		1	P lian	E-Asia	0
Caprifoliaceae	Lonicera xylosteum L	1			1	1				P caesp	EuropCaucas.	D
Fabaceae	Lotus angustissimus L.	1	(<u> </u>	\$ 7.	1	1		1	Tscap	W-Medit.	n
Fabaceae	Lotus biflorus Desr.					1				Tscap	Stenomedit.	n
Fabaceae	Lotus corniculatus L. subsp. corniculatus			88	s 91	1	8 8		10	H scap	Paleotemp.	n
Fabaceae	Lotus creticus L.	1	1	3	i 19	1	1. S		1	H scap	Stenomedit.	n
Fabaceae	Lotus cytisoides L.			· · · ·		1			1	Ch suffr	Stenomedit.	n
Fabaceae	Lotus edulis L.	91	1	3	j - 19	1	8 8		1	Tscap	Stenomedit.	n
Fabaceae	Lotus hirsutus L.			12.	1	1				Ch suffr	Eurimedit.	n
Fabaceae	Lotus omithopodioides L	8 8	8	S.	2	1			8	Tiscap	Stenomedit	0

Fabaceae	Lotus rectus L.	8	8 - 8	4	3	1	8	1	3	H scap	Stenomedit.	<u>/n</u>
abaceae	Lotus tenuis Willd.					1				H scap	Subcosmop.	n
abaceae	Lotus tetragonolobus L	88	S 58	1	8	1			20	Ch suffr	Eurimedit.	n
abaceae	Lupinus albus L. subsp. albus	3	16 - S		3	1	6	6	36 3	Tscap	E-Stenomedit.	n
abaceae	Lupinus cosentinii Guss.	2				1				Tscap	W-Stenomedit.	n
olanaceae	Lycium europaeum L.	3	16 - S		1	1	6 <u>1</u>	i i	33	NP	Eurimedit.	n
amiaceae	Lycopus europaeus L.	2						1		H scap	Paleotemp.	n
rimulaceae	Lysimachia arvensis (L.) U. Manns & Anderb. subsp. arvensis	8	12 - 22		1	1	8 9	1	9	Trept	Eurimedit.	n
rimulaceae	Lysimachia foemina (Mill.) U. Manns & Anderb.		1		1	1				Trept	Subcosmop.	n
rimulaceae	Lysimachia linum-stellatum L.	8	12 - 22		13	1	8 0	1	8 3	Tscap	Stenomedit	n
vthraceae	Lythrum acutanaulum Lae				1			1		Tscap	Eurimedit	n
vthraceae	Lythrum junceum Banks & Sol.	3	12 23				12	1	<u>3</u>	Hscap	Stenomedit	n
Valvaceae	Malva arborea (L.) Webb & Berthel.				1	1				H bienne	Stenomedit.	n
Aalvaceae	Malva cretica Cav. subsp. cretica	3	2		1	1	8		3. 9	Tiscan	Stenomedit	
Aalvaceae	Malva nicaeensis All.				1	1				Tscap	Stenomedit	
Aalvaceae	Malva oxyloba Boiss.	10			1	1	1		3	Tscap	E-Medit.	n
Aalvaceae	Malva parviflora L.		Î î		1	1				Tscap	Stenomedit.	n
Aalvaceae	Malva sylvestris L.	10			1	1	3		1	Hiscap	Eurosib	(n)
Aalvaceae	Malva trimestris (L.) Salisb		Î Î		1	1				Tiscan	Stenomedit	
olanaceae	Mandragora autumpalis Bertol	12	2 02 1 21	5	0.0	1	-	-	1	Hims	Stenomedit	
amiaceae	Marrubium vulaare L		8 8	8	1	1	6	-	9	Hiscap	S-EuropSudsib.	
rassicaceae	Matthiola incana (L.) W.T.Aiton subsp. incana		1		050-0		:10	-		Ch suffe	Stenomedit	
rassicaceae	Matthiola incana subsp. runestris (Baf.) Nyman	3	1000		3		1		9 <u>1</u>	Ch suffr	Subendem	
rassicaceae	Matthiala tricusaidata (L) B. Br	-	02 00			-			1	Tiscan	Stenomedit	
abaceae	Medicago arabica (L) Huds.	Q	2 22		1	1	2	2		Tiscap	Eurimedit	
abaceae	Medicago ciliaris (L.) All.		0 2	1	1	1				Tscan	S-Stenomedit	
abaceae	Medicago intertexta (I.) Mill	8	1 22		1	1	8	5	8	Tscan	W-Medit -Macarones	
abaceae	Medicago italica (Mill.) Grande					1		2		Tscan	W-Medit -Macarones	
abaceae	Medicago littoralis Loisel.	3	12 23		- 18	-	12 I		1	Tscap	Eurimedit	n
abaceae	Medicado Jupulina L.					1	26 S	2		Tiscan	Paleotemp	
abaceae	Medicana avrex Willd	2	1 0		1	1	8		19	Tiscan	Stenomedit	
abaceae	Medicago murex Willd	S	10. 79			1				Tscan	Stenomedit	
abaceae	Medicado muticolentis Tineo		12 10	8	ŝ	1	1	6	20 1	Tscan	C-Medit	
inhaceae	Medicago orbicularis (L.) Bartal	S	20 72.		1	1				Terro	Enrimadit	
abaceae	Medicaaa aalvaaaraha L	-	S 28	2	1	1		2	10	Tscan	Eurimedit	
abaceae	Medicago polynospila C.	20	8 - 3S		1	1		-	3 <u>6</u>	Tiscan	Eurimedit	
abaceae	Medicago rugosa Desr		2 <u>22</u>		1	1	-	-	19	Tscan	S-Stenomedit	
abaceae	Medicano scutellata (I.) Mill	8	16		1		6	-	Q	Tecan	Furimedit	
abaceae	Medicano tenoreana DC	12	- 13 	8	1	1			19	Tiscan	S-Euron -Sudsih	
abacese	Medicago truncatula Gaertn	(c)	a (2)		1	1	8	ŝ.		Tiscap	Stenomedit	n
abaceae	Medicago turbinata (L.) All.	4.0	13 - P	1	1	1	-		-	Tiscap	Stenomedit	
lincene	Melasphaerula araminea (L. f.). Ker Gawl	8	43.00				8	2	2	Ghulb	S Africa	
Aeliocene	Malia aredarach I	24	13 6 8 92		1	1	-	-	2	Press	Aris	
increase .	Malica ciliata I, subra, ciliata		2 01		200425	-				Hichero	Furimadit	
oncene	Malice minute L. subsp. crimite		20 - 23			1	8			Hichern	Stenomedit	
	Malirea officinalis subsp. altissima (Sm.) Arrans	12	2 01		2.5	-				Harris	Europeantie	SHO
amaceae	Malitais and income and the state of the sta	15	a		13	1	2	2		n scap	E Madia	n
annaceae	mencus menssopnynum subsp. albida (Guss.) P. W. Ball	1.2	a			1		2 200	-2	iii scap	c wedit.	ាះ

Lamiaceae	Mentha suaveolens Ehrh. subsp. suaveolens			1	1			1	H scap	Eurimedit.	n
Lamiaceae	Mentha suavolens subsp. insularis (Req.) Greuter	1 (i		8 8	8		3	1	H scap	Subendem.	n
Euphorbiaceae	Mercurialis annua L.	1	1	1	1	1			T scap	Paleotemp.	n
Aizoaceae	Mesembryanthemum cordifolium L.f.	1		8	1				Ch suffr	S Africa	
Lamiaceae	Micromeria graeca Rchb. subsp. graeca					1	1		Ch suffr	Stenomedit.	n
Lamiaceae	Micromeria graeca subsp. fruticulosa (Bertol.) Guinea	1		8	1	1	1		Ch suffr	Endem.	n
Lamiaceae	Micromeria graeca subsp. tenuifolia (Ten.) Nyman					1	1		Ch suffr	Endem.	n
Poaceae	Milium effusum L. subsp. effusum	1		1	1	1	1		G rhiz	Circumbor.	n
Nyctaginaceae	Mirabilis jalapa L.			1	1	1			G bulb	America Trop.	
Nyctaginaceae	Mirabilis longiflora L	8		S - 1	1	1			G bulb	America Trop.	
Scrophulariaceae	Misopates calycinum Rothm.				1	1			Tscap	W-Stenomedit.	n
Scrophulariaceae	Misopates orontium (L.) Raf.				1	1			T scap	Eurimedit.	n
Caryophyllaceae	Moehringia pentandra Gay	1. ji		9 - E	6 8	1		8	Tscap	Eurimedit.	n
Portulacaceae	Montia arvensis Wallr.				0 (C	1			T scap	Circumbor.	n
Iridaceae	Moraea sisyrinchium (L.) Ker Gawl.	i i		Q	1	1			G bulb	Stenomedit.	n
Moraceae	Morus alba L.					1		1	P scap	E-Asia	2
Moraceae	Morus nigra L.			8 - S	1 8	1	3	1	P scap	SW Asia	•
Liliaceae	Muscari commutatum Guss.					1			G bulb	E-Stenomedit.	n
Liliaceae	Muscari comosum (L.) Mill.			8 8	i 8	1	3		G bulb	Eurimedit.	n
Liliaceae	Muscari parviflorum Desf.					1			G bulb	E-Stenomedit.	n
Myoporaceae	Myoporum tenuifolium G. Forst.	1		1	1				P caesp	Australia	
Boraginaceae	Myosotis ramosissima Rochel subsp. ramosissima					1			T scap	EuropCaucas.	n
Myrtaceae	Myrtus communis L.	8 - B		S	l	1	-		P caesp	Stenomedit.	n
Amaryllidaceae	Narcissus tazetta L. subsp. tazetta					1			G bulb	Stenomedit.	n
Orchidaceae	Neotinea lactea (Poir.) R.M.Bateman, Pridgeon & M.W.Chase	5 S		1 I	())	1			G bulb	Stenomedit.	n
Orchidaceae	Neotinea tridentata (Scop.) R.M.Bateman, Pridgeon & M.W.Chas	e				1			G bulb	Eurimedit.	n
Orchidaceae	Neotinea tridentata (Scop.) R.M.Bateman, Pridgeon & M.W.Chas	e .			2 83	1			G bulb	Eurimedit.	n
Nephrolepidaceae	Nephrolepis cordifolia (L.) C. Presl.	2		1	6	101		3 cr 1	H caesp	Tropical region	n
Apocynaceae	Nerium oleander L. subsp. oleander			1	1	1		1	P caesp	S-Stenomedit.	n
Brassicaceae	Neslia paniculata subsp. thracica (Velen.) Bornm.	5		9 i	1	1			Tiscap	EurimeditTuran.	n
Solanaceae	Nicandra physalodes (L.) Gaertn.			1	1	1			T scap	S Amer.	
Solanaceae	Nicotiono glouco Graham	1 (i	1	1	1	1	3		NP	S Amer.	•
Ranunculaceae	Nigella damascena L.					1			T scap	Eurimedit.	n
Boraginaceae	Nonea vesicaria (L.) Rchb.	ti di		28 S	1 8	1	3		Tscap	W-Stenomedit.	n
Amaryllidaceae	Nothoscordum borbonicum Kunth			1					G bulb	S Amer.	•
Asteraceae	Notobasis syriaca (L.) Cass.	1		8	1	1			T scap	Stenomedit.	n
Apiaceae	Oenanthe aquatica (L.) Poir.							1	H scap	Eurasiat.	n
Apiaceae	Oenanthe crocata L.	i i		8	1 2			1	H scap	Subatlant.	0
Apiaceae	Oenanthe globulosa L.							1	H scap	W-Medit.	n
Oleaceae	Olea europaea L. var. europaea	2 2		1 I	1	1			P caesp	Stenomedit.	-
Oleaceae	Olea europaea var. sylvestris Brot.	1		1	1	1			P caesp	Stenomedit.	2
Poaceae	Oloptum milioceum (L.) Röser & H.R. Hamasha	80. 1990			1	1	1	1	H caesp	Stenomedit.	n
Poaceae	Oloptum milioceum (L.) Röser & H.R.Hamasha			1	1	1			Tscap	C-Asia	2
Poaceae	Oloptum thomasii (Duby) Banfi & Galasso				1	1	1		H caesp	Stenomedit.	n
Fabaceae	Onobrychis caput-galli (L) Lam.	line on a		91 - 1	6 8	1			Tscap	Stenomedit.	n
Fabaceae	Ononis alopecuroides subsp. exalopecuroides (G.López) Greuter	& Burdet			· · · · ·	1			T scap	W-Medit.	n
Fabaceae	Ononis mitissima L.	6		Q 8		1			Tscap	Stenomedit.	n
Fabaceae	Ononis omithopodiaides L					1	1		Tscap	Stenomedit.	n

Fabaceae	Ononis pendula s ubsp. boissieri (Širj.) Devesa		· · · · · ·			1			T scap	W-Medit.	n
Fabaceae	Ononis viscosa subsp. breviflora (DC.) Nyman	3 I				1	94 - B (3	T scap	CW-Medit.	n
Asteraceae	Onopordum illyricum L. subsp. illyricum					1			H bienne	Stenomedit.	n
Orchidaceae	Ophrys forestieri (Rchb.f.) Lojac.	8 1	8		ų į	1	21 - 12 - 12 - 12 - 12 - 12 - 12 - 12 -	3	G builb	Stenomedit.	n
Orchidaceae	Ophrys panormitana (Tod.) Soó					1			G bulb	Endem. Sic.	n
Orchidaceae	Ophrys sicula Tineo	3 1	1 8		1 - H	1		3	G bulb	Stenomedit.	n
Orchidaceae	Ophrys sphegodes Mill. subsp. sphegodes					1			G bulb	Eurimedit.	n
Cactaceae	Opuntia amyclaea Ten.	8 1	i		1 I	1	1	2	P succ	C-America	(a)
Cactaceae	Opuntia dejecta Salm-Dyck					1	1		P succ	America Trop.	
Cactaceae	Opuntia dillenii (Ker-Gawl) Haw.	3	5 S			1	1	8	P succ	America Trop.	(*)
Cactaceae	Opuntia engelmannii engelmannii Engelm.					1			P succ	N-Amer.	2
Cactaceae	Opuntia ficus-indica (L.) Mill.	1	1	1	1	1	1	8	P succ	America Trop.	(R)
Cactaceae	Opuntia stricta (Haw.) Haw.					1			P succ	S Amer., Messico, Cuba	
Orchidaceae	Orchis anthropophora (L.) All.	\$	E - 93		8	1		33	G bulb	MeditAtlant.	n
Orchidaceae	Orchis brancifortii Biv.	20	2 00			1		10	G bulb	Endem.	n
Orchidaceae	Orchis italica Poir.		1 (C.)			1		10	G bulb	Stenomedit.	л
Lamiaceae	Origanum vulgare subsp. viridulum (Martrin-Donos) Nyman	3 i	8		200 - 100 200	1	1	3	H scap	Eurasiat.	n
Apiaceae	Orlaya grandiflora (L.) Hoffm.	12 C				1	27. 27.04 C	10	T scap	Stenomedit.	n
Liliaceae	Ornithogalum umbellatum L.	8	1		8 8	1		8	G bulb	Eurimedit.	n
Fabaceae	Ornithopus compressus L.					1			Tscap	Eurimedit.	n
Orobanchaceae	Orobanche alba Wiild.	8 1	8		Q (1		8	Tpar	Eurasiat.	n
Orobanchaceae	Orobanche amethystea Thuill.					1			Tpar	Subatlant.	n
Orobanchaceae	Orobanche canescens C.Presl	S 3	1 8			1		8	Tpar	Stenomedit.	n
Orobanchaceae	Orobanche caryophyllacea Sm.					1			Tpar	Subatlant.	n
Orobanchaceae	Orobanche crenata Forssk.	2 1	5		1	1	8	18	Tpar	EurimeditTuran.	n
Orobanchaceae	Orobanche gracilis Sm.					1			Tpar	SW-Stenomedit.	n
Drobanchaceae	Orobanche hederae Duby	8 1	8		1	1	1	8	Tpar	Eurimedit.	A.
Orobanchaceae	Orobanche litorea Guss.							1	Tpar	Stenomedit.	n
Orobanchaceae	Orobanche minor Sm.	8	E 93		1	1	3 B .	8	Tpar	Paleotemp.	/ n .:
Orobanchaceae	Orobanche pubescens d'Urv.					1			Tpar	E-Stenomedit.	n
Orobanchaceae	Orobanche sanguinea C. Presl	245 - 5	s 88		2 9	1	-c 2)	1	Tpar	Stenomedit.	n
Drobanchaceae	Orobanche variegata Wallr.	3 3	8		8	1	9 1	33	Tpar	Stenomedit.	n
Santalaceae	Osyris alba L					1		22	NP	Eurimedit.	n
Oxalidaceae	Oxalis corniculata L.	1	1	1	1	1	9	3	Hrept	Eurimedit.	n
Oxalidaceae	Oxalis pes-caprae L.	1	1	1	1	1		-2	G bulb	S Africa	
Oxalidaceae	Oxalis purpurea L.	8 1	1 2	1	1			8	G buib	S Africa	
Chenopodiaceae	Oxybasis urbica (L.) S.Fuentes, Uotila & Borsch				1	1			T scap	Eurosib.	n
Asteraceae	Pallenis spinosa (L.) Cass. subsp. spinosa	18 1	1 8	_	1	1		8	Tscap	Eurimedit.	n
Poaceae	Panicum repens L.			1	1	1			G rhiz	Paleosubtrop.	n
Papaveraceae	Papaver dubium L.	Q 1	1 8		1	1	8 8	18	Tscap	EurimeditTuran.	
Papaveraceae	Papaver hybridum L.				1	1			Tscap	EurimeditTuran.	
Papaveraceae	Papaver pinnatifidum Moris	1	5 - 83	1	1	1		22	Tscap	Stenomedit.	0.00
Papaveraceae	Papaver rhoeas L. subsp rhoeas			1	1	1			Tscap	E-MeditMont.	
Papaveraceae	Papaver setigerum DC.	3			8 8	1	1 I I	12	Tscap	W-MeditMont.	n.
Poaceae	Parapholis filiformis (Roth) C.E. Hubb.					1			Tscap	EurimeditSubatl.	n
Poaceae	Parapholis marginata Runemark	3	E 92		§ 3	1	3	8	Tscap	Eurimedit. Asia, Africa	2 n
Poaceae	Parapholis pycnantha (Hack.) C.E. Hubb.	20				1		1.0	Tscap	EurimeditSubatl.	n
Poscese	Parapholis striggs (Dumort) C E Hubb	12	1 22		-	1		12	Tren	Furimadit -Subati	

Scrophulariaceae	Parentucellia latifolia (L.) Caruel					1			T scap	Eurimedit.	n
Urticaceae	Parietaria judaica L.		1	1	1	1	1		H scap	EurimeditMacaron.	n
Urticaceae	Parietaria Iusitanica L. subsp. Iusitanica		1	1	1	1	1		Trept	Stenomedit.	n
Cesalpinaceae	Parkinsonia aculeata L.			1	1	1			P scap	America Trop.	
Poaceae	Patzkea coerulescens (Desf.) H.Scholz					1			H caesp	SW-MeditMont.	n
Polygonaceae	Persicaria amphibia (L) Delarbre			1	1			1	G rhiz	Subcosmop.	n
Polygonaceae	Persicaria decipiens (R. Br.) K.L. Wilson							1	H scap	Subcosmop.	n
Polygonaceae	Persicaria hydropiper (L.) Delarbre	8 8		1	. Ø			1	Tscap	Circumbor.	n)
Polygonaceae	Persicaria lapathifolia (L.) Delarbre subsp. lapathifolia							1	T scap	Paleotemp.	n
Polygonaceae	Persicaria maculasa Gray	8 8		1. I	5 - M		1 B	1	Tscap	Subcosmop.	α.
Caryophyllaceae	Petrorhagia dubia (Raf.) G. López Gonzáles & Romo					1			Tscap	S-Stenomedit.	n
Caryophyllaceae	Petrorhagia illyrica subsp. haynaldiana (F.N.Williams) P.W.Ball 8	k Heywood				1			H caesp	E-Medit.	n
Caryophyllaceae	Petrorhagia saxifraga subsp. gasparrini (Guss.) Greuter & Burde	t		<u>i</u>	8	1	1	100 C	H caesp	Eurimedit.	n
Asteraceae	Phagnalon saxatile (L) Cass.	1	1	1	1	1	1		Ch suffr	W-Stenomedit.	n
Poaceae	Phalaris aquatica L.			Ş	1			1	H caesp	Stenomedit.	n
Poaceae	Phalaris brachystachys Link					1			Tscap	Stenomedit.	n
Poaceae	Phalaris canariensis L.				1 8	1		1	Tscap	Eurimedit.	n
Poaceae	Phalaris coerulescens Desf.					1			H caesp	Stenomedit.	n
Poaceae	Phalaris minor Retz.			12		1	8		Tscap	Subtrop.	n
Poaceae	Phalaris paradoxa L.					1			Tscap	Stenomedit.	n
Crassulaceae	Phedimus stellatus (L) Raf.		1				1		Ch succ	Stenomedit.	n
Orobanchaceae	Phelipanche lavandulacea (Rchb.) Pomel subsp. lavandulacea					1			Tpar	W-Stenomedit.	n
Orobanchaceae	Phelipanche mutelii (F.W.Schultz) Reut.	1		<u>8</u>	1	1	1 1		Tpar	Paleotemp.	n.:
Orobanchaceae	Phelipanche nana (Reut.) Sojak	1		1	1	1			Tpar	Paleotemp.	n
Orobanchaceae	Phelipanche schultzii (Mutel) Pomel	8 8		1 1	5 - SS	1	1	S	Tpar	Paleotrop.	n.
Oleaceae	Phillyrea latifolia L.					1			P caesp	Stenomedit.	n
Poaceae	Phleum echinatum Host	8 - S			1	1	(S - 5		Tscap	NE-Stenomedit.	n
Lamiaceae	Phlomis fruticosa L.	8		1 - I	E	1	1		NP	N-Stenomedit.	n
Arecaceae	Phoenix canariensis H. Wildpret			1	1	1			P scap	Canarie	•
Arecaceae	Phoenix dactylifera L.	8		1	1	1	1		P scap	Paleosubtrop.	•
Poaceae	Phragmites australis (Cav.) Steud. subsp. australis				·			1	G rhiz	Subcosmop.	n
Verbenaceae	Phyla nadiflara (L.) Greene	1		18	1 8			1	Hrept	Pantrop.	n
Phyllanthaceae	Phyllanthus tenellus Roxb.			1					T scap	Madagascar; Mauritius's Isla	•
Phytolaccaceae	Phytolacca americana L			18 1	1	1			P scap	N-Amer.	
Asteraceae	Picris hieracioides L. subsp. hieracioides				1	1			H scap	Medit.	n
Urticaceae	Pilea microphylla (L.) Liebm.		1	8	Si		1		T caesp	America trop.	
Pinaceae	Pinus halepensis Mill. subsp. halepensis	1		1	1	1			P scap	Stenomedit.	n
Pinaceae	Pinus pinea L.				1	1	8 8		P scap	Eurimedit.	n
Anacardiaceae	Pistacia lentiscus L.					1			P caesp	S-Stenomedit.	n
Anacardiaceae	Pistacia terebinthus L subsp. terebinthus	8 8		1	(1	1 B	5	P caesp	Eurimedit.	n.
Pittosporaceae	Pittosporum tabira (Thunb.) W.T. Aiton		1	1	1	1			P caesp	E Asia	
Plantaginaceae	Plantago afra L. subsp. afra	8 8		1	1	1	1 i		Tscap	Stenomedit.	n
Plantaginaceae	Plantago altissima L					1			H ros	SE-Europ.	n
Plantaginaceae	Plantago bellardii All. subsp. bellardii				· 22	1	1		T scap	S-Stenomedit.	n
Plantaginaceae	Plantago coronopus L.			9	6 - 83	1	1		T scap	Eurimedit.	n
Plantaginaceae	Plantago lagopus L.			1	1	1			T scap	Stenomedit.	8
Plantaginaceae	Plantago lanceolata L.	8		1	1	1			H ros	Eurasiat.	n
Plantaginaceae	Plantago major L subsp. major			1	1	1			Hiros	Furasiat	n

Platanaceae	Platanus hispanica Münchh.				1	1			P scap	Eurimedit.	n
Plumbaginaceae	Plumbago auriculata Lam.		1	1		i - 1		1	P caesp	S Africa	
Poaceae	Poo annua L.					1			T caesp	Cosmopol.	n
Poaceae	Poa bulbosa L. subsp. bulbosa		22.	· · · ·		1			H caesp	Paleotemp.	n
Poaceae	Poa infirma Kunth		8			1		8 B	T caesp	Eurimedit.	n
Poaceae	Poa pratensis L. subsp. pratensis		-2	· · · · · · · · · · · · · · · · · · ·		1			H caesp	Circumbor.	n
Poaceae	Poa trivialis L.		(k)	1		1		1	H caesp	Eurasiat.	n
Caryophyllaceae	Polycarpon tetraphyllum subsp. diphyllum (Cav.) O. Bolós & Font	1	1	1	1	1			T scap	Stenomedit.	n
Polygonaceae	Polygonum arenastrum Boreau		1	1		1 8			Hrept	Endem.	n
Polygonaceae	Polygonum aviculare L. subsp. aviculare			1		1			Trept	Cosmopol.	n
Polygonaceae	Polygonum rurivagum Boreau		(š	1	1	1			Trept	Subcosmop.	n
Polypodiaceae	Polypodium cambricum L.	1	1						H ros	Eurimedit.	n
Poaceae	Polypogon monspeliensis (L.) Desf.		12	1 1		1		1	Tscap	Subtrop.	n
Poaceae	Polypogon viridis (Gouan) Breistr.					1			H caesp	Subtrop.	n
Portulacaceae	Portulaca granulatostellulata (Poelln.) Ricceri & Arrigoni		3	5 8	1	1		S 5	Tiscap	E-Europ., W-Asia	n
Portulacaceae	Portulaca nitida (Danin & H.G. Baker) Ricceri & Arrigoni				1	1			Tscap	Medit.	n
Portulacaceae	Portulaca oleracea L.		<u> (</u>	())	1	1		3 B	Tscap	Subcosmop.	n
Portulacaceae	Portulaca papillatostellulata (Danin & H.G.Baker) Danin				1	1			Tscap	Medit.	n
Portulacaceae	Portulaca rausii Danin		88 - S	2	1	1		e 8	Tscap	Stenomedit.	
Portulacaceae	Portulaca sicula Danin, Domina & Raimondo		Q	5 S	1	1		S	Tiscap	Stenomedit.	n
Potamoretonaceae	Potamoaeton nodosus Poir.							1	Irad	Subcosmop.	
Rosaceae	Poterium sanauisorba L. subsp. sanauisorba		<u>%</u>	6 B		1			Hiscan	Paleotemp	
Liliaceae	Prospero autumnale (L.) Speta					1			G bulb	EuropCaucas	0
Liliaceae	Prospero obtusifolium subso, intermedium (Guss) Soldano & F.Co	nti	\$\$	2		1			G bulb	W-Stenomedit.	0
Lamiaceae	Prunella vulgaris L. subsp. vulgaris			-		1			Hiscap	Circumbor.	n
Rosaceae	Prunus armeniaca L		9	2 2		1			Piscap	W-Asia	
Asteraceae	Pulicaria dysenterica (L.) Bernh.			-	1	1			Hiscap	Eurimedit	n
Asteraceae	Pulicaria odora (L) Rchb.		13	1 2		1		1 ()	H scap	Eurimedit.	n
Asteraceae	Pulicaria sicula (L.) Moris					1			Tscap	Stenomedit.	n
Facaceae	Quercus ilex L subsp. ilex	1	12	1 2		1	1	1 I I I I I I I I I I I I I I I I I I I	Piscap	Stenomedit	n ()
Ranunculaceae	Ranunculus arvensis L.					1			Tscap	Paleotemp.	n
Ranunculaceae	Ranunculus baudotii Godr.		<u> 1</u>	1 8		6 - 1		1	H ros	Stenomedit.	n
Ranunculaceae	Ranunculus bullatus L.					1	1		G bulb	Eurasiat.	n
Ranunculaceae	Ranunculus muricatus L.		<u> 1</u>	0		1		1 B	Irad	StenomeditAtl.	n
Ranunculaceae	Ranunculus neapolitanus. Ten.					1			Tiscap	Eurimedit.	
Ranunculaceae	Ranunculus paludosus Poir.					0.00		1	H scap	NE-MeditMont.	п
Ranunculaceae	Ranunculus parviflorus L.		31	1		1		61 B	H scap	MeditAtlant.	n
Brassicaceae	Raphanus raphanistrum subsp. landra (DC.) Bonnier & Layens		55	1	1	1			Tscap	Eurimedit.	
Asteraceae	Reichardia intermedia (Sch. Bip.) Sama.	1	1	1	1	1		6/ 8	Tscap	Stenomedit.	n
Asteraceae	Reichardia picroides (L.) Roth	1	1	1	1	1			Hiscap	Stenomedit.	n
Reseduceae	Reseda alba L. subsp. alba		1	2 2	1	1			Hiscap	Europ.	n
Asteraceae	Rhagadiolus stellatus (L.) Gaertn.			1	1	1			Picaeso	Eurimedit.	n
Rhamnaceae	Rhamnus alaternus L. subsp. alaternus	1	S	1	1	1		1	Picaesp	S-EuropSudsib.	0
Anacardiaceae	Rhus coriaria L.					1			Pcaeso	SW-Stenomedit.	n
Anacardiaceae	Rhus pentaphylla (Jacq.) Desf.		2	1 2		1			Pcaeso	S-Stenomedit.	n
Anacardiaceae	Rhus tripartita (Ucria) Grande					1			NP	Eurasiat.	
Euphorbiaceae	Ricinus communis L.		3	1	1	1			Tiscap	Stenomedit.	n
Fabaceae	Robinia pseudoacacia L.				1	1			Pcaeso	N-Amer.	

Iridaceae	Romulea bulbocodium (L) Sebast. & Mauri			1		1			1	G bulb	Stenomedit.	n
Iridaceae	Romulea columnae Sebast. & Mauri				<u> </u>	1				G bulb	W-Stenomedit.	n
Iridaceae	Romulea rosea (L.) Eckl.		8	1		1		12		H scap	Eurasiat.	n
Rosaceae	Rosa canina L				-	1				NP	Europ.	n
Rosaceae	Rosa micrantha Sm.		13	1 1		1		12		NP	W-MeditMont.	n
Poaceae	Rostraria cristata (L.) Tzvelev					1				NP	Stenomedit	n
Poaceae	Rostraria hispida (Savi) Dožan		13			1		19 1		Tiscap	Subcosmop.	0
Rubiaceae	Rubia peregrina L	1	1	1	1	1	1	-	1	Plian	Stenomedit.	n
Rubiaceae	Rubia tinctorum L	1	12	1 0		1	-	S 3		NP	Stenomedit.	n
Rosaceae	Rubus acheruntinus Ten.				-	1	<u> </u>	1		NP	Stenomedit	n
Rosaceae	Rubus ulmifolius Schott		535 · · · ·	1	-	1		1		Hiscap	Circumber	
Polyeonaceae	Rumex bucephalophorus L. subso, bucephalophorus					1	-			Tscap	MeditMacarones.	n
Polygonaceae	Rumex conglomeratus Murray				-	1		1		Hiscap	Subcosmop.	0
Polyeonaceae	Rumex crispus L		<u> </u>			1		1		Hiscan	Subcosmon	
Polyconaceae	Rumex pulcher subsp. woodsii (De Not.) Arcane.		-		-	1		1		Hiscap	Eurimedit.	n
Polygonaceae	Rumex spinosus L.		Q		1	1				Tscap	EurimeditMacaron.	n
Polygonaceae	Rumex thursoides Desf.					1	-	-		Hiscap	W-Stenomedit.	n
Ruscaceae	Ruscus hypoglossum L.	1	Q		1	1				Ch frut	Eurimedit	
Scrophulariaceae	Russelia equisetiformis Schltdl. & Cham.		1						-	Ch frut	S Amer.	1 1
Rutaceae	Ruta chalepensis L.	-	13	1 1		1		12 7		Ch suffr	S-Stenomedit.	n
Carvophyllaceae	Sabulina tenuifolia (L.) Rchb, subso, tenuifolia		100	-	-	1				Tiscap	Paleotemp.	n
Carvoohvllaceae	Sabulina verna subsp. arandiflora (C.Presl) Dillenb. & Kadereit	-	12	1 1		1		12 P		Ch suffr	Subendem	0
Carvonhyliaceae	Saaina anetala Ard subso anetala		100		-				1	Tiscan	Eurimedit	
Carvophyllaceae	Saaina procumbens L		10	1		1	-	17 1	-	Hicaesp	Subcosmop.	n
Salicaçãe	Salix alba L.		5-C		1	1.50	<u> </u>	1		Piscap	Europ.	n
Salicaçãe	Salix pedicellata Desf.		10	1 0		8 Ť		1		Pcaeso	Stenomedit.	0
Solanaceae	Salaichroa oriagnifolia (Lam.) Baill			1	1	1				Tiscap	Paleotemp.	n
Chenopodiaceae	Salsola kali L		12			s 1150 s		6	1	Tiscap	Paleotemp	
Lamiaceae	Salvia verbenaca L		3	1		1	-	9	-	Hiscap	StenomeditAtl.	n
Primulaceae	Samolus valerandi L.			-	-	1	<u> </u>	-		Hiscap	Paleotemp	0
Saxifraeaceae	Saxifraga bulbifera L		9) 	-		1	1	£		Hiscap	NE-Stenomedit	0
Saxifragaceae	Saxifraga tridactylites L	-		1	<u> </u>	1		-	-	Tiscap	Eurimedit.	n
Cyperaceae	Schoenus niaricans L.		Q	1		51 5		1		G bulb	Eurimedit.	n
Cyperaceae	Scirpoides holoschoenus (L.) Spiek						<u> </u>	1		G rhiz	Eurimedit	
Asteraceae	Scolymus grandiflorus Desf.		8	1 2		1		1		H bienne	Eurimedit	0
Asteraceae	Scolymus hispanicus L. subsp. hispanicus		100		-	1			1	Tiscap	S-Stenomedit.	n
Fabaceae	Scorpiurus muricatus L		13.	1 1		1		12 P		G bulb	SW-Stenomedit.	n
Asteraceae	Scorzonera hirsuta (Gouan) L				-	1				G rhiz	NW-Stenomedit	
Asteraceae	Scorzonera undulata subsp. deliciosa (DC.) Maire		12	1. 2		1		18		Hiscan	NW-Stenomedit.	0
Scrophulariaceae	Scrophularia auriculata L. subsp. auriculata			1	1	1	t		1	Hiscap	Eurimedit.	n
Scrophulariaceae	Scrophularia canina L		ŝ.	1	1	1		ST 2		Hiscap	Eurimedit.	n
Scrophulariaceae	Scrophularia perearina L.	1	1	1	1	1	-			Hiscan	Furasiat	
Lamiaceae	Scutellaria columnae All subsp. columnae		10 - 10 The - 1			1		.e		Hiscan	NW-Medit -Mont	
Crassulaceae	Sedum album L. subsp. album		1	1		1	1	17		Ch succ	Eurimedit.	
Crassulaceae	Sedum caeruleum L		1	1		1	1	1		Ch succ	Eurimedit.	n
Crassulaceae	Sedum caespitosum (Cav.) DC.		1			6 1	1	6		Tscap	Eurimedit, Atl.	n
Crassulaceae	Sedum dasyphyllum L. subsp. dasyphyllum	1	1	1			1	1		Ch succ	Eurimedit.	n
Crassulaceae	Sedum rubens L		1	1			1	12	1	Ch succ	Stenomedit.	n

Selaginellaceae	Selaginella denticulata (L.) Spring	1	1	33	i 11	1	8 9		1	Ch rept	Stenomedit.	n
Asteraceae	Senecio angulatus L. f.			10	1	1				Ch frut	S Africa	2
Asteraceae	Senecio leucanthemifolius Poir, subsp. leucanthemifolius	- Q		1	1	1	6		10.	Tiscap	E-Medit.	n
Asteraceae	Senecio lividus L.	1	1	1	1	1				Ch suffr	Stenomedit.	n
Asteraceae	Senecio vulgaris L. subsp. vulgaris	1	1	1	1	1				Tiscap	Eurimedit.	n
Orchidaceae	Serapias vomeracea (Burm. f.) Brig.					1				G bulb	Eurimedit.	n
Pedaliaceae	Sesamum indicum L			10. 3	1	1			18	Tscap	India	3
Apiaceae	Seseli bocconei Guss.						1			H scap	Endem. Sic.	n
Poaceae	Setaria adhaerens (Forssk.) Chiov.	1		1	1	1	1		8	H caesp	Africa	
Poaceae	Setaria italica subsp. viridis (L.) Thell.	1		1	1	1		1		Tscap	Eurimedit.	n
Poaceae	Setaria parviflora (Poir.) Kerguélen	S		1	1	1	1 I		1	Tscap	Africa	-
Poaceae	Setaria pumila (Poir.) Roem. & Schult.			1	1	1				Tscap	Subtrop.	n
Poaceae	Setaria verticillata (L.) P. Beauv.	jî.		1	1	1	8 8	1	1	Tiscap	Subtrop.	n
Rubiaceae	Sherardia arvensis L.	1	1	1	1	1				Hiscap	Subtrop.	n
Caryophyllaceae	Silene colorata Poir.	10 10000	- St	88-92 - 9	5 00 00	1	8 9		19	Tiscap	Paleotemp.	n
Caryophyllaceae	Silene crassiuscula Brullo & al.	1		1	1	1	8		1	Tscap	Endem. Sic.	n
Carvophyllaceae	Silene cretica L	-		19 - F		1			-	Tiscap	S-Stenomedit.	n
Carvophyllaceae	Silene diversifolia Otth	- G	-	8	C 2	1	8 8		1	Ch suffr	NE-Medit -Mont	
Carvophyllaceae	Silene fruticosa L					1				Tscap	Stenomedit	n
Carvophyllaceae	Silene fuscata Brot	12	2	8	2 8	1	5		12	Tiscap	Eurimedit.	n
Caryophyllaceae	Silene gallica L.				-	1			1	Hros	Eurimedit.	n
Carvophyllaceae	Silene latifolia Poir.		2	8 3	2 8	1	0 0		12	H bienne	Stenomedit.	n
Carvonhvilaceae	Silege piceensis All	-			-	1			1	Tscan	Furnsib	
Carvophyllaceae	Silene nocturna L subsp. nocturna	1		12	1	1	51 2		1	Tscap	Medit.	n
Carvophyllaceae	Silene sedoides Poir, subsp. sedoides			105 D	V 51 M	1		1	100	Hros	Stenomedit.	n
Carvonbullaceae	Silene vulgaris (Moench) Garcke subsp. vulgaris	1		12	2 - <u>3</u> 3	1	51 B		1.5	H bienne	Furimedit -Turan	
Asteraceae	Silvhum morigoum (I.) Gaerto	_		100	Y	1				Tiscan	E-Medit	
Brassicaceae	Sinapis alba L. subsp. alba			10 J	1	1	8 8		1	Tscap	Stenomedit.	0
Brassicaceae	Sinapis arvensis L. subsp. arvensis	-			2	1				Tscap	Stenomedit.	n
Brassicaceae	Sinapis pubescens L. subsp. pubescens	9		10 j	2 12	1	8 8		19	Ch suffr	SW-Stenomedit	
Brassicaceae	Sisymbrium ervsimoides Dest.				1	1				Tiscap	S Medit - Africa	0
Brassicaceae	Sisymbrium irio L.	-		85 - E	1	1			-	Tscap	Paleotemp.	
Brassicaceae	Sisymbrium officingle (L1 Scop	1		1	1	1	8 8	1	1	Tscap	Eurimedit	
Brassicareae	Sisymbrium orientale L.	-	-	1	1	1		1		Tisran	Furimedit	0
Dinsacaceae	Sixalix atropurgurea (L.) Greuter & Burdet	6		8 T 3	-		6		10	NP	Subtrop	
Smilacaceae	Smilax aspera L	-	1		-	1		-	1	H bienne	EurimeditSubati.	
Apiaceae	Smyrnium olusatrum L.	1	2	8 3	1	1	6			H bienne	Eurimedit.	n
Umhelliferae	Smyrnium perfoliatum subsp. rotundifolium (Mill.) Bonnier & I	avens			-	1			-	H bienne	S-Stenomedit	
Solanaceae	Solanum bongriense L	19		8 3	1	1				NP	S Amer	
Solanaceae	Salanum dulcamara L				× 50 ×		- · ·	1		Hiscan	S Africa	-
Solanaceae	Solanum linnaeanum Henner & PM.L. Jaerer	1		12	1	1	51 7	-	1	Hiscan	S Amer.	
Solanaceae	Solanum lycopersicum L	-			1	1		1		Tecan	America	
Solanaceae	Solanum nianum I	1	1	0.4	1	1	5	-	1.9	Hiscon	S Amer	
Solanaceae	Solanum aseudocansicum L	2.00	-	N 18		1			-	NP	Brasile	-
Solanaceae	Solanum villasum Mill.	1		10 I	1	1	8 8		17	Tiscap	Cosmopol	
Asteraceae	Sonchus asper (L.) Hill subsp. asper	1	1	1	1	1				Tiscan	Eurasiat	
Asteraceae	Sonchus bulbosus (L) N Kilian & Greuter subso bulbosus	1		18 ST 1	1	1	e 9			Hros	Medit	
Asteraceae	Sonchus maritimus 1			Qi 3		1	8 8		1	Tiscan	Furasiat	
						-						

Asteraceae	Sonchus oleraceus L.	1	1	1	1	1				T scap	Stenomedit.	n
Asteraceae	Sonchus tenerrimus L.	1	1	1	1	1			2	Tscap	Stenomedit.	C.A.C
Fabaceae	Spartium junceum L.				1	1				Tscap	Subcosmop.	n
Caryophyllaceae	Spergularia diandra (Guss.) Boiss.	Ş	1 - Vi		8	1			1	T scap	S-Stenomedit.	() D (
Caryophyllaceae	Spergularia rubra (L.) J. Presl & C. Presl					1			1	T scap	Subcosmop.	n
Poaceae	Sporobolus schoenoides (L.) P.M.Peterson	Ş	1 12		š	1		Ę.	8	T scap	Subtrop.	n
Lamiaceae	Stachys arvensis (L.) L					1				H scap	Eurimedit.	n
Lamiaceae	Stachys major (L) Bartolucci & Peruzzi	1	1		1	1				Ch frut	Stenomedit.	n
Lamiaceae	Stachys romana (L.) E.H.L.Krause	3	1 X		i i	1	11 I	i.	13	Tscap	Stenomedit.	n
Caryophyllaceae	Stellaria media (L.) Vill. subsp. media	1	1	1	1	1			· · · · · · · · · · · · · · · · · · ·	Tscap	Cosmopol.	n
Caryophyllaceae	Stellaria neglecta Weihe subsp. neglecta	8		1	1	1		1	3	Tscap	Paleotemp.	n
Amaryllidaceae	Sternbergia lutea Spreng.					1				G bulb	MeditMont.	n
Poaceae	Stipellula capensis (Thunb.) Röser & H.R.Hamasha	8 1	1	1	1	1			8	T scap	Stenomedit.	n
Potamogetonaceae	Stuckenia pectinata (L.) Börner							1		Irad	Subcosmop.	n
Fabaceae	Sulla coronaria (L.) Medik.	(i)	1			1	12 1			H scap	W-Stenomedit.	n
Asteraceae	Symphyotrichum squamatum (Spreng.) G.L. Nesom			1	1	1		1		Tscap	S Amer.	
Boraginaceae	Symphytum bulbosum K. F.Schimp.	8	()		1 1	1			2	G rhiz	SE-Europ.	n
Boraginaceae	Symphytum tuberosum subsp. angustifalium (A.Kern.) Nyman					1				G rhiz	S-Europ.	n
Asteraceae	Tagetes erecta L.		£ 8	1	ş - 9				3	T scap	S Amer.	- a (
Talinaceae	Talinum paniculatum (Jacq.) Gaertn.			1						Tscap	America trop.	
Tamaricaceae	Tamarix africana Poir.	3 I	ŧ - 85		8 8	1	1	6	33	P caesp	W-Stenomedit.	<u>, n</u>
Tamaricaceae	Tamarix canariensis Willd.					1				P caesp	E-Medit.	n
Tamaricaceae	Tamarix gallica L	63 - S	s 58		2	1		-	245	P caesp	E-Medit:	n
Bignoniaceae	Tecomaria capensis (Thunb.) Spach	1	1		š - 3	1	8	1	3	P lian	S Africa	a
Lamiaceae	Teucrium campanulatum L.	0 00 0	1			1			12	H scap	W-Stenomedit.	n
Lamiaceae	Teucrium chamaedrys L. subsp. chamaedrys	3 3	8		ž ž	1	1 I		3	Ch frut	Stenomedit.	n
Lamiaceae	Teucrium flavum L. subsp. flavum	0	1			1				Ch suffr	Orof. S-Europ.	n
Lamiaceae	Teucrium fruticans L. subsp. fruticans	8 1	1 8		Q ()	1	18 8		8	Ch suffr	Stenomedit.	n
Lamiaceae	Teucrium scordium subsp. scordioides (Schreb.) Arcang.					1				T scap	SW-Stenomedit.	n
Lamiaceae	Teucrium siculum (Raf.) Guss. subsp. siculum	8 3	8		i) ii	1	18 8		8	H scap	Endem.	n
Ranunculaceae	Thalictrum calabricum Spreng.					1				Tscap	Stenomedit.	n
Apiaceae	Thapsia asclepium L.	2 3	1		1 1	1			<u>1</u> 2	Tscap	Stenomedit.	n
Apiaceae	Thapsia garganica L. subsp. garganica					1				H scap	S-Stenomedit.	n
Theligonaceae	Theligonum cynocrambe L.	8 - I	(<u> </u>		1 1	1	8		8	H scap	Orof, SE-Europ.	n
Santalaceae	Thesium humile Vahl					1				Tscap	Stenomedit.	n
Poaceae	Thinopyrum elongatum (Host) D.R.Dewey.	1 I	E - 93		8 8	1	1	6	3	H caesp	Eurimedit.	.
Poaceae	Thinopyrum flaccidifolium (Boiss. & Heldr.) Moustakas					1				G rhiz	Subcosmop.	n
Poaceae	Thinopyrum junceum (L.) Á Löve	Ş	1 92		8 (B)	1	1	6	3	G rhiz	Eurimedit.	n
Lamiaceae	Thymbra capitata (L.) Cav.					1				Ch rept	Eurimedit.	n
Thymelaeaceae	Thymelaea gussonei Boreau		1			1		-	2	T scap	Eurimedit.	n
Thymelaeaceae	Thymelaea hirsuta (L.) Endl.	3 3	8		š - 3	1	11 - 11 - 11 - 11 - 11 - 11 - 11 - 11		3 3	NP	S-Stenomedit.	n
Asteraceae	Tolpis virgata (Desf.) Bertol. subsp. virgata					1	1		12	Tscap	Eurimedit.	n
Apiaceae	Torilis japonica (Houtt.) DC.	3	1		§ - 8	1	6		8	Tscap	Asia	
Apiaceae	Torilis nodosa (L.) Gaertn. subsp. nodosa	1			10	1				T scap	EurimeditTuran.	n
Apiaceae	Torilis nodosa subsp. webbii (Jury) Kerguélen	8 1	1 2		1 1	1	1		3	Tscap	EurimeditTuran.	n
Campanulaceae	Trachelium caeruleum L. subsp. caeruleum	1						1		Ch suffr	Endem. Sic.	n
Commelinaceae	Tradescantia fluminensis Vell.	ê (1 - 23		1	1			8	Ch rept	America	
Commelinaceae	Tradescantia pallida (Rose) D. R. Hunt			1						Ch rept	America	1.0

Asteraceae	Tragopogon cupanii DC.					1			T scap	Eurimedit.	n
Asteraceae	Tragopagon porrifolius L.	- 93	8 - T		1	1	\$	1 0	H bienne	Eurimedit.	п
Poaceae	Tragus racemosus (L.) All.	2.0			1	1	20	2 23	H caesp	Saharo-Sind.	n
Zygophyllaceae	Tribulus terrestris L			1		1	· · · · ·		T scap	E-Stenomedit.	п
Fabaceae	Trifolium angustifolium L subsp. angustifolium	1	8 1		1	1	8	1 X	H scap	Stenomedit.	n
Fabaceae	Trifolium arvense L. subsp. arvense					1	· · · · ·		Tscap	Stenomedit.	n
Fabaceae	Trifolium campestre Schreb.	8	8		1	1	8	1	T scap	Eurimedit.	n
Fabaceae	Trifolium cherleri L.					1			T scap	S-EuropCauc.	n
Fabaceae	Trifolium fragiferum L. subsp. fragiferum	8	Q 1		18 8	1	8	1 8	T scap	Eurimedit.	n
Fabaceae	Trifolium glomeratum L.					1			T scap	Eurimedit.	n
Fabaceae	Trifolium incarnatum subsp. molinerii (Hornem.) Ces.	8			8 8	1	<u>8</u>		T scap	E-Stenomedit.	n
Fabaceae	Trifolium lappaceum L.					1			T scap	Stenomedit.	n
Fabaceae	Trifolium nigrescens Viv. subsp. nigrescens	- 85	1			1	<u>2</u>	8	T scap	Eurimedit.	n
Fabaceae	Trifolium phleoides Wiild.					1			H scap	Eurosib.	n
Fabaceae	Trifolium physodes M. Bieb.	- 81	ş		8	1	8	8	H scap	C-Medit.	n.,
Fabaceae	Trifolium pratense L. subsp. pratense					1			H rept	Medit.	n
Fabaceae	Trifolium repens L.	- 51	8 - 7		1 I	1	3	1	Trept	Medit.	(n)
Fabaceae	Trifolium resupinatum L.					1			Trept	Eurimedit.	n
Fabaceae	Trifolium scabrum L.	68	2		S 8	1	8.8	s 88	Tscap	Eurimedit.	п
Fabaceae	Trifolium squamosum L.	8	1		6 I	1	33	1 (X	T scap	Paleotemp.	n
Fabaceae	Trifolium squarrosum L.					1	*2.		T scap	Paleotemp.	п
Fabaceae	Trifolium stellatum L.	8	8 1		1	1	33	1 (X	T scap	Paleotemp.	n
Fabaceae	Trifolium subterraneum L subsp. subterraneum					1	· · · · · ·		Trept	Paleotemp.	n
Fabaceae	Trifolium tomentosum L.	10	0			1	12	1 8	G bulb	W-Stenomedit.	n
Fabaceae	Trigonella elegans (Ser.) Coulot & Rabaute					1			T scap	S-Stenomedit.	n
Fabaceae	Trigonella esculenta Willd.	8			18 8	1	8	1 2	T scap	Stenomedit.	n
Fabaceae	Trigonella infesta (Guss.) Coulot & Rabaute					1			Tscap	Stenomedit.	n
Fabaceae	Trigonella italica (L) Coulot & Rabaute	- 23	1 S			1	Q	1 2	T scap	N-Stenomedit.	n
Fabaceae	Trigonella segetalis (Brot.) Coulot & Rabaute				1	1			T scap	S-Stenomedit.	n
Fabaceae	Trigonella smalii Coulot & Rabaute	- 85	1			1	<u>2</u>	8	Tscap	EurimeditTuran.	n
Fabaceae	Trigonella sulcata (Desf.) Coulot & Rabaute					1			T scap	Stenomedit.	n
Fabaceae	Trigonella sulcata (Desf.) Coulot & Rabaute	1	8 - F		1	1	<u> </u>		T scap	S-Stenomedit.	n
Fabaceae	Tripodion tetraphyllum (L) Fourr.					1			T scap	Stenomedit.	n
Poaceae	Trisetaria aurea (Ten.) Pignatti	- 93	8 - T		1	1	Ş.	1 0	Tscap	SW-Stenomedit.	R
Poaceae	Trisetaria segetum (Savi) Soldano	2.4				1	20	2 22	H caesp	Eurasiat.	n
Poaceae	Triticum neglectum (Bertol.) Greuter				1	1	55. 		Tscap	EurimeditTuran.	n
Poaceae	Triticum vagans (Jord. & Fourr.) Greuter	1	8 1		1	1	3	1	T scap	StenomeditTuran.	n
Poaceae	Triticum ventricosum (Tausch) Ces., Pass. & Gibelli				1	1	· · · · ·		Tscap	W-Stenomedit.	п
Tropeolaceae	Tropaeolum majus L.	1	8 3		1	1	1		Trept	CAmerica	
Typhaceae	Typha angustifolia L.							1	G rhiz	Circumbor.	п
Typhaceae	Typha latifolia L.	() ()	Q 1		18 8	1	8	1	G rhiz	Cosmopol.	n
Crassulaceae	Umbilicus horizontalis (Guss.) DC.	1	1				1		G bulb	Stenomedit.	n
Crassulaceae	Umbilicus rupestris (Salisb.) Dandy	1	1		8 8	8	1	1 B	H scap	Eurimedit.	n
Asteraceae	Urospermum dalechampii (L.) F.W.Schmidt	1		1	1	1			H scap	Subcosmop.	n
Asteraceae	Urospermum picroides F. W. Schmidt	- 23	1		8	1	£		T scap	S-Stenomedit.	n
Urticaceae	Urtica dioica L. subsp. dioica		1	1	1	1			T scap	S-Stenomedit.	n
Urticaceae	Urtica membranacea Poir.	1	1	1	1	1	3		Tscap	S-Stenomedit.	n
Urticaceae	Urtica urens L.				1	1			Tiscap	Subcosmop.	n

Fabaceae	Vachellia farnesiana (L.) Wight & Arn.					1			P scap	Australia	120
Fabaceae	Vachellia karroo (Hayne) Banfi & Galasso	- 12 - 12 - 12 - 12 - 12 - 12 - 12 - 12	E - 12		1	1	1	3	P scap	Australia	
Rubiaceae	Valantia muralis L.		1				1		H scap	Eurimedit.	n
Valerianaceae	Valerianella coronata (L.) DC.					1			T scap	Subatlant.	л
Valerianaceae	Valerianella dentata (L.) Pollich	3	1		1	1	£	3	Tscap	Stenomedit.	n
Valerianaceae	Valerianella discoidea (L.) Loisel					1			Tiscap	Eurimedit.	n
Valerianaceae	Valerianella eriocarpa Desv.	- 23	1		8	1	÷.	8	Tiscap	Stenomedit.	n
Valerianaceae	Valerianella microcarpa Loisel					1			T scap	Stenomedit.	n
Valerianaceae	Valerianella puberula (Guss.) DC.	18 1	8 8		()	1	1	8	Tscap	EurimeditTuran.	n
Scrophulariaceae	Verbascum creticum (L.) Kuntze					1			H bienne	S- & C-Europ.	n
Scrophulariaceae	Verbascum sinuatum L.	1	1	1	1	1		8	H scap	Paleotemp.	n
Scrophulariaceae	Verbascum thapsus L. subsp. thapsus					1			T scap	Stenomedit.	n
Verbenaceae	Verbena bonariensis L.	2	(1	8	8	H scap	S Amer.	3
Verbenaceae	Verbena officinalis L.					1			Tscap	Europ.	n
Scrophulariaceae	Veronica agrestis L.		1		ğ	1	2	8	H scap	Cosmopol.	n
Scrophulariaceae	Veronica anagallis-aquatica L. subsp. anagallis-aquatica							1	Tscap	Eurimedit.	n
Scrophulariaceae	Veronica arvensis L	12	1 1/2			1	Ĩ.	8	T scap	Eurimedit.	/n
Scrophulariaceae	Veronica cymbalaria Bodard subsp. cymbalaria	1	1	1	1	1			H rept	Europ.	n
Scrophulariaceae	Veronica cymbalaria subsp. panormitana (Guss.) Nyman	84 Sec 4	1	1	a			87 - AS	T scap	Paleotemp.	n
Scrophulariaceae	Veranica hederifolia L.	1	1	1	1	1	12	3	H rept	Eurasiat.	n
Scrophulariaceae	Veronica persica Poir.				1	1			T scap	Europ.	n
Scrophulariaceae	Veranica polita Fr.	- (à			1	1	1	1 () () () () () () () () () (H rept	Eurasiat.	n
Scrophulariaceae	Veronica trichadena Jord. & Fourr.		1	1					H scap	W-Stenomedit.	n
Caprifoliaceae	Viburnum tinus L. subsp. tinus	1	1 8			1	8	3	P caesp	Medit.	n
Fabaceae	Vicia angustifolia L.		1			1			T scap	EurimeditTuran.	n
Fabaceae	Vicia benghalensis L.	1	1 8			1		1	T scap	S-Stenomedit.	n
Fabaceae	Vicia bithynica (L.) L.					1			T scap	Eurasiat.	n
Fabaceae	Vicia hybrida L.	8 8	1			1	8	8	H scap	E-Medit.	n
Fabaceae	Vicia lathyroides L.					1			T scap	SW-Stenomedit.	n
Fabaceae	Vicia macrocarpa (Moris) Bertol.	12	1		1 1	1	8	1 R	Tiscap	EurimeditTuran.	2 n
Fabaceae	Vicia monantha Retz.					1			H scap	Eurimedit.	n
Fabaceae	Vicia narbonensis L.	- 18	1 - Vi			1		16	T scap	EurimeditTuran.	n
Fabaceae	Vicia ochroleuca Ten. subsp. ochroleuca					1			T scap	Medit.	n
Fabaceae	Vicia sativa L.	1	1		1	1		1	Tscap	EurimeditTuran.	<n></n>
Fabaceae	Vicia saxatilis (Vent.) Tropea	82 1	2 92			1		-	T scap	Eurimedit.	n
Fabaceae	Vicia villosa Roth					1			T scap	EurimeditTuran.	n
Violaceae	Viola odorata L.	1			1		1	1 () () () () () () () () () (H ros	Eurimedit.	n
Verbenaceae	Vitex agnus-castus L.					1		1	P caesp	EurimeditTuran.	n
Arecaceae	Washingtonia filifera (André) de Bary	3		1	1	1	16	1	P scap	N-Amer.	
Arecaceae	Washingtonia robusta H. Wendl.			1	1	1			P scap	Mexico	
Solanaceae	Withania somnifera (L.) Dunal	1	8		J I	1			NP	Paleosubtrop.	n
Asteraceae	Xanthium strumarium L. subsp. strumarium				1	1			T scap	America	
Asteraceae	Zinnia elegans Jacq.	1	1	1				8	T scap	Mexico	
Rhamnaceae	Ziziphus lotus (L.) Lam. subsp. lotus					1			P caesp	Eurimedit.	n

Figure 1. The study area including the city center of Palermo and the townships of Mondello and Sferracavallo.



Figure 2. Biological spectrum of the investigated flora.

Biological forms	no.	%
Chamaephytes	61	5,80
Geophytes	114	10,85
Hemicriptophytes	242	23,03
Helophytes	2	0,19
Hydrophytes	9	0,86
Nano-Phanerophytes	30	2,85
Phanerophytes	105	9,99
Therophytes	488	46,43
ТОТ	1051	100,00



Figure 3. Chorological spectrum of the investigated flora.

Chorotype	no.	%
Endemic Sic.	13	1,24
Subendemic	26	2,47
Boreal	53	5,04
Cosmopolitan	219	20,84
Mediterranean	477	45,39
Southern	98	9,32
Western	85	8,09
Eastern	119	11,32
тот	1051	100,00



Table 1. Most represented families and genera in the flora of Palermo.

Family	Genera	Species & Subspecies	
Poaceae	63	143	Euphorbia
Asteraceae	59	116	Trifolium
Fabaceae	30	115	Medicago
Brassicaceae	21	43	Lathyrus
Caryophyllaceae	12	33	Orobanche
Euphorbiaceae	4	23	Silene
Solanaceae	10	20	Vicia
Orobanchaceae	2	16	Lotus
Asparagaceae	6	14	Amaranthu
Amaryllidaceae	5	13	Allium, Ce

Table 2. Taxa no longer found in the territory of Palermo, their localities and bibliographic references.

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Taxon	Locality	Reference
Allium amethystinum Tausch,	Oreto river (SE of the city)	Lojacono (1909)
Allium vernale Tineo	Mondello (N of the city)	Gussone (1832)
Alopecurus bulbosus Gouan subsp. bulbosus	Mondello (N of the city)	Gussone (1827)
Althaea officinalis L.	City center; Mondello (N of the city)	Gussone (1828); Lojacono (1889)
Anchusa hybrida Ten.,	Arenella and Vergine Maria (N of the city)	Gussone (1843)
Artemisia campestris subsp. variabilis (Ten.) Greuter	Mondello (N of the city)	Lojacono (1903)
Cachrys sicula L.	Vergine Maria and Mondello (N of the city)	Gussone (1843)
Callitriche brutia Petagna	Mondello (N of the city)	Gussone (1827)
Callitriche truncata Guss. subsp. truncata	Arenella and Vergine Maria (N of the city)	Lojacono (1904)
Chrysanthemoides monilifera (L.) Norl.	Mondello (N of the city)	Lojacono (1903)
Cyperus longus L.	Oreto river (SE of the city)	Gussone (1827); Lojacono (1909)
<i>Descurainia sophia</i> (L.) Webb ex Prantl	Oreto river (SE of the city)	Gussone (1834)
Echium arenarium Guss.,	Vergine Maria (N of the city)	Lojacono (1904)
Elatine macropoda Guss.	Mondello (N of the city)	Gussone (1843)
Humulus lupulus L.	Porrazzi (SW of the city)	Gussone (1845)
Hypericum pubescens Boiss.	Mondello (N of the city)	Lojacono (1889)
Ipomoea sagittata Poir.	Mondello (N of the city)	Lojacono (1904)
İsolepis cernua (Vahl) Roem. & Schult.	Mondello (N of the city)	Lojacono (1909)
<i>Juncus acutiflorus</i> Ehrh. ex Hoffin.	Roccazzo (W of the city)	Gussone (1827, 1845)
Myosotis sylvatica subsp. subarvensis Grau	Mondello (N of the city)	Lojacono (1904)
<i>Nanozostera noltei (</i> Hornem.) Toml. & Posl.	Mondello (N of the city)	Lojacono (1909)
Plantago humilis Guss.	Seashore	Gussone (1843)
Potamogeton pusillus L.	Oreto river (SE of the citv)	Gussone (1827)
Rumex palustris Sm.	Boccadifalco (W of the city)	Lojacono (1904)
<i>Solenopsis bivonae</i> (Tineo) M.B.Crespo, Serra & Juan	Guadagna (S of the city); Mondello (N of the city); city center	Gussone (1827); Lojacono (1903)
Solenopsis laurentia (L.) C. Presl	Mondello (N of the city)	Tineo (1827); Todaro (1873)
Sucowia balearica (L.) Medik.	Palermo	Gussone (1828)
Tillaea vaillantii Willd.	Mondello (N of the city)	Gussone (1843)