

Exotic naturalized flora of continental Portugal – A reassessment

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Abstract: Domingues de Almeida, J & Freitas, H. 2006. Exotic naturalized flora of continental Portugal – A reassessment. *Bot. Complut.* 30: 117-130.

Six years after our last study on the exotic naturalized flora of continental Portugal, we present a reassessment. In 1999, we have considered the existence of 500 exotic species of vascular plants (invasive or more or less naturalized). From 1999 until now 64 new plant species records were added (12.8 % more), attaining now a total number of 564 taxa (including, as in precedent works, species, subspecies and some hybrids), belonging to 113 families.

Keywords: Exotic species, flora, continental Portugal.

Resumen: Domingues de Almeida, J & Freitas, H. 2006. Flora exótica de Portugal continental – una revisión. *Bot. Complut.* 30: xxx-xxx.

Seis años después de nuestro trabajo acerca de la flora exótica naturalizada de Portugal continental, presentamos una actualización. En 1999, habíamos considerado la presencia de 500 especies de plantas vasculares exóticas (invasoras o más o menos naturalizadas). Desde 1999 hasta el final de 2005 se detecta un incremento de 64 nuevas plantas exóticas (12,8 % más), alcanzando ahora el número total de 564 taxa (incluyendo, tal como en los trabajos previos, especies, subespecies y algunos híbridos), pertenecientes a 113 familias.

Palabras clave: Especies exóticas, flora, Portugal continental.

Resumo: Domingues de Almeida, J & Freitas, H. 2006. Flora exótica de Portugal continental – uma revisão. *Bot. Complut.* 30: 117-130.

Seis anos depois de uma primeira avaliação da flora exótica naturalizada de Portugal continental, apresentamos uma actualização. Em 1999, admitíamos a existência de 500 espécies de plantas vasculares exóticas (invasoras ou mais ou menos naturalizadas). Desde 1999 até ao fim de 2005 encontramos um acréscimo de 64 novas introduções (mais 12,8 %), atingindo-se agora o número total de 564 taxa (incluindo, como nos trabalhos anteriores, espécies, subespecies e alguns híbridos), pertencentes a 113 famílias.

Palavras-chave: Espécies exóticas, flora, Portugal continental.

INTRODUCTION

Six years after completing a first assessment of the exotic subspontaneous flora of continental Portugal (Almeida, 1999a; Almeida & Freitas, 2000, 2001), we present a reassessment of our previous work.

An atlas of the alochtonous invasive plants in Spain, including a synopsis of the alochtonous flora of Spain, was recently published (Sanz Elorza *et al.*, 2004). A survey about the introduction of non-native plant species in Spain in the period 1975-2002 (Del Monte & Aguado, 2003) was also recently published, including 170 new introductions. Several relevant papers on this subject,

related to Portugal, were published (Colmeiro, 1891; Coutinho, 1920; Pinto da Silva 1942, 1963, 1971, 1975; Fernandes, 1955). Other works were published, focusing particularly in the most invasive species (Campelo, 2001; Marchante, 2001; Marchante *et al.*, 2003; Almeida & Freitas, 2003; Almeida *et al.*, 2004).

As we have written before (Almeida & Freitas, 2000, 2001), the expansion of subspontaneous or exotic invasive plants is threatening the Portuguese native flora, becoming a severe environmental problem. Nowadays, «intensive trade and the constant flow of people have resulted in a large plant transfer crossing frontiers and geographical boundaries» (Del Monte & Aguado, 2003: 241).

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MATERIALS AND METHODS

In this work we have used the bibliography published mainly in the last seven years (1999-2005) and also some field observations. One relevant publication was the recent legislation on invasive species —«Decreto-Lei n.º 565/99» of 21 of december (1999)— by the Portuguese Ministry of the Environment. This legal text recognizes a great number of vascular plant species as introduced in Portugal (and invasive in some cases). Other important bibliographic sources of new records of exotic species and information about these species were: a) three new volumes and a compilation of *Flora iberica* (Castroviejo *et al.*); b) a book about trees and shrubs in the Iberian Penin-

sula (López González, 2001); c) three PhD theses (Pinto Gomes, 1998, Aguiar, 2000, Honrado, 2003); d) two congress presentations (Amaral Franco & Espírito Santo, 2000, Alves *et al.*, 2004); e) some published papers and notes (Almeida, 1999b, 1999c, 2000a, 2000b, 2002, 2003a, 2003b; Galán de Mera & Castroviejo, 2005, Heywood & Zohary, 1995, Morales, 2000); and f) unpublished notes (Paiva, unpublished, Almeida & Matos, 2005).

We use the classification of synanthropic plant species of Kornas (1990), with the following main concepts and categories (simplified) in Table 1. In this work we don't include the apophyta or autochthonous synanthropic species (e.g. *Pinus pinaster* Aiton, which is native in Portugal). We just consider the Anthropophyta, or alochthonous, exotic or non-native synanthropic species.

Table 1
A simplified version of the classification of synanthropic plant species of Kornas (1990).

| | | | |
|-----|-----------------------|---|---|
| 1 | Apophyta (Apo) | Autochthonous synanthropic species | |
| 2 | Anthropophyta (Anthr) | Alochthonous synanthropic species, introduced by man (voluntarily or involuntarily) | |
| 2.1 | Metaphyta (Meta) | Anthropophyta permanently established | |
| | 2.1.1 | Archeophyta (Arch) | Metaphyta established before 1500 d.C. |
| | 2.1.2 | Epoecophyta (Epoec) | Metaphyta introduced after 1500 d.C., established exclusively in ruderal and arvense communities |
| | 2.1.3 | Agriophyta (Agr) | Metaphyta introduced after 1500 d.C., established in natural or seminatural communities (Including Hemiagriophyta and Holoagriophyta) |
| 2.2 | Diaphyta (Dia) | Anthropophyta temporarily established (Including Ephemerophyta and Ergasiophytophyta) | |

RESULTS

We have to agree with Chodat (1913): «C'est une des caractéristiques du Portugal que la grande abondance de mauvaises herbes d'origine étrangère». Recently, another great botanist confirmed this opinion: «Portugal has the reputation of being particularly “rich” in aggressive alien plants and that reputation is fully confirmed (...). From *Eucalyptus* to *Carpobrotus*, many naturalized exotics work together in putting the country's rich native flora at risk» (Greuter, 2002).

From 500 taxa of vascular exotic more or less naturalized species (including species, subspecies and also

some hybrids) in 1999, or 15 % of the total flora (ca. 3200 species and subspecies), we now reach the impressive figure of 564 taxa (about 17 % of the total Portuguese flora), belonging to 113 families. In the period 1999-2005 we found 64 new records (12.8 % of the previous total number).

The main results of our work are summarised in table II, including all exotic more or less naturalized 564 taxa (species, subspecies and hybrids) that we know from continental Portugal (present and past), ordered in alphabetical order (Table 2):

Table 2

Exotic vascular plant species (invasive, potentially invasive or more or less naturalized) in continental Portugal. **Ch:** Chamephyte; **Cr:** Cryptophyte; **H:** Hemicriptophyte; **Hy:** Hydrophyte; **Ph:** Phanerophyte; **Th:** Therophyte; **Agr:** Agriophyte; **Arch:** Archeophyte; **Dia:** Diaphyte; **Epoe:** Epoeophyte; **Medit. Region:** Mediterranean Region; **NZeal.:** New Zealand; **Trop. Regions:** Tropical Regions; **N:** North; **S:** South. (1) Phytotype, according to Raunkiaer classification (1934). (2) Year of first reported naturalization of exotic species: a) year of collection of the first herbarium specimen; or b) year of the first observation of the referred taxon; or c) year of publication of the first bibliographic reference. For the archeophytes (Arch) we indicate the year of introduction as b. 1500 (before the year 1500). (3) Type of exotic species, according to Kornas classification (1990).

| Name of the species | Family | Origin | (1) | (2) | (3) |
|---|-----------------|----------------|-----|--------|------|
| <i>Abies x insignis</i> Carr. ex Bailey | Pinaceae | Hybrid | Ph | 1949 | Epoe |
| <i>Abies alba</i> Miller | Pinaceae | Eurasia | Ph | 1949 | Epoe |
| <i>Abies nordmanniana</i> (Steven) Spach | Pinaceae | Eurasia | Ph | 1949 | Epoe |
| <i>Abies pinsapo</i> Boiss. | Pinaceae | Medit. Region | Ph | 1949 | Epoe |
| <i>Abutilon theophrasti</i> Medik. | Malvaceae | Eurasia | Th | 1869 | Epoe |
| <i>Abutilon x hybridum</i> Siebert & Voss. | Malvaceae | Hybrid | Ph | 2004 | Epoe |
| <i>Acacia baileyana</i> F. Muell. | Mimosaceae | Australia | Ph | 1981 | Epoe |
| <i>Acacia cultriformis</i> A. Cunn. ex G. Don | Mimosaceae | Australia | Ph | 1999 | Epoe |
| <i>Acacia cyclops</i> A. Cunn. ex G. Don fil. | Mimosaceae | Australia | Ph | 1939 | Agr |
| <i>Acacia dealbata</i> Link | Mimosaceae | Australia | Ph | 1968 | Agr |
| <i>Acacia decurrens</i> (J. C. Wendl.) Willd. | Mimosaceae | Australia | Ph | 1999 | Epoe |
| <i>Acacia karroo</i> Hayne | Mimosaceae | S Africa | Ph | 1968 | Epoe |
| <i>Acacia longifolia</i> (Andrews) Willd. | Mimosaceae | Australia | Ph | 1989 | Agr |
| <i>Acacia mearnsii</i> De Wild. | Mimosaceae | Australia | Ph | 1968 | Epoe |
| <i>Acacia melanoxylon</i> R. Br. | Mimosaceae | Australia | Ph | 1968 | Agr |
| <i>Acacia pycnantha</i> Bentham | Mimosaceae | Australia | Ph | 1968 | Epoe |
| <i>Acacia retinodes</i> Schlecht. | Mimosaceae | Australia | Ph | 1968 | Agr |
| <i>Acacia saligna</i> (Labill.) H.L. Wendl. | Mimosaceae | Australia | Ph | 1968 | Epoe |
| <i>Acacia sophorae</i> (Labill.) R. Br. | Mimosaceae | Australia | Ph | 1999 | Epoe |
| <i>Acacia verticillata</i> (L' Hér.) Willd. | Mimosaceae | Australia | Ph | 1963 | Epoe |
| <i>Acalypha rhomboidea</i> Raf. | Euphorbiaceae | N America | Th | 2005 | Epoe |
| <i>Acanthus mollis</i> L. | Acanthaceae | Medit. Region | H | 1500 | Agr |
| <i>Acer negundo</i> L. | Aceraceae | N America | Ph | 1975 | Agr |
| <i>Acer platanoides</i> L. | Aceraceae | Eurasia | Ph | 1971 | Agr |
| <i>Aeonium arboreum</i> (L.) Webb & Berthel. | Crassulaceae | Macaronesia | Ph | 1661 | Agr |
| <i>Aeonium haworthii</i> Salm-Dyck ex Webb & Berthel. | Crassulaceae | Macaronesia | Ph | 2001 | Agr |
| <i>Agave americana</i> L. | Agavaceae | N America | H | 1887 | Agr |
| <i>Agave atrovirens</i> Karwinski ex Salm-Dyck | Agavaceae | N America | H | 1975 | Agr |
| <i>Ageratina adenophora</i> (Sprengel) R.M. King & H. Robinson | Asteraceae | N America | H | 1940 | Epoe |
| <i>Ageratum houstonianum</i> Miller | Asteraceae | N America | Th | 1965 | Dia |
| <i>Agrostemma githago</i> L. | Caryophyllaceae | Medit. Region | Th | b.1500 | Epoe |
| <i>Aichryson laxum</i> (Haw.) Bramwell | Crassulaceae | Macaronesia | Th | 1909 | Epoe |
| <i>Ailanthus altissima</i> (Miller) Swingle | Simaroubaceae | Eurasia | Ph | 1962 | Epoe |
| <i>Alcea rosea</i> L. | Malvaceae | Medit. Region | H | 1804 | Epoe |
| <i>Allium triquetrum</i> L. | Alliaceae | Medit. Region | Cr | 1804 | Epoe |
| <i>Aloe arborescens</i> Miller | Asphodelaceae | S Africa | Ph | 1980 | Agr |
| <i>Aloe maculata</i> All. | Asphodelaceae | S Africa | Ch | 1998 | Dia |
| <i>Aloe vera</i> (L.) Burm. fil. | Asphodelaceae | Africa, Arabia | H | 1896 | Agr |
| <i>Amaranthus albus</i> L. | Amaranthaceae | N America | Th | 1897 | Epoe |
| <i>Amaranthus blitoides</i> S. Watson | Amaranthaceae | N America | Th | 1927 | Epoe |
| <i>Amaranthus blitum</i> L. ssp. <i>emarginatus</i> (Moq. ex Uline & Bray) Carretero et al. | Amaranthaceae | Trop. Regions | Th | 1990 | Epoe |
| <i>Amaranthus caudatus</i> L. | Amaranthaceae | S America | Th | 1897 | Dia |
| <i>Amaranthus cruentus</i> L. | Amaranthaceae | N America | Th | 1882 | Dia |
| <i>Amaranthus deflexus</i> L. | Amaranthaceae | S America | H | 1897 | Epoe |
| <i>Amaranthus hybridus</i> L. | Amaranthaceae | S America | Th | 1884 | Epoe |

| Name of the species | Family | Origin | (1) | (2) | (3) |
|---|------------------|-----------------|-----|---------|------|
| <i>Amaranthus hypochondriacus</i> L. | Amaranthaceae | N America | Th | 1910 | Dia |
| <i>Amaranthus muricatus</i> (Gillies ex Moq.) Hieron. | Amaranthaceae | S America | Ch | 1945 | Epoe |
| <i>Amaranthus powellii</i> S. Watson | Amaranthaceae | N America | Th | 1990 | Epoe |
| <i>Amaranthus retroflexus</i> L. | Amaranthaceae | N America | Th | 1882 | Epoe |
| <i>Amaranthus viridis</i> L. | Amaranthaceae | America | Th | 1886 | Epoe |
| <i>Amaranthus x ozanonii</i> Thell. ex Priszter | Amaranthaceae | Hybrid | Th | 2003 | Epoe |
| <i>Amaryllis belladonna</i> L. | Amaryllidaceae | S Africa | Cr | 1887 | Epoe |
| <i>Ambrosia artemisiifolia</i> L. | Asteraceae | N America | Th | 1965 | Epoe |
| <i>Ammannia coccinea</i> Rottb. | Lythraceae | America | Th | 1935 | Epoe |
| <i>Ampelodesmos mauritanica</i> (Poiret) T. Durand & Schinz | Poaceae | Medit. Region | Cr | 1952 | Agr |
| <i>Anchusa arvensis</i> (L.) Bieb. ssp. <i>orientalis</i> (L.) Nordh. | Boraginaceae | Eurasia, Africa | Th | 1913 | Epoe |
| <i>Anredera cordifolia</i> (Ten.) Steenis | Basellaceae | S America | Cr | 1961 | Epoe |
| <i>Anthemis austriaca</i> Jacq. | Asteraceae | Eurasia | Th | 1976 | Epoe |
| <i>Aptenia cordifolia</i> (L. f.) Schwantes | Aizoaceae | S Africa | Ch | 1939 | Agr |
| <i>Araujia sericifera</i> Brot. | Asclepiadaceae | S America | Ph | 1954 | Epoe |
| <i>Arctotheca calendula</i> (L.) Levyns | Asteraceae | S Africa | Th | 1804 | Agr |
| <i>Arctotis stoechadifolia</i> Berg. | Asteraceae | S Africa | H | 1956 | Epoe |
| <i>Argemone mexicana</i> L. | Papaveraceae | America | Th | 1945 | Dia |
| <i>Aristolochia sempervirens</i> L. | Aristolochiaceae | Medit. Region | Ph | 1994 | Epoe |
| <i>Artemisia tournefortiana</i> Reichb. | Asteraceae | Eurasia | H | 1952 | Epoe |
| <i>Artemisia verlotiorum</i> Lamotte | Asteraceae | Eurasia | H | 1967 | Epoe |
| <i>Arundo donax</i> L. | Poaceae | Eurasia | Cr | b. 1500 | Arch |
| <i>Asclepias curassavica</i> L. | Asclepiadaceae | S America | Ph | 1999 | Epoe |
| <i>Asparagus asparagoides</i> (L.) Druce | Asparagaceae | S Africa | Ph | 1898 | Epoe |
| <i>Aster lanceolatus</i> Willd. | Asteraceae | N America | H | 1976 | Agr |
| <i>Aster squamatus</i> (Spreng.) Hieron. | Asteraceae | America | Th | 1956 | Epoe |
| <i>Atropa bella-dona</i> L. | Solanaceae | Medit. Region | H | 1900 | Dia |
| <i>Austrocylindropuntia subulata</i> (Mühlenpfordt) Backeb. | Cactaceae | S America | Ph | 2004 | Dia |
| <i>Avena nuda</i> L. | Poaceae | Eurasia | Th | 1880 | Dia |
| <i>Avena sativa</i> L. ssp. <i>byzantina</i> (K. Koch) Romero Zarco | Poaceae | Eurasia | Th | 1939 | Dia |
| <i>Avena sativa</i> L. ssp. <i>sativa</i> | Poaceae | Eurasia | Th | 1880 | Dia |
| <i>Avena strigosa</i> ssp. <i>brevis</i> (Roth) Husnot | Poaceae | Eurasia | Th | 1980 | Dia |
| <i>Avena strigosa</i> Schreber ssp. <i>strigosa</i> | Poaceae | Eurasia | Th | 1880 | Epoe |
| <i>Axonopus fissifolius</i> (Raddi) Kuhlmann | Poaceae | America | Cr | 1961 | Dia |
| <i>Azolla filiculoides</i> Lam. | Azollaceae | America | Cr | 1920 | Agr |
| <i>Bacopa monnieri</i> (L.) Pennel | Scrophulariaceae | Trop. Regions | H | 1952 | Epoe |
| <i>Bergenia crassifolia</i> (L.) Fritsch | Saxifragaceae | Eurasia | Ch | 2000 | Dia |
| <i>Beta vulgaris</i> L. | Chenopodiaceae | Medit. Region | Th | 1897 | Dia |
| <i>Betula pendula</i> Roth ssp. <i>pendula</i> | Betulaceae | Eurasia | Ph | 1913 | Agr |
| <i>Bidens aurea</i> (Aiton) Sherff | Asteraceae | N America | H | 1958 | Epoe |
| <i>Bidens frondosa</i> L. | Asteraceae | N America | Th | 1913 | Agr |
| <i>Bidens pilosa</i> L. | Asteraceae | S America | Th | 1891 | Epoe |
| <i>Blechnum capense</i> (L.) Schlecht. | Blechnaceae | Trop. Regions | H | 1985 | Dia |
| <i>Blechnum occidentale</i> L. | Blechnaceae | Trop. Regions | H | 1943 | Dia |
| <i>Blyxa japonica</i> (Miq.) Maxim. ex Aschers & Gürcke | Hydrocharitaceae | Eurasia | Cr | 1956 | Epoe |
| <i>Brassica napus</i> L. | Brassicaceae | Eurasia | Th | 1804 | Epoe |
| <i>Brassica oleracea</i> L. | Brassicaceae | Eurasia | Ph | 1804 | Dia |
| <i>Bromus catharticus</i> Vahl | Poaceae | S America | Th | 1867 | Epoe |
| <i>Bromus japonicus</i> Thunb. | Poaceae | Eurasia | Th | 1947 | Dia |
| <i>Bromus secalinus</i> L. | Poaceae | Eurasia | Th | 1804 | Epoe |
| <i>Broussonetia papyrifera</i> (L.) Vent. | Moraceae | Eurasia | Ph | 2005 | Epoe |
| <i>Buddleja davidii</i> Franchet | Buddlejaceae | Eurasia | Ph | 1989 | Epoe |
| <i>Buddleja globosa</i> J. Hope | Buddlejaceae | S America | Ph | 1968 | Dia |
| <i>Caesalpinia spinosa</i> (Molina) Kuntze | Caesalpiniaceae | S America | Ph | 2000 | Epoe |
| <i>Calendula officinalis</i> L. | Asteraceae | Medit. Region | H | 1661 | Dia |
| <i>Callistephus chinensis</i> (L.) Nees. | Asteraceae | Eurasia | Th | 1804 | Dia |
| <i>Callitriche deflexa</i> Hegelm. | Callitrichaceae | America | Cr | 1977 | Dia |
| <i>Calystegia silvatica</i> (Kit) Griseb. | Convolvulaceae | Medit. Region | H | 1972 | Epoe |

| Name of the species | Family | Origin | (1) | (2) | (3) |
|--|----------------|--------------------|-----|---------|------|
| <i>Canna indica</i> L. | Cannaceae | America | Cr | 1989 | Dia |
| <i>Cannabis sativa</i> L. | Cannabaceae | Eurasia | Th | 1901 | Dia |
| <i>Capparis spinosa</i> L. ssp. <i>spinosa</i> var. <i>spinosa</i> | Capparaceae | Medit. Region | Ph | 1804 | Dia |
| <i>Capsicum annuum</i> L. | Solanaceae | America | Th | 1972 | Dia |
| <i>Carpinus betulus</i> L. | Betulaceae | Eurasia | Ph | 2004 | Agr |
| <i>Carpobrotus acinaciformis</i> (L.) L. Bolus | Aizoaceae | S Africa | Ch | 1939 | Agr |
| <i>Carpobrotus edulis</i> (L.) N.E. Br. | Aizoaceae | S Africa | Ch | 1913 | Agr |
| <i>Carthamus tinctorius</i> L. | Asteraceae | Eurasia | Th | 1804 | Epo |
| <i>Castanea sativa</i> Miller | Fagaceae | Eurasia | Ph | b. 1500 | Arch |
| <i>Catalpa bignonioides</i> Walter | Bignoniaceae | N America | Ph | 2004 | Dia |
| <i>Catharanthus roseus</i> (L.) G. Don fil. | Apocynaceae | Madagascar | Ch | 1999 | Dia |
| <i>Cedrus atlantica</i> (Endl.) Carrière | Pinaceae | Medit. Region | Ph | 1999 | Epo |
| <i>Cedrus deodara</i> (Roxb. ex D. Don) G. Don fil | Pinaceae | Eurasia | Ph | 1999 | Epo |
| <i>Centaurea cyanus</i> L. | Asteraceae | Medit. Region | Th | b. 1500 | Arch |
| <i>Ceratonia siliqua</i> L. | Caesalpiaceae | Medit. Region | Ph | 1911 | Epo |
| <i>Cercis siliquastrum</i> L. | Caesalpiaceae | Medit. Region | Ph | 1968 | Dia |
| <i>Cestrum parqui</i> L' Hér. | Solanaceae | S America | Ph | 1995 | Dia |
| <i>Chamaecyparis lawsoniana</i> (A. Murray) Parl. | Cupressaceae | N America | Ph | 1971 | Agr |
| <i>Chamaesyce canescens</i> (L.) Prokh. | Euphorbiaceae | Eurasia | Th | b. 1500 | Arch |
| <i>Chamaesyce maculata</i> (L.) Small | Euphorbiaceae | N America | Th | 1947 | Epo |
| <i>Chamaesyce nutans</i> (Lag.) Small | Euphorbiaceae | N America | Th | 1939 | Epo |
| <i>Chamaesyce prostrata</i> (Aiton) Small | Euphorbiaceae | N America | Th | 1885 | Epo |
| <i>Chamaesyce serpens</i> (Kunth) Small | Euphorbiaceae | America | Th | 1946 | Epo |
| <i>Chasmanthe aethiopica</i> (L.) N. E. Br. | Iridaceae | S Africa | Cr | 1984 | Dia |
| <i>Chenopodium ambrosioides</i> L. | Chenopodiaceae | America | Th | 1897 | Epo |
| <i>Chenopodium multifidum</i> L. | Chenopodiaceae | S America | H | 1897 | Epo |
| <i>Chenopodium pumilio</i> R. Br. | Chenopodiaceae | Australia, NZeal. | H | 1990 | Epo |
| <i>Chrysanthemum segetum</i> L. | Asteraceae | Eurasia | Th | 1944 | Epo |
| <i>Claytonia perfoliata</i> Donn ex Willd. | Portulacaceae | N America | Th | 1939 | Epo |
| <i>Cochlearia officinalis</i> L. | Brassicaceae | Eurasia | H | 1888 | Dia |
| <i>Colocasia antiquorum</i> Schott | Araceae | Eurasia | Cr | 1898 | Agr |
| <i>Consolida ajacis</i> (L.) Schur | Ranunculaceae | Medit. Region | Th | 1886 | Epo |
| <i>Consolida orientalis</i> (Gay) Schrödinger | Ranunculaceae | Medit. Region | Th | 1886 | Dia |
| <i>Consolida regalis</i> S.F. Gray ssp. <i>regalis</i> | Ranunculaceae | Eurasia | Th | 1804 | Dia |
| <i>Convolvulus farinosus</i> L. | Convolvulaceae | África | H | 1913 | Epo |
| <i>Conyza x mixta</i> Fouc. & Neyr. | Asteraceae | Hybrid | Ph | 1956 | Epo |
| <i>Conyza x rouyana</i> Sennen | Asteraceae | Hybrid | Th | 1804 | Epo |
| <i>Conyza bonariensis</i> (L.) Cronq. | Asteraceae | S America | Th | 1661 | Epo |
| <i>Conyza canadensis</i> (L.) Cronq. | Asteraceae | N America | Th | 1661 | Epo |
| <i>Conyza ivifolia</i> (L.) Less. | Asteraceae | S Africa | Th | 1804 | Epo |
| <i>Conyza sumatrensis</i> (Retz.) E. Walker | Asteraceae | S America | Th | 1984 | Epo |
| <i>Coriandrum sativum</i> L. | Apiaceae | Medit. Region | Th | 1951 | Dia |
| <i>Coriaria myrtifolia</i> L. | Coriariaceae | Medit. Region | Ph | 1944 | Epo |
| <i>Cornus capitata</i> Wall. | Cornaceae | Eurasia | Ph | 1989 | Epo |
| <i>Coronopus didymus</i> (L.) Sm. | Brassicaceae | S America | Th | 1867 | Epo |
| <i>Cortaderia selloana</i> (Schultes & Schultes fil.) Ascherson & Graebner | Poaceae | S America | Cr | 1955 | Epo |
| <i>Cotoneaster horizontalis</i> Decne | Rosaceae | Eurasia | Ph | 2004 | Dia |
| <i>Cotula australis</i> (Sieber ex Spreng.) Hook. f. | Asteraceae | Australia, NZeal. | Th | 1984 | Epo |
| <i>Cotula coronopifolia</i> L. | Asteraceae | S Africa | Th | 1952 | Epo |
| <i>Crassula aquatica</i> (L.) Schönl. | Crassulaceae | Eurasia, N America | Th | 1954 | Epo |
| <i>Crassula multicava</i> Lemaire | Crassulaceae | S Africa | Ch | 1999 | Dia |
| <i>Crassula muscosa</i> L. | Crassulaceae | S Africa | Ch | 1998 | Dia |
| <i>Crassula peduncularis</i> (Smith) Meigen | Crassulaceae | S America | Th | 1999 | Dia |
| <i>Crepis foetida</i> L. ssp. <i>commutata</i> (Spreng.) Babc. | Asteraceae | Medit. Region | Th | 1891 | Agr |
| <i>Cucumis melo</i> L. | Cucurbitaceae | Eurasia, Africa | Th | 1993 | Dia |
| <i>Cucumis myriocarpus</i> Naudin | Cucurbitaceae | S Africa | Th | 1913 | Epo |
| <i>Cucurbita ficifolia</i> C.D. Bouché | Cucurbitaceae | N America | H | 1992 | Epo |
| <i>Cucurbita pepo</i> L. | Cucurbitaceae | N America | H | 2000 | Dia |

| Name of the species | Family | Origin | (1) | (2) | (3) |
|---|------------------|---------------------|-----|---------|------|
| <i>Cullen americanum</i> (L.) Rydb. | Fabaceae | Americaa, N Africaa | Ch | 1911 | Epoe |
| <i>Cupressus lusitanica</i> Miller | Cupressaceae | N America | Ph | 1650 | Agr |
| <i>Cupressus macrocarpa</i> Hartweg | Cupressaceae | N America | Ph | 1971 | Agr |
| <i>Cupressus sempervirens</i> L. | Cupressaceae | Medit. Region | Ph | 1804 | Agr |
| <i>Cuscuta campestris</i> Yuncker | Convolvulaceae | N America | Th | 1942 | Epoe |
| <i>Cuscuta epilinum</i> Weihe | Convolvulaceae | Eurasia | Th | b. 1500 | Arch |
| <i>Cuscuta suaveolens</i> Ser. | Convolvulaceae | S America | Th | 1881 | Epoe |
| <i>Cyclosporum leptophyllum</i> (Pers.) F. Mueller ex Bentham | Apiaceae | America | Th | 1661 | Epoe |
| <i>Cydonia oblonga</i> Miller | Rosaceae | Eurasia | Ph | 1912 | Dia |
| <i>Cymbalaria muralis</i> Gaertner, Meyer & Scherb. | Scrophulariaceae | Medit. Region | Ch | 1906 | Epoe |
| <i>Cyperus brevifolius</i> (Rottb.) Hassk. | Cyperaceae | America, Eurasia | Cr | 1891 | Epoe |
| <i>Cyperus eragrostis</i> Lam. | Cyperaceae | America | Th | 1891 | Epoe |
| <i>Cyperus involucratus</i> Rottb. | Cyperaceae | Trop. Africa | Cr | 1943 | Epoe |
| <i>Datura innoxia</i> Miller | Solanaceae | America | Th | 1957 | Epoe |
| <i>Datura stramonium</i> L. | Solanaceae | America | Th | 1804 | Epoe |
| <i>Dianthus barbatus</i> L. ssp. <i>barbatus</i> | Caryophyllaceae | Eurasia | Ch | 1884 | Dia |
| <i>Dianthus tripunctatus</i> Sm. | Caryophyllaceae | Medit. Region | Th | 1952 | Epoe |
| <i>Dichondra micrantha</i> Urban | Convolvulaceae | Eurasia | H | 1999 | Epoe |
| <i>Dicksonia antarctica</i> Labill. | Dicksoniaceae | Australia | Ph | 1985 | Dia |
| <i>Dipsacus sativus</i> (L.) Honckeny | Dipsacaceae | Medit. Region | H | 1661 | Agr |
| <i>Disphyma crassifolium</i> (L.) L. Bolus | Aizoaceae | S Africa | Ch | 1971 | Agr |
| <i>Dracunculus vulgaris</i> Schott | Araceae | Medit. Region | Cr | 1898 | Epoe |
| <i>Drosanthemum candens</i> (Haw.) Schwantes | Aizoaceae | S Africa | Ch | 1971 | Agr |
| <i>Drosanthemum floribundum</i> (Haw.) Schwantes | Aizoaceae | S Africa | Ch | 1990 | Agr |
| <i>Drosera capensis</i> L. | Droseraceae | S Africa | Cr | 2001 | Agr |
| <i>Duchesnea indica</i> (Jacks.) Focke | Rosaceae | Eurasia | H | 1997 | Agr |
| <i>Echinochloa colonum</i> (L.) Link | Poaceae | Trop. Regions | Th | 1957 | Epoe |
| <i>Echinochloa oryzicola</i> (Vasinger) Vasinger | Poaceae | Eurasia | Th | 1940 | Epoe |
| <i>Eclipta prostrata</i> (L.) L. | Asteraceae | America | Th | 1938 | Epoe |
| <i>Ehrharta calycina</i> Sm. | Poaceae | S Africa | Cr | 1982 | Epoe |
| <i>Ehrharta erecta</i> Lam. | Poaceae | S Africa | Cr | 1946 | Epoe |
| <i>Eichhornia crassipes</i> (C. Mart.) Solms-Laub. | Pontederiaceae | America | Cr | 1940 | Agr |
| <i>Eleocharis flavescens</i> (Poir.) Urban | Cyperaceae | America | Th | 1952 | Epoe |
| <i>Eleocharis obtusa</i> (Willd.) Schultes | Cyperaceae | N America | Th | 1956 | Dia |
| <i>Eleusine indica</i> (L.) Gaertner | Poaceae | Trop. Regions | Th | 1965 | Epoe |
| <i>Elodea canadensis</i> Michx | Hydrocharitaceae | N America | Cr | 1910 | Agr |
| <i>Eragrostis curvula</i> (Schrader) Nees | Poaceae | S Africa | H | 1998 | Epoe |
| <i>Erigeron karvinskianus</i> DC. | Asteraceae | N America | Ch | 1913 | Epoe |
| <i>Eriobotrya japonica</i> (Thunb.) Lindley | Rosaceae | Eurasia | Ph | 1971 | Dia |
| <i>Eryngium pandanifolium</i> Cham. & Schlecht. | Apiaceae | S America | H | 1900 | Agr |
| <i>Erysimum cheiri</i> (L.) Crantz | Brassicaceae | Medit. Region | Ch | 1804 | Epoe |
| <i>Eschscholzia californica</i> Cham. | Papaveraceae | N America | Th | 1956 | Epoe |
| <i>Eucalyptus camaldulensis</i> Dehnh. | Myrtaceae | Australia | Ph | 1971 | Epoe |
| <i>Eucalyptus globulus</i> Labill. ssp. <i>globulus</i> | Myrtaceae | Australia | Ph | 1943 | Agr |
| <i>E. globulus</i> ssp. <i>maidenii</i> (F. Muell.) J. Kirkp. | Myrtaceae | Australia | Ph | 1997 | Epoe |
| <i>Eucalyptus gunnii</i> Hook. f. | Myrtaceae | Tasmania | Ph | 1997 | Epoe |
| <i>Eucalyptus robusta</i> Sm. | Myrtaceae | Australia | Ph | 1997 | Epoe |
| <i>Eucalyptus sideroxylon</i> A. Cunn. | Myrtaceae | Australia | Ph | 1997 | Epoe |
| <i>Euphorbia lathyris</i> L. | Euphorbiaceae | Eurasia | H | 1804 | Epoe |
| <i>Euphorbia marginata</i> Pursh | Euphorbiaceae | N America | Th | 2004 | Dia |
| <i>Fagus sylvatica</i> L. | Fagaceae | Eurasia | Ph | 2003 | Agr |
| <i>Fallopia baldschuanica</i> (Regel) J. Holub | Polygonaceae | Eurasia | Ch | 1965 | Epoe |
| <i>Fallopia dumetorum</i> (L.) J. Holub | Polygonaceae | Eurasia | Th | 1881 | Agr |
| <i>Fascicularia pitcairniifolia</i> (Verlot) Mez | Bromeliaceae | S America | H | 2000 | Dia |
| <i>Ferraria crispa</i> Burm. | Iridaceae | S Africa | Cr | 1970 | Dia |
| <i>Ficus carica</i> L. | Moraceae | Medit. Region | Ph | b. 1500 | Arch |
| <i>Fraxinus excelsior</i> L. | Oleaceae | Eurasia | Ph | 1936 | Dia |
| <i>Fraxinus ornus</i> L. | Oleaceae | Medit. Region | Ph | 2000 | Epoe |

| Name of the species | Family | Origin | (1) | (2) | (3) |
|---|------------------|---------------|-----|------|-----|
| <i>Freesia refracta</i> (Jacq.) Ecklon ex Klatt | Iridaceae | S Africa | Cr | 1952 | Epo |
| <i>Fuchsia magellanica</i> Lam. | Onagraceae | S America | Ph | 1988 | Dia |
| <i>Furcraea foetida</i> (L.) Haw. | Agavaceae | America | H | 1887 | Dia |
| <i>Galinsoga parviflora</i> Cav. | Asteraceae | S America | Th | 1961 | Epo |
| <i>Galinsoga quadriradiata</i> Ruiz & Pavón | Asteraceae | America | Th | 1891 | Epo |
| <i>Gamochaeta calviceps</i> (Fernald) Cabrera | Asteraceae | S America | Th | 1952 | Epo |
| <i>Gamochaeta pensylvanica</i> (Willd.) Cabrera | Asteraceae | America | Th | 1944 | Epo |
| <i>Gamochaeta purpurea</i> (L.) Cabrera | Asteraceae | N America | H | 1970 | Epo |
| <i>Gamochaeta spicata</i> (Lam.) Cabrera | Asteraceae | S America | H | 1945 | Agr |
| <i>Gamochaeta subfalcata</i> (Cabrera) Cabrera | Asteraceae | America | Th | 1941 | Epo |
| <i>Gazania rigens</i> (L.) Gaertner | Asteraceae | S Africa | Ch | 1976 | Epo |
| <i>Geranium carolinianum</i> L. | Geraniaceae | N America | Th | 1958 | Epo |
| <i>Gladiolus undulatus</i> L. | Iridaceae | S Africa | Cr | 1977 | Agr |
| <i>Glandularia canadensis</i> (L.) Nutt. | Verbenaceae | N America | Ch | 1999 | Dia |
| <i>Gleditsia triacanthos</i> L. | Caesalpiaceae | N America | Ph | 1968 | Epo |
| <i>Gomphocarpus fruticosus</i> (L.) Aiton fil. | Asclepiadaceae | S Africa | Ph | 1902 | Epo |
| <i>Gomphocarpus physocarpus</i> E. Meyer | Asclepiadaceae | S Africa | Ph | 2000 | Dia |
| <i>Graptopetalum paraguayense</i> (N.E. Br.) E. Walther | Crassulaceae | N America | Ch | 1999 | Dia |
| <i>Grevillea robusta</i> A. Cunn. ex R. Br. | Proteaceae | Australia | Ph | 1999 | Dia |
| <i>Gymnostyles stolonifera</i> (Brot.) Tutin | Asteraceae | S America | Th | 1804 | Epo |
| <i>Hakea salicifolia</i> (Vent.) B.L. Burt | Proteaceae | Australia | Ph | 1989 | Epo |
| <i>Hakea sericea</i> Schrad. | Proteaceae | Australia | Ph | 1971 | Agr |
| <i>Hebe x andersonii</i> (Lindl. & Paxton) Cock. | Scrophulariaceae | Hybrid | Ph | 1999 | Dia |
| <i>Hedychium gardnerianum</i> Ker-Gawl. | Zingiberaceae | Eurasia | Cr | 1999 | Epo |
| <i>Hedysarum coronarium</i> L. | Fabaceae | Medit. Region | H | 1940 | Agr |
| <i>Helianthus x laetiflorus</i> Pers. | Asteraceae | N America | Th | 1990 | Dia |
| <i>Helianthus annuus</i> L. | Asteraceae | N America | Cr | 1987 | Agr |
| <i>Helichrysum bracteatum</i> (Vent.) Andrews | Asteraceae | Australia | H | 1661 | Agr |
| <i>Helichrysum foetidum</i> (L.) Cass. | Asteraceae | S Africa | H | 1868 | Dia |
| <i>Helichrysum petiolare</i> Hilliard & B.L. Burt | Asteraceae | S Africa | Ph | 1952 | Agr |
| <i>Heliotropium curassavicum</i> L. | Boraginaceae | N America | H | 1947 | Epo |
| <i>Hemodactylus tuberosus</i> (L.) Salisb. | Iridaceae | Medit. Region | Cr | 1898 | Dia |
| <i>Heteranthera reniformis</i> Ruiz & Pavón | Pontederiaceae | America | Cr | 1994 | Epo |
| <i>Heteranthera rotundifolia</i> (Kunth) Griseb. | Pontederiaceae | N America | Cr | 1996 | Epo |
| <i>Hibiscus trionum</i> L. | Malvaceae | Trop. Regions | Th | 1963 | Epo |
| <i>Hordeum bulbosum</i> L. | Poaceae | Medit. Region | Cr | 1961 | Epo |
| <i>Hydrangea macrophylla</i> (Thunb.) Ser. | Hydrangeaceae | Eurasia | Ph | 1971 | Dia |
| <i>Hydrocotyle bonariensis</i> Lam. | Apiaceae | S America | Cr | 1883 | Agr |
| <i>Hypericum atomarium</i> Boiss. | Hypericaceae | Medit. Region | Ch | 1893 | Dia |
| <i>Hypericum calycinum</i> L. | Hypericaceae | Medit. Region | Ph | 1885 | Epo |
| <i>Hypericum hircinum</i> L. | Hypericaceae | Medit. Region | Ph | 1846 | Dia |
| <i>Impatiens balfourii</i> Hooker fil. | Balsaminaceae | Eurasia | Th | 1999 | Dia |
| <i>Ipomoea acuminata</i> (Vahl) Roemer & Schult. | Convolvulaceae | Trop. Regions | Ph | 1962 | Epo |
| <i>Ipomoea sagittata</i> Poir | Convolvulaceae | America | Ph | 1994 | Agr |
| <i>Iris albicans</i> Lange | Iridaceae | Eurasia | H | 1898 | Dia |
| <i>Iris germanica</i> L. | Iridaceae | Medit. Region | H | 1898 | Epo |
| <i>Iris susiana</i> L. | Iridaceae | Eurasia | Cr | 1898 | Dia |
| <i>Isatis tinctoria</i> L. ssp. <i>tinctoria</i> | Brassicaceae | Medit. Region | H | 1923 | Epo |
| <i>Ixia paniculata</i> Delaroch | Iridaceae | S Africa | Cr | 1951 | Dia |
| <i>Jasminum officinale</i> L. | Oleaceae | Eurasia | Ph | 1913 | Epo |
| <i>Juglans nigra</i> L. | Juglandaceae | N America | Ph | 2004 | Agr |
| <i>Juglans regia</i> L. | Juglandaceae | Eurasia | Ph | 1954 | Agr |
| <i>Juncus imbricatus</i> Laharpe | Juncaceae | S America | Cr | 1946 | Agr |
| <i>Kalanchoe daigremontiana</i> Hamet & Perrier | Crassulaceae | N America | Ch | 1999 | Dia |
| <i>Kalanchoe pinnata</i> (Lam.) Pers. | Crassulaceae | Trop. Africa | Ch | 1999 | Dia |
| <i>Kalanchoe tubiflora</i> (Harvey) Hamet | Crassulaceae | Trop. Africa | Ch | 1999 | Dia |
| <i>Kyllinga controversa</i> Steud. | Cyperaceae | Africa | Th | 1962 | Dia |
| <i>Laburnum anagyroides</i> Medicus | Fabaceae | Eurasia | Ph | 1933 | Dia |

| Name of the species | Family | Origin | (1) | (2) | (3) |
|--|------------------|-----------------|-----|------|------|
| <i>Lagunaria patersonii</i> (Andrews) G. Don f. | Malvaceae | Australia | Ph | 2000 | Epoe |
| <i>Lampranthus falciformis</i> (Haw.) N.E. Br. | Aizoaceae | S Africa | Ch | 1957 | Agr |
| <i>Lantana camara</i> L. | Verbenaceae | America | Ph | 1967 | Dia |
| <i>Lathyrus odoratus</i> L. | Fabaceae | Medit. Region | Th | 1804 | Dia |
| <i>Lathyrus sativus</i> L. | Fabaceae | Medit. Region | Th | 1804 | Dia |
| <i>Legousia pentagonia</i> (L.) Druce | Campanulaceae | Medit. Region | Th | 1882 | Dia |
| <i>Legousia speculum-veneris</i> (L.) Chaix | Campanulaceae | Medit. Region | Th | 1984 | Epoe |
| <i>Lemma valdiviana</i> R.A. Philippi | Lemnaceae | N America | Hy | 1995 | Epoe |
| <i>Lens culinaris</i> Medicus | Fabaceae | Medit. Region | Th | 1804 | Dia |
| <i>Lepidium sativum</i> L. | Brassicaceae | Medit. Region | Th | 1804 | Dia |
| <i>Lepidium virginicum</i> L. | Brassicaceae | N America | Th | 1913 | Epoe |
| <i>Ligustrum lucidum</i> Aiton | Oleaceae | Eurasia | Ph | 1999 | Dia |
| <i>Ligustrum ovalifolium</i> Hassk. | Oleaceae | Eurasia | Ph | 1999 | Dia |
| <i>Lilaea scilloides</i> (Poiret) Hauman | Lilaeaceae | America | Th | 1947 | Agr |
| <i>Lilaeopsis carolinensis</i> J.M. Coult. & Rose | Apiaceae | America | Cr | 1956 | Agr |
| <i>Lilium candidum</i> L. | Liliaceae | Medit. Region | Cr | 1804 | Epoe |
| <i>Lindernia dubia</i> (L.) Pennel | Scrophulariaceae | N America | Th | 1945 | Agr |
| <i>Liriodendron tulipifera</i> L. | Magnoliaceae | N America | Ph | 1943 | Epoe |
| <i>Lobelia erinus</i> L. | Campanulaceae | S Africa | Th | 2001 | Dia |
| <i>Lobelia pinifolia</i> L. | Campanulaceae | S Africa | Ch | 2001 | Dia |
| <i>Lonicera japonica</i> Thunb. | Caprifoliaceae | Eurasia | Ph | 1967 | Epoe |
| <i>Lunaria annua</i> L. ssp. <i>annua</i> | Brassicaceae | Eurasia | H | 1661 | Dia |
| <i>Lupinus albus</i> L. ssp. <i>albus</i> | Fabaceae | Medit. Region | Th | 1661 | Dia |
| <i>Lychnis coronaria</i> (L.) Desr. | Caryophyllaceae | Medit. Region | H | 1804 | Dia |
| <i>Lychnis viscaria</i> L. ssp. <i>viscaria</i> | Caryophyllaceae | Medit. Region | H | 1885 | Dia |
| <i>Lycium barbarum</i> L. | Solanaceae | Eurasia | Ph | 1900 | Dia |
| <i>Lycium chinense</i> Miller | Solanaceae | Eurasia | Ph | 1947 | Epoe |
| <i>Lycopersicon esculentum</i> Miller | Solanaceae | America | Th | 1804 | Dia |
| <i>Lycopodiella cernua</i> (L.) Pichi Serm. | Lycopodiaceae | Trop. Regions | Ch | 1915 | Agr |
| <i>Macfadyena unguis-cati</i> (L.) A. Gentry | Bignoniaceae | America | Ph | 2000 | Epoe |
| <i>Maclura pomifera</i> (Rafin.) C.K. Schneider | Moraceae | N America | Ph | 2003 | Epoe |
| <i>Malcolmia flexuosa</i> (Sm.) Sm. | Brassicaceae | Medit. Region | Th | 1885 | Dia |
| <i>Malope trifida</i> Cav. | Malvaceae | Medit. Region | Th | 1843 | Dia |
| <i>Mariscus congestus</i> (Vahl) C.B. Clarke | Cyperaceae | S Africa | Th | 1891 | Epoe |
| <i>Matricaria discoidea</i> DC. | Asteraceae | N America, Asia | Th | 1944 | Epoe |
| <i>Matthiola incana</i> (L.) R. Br. ssp. <i>incana</i> | Brassicaceae | Medit. Region | Ch | 1804 | Dia |
| <i>Medicago x varia</i> Martyn | Fabaceae | Hybrid | H | 1930 | Dia |
| <i>Medicago arborea</i> L. | Fabaceae | Medit. Region | Ph | 1884 | Dia |
| <i>Medicago blanchiana</i> Boiss. | Fabaceae | Eurasia | Th | 1932 | Epoe |
| <i>Medicago falcata</i> L. | Fabaceae | Eurasia | H | 1804 | Epoe |
| <i>Medicago rugosa</i> Desr. | Fabaceae | Medit. Region | Th | 1916 | Epoe |
| <i>Medicago sativa</i> L. | Fabaceae | Eurasia | H | 1804 | Epoe |
| <i>Medicago turbinata</i> (L.) All. | Fabaceae | Medit. Region | Th | 2000 | Dia |
| <i>Melilotus infestus</i> Guss. | Fabaceae | Medit. Region | Th | 1884 | Epoe |
| <i>Melilotus italicus</i> (L.) Lam. | Fabaceae | Medit. Region | Th | 1804 | Dia |
| <i>Melissa officinalis</i> L. ssp. <i>officinalis</i> | Lamiaceae | Eurasia | H | 1907 | Epoe |
| <i>Mentha x piperita</i> L. | Lamiaceae | Hybrid | H | 1901 | Dia |
| <i>Mentha requienii</i> Bentham | Lamiaceae | Medit. Region | H | 1902 | Epoe |
| <i>Mentha spicata</i> L. | Lamiaceae | Eurasia | H | 1907 | Dia |
| <i>Mercurialis annua</i> L. | Euphorbiaceae | Eurasia | Th | 1928 | Dia |
| <i>Mesembryanthemum crystallinum</i> L. | Aizoaceae | Medit. Region | Th | 1804 | Agr |
| <i>Mespilus germanica</i> L. | Rosaceae | Eurasia | Ph | 1998 | Dia |
| <i>Mimulus moschatus</i> Douglas ex Lindley | Scrophulariaceae | N America | Cr | 1955 | Dia |
| <i>Mirabilis jalapa</i> L. | Nyctaginaceae | America | Cr | 1972 | Dia |
| <i>Modiola caroliniana</i> (L.) G. Don fil. | Malvaceae | America | H | 1963 | Epoe |
| <i>Mollugo verticillata</i> L. | Molluginaceae | America | Th | 1911 | Agr |
| <i>Molucella laevis</i> L. | Lamiaceae | Medit. Region | Th | 1999 | Epoe |
| <i>Morus alba</i> L. | Moraceae | Eurasia | Ph | 1941 | Dia |

| Name of the species | Family | Origin | (1) | (2) | (3) |
|---|------------------|---------------|-----|------|-----|
| <i>Muehlenbeckia complexa</i> (A. Cunn.) Meissn. | Polygonaceae | New Zeal. | Ch | 1984 | Agr |
| <i>M. sagittifolia</i> (Gómez Ortega) Meissner | Polygonaceae | S America | Cr | 1910 | Dia |
| <i>Myoporum insulare</i> R. Br. | Myoporaceae | Australia | Ph | 1944 | Epo |
| <i>Myoporum laetum</i> G. Forster | Myoporaceae | New Zeal. | Ph | 1968 | Epo |
| <i>Myosotis latifolia</i> Poiret | Boraginaceae | Medit. Region | H | 1984 | Agr |
| <i>Myriophyllum aquaticum</i> (Velloso) Verdc. | Haloragaceae | S America | Cr | 1936 | Agr |
| <i>Nephrolepis exaltata</i> (L.) Schott | Nephrolepidaceae | Trop. Regions | Cr | 2000 | Epo |
| <i>Nicandra physalodes</i> (L.) Gaertner | Solanaceae | S America | Th | 1956 | Epo |
| <i>Nicotiana glauca</i> R.C. Graham | Solanaceae | S America | Ph | 1900 | Agr |
| <i>Nicotiana rustica</i> L. | Solanaceae | N America | Th | 1984 | Dia |
| <i>Nicotiana tabacum</i> L. | Solanaceae | S America | Th | 1913 | Dia |
| <i>Nothoscordum gracile</i> (Aiton) Stearn | Alliaceae | S America | Cr | 1896 | Epo |
| <i>Oenothera affinis</i> Cambess. | Onagraceae | S America | Th | 1880 | Agr |
| <i>Oenothera biennis</i> x <i>Oe. glazioviana</i> | Onagraceae | Hybrid | H | 1876 | Epo |
| <i>Oenothera glazioviana</i> Micheli | Onagraceae | Hybrid | H | 1953 | Dia |
| <i>Oenothera indecora</i> x <i>Oe. stricta</i> | Onagraceae | Hybrid | Th | 1960 | Epo |
| <i>Oe. indecora</i> ssp. <i>bonariensis</i> W. Dietr. | Onagraceae | S America | Th | 1968 | Epo |
| <i>Oenothera indecora</i> Cambess. ssp. <i>indecora</i> | Onagraceae | S America | Th | 1889 | Epo |
| <i>Oenothera rosea</i> L'Hér. ex Aiton | Onagraceae | America | Th | 1954 | Epo |
| <i>Oenothera stricta</i> Ledebour ex Link | Onagraceae | S America | H | 1876 | Epo |
| <i>Olea europaea</i> L. var. <i>europaea</i> | Oleaceae | Medit. Region | Ph | 2003 | Agr |
| <i>Onobrychis vicifolia</i> Scop. | Fabaceae | Eurasia | H | 1804 | Dia |
| <i>Opuntia dillenii</i> (Ker-Gawler) Haw. | Cactaceae | N America | Ph | 1910 | Epo |
| <i>Opuntia maxima</i> Miller | Cactaceae | N America | Ph | 1910 | Epo |
| <i>Opuntia monacantha</i> Haw. | Cactaceae | America | Ph | 1902 | Epo |
| <i>Origanum majorana</i> L. | Lamiaceae | Medit. Region | H | 1980 | Dia |
| <i>Origanum majoricum</i> Camb. | Lamiaceae | Hybrid | Ch | 1913 | Dia |
| <i>Oryza sativa</i> L. | Poaceae | Eurasia | Th | 1998 | Epo |
| <i>Oxalis articulata</i> Savigny | Oxalidaceae | S America | H | 1958 | Epo |
| <i>Oxalis corymbosa</i> DC. | Oxalidaceae | S America | Cr | 1890 | Epo |
| <i>Oxalis latifolia</i> Kunth | Oxalidaceae | America | Cr | 1938 | Epo |
| <i>Oxalis pes-caprae</i> L. | Oxalidaceae | S Africa | Cr | 1828 | Agr |
| <i>Oxalis purpurea</i> L. | Oxalidaceae | S Africa | Cr | 1890 | Epo |
| <i>Panicum bulbosum</i> Humb., Bonpl. & Kunth | Poaceae | N America | Cr | 1884 | Dia |
| <i>Panicum capillare</i> L. | Poaceae | N America | Th | 1962 | Epo |
| <i>Panicum dichotomiflorum</i> Michx | Poaceae | N America | Th | 1998 | Epo |
| <i>Panicum miliaceum</i> L. | Poaceae | Eurasia | Th | 1998 | Epo |
| <i>Papaver somniferum</i> L. ssp. <i>somniferum</i> | Papaveraceae | Medit. Region | Th | 1892 | Epo |
| <i>Paraserianthes lophantha</i> (Benth.) I. Nielsen | Mimosaceae | Australia | Ph | 2000 | Epo |
| <i>Parkinsonia aculeata</i> L. | Caesalpinaceae | America | Ph | 1993 | Dia |
| <i>Parthenocissus inserta</i> (A. Kerner) Fritsch | Vitaceae | N America | Ph | 1984 | Dia |
| <i>Parthenocissus quinquefolia</i> (L.) Planchon | Vitaceae | N America | Ph | 1884 | Dia |
| <i>Paspalum dilatatum</i> Poiret | Poaceae | S America | H | 1922 | Agr |
| <i>Paspalum paspalodes</i> (Michx) Scribner | Poaceae | Trop. Regions | H | 1909 | Agr |
| <i>Paspalum urvillei</i> Steudel | Poaceae | S America | H | 1940 | Agr |
| <i>Paspalum vaginatum</i> Swartz | Poaceae | Trop. Regions | H | 1880 | Agr |
| <i>Passiflora caerulea</i> L. | Passifloraceae | S America | Ph | 1983 | Dia |
| <i>Passiflora suberosa</i> L. | Passifloraceae | America | Ph | 1999 | Dia |
| <i>Pelargonium capitatum</i> Ait. | Geraniaceae | S Africa | Ch | 1993 | Epo |
| <i>Pelargonium cordatum</i> L'Hér. | Geraniaceae | S Africa | Ch | 1944 | Dia |
| <i>Pelargonium radula</i> (Cav.) L'Hér. | Geraniaceae | S Africa | Ch | 1965 | Dia |
| <i>Pennisetum villosum</i> R. Br. ex Fresen | Poaceae | Africa | H | 1955 | Epo |
| <i>Persea indica</i> (L.) Spreng. | Lauraceae | Macaronesia | Ph | 1989 | Epo |
| <i>Petasites fragrans</i> (Vill.) C. Presl. | Asteraceae | Medit. Region | Cr | 1892 | Epo |
| <i>Petroselinum crispum</i> (Miller) Fuss | Apiaceae | Eurasia | H | 1661 | Dia |
| <i>Petunia</i> x <i>hybrida</i> Hort. | Solanaceae | Hybrid | Th | 1966 | Dia |
| <i>Phacelia tanacetifolia</i> Bentham | Hydrophyllaceae | N America | Th | 1913 | Dia |
| <i>Phalaris canariensis</i> L. | Poaceae | Macaronesia | Th | 1905 | Epo |

| Name of the species | Family | Origin | (1) | (2) | (3) |
|--|----------------|----------------|-----|---------|------|
| <i>Philadelphus coronarius</i> L. | Hydrangeaceae | Eurasia | Ph | 1997 | Dia |
| <i>Phoenix canariensis</i> Hort. ex Chabaud | Arecaceae | Macaronesia | Ph | 1948 | Epoe |
| <i>Phyla canescens</i> (Kunth) Greene | Verbenaceae | S America | Ch | 1948 | Epoe |
| <i>Physalis ixocarpa</i> Brot. ex Hornem. | Solanaceae | America | Th | 1878 | Epoe |
| <i>Physalis peruviana</i> L. | Solanaceae | S America | H | 1804 | Dia |
| <i>Phytolacca americana</i> L. | Phytolaccaceae | N America | Ch | 1910 | Epoe |
| <i>Phytolacca heterotepala</i> H. Walter | Phytolaccaceae | N America | Ch | 1987 | Epoe |
| <i>Pimpinella anisum</i> L. | Apiaceae | Eurasia | Th | 1661 | Dia |
| <i>Pinus halepensis</i> Mill. ssp. <i>halepensis</i> | Pinaceae | Medit. Region | Ph | 1957 | Epoe |
| <i>Pinus nigra</i> Arn. | Pinaceae | Eurasia | Ph | 1999 | Epoe |
| <i>Pinus radiata</i> D. Don | Pinaceae | N America | Ph | 1951 | Epoe |
| <i>Pistia stratiotes</i> L. | Araceae | Trop. Regions | Cr | 1990 | Dia |
| <i>Pisum sativum</i> L. ssp. <i>sativum</i> | Fabaceae | Cosmopolitan | Th | 1968 | Dia |
| <i>Pittosporum crassifolium</i> Banks & Sol. ex A. Cunn. | Pittosporaceae | New Zeal. | Ph | 1999 | Dia |
| <i>Pittosporum tobira</i> (Thunb.) W.T. Aiton | Pittosporaceae | Eurasia | Ph | 1997 | Dia |
| <i>Pittosporum undulatum</i> Vent. | Pittosporaceae | Australia | Ph | 1971 | Agr |
| <i>Platanus hispanica</i> Miller ex Münchh. | Platanaceae | Unknown origin | Ph | 1990 | Dia |
| <i>Plecostachys serpyllifolia</i> (Berg.) Hilliard & B.L. Burt | Asteraceae | S Africa | Ph | 1984 | Agr |
| <i>Plumbago auriculata</i> Lam. | Plumbaginaceae | S Africa | Ph | 1972 | Dia |
| <i>Polygonum capitatum</i> Buch.-Ham. ex D. Don | Polygonaceae | Eurasia | H | 1957 | Epoe |
| <i>Polygonum minus</i> Hudson | Polygonaceae | Eurasia | Th | 1963 | Epoe |
| <i>Polygonum orientale</i> L. | Polygonaceae | Eurasia | Th | 1910 | Epoe |
| <i>Populus x canadensis</i> Moench | Salicaceae | Eurasia | Ph | 1971 | Dia |
| <i>Populus deltoides</i> Marshall | Salicaceae | N America | Ph | 1971 | Dia |
| <i>Populus nigra</i> L. ssp. <i>caudata</i> (Ten.) Bug | Salicaceae | Eurasia | Ph | 1999 | Dia |
| <i>Populus nigra</i> L. ssp. <i>nigra</i> | Salicaceae | Eurasia | Ph | b. 1500 | Arch |
| <i>Portulaca oleracea</i> L. ssp. <i>nitida</i> Danin & H.G. Baker | Portulacaceae | N America | Th | 1990 | Epoe |
| <i>Portulaca oleracea</i> L. ssp. <i>papillatostellulata</i> Danin & H.G. Baker | Portulacaceae | N America | Th | 1990 | Epoe |
| <i>P. oleracea</i> L. ssp. <i>sativa</i> (Haw.) Čelak | Portulacaceae | Horticultural | Th | 1661 | Dia |
| <i>P. oleracea</i> ssp. <i>stellata</i> Danin & H.G. Baker | Portulacaceae | N America | Th | 1990 | Epoe |
| <i>Proboscidea lousianica</i> (Miller) Thell. | Martyniaceae | N America | Th | 1960 | Epoe |
| <i>Prunus cerasifera</i> Ehrh. | Rosaceae | Eurasia | Ph | 1998 | Dia |
| <i>Prunus cerasus</i> L. | Rosaceae | Eurasia | Ph | 1913 | Dia |
| <i>Prunus domestica</i> L. | Rosaceae | Eurasia | Ph | 1899 | Dia |
| <i>Prunus dulcis</i> (Miller) D.A. Webb | Rosaceae | Medit. Region | Ph | 1899 | Dia |
| <i>Prunus laurocerasus</i> L. | Rosaceae | Eurasia | Ph | 1899 | Epoe |
| <i>Prunus persica</i> (L.) Batsch. | Rosaceae | Eurasia | Ph | 1899 | Dia |
| <i>Pseudotsuga menziesii</i> (Mirbel) Franco | Pinaceae | N America | Ph | 1999 | Agr |
| <i>Psoralea pinnata</i> L. | Fabaceae | S Africa | Ph | 1971 | Dia |
| <i>Pteris cretica</i> L. | Pteridaceae | Medit. Region | H | 1886 | Dia |
| <i>Pteris vittata</i> L. | Pteridaceae | Medit. Region | H | 1999 | Epoe |
| <i>Ptilostemon casabonae</i> (L.) W. Greuter | Asteraceae | Medit. Region | H | 1892 | Epoe |
| <i>Punica granatum</i> L. | Punicaceae | Eurasia | Ph | 1912 | Dia |
| <i>Pyracantha coccinea</i> M.J. Roemer | Rosaceae | Eurasia | Ph | 1912 | Dia |
| <i>Pyrus communis</i> L. | Rosaceae | Eurasia | Ph | 1886 | Dia |
| <i>Quercus rubra</i> L. | Fagaceae | N America | Ph | 1999 | Agr |
| <i>Raphanus sativus</i> L. | Brassicaceae | Unknown origin | Th | 1804 | Dia |
| <i>Reynoutria japonica</i> Houtt. | Polygonaceae | Eurasia | Cr | 1951 | Epoe |
| <i>Rhus coriaria</i> L. | Anacardiaceae | Eurasia | Ph | 1910 | Agr |
| <i>Ricinus communis</i> L. | Euphorbiaceae | Trop. Regions | Ph | 1885 | Epoe |
| <i>Robinia pseudoacacia</i> L. | Fabaceae | N America | Ph | 1804 | Agr |
| <i>Rosa gallica</i> L. | Rosaceae | Eurasia | Ph | 1912 | Dia |
| <i>Rosa moschata</i> J. Herrmann | Rosaceae | Eurasia | Ph | 1999 | Dia |
| <i>Rosa multiflora</i> Thunb. ex Murray | Rosaceae | Eurasia | Ph | 1999 | Dia |
| <i>Rosa wichuraiana</i> Crépin | Rosaceae | Eurasia | Ph | 1999 | Dia |
| <i>Rosa x odorata</i> var. <i>gigantea</i> (Collet ex Crépin) Rehder & E.H. Wilson | Rosaceae | Hybrid | Ph | 1999 | Dia |
| <i>Rotala indica</i> (Willd.) Koehne | Lythraceae | Eurasia | Th | 1967 | Epoe |
| <i>Rubia tinctorum</i> L. | Rubiaceae | Eurasia | Ch | 1789 | Agr |

| Name of the species | Family | Origin | (1) | (2) | (3) |
|---|------------------|---------------|-----|---------|------|
| <i>Rubus idaeus</i> L. | Rosaceae | Eurasia | Ph | 1999 | Dia |
| <i>Rubus x loganobaccus</i> L.H. Bailey | Rosaceae | Hybrid | Ph | 1999 | Dia |
| <i>Rumex cristatus</i> DC. ssp. <i>cristatus</i> | Polygonaceae | Medit. Region | Cr | 1987 | Epo |
| <i>Rumex frutescens</i> Thouars | Polygonaceae | S America | Cr | 1978 | Epo |
| <i>Ruschia caroli</i> (L. Bolus) Schwantes | Aizoaceae | S Africa | Ch | 1993 | Epo |
| <i>Ruscus hypophyllum</i> L. | Asparagaceae | Medit. Region | Ph | 2000 | Dia |
| <i>Saccharum spontaneum</i> L. | Poaceae | Eurasia | Cr | 1974 | Agr |
| <i>Salix babylonica</i> L. | Salicaceae | Eurasia | Ph | 1999 | Dia |
| <i>Salix viminalis</i> L. | Salicaceae | Eurasia | Ph | 1907 | Dia |
| <i>Salpichroa origanifolia</i> (Lam.) Thell. | Solanaceae | S America | Ch | 1927 | Epo |
| <i>Salvia microphylla</i> Kunth | Lamiaceae | N America | Ph | 2003 | Dia |
| <i>Salvia officinalis</i> L. | Lamiaceae | Eurasia | Ph | 1907 | Dia |
| <i>Salvia sclarea</i> L. | Lamiaceae | Eurasia | H | 1877 | Dia |
| <i>Salvia triloba</i> L. fil. | Lamiaceae | Medit. Region | Ph | 1880 | Agr |
| <i>Santolina chamaecyparissus</i> L. | Asteraceae | Medit. Region | Ch | 1661 | Dia |
| <i>Schinus molle</i> L. | Anacardiaceae | America | Ph | 1968 | Dia |
| <i>Schinus terebenthifolia</i> Raddi | Anacardiaceae | S America | Ph | 1968 | Dia |
| <i>Schoenoplectus juncooides</i> (Roxb.) Krecz. | Cyperaceae | Trop. Regions | Th | 1934 | Epo |
| <i>Secale cereale</i> L. | Poaceae | Eurasia | Th | 1902 | Dia |
| <i>Securigera securidaca</i> (L.) Degen & Dörfler | Fabaceae | Eurasia | Th | 1876 | Dia |
| <i>Sedum praealtum</i> A. DC. | Crassulaceae | N America | Ch | 1961 | Dia |
| <i>Selaginella kraussiana</i> (G. Kunze) A. Braun | Selaginellaceae | Africa | H | 1902 | Epo |
| <i>Sempervivum tectorum</i> L. | Crassulaceae | Eurasia | H | b. 1500 | Arch |
| <i>Senecio x albescens</i> Burbidge & Colgan | Asteraceae | Hybrid | H | 1990 | Dia |
| <i>Senecio angulatus</i> L. fil. | Asteraceae | S Africa | Ph | 1984 | Epo |
| <i>Senecio cineraria</i> DC. | Asteraceae | Medit. Region | Ch | 1661 | Agr |
| <i>Senecio elegans</i> L. | Asteraceae | S Africa | Th | 1892 | Agr |
| <i>Senecio mikanioides</i> Otto ex Walpers | Asteraceae | S Africa | Ph | 1883 | Agr |
| <i>Sesbania punicea</i> (Cav.) Benth. | Fabaceae | S America | Ph | 2003 | Epo |
| <i>Sesuvium portulacastrum</i> (L.) L. | Aizoaceae | Trop. Regions | Ch | 1909 | Dia |
| <i>Setaria adhaerens</i> (Forsskål) Chiov. | Poaceae | Trop. Regions | Th | 1877 | Epo |
| <i>Setaria faberi</i> F. Hermann | Poaceae | Eurasia | Th | 1994 | Epo |
| <i>Setaria italica</i> (L.) P. Beauv. | Poaceae | Eurasia | Th | 1963 | Dia |
| <i>Setaria parviflora</i> (Poir.) Kerguelen | Poaceae | America | H | 1961 | Agr |
| <i>Sibthorpia peregrina</i> L. | Scrophulariaceae | Madeira | Ch | 1939 | Epo |
| <i>Sida rhombifolia</i> L. | Malvaceae | America | H | 1901 | Epo |
| <i>Silene armeria</i> L. | Caryophyllaceae | Eurasia | Th | 1804 | Agr |
| <i>Silene coeli-rosa</i> (L.) Godron | Caryophyllaceae | Medit. Region | Th | 1947 | Agr |
| <i>Silene pendula</i> L. | Caryophyllaceae | Medit. Region | Th | 1990 | Dia |
| <i>Sisymbrium altissimum</i> L. | Brassicaceae | Eurasia | Th | 1956 | Epo |
| <i>Sisymbrium polyceratium</i> L. | Brassicaceae | Medit. Region | Th | 1804 | Epo |
| <i>Solanum capsicastrum</i> Link ex Schauer | Solanaceae | S America | Ph | 1984 | Dia |
| <i>Solanum chenopodioides</i> Lam. | Solanaceae | S America | Ch | 1960 | Epo |
| <i>Solanum citrullifolium</i> A. Braun | Solanaceae | N America | Th | 1957 | Epo |
| <i>Solanum elaeagnifolium</i> Cav. | Solanaceae | S America | Ch | 1992 | Dia |
| <i>Solanum jasminoides</i> Paxton | Solanaceae | S America | Ph | 1961 | Dia |
| <i>Solanum marginatum</i> L. fil. | Solanaceae | Trop. Africa | Ph | 1929 | Epo |
| <i>Solanum mauritianum</i> Scop. | Solanaceae | N America | Ph | 1999 | Epo |
| <i>Solanum pseudocapsicum</i> L. | Solanaceae | S America | Ph | 1900 | Epo |
| <i>Solanum sodomaeum</i> L. | Solanaceae | S Africa | Ph | 1886 | Agr |
| <i>Solanum tuberosum</i> L. | Solanaceae | S America | Cr | 2003 | Dia |
| <i>Soleirolia soleirolii</i> (Req.) Dandy | Urticaceae | Medit. Region | H | 1956 | Epo |
| <i>Solidago rugosa</i> Mill. | Asteraceae | N America | Cr | 1945 | Dia |
| <i>Soliva pterosperma</i> (Juss.) Less. | Asteraceae | S America | Th | 1875 | Dia |
| <i>Sollya fusiformis</i> (Labill.) Briq. | Pittosporaceae | Australia | Ph | 1984 | Agr |
| <i>Sophora japonica</i> L. | Fabaceae | Eurasia | Ph | 1999 | Dia |
| <i>Sorbus domestica</i> L. | Rosaceae | Medit. Region | Ph | b. 1500 | Arch |

| Name of the species | Family | Origin | (1) | (2) | (3) |
|--|------------------|-------------------|-----|---------|------|
| <i>Sorghum halepense</i> (L.) Pers. | Poaceae | Medit. Region | Cr | 1880 | Epoe |
| <i>Sparaxis bulbifera</i> (L.) Ker-Gawler | Iridaceae | S Africa | Cr | 1958 | Dia |
| <i>Sparaxis tricolor</i> (Schneev.) Ker-Gawler | Iridaceae | S Africa | Cr | 1944 | Dia |
| <i>Spartina densiflora</i> Brongn. | Poaceae | S America | H | 1998 | Epoe |
| <i>Spartium junceum</i> L. | Fabaceae | Medit. Region | Ph | b. 1500 | Arch |
| <i>Spiraea cantoniensis</i> Lour. | Rosaceae | Eurasia | Ph | 2004 | Dia |
| <i>Spiraea douglasii</i> Hook. | Rosaceae | N America | Ph | 1976 | Dia |
| <i>Sporobolus indicus</i> (L.) R. Br. | Poaceae | Trop. Regions | H | 1944 | Epoe |
| <i>Stenotaphrum secundatum</i> (Walter) Kuntze | Poaceae | Trop. Regions | Cr | 1935 | Epoe |
| <i>Sternbergia lutea</i> (L.) Ker-Gawler ex Spreng. | Amarylilidaceae | Medit. Region | Cr | 1878 | Dia |
| <i>Stipa neesiana</i> Trin. & Rupr. | Poaceae | S America | H | 1945 | Dia |
| <i>Styrax officinalis</i> L. | Styracaceae | Medit. Region | Ph | 1952 | Epoe |
| <i>Symphoricarpos albus</i> (L.) S.F. Blake | Caprifoliaceae | N America | Ph | 1956 | Epoe |
| <i>Syringa vulgaris</i> L. | Oleaceae | Medit. Region | Ph | 2000 | Dia |
| <i>Tagetes patula</i> L. | Asteraceae | N America | Th | 2000 | Dia |
| <i>Tamarix parviflora</i> DC. | Tamaricaceae | Medit. Region | Ph | 1993 | Dia |
| <i>Tanacetum parthenium</i> (L.) Schultz Bip. | Asteraceae | Eurasia | H | b. 1500 | Arch |
| <i>Tanacetum vulgare</i> L. | Asteraceae | Eurasia | H | 1892 | Agr |
| <i>Teline monspessulana</i> (L.) K. Koch | Fabaceae | Medit. Region | Ph | b. 1500 | Arch |
| <i>Tetragonia tetragonoides</i> (Pallas) Kuntze | Tetragoniaceae | Australia, NZeal. | Th | 1909 | Agr |
| <i>Tinantia erecta</i> (Jacq.) Fenzl | Commelinaceae | America | Th | 2000 | Dia |
| <i>Tradescantia fluminensis</i> Velloso | Commelinaceae | S America | H | 1932 | Epoe |
| <i>Tragopogon porrifolius</i> L. ssp. <i>porrifolius</i> | Asteraceae | Medit. Region | Th | 1661 | Dia |
| <i>Trifolium alexandrinum</i> L. | Fabaceae | Medit. Region | Th | 1964 | Dia |
| <i>Trifolium hybridum</i> L. | Fabaceae | Medit. Region | H | 2000 | Epoe |
| <i>Trifolium incarnatum</i> L. ssp. <i>incarnatum</i> | Fabaceae | Eurasia | Th | 1884 | Epoe |
| <i>Trifolium resupinatum</i> L. ssp. <i>suaveolens</i> (Willd.) Ponert | Fabaceae | Eurasia | Th | 1968 | Epoe |
| <i>Trifolium vesiculosum</i> Savi | Fabaceae | Eurasia | Th | 2000 | Epoe |
| <i>Triglochin striata</i> Ruiz & Pavón | Juncaginaceae | Trop. Regions | Cr | 1910 | Agr |
| <i>Triticum aestivum</i> L. | Poaceae | Eurasia | Th | b. 1500 | Arch |
| <i>Tritonia x crocosmiflora</i> (Lemoine) Nichols. | Iridaceae | Hybrid | Cr | 1946 | Epoe |
| <i>Tropaeolum majus</i> L. | Tropaeolaceae | S America | Th | 1966 | Epoe |
| <i>Tulipa clusiana</i> DC. | Liliaceae | Eurasia | Cr | 1804 | Epoe |
| <i>Tulipa praecox</i> Ten. | Liliaceae | Eurasia | Cr | 1953 | Epoe |
| <i>Ulmus glabra</i> Huds. | Ulmaceae | Eurasia | Ph | 1993 | Agr |
| <i>Verbascum levanticum</i> I. K. Ferguson | Scrophulariaceae | Eurasia | H | 1907 | Epoe |
| <i>Verbena bonariensis</i> L. | Verbenaceae | S America | Ch | 1927 | Epoe |
| <i>Verbena littoralis</i> Humb., Bonpl. & Kunth | Verbenaceae | America | Th | 1974 | Epoe |
| <i>Veronica peregrina</i> L. | Scrophulariaceae | America | Th | 1877 | Epoe |
| <i>Veronica persica</i> Poiret | Scrophulariaceae | Eurasia | Th | 1877 | Epoe |
| <i>Vicia articulata</i> Hornem. | Fabaceae | Medit. Region | Th | 1804 | Epoe |
| <i>Vicia ervilia</i> (L.) Willd. | Fabaceae | Eurasia | Th | 1804 | Epoe |
| <i>Vicia faba</i> L. | Fabaceae | Eurasia | Th | 1968 | Epoe |
| <i>Vicia villosa</i> Roth | Fabaceae | Eurasia | Th | 1911 | Epoe |
| <i>Vinca major</i> L. | Apocynaceae | Eurasia | Ch | 1882 | Agr |
| <i>Vinca minor</i> L. | Apocynaceae | Eurasia | Ch | 1913 | Agr |
| <i>Vitis longii</i> Prince | Vitaceae | America | Ph | 1966 | Dia |
| <i>Vitis vinifera</i> L. ssp. <i>vinifera</i> | Vitaceae | Eurasia | Ph | 1913 | Dia |
| <i>Watsonia bulbifera</i> Matthews & L. Bolus | Iridaceae | S Africa | Cr | 1956 | Epoe |
| <i>Wedelia glauca</i> (Ort.) Blake | Asteraceae | S America | Cr | 1939 | Dia |
| <i>Wigandia caracasana</i> Kunth | Hydrophyllaceae | America | Ph | 1944 | Dia |
| <i>Xanthium orientale</i> L. | Asteraceae | Hybrid | Th | 1913 | Agr |
| <i>Xanthium spinosum</i> L. | Asteraceae | S America | Th | 1804 | Epoe |
| <i>Xanthium strumarium</i> L. ssp. <i>italicum</i> (Moretti) D. Löve | Asteraceae | America | Th | 1913 | Agr |
| <i>Yucca aloifolia</i> L. | Agavaceae | N America | Ph | 1896 | Dia |
| <i>Zantedeschia aethiopica</i> (L.) Spreng. | Araceae | S Africa | Cr | 1989 | Epoe |

CONCLUSIONS

We recognise now a total number of 564 taxa of vascular exotic more or less naturalized species (including species, subspecies and also some hybrids), corresponding to about 17 % of the total flora of continental Portugal (ca. 3270 species and subspecies). In the period 1999-2005 we found 64 new plant species records (12,8 % more than the previous total number).

These 564 taxa belong to 113 families. Pteridophyta, with 9 species (1,6 %) belonging to 7 families, are a small group. The same is true for Gymnospermae, with 14 species (2,5 %), belonging to 2 families. Angiosper-

mae are the great majority of our exotic flora, with 541 taxa (95,9 % of the total number), belonging to 104 families. Dicotyledones are the largest group, with 443 taxa (78,5 %), included in 83 families. Monocotyledones are other major group, with 98 taxa (17,4 %), belonging to 21 families). The previous proportions between these large groups (Almeida, 1999a; Almeida & Freitas, 2000; Almeida & Freitas, 2001) remain more or less constant.

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