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Spain's First Cultivar Database: A Milestone in Agricultural Research

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During the 2009 - 2010 periods, the “herbarium and horticultural variety database” project has been carried out in the town of Noguera (Teruel, Spain), the first project to dedicate its efforts to the creation of a database of cultivars marketed and/or cultivated in Spain, including 2124 cultivars.

Key words: Cultivar, database, herbarium, Spain.

INTRODUCTION

During the development of a research project carried out in the 2009 - 2010 period by the Fundación Oroiberico (Noguera de Albarracín, Teruel, Spain), consisting of the creation of a database of cultivated plant varieties in Spain, and financed by the Spanish Government, via the Biodiversity Foundation and the Trust Fund of Teruel of 2010, Asiader (Government of Aragon, Spain) and the Fundación Oroiberico, entitled “Herbarium and database of horticultural varieties”, the presence of 2,124 cultivars cultivated and/or commercialized in this country has been confirmed. This project also includes the creation of the first herbarium in Spain dedicated exclusively to cultivars.

This research project contains the results of the extensive work carried out during the 2001 - 2010 period, initiated at the Cavanilles institute of Biodiversity (University of Valencia, Spain) and based on the study and classification of ornamental and alien floras in Spain, the results have been used in the doctoral thesis of Dr. Daniel Guillot Ortiz entitled “Certain Aspects of the Ornamental Flora of Valencia”, directed by the Dr. Josep Antoni Rosselló Picornell and also in the publication in Spanish scientific journals of numerous articles together with several monographs and the creation of the first volume in 2006, the *Bouteloua* scientific journal, a Spanish journal dedicated to the study of ornamental flora from a scientific perspective. The results of this line of work have increased our knowledge regarding the number of species and cultivars cultivated and/or commercialized in Spain and also of the presence of these taxa in alien flora. This project has helped us to discover numerous cultivars that had not been mentioned in existing recent horticultural literature.

From the point of view of the study of the alien flora of

ornamental origin and as a result of this line of inquiry, works have been published where cultivars belonging to different genus (*Amaranthus* L., *Vinca* L., *Canna* L., *Dahlia* Cav., *Osteospermum* L. etc.), by Guillot (2001, 2003a) and Guillot and Meer (2004a) have been cited, along with others that are centred in the study of families, genus or species, for example, by Guillot and Meer (2001, 2003, 2005c), Guillot et al. (2008 c) and Guillot (2010a), for the Cactaceae family, by Guillot (2001), Guillot and Meer (2003 b, c, d, and 2004c, 2005, 2006c, 2008b) and Guillot et al. (2008 to, d) the Agavaceae and Aloaceae families, by Guillot (2003c, 2006a), the *Ipomoea* L. genus, Guillot and Rosselló (2004, 2006a, 2008j) and Guillot (2008k), the *Lavandula* L. genus, by Guillot and Meer (2008d) and Guillot et al. (2008e), for the Crassulaceae family, within this family, for the *Kalanchoe* Adanson genus, by Guillot (2003d, 2005) and Guillot and Rosselló (2005), by Guillot (2008g) the *Centranthus* DC. Genus, by Guillot (2008h), the *Papaver* L. genus, by Guillot et al. (2008 b, g) the Aizoaceae and Portulacaceae families and by Guillot (2010 b) the *Hedera* L. genus.

Similarly, regarding the cultivated ornamental flora, works have been published that analyse data contributed by historical Spanish botanical works, for example, by Cavanilles (Guillot and Meer, 2002; 2003 i; 2004 d), Teixidor (Guillot and Meer, 2003 f) or Balmis (2003 h), and numerous articles and monographs where cultivars are mentioned, including those by Guillot and Rosselló (2003) on the *Berberis thunbergii* DC. species, by Guillot (2003 b), the *Hedera* genus, the Agavaceae family, the *Agave* L. genus (Guillot and Meer, 2004 b; 2005 b, f; 2006 b, d; 2009 to, b), *Hesperaloe* Engelm (Guillot and

Meer, 2005 d), *Polianthes* L. (Guillot et al., 2006 a) and *Yucca* L. (2008 c) genus, by Guillot (2004 a), the *Lantana* L. genus, by Guillot (2004 b), the *Hibiscus rosa-sinensis* L. species, the *Caprifoliaceae* family (Guillot and Meer, 2006 a), the *Abies pinsapo* Boiss species (Guillot, 2006 b), the *Kalanchoe* genus (2006 b), the *Lavandula* genus (Guillot et al., 2006 b), the *Phoenix* L. genus (Dana et al., 2008), the *Dracaena* Vand. ex L. genus (Guillot and Meer, 2008a), the *Pelargonium* L'Hér. ex Aiton genus (Guillot, 2008 a), the *Calceolaria* L. genus (Guillot, 2008 b), the *Poaceae* family (Guillot and Rosselló, 2008), the *Anthurium* Schott genus (Guillot, 2008 e), the *Gazania* Gaertn. genus (Guillot, 2008 f), the *Osteospermum* genus (Guillot, 2008 i), the *Opuntia* Mill. genus (Guillot et al., 2008 h), along with the works of a general character (Guillot, 2009). The work of Guillot et al. (2008 f) entitled "Keys to the ornamental flora of the Province of Valencia" is notable, based not only in the bibliographic compilation of cultivars, but also on a broad field work classification of all species and cultivars cultivated in the city centres of municipalities of the Community of Valencia, with this work serving as the partial results for this Spanish province. As the ultimate aim of these works, we pose the need to create a database of cultivars present in Spain, cultivated and/or commercialized, or present in our alien flora, that in the future will be accessible to the general public (according to our initial estimates, it would exceed 10,000 cultivars), and that would include both cultivars cultivated as ornamental and agricultural varieties.

The importance of this work resides in the fact that it is the first classification system and creation of a database of plant varieties cultivated in Spain.

Numerous data is found regarding cultivated plant varieties in historical botanical works in Spain, for example, in the Muslim period numerous cultivars are mentioned in the medieval "Book of Agriculture" (Zaccaria, 1802), or in the sixteenth century, by Herrera (1970), an ecclesiastic and agronomist, in his "Book of Agriculture", published for the first time in 1513. We find images that represent cultivars in "The Codex" by Jaume Honorat Pomar, from the sixteenth century, that shows numerous exotic plant engravings from new world species as well as those from the old world, where we can observe cultivars including the *Tulipa* L. genus (Guillot and Meer, 2003 g). This work has recently been published for the first time (López, 2000). We find works in the nineteenth century of a certain transcendence from a horticultural point of view, such as the "Treaty of the flowers" in which the method is explained to cultivate those that serve as adornment of the gardens, by Boutelou and Boutelou (1804), the "Test on the varieties of the common Grapevine" by Clemente (1807), or the "Descriptive Botany Handbook" by Cutanda and Amo (1848) that is the true gem for the current analysis and study of Spanish cultivated flora.

In the twentieth century, the book by Dantín (1920) must be emphasized as an example of significant compiled works on cultivated plants and varieties in

Spain, along with the book by Pañella (1970) during the second half of the twentieth century, that present a list of plants and cultivars cultivated in this geographic area and by Sánchez et al. (2000 - 2009), with five published volumes of the work entitled "Spanish Ornamental Flora", which is the most significant work published to date dedicated to the study and classification of cultivated ornamental plants in Spain. Along with these more general compiled works, Mr. José Manuel Sánchez has published numerous articles in technical magazines dedicated to the world of horticulture, such as *Tecniflor*, *Horticulture*, or *Parjap*, concentrating on the study of genus, plant families or specific groups, along with numerous books and publications dedicated to the study of ornamental flora on a local level (Sánchez et al., 1993; Robledo et al., 1997). These works have represented a significant point of reference for our studies.

The work entitled "Flora Ibérica" is also worth mentioning, with fifteen published volumes. This work is dedicated to the study of the indigenous flora of the Iberian Peninsula and Balearic Islands, and it also includes numerous ornamental-origin genus that are part of the alien flora of this geographical area. In the study of Spanish cultivated flora, we also emphasise the work of Dr. Emilio Laguna Lumbreras, who has published research on significant genus from the ornamental point of view in Spain, such as *Hedera*, *Pinus* L. and *Plectranthus* L'Hér. (2000a), Lablab Adans. (2001), *Vitis* L. (2003), *Capsicum* L., *Jasminum* L., *Campsis* Lour and *Citrus* L. (1997), among others, or concentrating on certain geographical areas such as the Iberian System (2000 b).

MATERIALS AND METHODS

Information has been taken from several sources for the elaboration of this work:

- i) Regarding cultivars, previous bibliographic works, many articles and books published by the authors of this present work, as well as other works concentrating on the study and classification of certain genus included in this database.
- ii) Regarding genus and species, several botanical and horticultural works.
- iii.) Field work in several areas of the Spanish peninsular geography and Balearic Islands.
- iv.) Nursery catalogue compilations (Spanish and foreigners that market their products in Spain). From more than 1000 catalogues, book format nursery catalogues have been selected that contain cultivars produced, marketed and registered for these companies and if possible that contain descriptions of the series to which the cultivars belong (frequently registered series), and iconography of the cultivars (photographs).
- v.) Punctual enquiries from herbarium information sheets corresponding to various genus of the alien ornamental Spanish flora, mostly from the *Agavaceae*, *Aloaceae*, *Asclepidaceae*, *Cactaceae*, *Compositae*, *Aizoaceae*, *Crassulaceae*, *Labiatae* (genus *Lavandula*), *Nyctaginaceae* (genus *Mirabilis* L.), *Portulacaceae* and *Valerianaceae* (genus *Centranthus*) families, that have allowed us to detect the presence of numerous horticultural forms in the Spanish alien flora. The VAL, SANT, MAF, ABH, and MA herbariums have been consulted in specific occasions.
- vi.) Visits to collections specialising in certain families, mostly of

succulent plants. Based on these sources, we have selected and developed a portion of the information found to create a working base that can be expanded in the future. The database is structured by families that include genus, with a description and chorology for each, and within each one, species, synonyms, chorology and description have been indicated. Also, for each cultivar, the etymology, synonymy, iconography, description (taken of some bibliographic source) and history have been indicated. Information on series of cultivars taken from catalogues of consulted nurseries has also frequently been included.

RESULTS

2.124 cultivars (Appendix 1), cultivated and/or commercialized in Spain, corresponding to forty-four families, have been included. The "European Garden Flora" (Walters et al., 1986 - 2000), and the "Handbook of Cultivated Broad-leaved trees and Shrubs" by Krüssmann (1984 - 1986), have been used as the basic reference materials for genus and species, and the "Vascular Flora of Western Andalusia" (Valdés et al., 1987) and "Flora Europaea" (Tutin et al., 1964 - 1980) have also been used for specific cases. Regarding gymnosperms, the "Manual of Cultivated Conifers", by Krüssmann (1985), has been used and for specific consultations on certain genus, other works have been used. The main plant catalogues from where the information has been extracted correspond to Aurora Varieties S. L., from 2006, Boyard, Bertrand and Kientzler, from 2008, "Gamme Jeunes Plants, Collection Printemps '08", from S and G Flowers from 2005 and Fidelity Geranium by S and G Flowers from 2008, from Nurseries Grup Roig, from 2004

- 2005, from Fischer from 2007, entitled Fischer® 2007, Pelargonium, Impatiens Flowerbed and Balcony, from Nurseries Boyard from 2005, Nurseries Terra Nigra BV from 2006, from Jungpflanzen Grünwald from the 2003 - 2004 period, Giardino Toscani from 2006, Sakata Seeds Iberica S. L. from 2005 and from Torsanlorenzo, from 2007 and 2008. For cultivars, the information has been obtained from the following sources by families:

1. Aceraceae, represented by the *Acer* L. genus, has mostly followed Krüssmann's book (1984 - 1986), extracting the information on cultivars commercialized/cultivated in Spain mostly from catalogues from Torsanlorenzo from 2007 and 2008, and the previous work of Guillot et al. (2008 f). Twenty nine cultivars have been included.
2. Actinidiaceae, represented by the *Actinidia* Lindl. genus, including a cultivar mentioned by Guillot et al. (2008 f).
3. Agavaceae, represented by the *Beschorneria* Kunth, *Furcraea* Vent. and *Phormium* Forster and Forster genus.

In the case of *Beschorneria* and *Furcraea*, cultivars from the Agavaceae collection of Piet Van der Meer have been included. Jacquemin (2000 - 2001) and Irish and Irish (2000) were most frequently used for consultations. In the case of the *Furcraea* genus, Thiede (in Eggli, 2001) has

been followed for species, and Jacobsen (1954) and Graf (1963) for cultivars. In the case of the genus *Phormium*, Walters et al. (1986-2000) have been followed. Twenty one cultivars have been included.

4. Aizoaceae, *Aptenia* N. E. Br., *Carpobrotus* N. E. Br. and *Delosperma* N. E. Brown genus. In the case of first two genus, data have been obtained from Guillot et al. (2008 b). From a taxonomic perspective, Jacobsen (1954) and Hartmann (2001) have been consulted for species. In the case of the taxa called *Carpobrotus acinaciformis* 'Affinis acinaciformis', the criterion of Moragues and Rita (2005) has been followed. In the case of the *Delosperma* genus, the cultivars have been taken from the Boyard Bertrand Kientzler Catalogue from 2008. Eleven cultivars have been included.

5. Amaranthaceae, represented by the *Celosia* L. and *Iresine* P. Browne genus, have been taken from Guillot et al. (2008 f). Three cultivars have been included.

6. Asclepidaceae, represented by the *Asclepias* L. genus. In the case of the cited cultivar, it has been observed in cultivation and away from cultivation in the Community of Valencia, and we found numerous sheets of this cultivar in the VAL herbarium.

7. Balsaminaceae, represented by the *Impatiens* L. genus. Data of cultivars and series of cultivars have been taken from S and G Flowers catalogues from 2005 and catalogues from Boyard, Bertrand and Kientzler from 2008. This is one of the more numerous families, with one hundred and seventy six cultivars.

8. Begoniaceae, represented by the *Begonia* L. genus. Data of cultivars has been taken from S and G Flowers catalogues from 2005 and Boyard, Bertrand and Kientzler catalogues from 2008. It has 148 cultivars.

9. Buddlejaceae, represented by the *Buddleja* L. genus, has mostly followed Krüssmann (1984 - 1986), Stuart (2006) and Kopp et al. (2009) for species and cultivars. The list of cultivars has been obtained from Guillot et al. (2008 f). Eleven cultivars have been included.

10. Cactaceae, represented by the *Austrocylindropuntia* Backeb., *Cereus* Mill., *Cylindropuntia* (Engelmann) F. M. Knuth, *Mammillaria* Haw. and *Tephrocactus* Lem. genus. The listing has been taken from the work of Guillot et al. (2008 c). The most significant bibliographic sources were Britton and Rose (1919) and Anderson (2001). In total, seven cultivars have been included.

11. Calceolariaceae, *Calceolaria* L. genus. Authors such as Erwin (1994) or Kopp (2006) have been consulted. One cultivar has been included.

12. *Caprifoliaceae*, represented by the *Abelia* R. Br. genus. We have based our information on Krüssmann (1984 - 1986) and Hatch (1999 - 2005), and have included cultivars mentioned in the previous works by Guillot and Meer (2006 a) and Guillot et al. (2008 f). Five cultivars have been included.

13. *Commelinaceae*, *Tradescantia* L. genus, has mostly followed Hunt (in Eggli, 2001) for species, and the list of cultivars has been obtained from the observation of

cultivars cultivated in gardens and commercialized in Spanish nurseries, distributed by Decorum Plants (2008). Graf (1986) has also been consulted. In total, fourteen cultivars have been included.

14. Compositae, with *Bellis* L., *Tanacetum* L. and *Callistephus* Cass. genus. For cultivars, the list and the information have been taken from the S and G Flowers catalogue from 2005. In the case of the *Chrysanthemum* L. genus, Aurora's Varieties catalogue of 2006 has been used, in the case of *Gerbera* L., the catalogues from Nurseries Terra Nigra B. V. from 2006 and S and G Flowers from 2005 have been used, in the case of *Osteospermum* L., the catalogue of Boyard, Bertrand and Kientzler from 2008 has been used. In total, three hundred and fifty six cultivars have been included. This is the most numerous family.

15. Crassulaceae, represented by the *Aeonium* Webb. and Berth., *Crassula* L., *Hylotelephium* H. Ohba and *Sedum* L. genus. We have based our information on the previous work of Guillot and Meer (2008 d), that refer to Burel et al. (1889), Jacobsen (1954), Eggli (2003), Graf (1963; 1986), Stephenson (2002) and Lord (2006) as their most important bibliographic sources. Eleven cultivars have been included.

16. Cruciferae, genus *Brassica* L. and *Erysimum* L. Cultivars have been taken of the catalogue of S and G Flowers of 2005. They have been included twelve cultivars.

17. Cupressaceae, cultivars mentioned in the work of Guillot et al. (2008 f) have been included. In the case of *Calocedrus* Kurz, *Chamaecyparis* Spach, *Juniperus* L. and *x Cupressocyparis* Dallimore, Krüssmann (1985) has been consulted for the treatment of cultivars, while for *Cupressus* L. and *Thuja* L. this same author has been consulted and cultivars of catalogues from Torsanlorenzo of 2007 and 2008 have been included. Thirty nine cultivars have been included.

18. Euphorbiaceae, *Acalypha* L. and *Ricinus* L. genus. The cultivars and the information have been obtained from the catalogue of Boyard, Bertrand and Kientzler from 2008 for *Acalypha* L. and by direct observation of cultivated plants in gardens for *Ricinus* L. Two cultivars have been included.

19. Geraniaceae, *Pelargonium* L'Hér genus. The cultivars shown are cited in the Nurseries Grup Roig catalogue from 2004 - 2005, in the S and G Flowers catalogue from 2005 and 2008, in the Nurseries Boyard catalogue from 2005 and in the Fischer catalogue from 2007, and from previous work by Guillot (2008a). 250 cultivars have been included.

20. Hamamelidaceae, represented by the *Hamamelis* L., *Loropetalum* R. B. and *Liquidambar* L. genus. For the *Hamamelis* genus, Krüssmann (1984 - 1986) has been followed, for the *Liquidambar* genus, Breen (1999-2006), Junker (2005) and The Royal horticultural Society (2005) have been followed, and for the *Loropetalum* genus, Guillot et al. (2008 f) has been followed. Sixteen cultivars

have been included.

21. Hippocastanaceae, *Aesculus* L. genus. Krüssmann (1984 - 1986) has been consulted. Three cultivars have been included.

22. Iridaceae, *Iris* L. genus. Cultivars are commercialized by Giardino Toscani, from its catalogue from 2006. 26 cultivars have been included.

23. Labiatae, *Lavandula* and *Ocimum* L. genus. For the *Lavandula* genus, cultivars are commercialized by Boyard, Bertrand and Kientzler, in its catalogue from 2008. Cultivars observed under cultivation in gardens have also been mentioned. Upson and Andrews (2004) has been consulted. For the *Ocimum* genus, cultivars cited by Guillot et al. (2008 f) have been included. In total, ten cultivars have been included.

24. Leguminosae. For the *Albizia* Durazz. genus, Krüssmann (1984 - 1986) has been followed. The cited cultivars have been observed in gardens. Regarding the *Cercis* L., *Genista* L., *Gleditsia* L., and *Robinia* L. genus, Krüssmann (1884-1986) has also been followed, mentioning cultivars cited previously by Guillot et al. (2008 f), except for *Robinia x holdtii* Beissn that have recently been observed as cultivations. In total, twenty two cultivars have been included.

25. Liliaceae, *Chlorophytum* Ker Gawler genus. The list of cultivars has been partially taken from Guillot et al. (2008 f), and some observed in commercialized nurseries have been included, taking the information from flower council Holland (2008), Foremost Co. (2008) and Hatch (2001 - 2008). Five cultivars have been included.

26. Nyctaginaceae, *Mirabilis* L. genus. Cultivars have been observed out of cultivation.

27. Oleaceae, *Olea* L. genus. The information has been taken from Iñiguez et al. (2001). Twenty one cultivars have been included.

28. Onagraceae, *Fuchsia* L. genus. 61 cultivars have been included from the catalogue of Boyard, Bertrand and Kientzler from 2008.

29. Oxalidaceae, *Oxalis* L. genus. 5 cultivars mentioned in the catalogues from Jungpflanzen Grünwald from 2003 - 2004 and Boyard, Bertrand and Kientzler from 2008 have been included.

30. Paoniaceae, *Paeonia* L. genus. Cultivars present in the catalogue of Giardino Toscani from 2006 have been included, and some mentioned by Guillot et al. (2008 f). 26 cultivates have been included.

31. Pinaceae, for the *Abies* Mill. genus, Krüssmann (1985) and Guillot (2006 b) have been consulted. The list of cultivars has been obtained from Guillot et al. (2008 f) and from observations in gardens. Nine cultivars have been included.

32. Plumbaginaceae, *Plumbago* L. genus. Three cultivars have been included that are present in the Jungpflanzen Grünwald catalogue from 2003 - 2004, and some were cited previously by Guillot et al. (2008 f).

33. Portulacariaceae, of the *Portulaca* L. and the *Portulacaria* Jacq. genus. *Portulaca* L. cultivars observed

in the catalogues from Boyard, Bertrand and Kientzler from 2008 and Jungpflanzen Grünewald from 2003-2004 have been included along with one previously cited by Guillot et al. (2008 f), and for the *Portulacaria* Jacq.

genus, one cultivar is included that was previously cited by Guillot et al. (2008 f). 17 cultivars have been included total.

34. Primulaceae, *Primula* L. genus. Cultivars present in the Sakata Seeds Iberica S.L. Catalogue from 2005 have been cited. Thirty eight cultivars have been included.

35. Rosaceae. For the *Cotoneaster* Medicus, *Crataegus* L. and *Chaenomeles* Lindley genus, cultivars cited by for Guillot et al. (2008 f) have been included, and Krüssmann (1984-1986) has been consulted, whereas for the *Rosa* L. genus, cultivars cited by Guillot et al. (2008 f) have been included. Fifty three cultivars have been included.

36. Scrophulariaceae. For the *Antirrhinum* L. genus, cultivars from S and G Flowers catalogue (2005) have been included, and for the *Nemeses* Vent. genus, cultivars from the Boyard, Bertrand and Kientzler catalogue from 2008 have been included. 46 cultivars have been cited.

37. Solanaceae, represented by the *Petunia* Juss genus. Cultivars cited in the S and G Flowers catalogue from 2005, and the Boyard, Bertrand and Kientzler catalogue from 2008 and Sakata Seeds Ibérica catalogue from 2005. In total, one hundred and forty five cultivars are included.

38. Sterculiaceae, *Fremontodendron* Coville genus. One cultivar cited by Guillot et al. (2008 f) has been included.

39. Taxaceae, *Cephalotaxus* Siebold and Zucc. genus. Krüssmann (1985) has been followed and two cultivars cited by Guillot et al. (2008 f) have been included.

40. Taxodiaceae, *Cryptomeria* D. Don. genus. Three cultivars previously cited by Guillot et al. (2008 f) have been included.

41. Theaceae, *Camellia* L. genus. Cultivars cited by Cunqueiro et al. (2001) and Salinero and Vela (2004) have been included. Three hundred and twenty one cultivars have been cited.

42. Valerianaceae, *Centranthus* genus. 3 cultivars previously cited by Guillot et al. (2008 f) have been included.

43. Verbenaceae, *Lantana* L. genus. 12 cultivars have been included from Boyard, Bertrand and Kientzler catalogue from 2008, some previously cited by Guillot et al. (2008 f).

44. Violaceae, *Viola* L. genus. 146 cultivars cited in the S and G Flowers catalogue from 2005 have been included.

DISCUSSION

This work is the largest study carried out in Spain regarding the varieties of cultivated plants, although there are numerous existing projects financed by the public administration destined to the recovery of horticultural forms, as well as important public and private collections. The creation of an extensive database that eventually would group all of the families and genus of cultivated plants in Spain had never been considered, especially on that was

available to the general public. The results of this research work provide an extensive database with great amounts of information that had never before been catalogued and structured from a scientific perspective.

The compilation of important information included in commercial plant and seed catalogues in our country has been notable.

Concerning other similar initiatives in other countries, with access to the general public, primarily in the Internet, it must be pointed out that this database collects not only cultivars, but also the relative information of the series of cultivars present in the catalogues.

The creation of this database together with the herbarium may become important in the future from various perspectives:

i.) Legally, it would be an important source of information when dealing with future conflicts to obtain and commercialise a certain cultivar.

ii.) It could serve as a base for future studies destined to the preservation of the autochthonous varieties of cultivated plants (creation of collections).

iii.) It could serve as the base information to create future germoplasma banks of families, genus or specific species. It could be used as a research base for ornamental flora at a local level.

iv.) It could be a basic instrument to study cultivars and hybrids present in the autochthonous flora of the Iberian Peninsula and the Balearic Islands, keeping in mind especially those that present an invasive character.

v.) Fundamentally, it would be a measure destined to conserve an important part of our biological, historical and cultural heritage. The need to protect flora that was once cultivated is demonstrated by authors like Laguna et al. (1998).

APPENDIX 1

Aceraceae

Acer L

Acer cappadocicum Gleidtsch: 'Rubrum'; *Acer japonicum* Thunb.: 'Aconitifolium', 'Vitifolium'; *Acer negundo* L.: 'Argenteovariegatum', 'Aureovariegatum', 'Flamingo'; *Acer palmatum* Thunb.: 'Atropurpureum', 'Bloodgood', 'Dissectum Atropurpureum', 'Dissectum Garnet', 'Dissectum Palmatifidum', 'Dissectum Seiryu', 'Dissectum Stella Rosa', 'Dissectum Tamukeyama', 'Dissectum viridis', 'Red Pygmy', 'Shaina', 'Shindeshojo', 'Skeeters Broom', var. *heptalobum* 'Osakazuki'; *Acer platanoides* L.: 'Crimson King', 'Crimson Sentry', 'Drummondii', 'Faassens Black', 'Globosum', 'Schwedleri' *Acer pseudoplatanus* L.: 'Atropurpureum', 'Negenia Rotterdam'.

Actinidiaceae

Actinidia Lindl.

Actinidia arguta Miq.: 'Hayward'

Agavaceae

Beschorneria Kunth

Beschorneria yuccoides K. Koch: 'Quick Silver'

Cultivars: 'Hidalgo', 'Queretaro Coll Delight',

Beschorneria septentrionalis x *dekosteriana*

Furcraea Ventenat

Furcraea foetida (L.) Haw.: 'Mediopicta'

Furcraea selloa C. Koch: var. *marginata* Trel.

Phormium Forster and Forster

Phormium cookianum Le Jolis subsp. *hookeri* (Gunn ex Hook. f.) P. Wardle: 'Cream Delight', 'Tricolor'

Phormium tenax J. R. Forst and G. Forst: 'Bronze Baby',

'Coordination', 'Radiance'

Other cultivars: 'Evening Glow', 'Jack Sprot', 'Jester',

'Maori Maiden', 'Rainbow Maiden', 'Rainbow Queen',

'Sundowner', 'Surfer', 'Thumbelina', 'Yellow Wave'

Aizoaceae

Aptenia N. E. Br.

Aptenia cordifolia Schw.: 'Variegata'

Aptenia lancifolia L. Bolus: 'Purple'

Other cultivar: 'Red Apple'

Carpobrotus N. E. Br.

Carpobrotus acinaciformis (L.) L. Bolus: 'Affinis acinaciformis'

Delosperma N. E. Brown

Delosperma 'Blanc'; 'Jaune', 'Mauve', 'Orange', 'Rose clair', 'Rose Vif', 'Rouge'

Amaranthaceae

Celosia L.

Celosia argentea L.: 'New Look', 'Yellow'

Iresine P. Browne

Iresine herbstii Hook.: 'Purple lady'

Asclepidaceae

Asclepias L.

Asclepias curassavica L.: 'Red Butterfly'

Balsaminaceae

Impatiens L.

Impatiens hawkeri Bull.: *New Guinea* Kokomo Bicolor Rose 'Ingbicrewi', *New Guinea* Kokomo L Orange 'Ingborg', *New Guinea* Kokomo L Red 'Ingscartwo', *New*

Guinea Kokomo L Violet 'Ingviol', *New Guinea* Kokomo L White 'Ingbwit', *New Guinea* Kokomo Petit Orange 'Ingmulora', *New Guinea* Kokomo Petit Rose 'Ingmulros', *New Guinea* Kokomo Petit Salmon 'Ingmulsal', *New Guinea* Kokomo Petit scarlet 'Ingmulscá', *New Guinea* Kokomo Petit velvet Red 'Ingmulvere', *New Guinea* Kokomo Petit White 'Ingmulwhi', *New Guinea* Kokomo XL Bicolor Salmon White 'Ingbicsawi', *New Guinea* Kokomo XL Lilac 'Ingllila', *New Guinea* Kokomo XL Magenta 'Ingmage', *New Guinea* Kokomo XL Orchid 'Ingorch', *New Guinea* Kokomo XL Pink Blush 'Ingpi blu', *New Guinea* Kokomo XL Red 'Ingscar', *New Guinea* Kokomo XL Silver White 'Ingwhit', *New Guinea* Kokomo XL White with Eye 'Ingwweye', *New Guinea* Painted Paradise 'Orange red', *New Guinea* Painted Paradise 'Red', *New Guinea* Painted Paradise 'White', *New Guinea* Painted Paradise 'Wine', *New Guinea* Paradise 'Amoya', *New Guinea* Paradise 'Araya', *New Guinea* Paradise 'Arima', *New Guinea* Paradise 'Aruba', *New Guinea* Paradise 'Bahia', *New Guinea* Paradise 'Barbuda', *New Guinea* Paradise 'Belize', *New Guinea* Paradise 'Betio', *New Guinea* Paradise 'Bonaire amél', *New Guinea* Paradise 'Cabuya', *New Guinea* Paradise 'Coiba', *New Guinea* Paradise 'Dark betio', *New Guinea* Paradise 'Dark Pink Delias', *New Guinea* Paradise 'Délias amél', *New Guinea* Paradise 'Grenada', *New Guinea* Paradise 'Guadeloupe', *New Guinea* Paradise 'Juanita', *New Guinea* Paradise 'Kiamba', *New Guinea* Paradise 'Logia', *New Guinea* Paradise 'Malita', *New Guinea* Paradise 'Manado', *New Guinea* Paradise 'Martinique', *New Guinea* Paradise 'Misool', *New Guinea* Paradise 'Moorea', *New Guinea* Paradise 'Moyo', *New Guinea* Paradise 'Neptis', *New Guinea* Paradise 'Orange Neptis', *New Guinea* Paradise 'Orchilia', *New Guinea*

Paradise 'Orona', *New Guinea* Paradise 'Papara', *New Guinea* Paradise 'Pappeete', *New Guinea* Paradise 'Parita', *New Guinea* Paradise 'Pascua', *New Guinea* Paradise 'Prépona', *New Guinea* Paradise 'Samoa amelioration', *New Guinea* Paradise 'Samola lavender amelioration', *New Guinea* Paradise 'Siparia', *New Guinea* Paradise 'Sumba amelioration', *New Guinea* Paradise 'Tagula', *New Guinea* Paradise 'Tamana', *New Guinea* Paradise 'Tambor Amél', *New Guinea* Paradise 'Tarawa', *New Guinea* Paradise 'Timor', *New Guinea* Paradise 'Toga', *New Guinea* Paradise 'Toméa', *New Guinea* Paradise 'Tomini', *New Guinea* Paradise 'Totoya', *New Guinea* Paradise 'Woya', *New Guinea* Paradise 'Xanthia', *New Guinea* Paradise 'Yoco'.

Other cultivars: Florette F 'Pink star', Florette F 'Red star', Florette F 'Rose Star', Florette F 'Star Formula Mix', Florette F 'Violet star', double Musica 'Bicolor Crimson', Double Musica 'Bicolor Pink', Double Musica 'Cherry Red', Double Musica 'Orange Glow', Double Musica 'Orange Spirit', Double Musica 'Pink Aroma', Double Musica 'Pink Energy', Double Musica 'Ruby Red', Double Musica 'Salmon', Double Musica 'Spicy Orange', Double Musica 'Spicy Red', Double Musica

‘White Blush’, Sunpatiens ‘Blanc’, Sunpatiens ‘Lavande’, Sunpatiens ‘Magenta’, Sunpatiens ‘Orange’, Sunpatiens ‘Rouge’, Sunpatiens ‘Variegated’.

Impatiens walleriana Hook f.: Blitz F ‘Deep Orange’, Blitz F ‘Formula Mix’, Blitz F ‘Pink’, Blitz F ‘Red’, Blitz F ‘Rose Star’, Blitz F ‘Rose’, Blitz F ‘Salmón’, Blitz F ‘Violet’, Blitz F ‘White’, Cajun F ‘Blue Bayou Mix’, Cajun F ‘Carmine’, Cajun F ‘Cranberry’, Cajun F ‘Deep Pink Improved’, Cajun F ‘Jambalaya Mix’, Cajun F ‘Lavender Blue’, Cajun F ‘Lilac’, Cajun F ‘Orange’, Cajun F ‘Pastel Mix’, Cajun F ‘Pink Improved’, Cajun F ‘Red’, Cajun F ‘Rose’, Cajun F ‘Salmon’, Cajun

F ‘Uni Mix’, Cajun F ‘Violet’, Cajun F ‘Watermelon’, Cajun F ‘White’, Carnival F ‘Melange’, Fanciful F ‘Melange’, Impuls F ‘Bright Eye’, Impuls F ‘Bronze Pink’, Impuls F ‘Carmine’, Impuls F ‘Cool Water Mix’, Impuls F ‘Coral Reef Mix’, Impuls F ‘Coral’, Impuls F ‘Cranberry’, Impuls F ‘Deep Rose’, Impuls F ‘Formula Mix’, Impuls F ‘Lilac Blue’, Impuls F ‘Lilac’, Impuls F ‘Orange Bicolour’, Impuls F ‘Orange’, Impuls F ‘Pink Picotee’, Impuls F ‘Pink’, Impuls F ‘Red’, Impuls F ‘Salmon’, Impuls F ‘Scarlet’, Impuls F ‘White’, Midinette F ‘Abricot’, Midinette F ‘Blanc Pur’, Midinette F ‘Bourgogne’, Midinette F ‘Cramoisie’, Midinette F ‘Ecarlate’, Midinette F ‘Framboise’, Midinette F ‘Lavande’, Midinette F ‘Lilas’, Midinette F ‘Melange Etoile’, Midinette F ‘Melange Extra’, Midinette F ‘Melange Pastel’, Midinette F ‘Melange Select’, Midinette F ‘Orange Etoile Blanc’, Midinette F ‘Orange Vif’, Midinette F ‘Papillon Tutti Frutti’, Midinette F ‘Picotee Abricot’, Midinette F ‘Picotee Rose’, Midinette F ‘Rose Clair’, Midinette F ‘Rose Etoile Blanc’, Midinette F ‘Rose Nacre a Oeil Rose Fonce’, Midinette F ‘Rose Vif’, Midinette F ‘Rouge Etoile Blanc’, Midinette F ‘Rouge’, Midinette F ‘Saumon Corail’, Midinette F ‘Saumon’, Midinette F ‘Violet Pourpre’, Mosaic F ‘Melange’, Stardust F ‘Melange’, Twinny F ‘Coral’, Twinny F ‘Red’, Twinny F ‘Rose’, Twinny F ‘Salmon’, Vero F ‘Red Star’

Begoniaceae

Begonia semperflorens Link and Otto: Ambassador F ‘Blanc Lisere Rose’, Ambassador F ‘Blanc’, Ambassador F ‘Rose Corail’, Ambassador F ‘Rose’, Ambassador F ‘Rouge’, Ascot F ‘Bicolour’, Ascot F ‘Bright Scarlet’, Ascot F ‘Bronze Leaved Mix’, Ascot F ‘Bronze Pink’, Ascot F ‘Bronze Rose’, Ascot F ‘Bronze scarlet’, Ascot F ‘Bronze White’, Ascot F ‘Complete Mix’, Ascot F ‘Deep Rose’, Ascot F ‘Green Leaved Mix’, Ascot F ‘Pink’, Ascot F ‘Rose’, Ascot F ‘Scarlet’, Ascot F ‘White’, double ‘Cherry Blossom’, double ‘Lady Francis’, Dragon Wing F ‘Rose’, Dragon Wing F ‘Rouge’, Emperor F ‘Blanc’, Emperor F ‘Rose’, Emperor F ‘Rouge’, Eureka Bronze F ‘Bicolour’, Eureka Bronze F ‘Leaved Mix’, Eureka Bronze F ‘Pink’, Eureka Bronze F ‘Rose’, Eureka Bronze F ‘Scarlet’, Eureka Bronze F ‘White’, Eureka F ‘Bicolour’, Eureka F ‘Complete Mix’, Eureka F ‘Deep

Rose’, Eureka F ‘Pink’, Eureka F ‘Rose’, Eureka F ‘Scarlet’, Eureka F ‘White’, Lotto F ‘Blanc’, Lotto F ‘Ecarlate’, Lotto F ‘Pink’, Lotto F ‘Rose’, Lotto F ‘Scarlet’, Lotto F ‘White’, Party F ‘Boy’, Party F ‘Dress’, Party F ‘Flirt’, Party F ‘Friend’, Party F ‘Fun’, Party F ‘Girl’, Party F ‘Love’, President F ‘melange’, Queen F ‘Rose Clair’, Queen F ‘Rouge’, Scarlanda F ‘Rouge’, Senator F ‘Blanc’, Senator F ‘Ecarlate’, Senator F ‘Rose’, Super Olympia F ‘Blanc’, Super Olympia F ‘Rose Vif’, Super Olympia F ‘Rouge’ *Begonia x tuberhybrida* Voss.: Pin-Up F ‘Flamed’, Pin-Up F ‘Pink’, Swift F ‘Mix’, Swift F ‘Orange’, Swift F ‘Salmon Bicolour’, Swift F ‘Red’, Swift F ‘White’, Swift F ‘Yellow’, Tenella F ‘Mix’, Tenella F ‘Pink’, Tenella F ‘Rose’, Tenella F ‘Salmon Orange’, Tenella F ‘Scarlet’, Tenella F ‘White’, Braveheart F ‘Berosé’, Fortune F ‘Melange’, Illumination

F ‘Apricot’, Illumination F ‘Ecarlate’, Illumination F ‘Melange’, Illumination F ‘Orange’, Illumination F ‘Rose’, Illumination F ‘Saumon’, Illumination F ‘White’, Nonstop F ‘Abricot’, Nonstop F ‘Appleblossom’, Nonstop F ‘Apricot’, Nonstop F ‘Blanc’, Nonstop F ‘Ecarlate’, Nonstop F ‘Fleur Pommier’, Nonstop F ‘Formula mix’, Nonstop F ‘Golden Orange’, Nonstop F ‘Jaune’, Nonstop F ‘Light Rose’, Nonstop F ‘Melange’, Nonstop F ‘Orange Dore’, Nonstop F ‘Orange’, Nonstop F ‘Petitcoat’, Nonstop F ‘Petticoat Pink’, Nonstop F ‘Red’, Nonstop F ‘Rose Clair’, Nonstop F ‘Rose’, Nonstop F ‘Rouge Feu’, Nonstop F ‘Salmon’, Nonstop F ‘Scarlet’, Nonstop F ‘White’, Nonstop F ‘Yellow’, Nonstop F + Nonstop Mocca F ‘Melange’, Nonstop Mocca F ‘Deep Orange’, Nonstop Mocca F ‘Melange’, Nonstop Mocca F ‘Orange’, Nonstop Mocca F ‘Scarlet’, Nonstop Mocca F ‘Tons Rose Clair’, Nonstop Mocca F ‘White’, Nonstop Mocca F ‘Yellow’, Ornament F ‘Ecarlate’, Ornament F ‘Jaune’, Ornament F ‘Orange’, Ornament F ‘Rose’, Panorama F ‘Blanc’, Panorama F ‘Ecarlate’, Panorama F ‘Jaune’, Panorama F ‘Rose’, Panorama F ‘Yellow’, Pin Up F ‘Rose’

Other hybrid forms: Belleconia ‘Apricot Blush’, Belleconia ‘Peach’, Belleconia ‘Rose’, Belleconia ‘Salmon’, Belleconia ‘White’, Charisma F ‘Pink’, Charisma F ‘Salmon Orange’, Charisma F ‘Scarlet Orange’, Doublet ‘Blanc’, Doublet ‘Hot Pink’, Doublet ‘Rose’, Doublet ‘Rouge’, Gumdrop ‘Cherry Blossom’, Gumdrop ‘Mandarine’, Gumdrop ‘Pink’, Gumdrop ‘Red’, Gumdrop ‘White’, hybride ‘Pretty Flamingo’, Summerwings ‘Orange’, Summerwings ‘Rose’, Summerwings ‘White’

Boraginaceae

Heliotropium L.

Heliotropium peruvianum L.: ‘Incense’, ‘Violet’

Buddlejaceae

Buddleja L.

Buddleja davidii Franch.: ‘Black Night’, ‘Empire Blue’,

‘Harlequin’, ‘Nanho Blue’, ‘Nanho Purple’, ‘Nanhoensis Alba’, ‘Opéra’, ‘Royal Red’, ‘White Profusion’ *Buddleja fallowiana* Balf. F. and W. W. Sm.: ‘Alba’ *Buddleja x weyeriana* Weyer

Cactaceae

Austrocylindropuntia Backeb.

Austrocylindropuntia cylindrica (A. L. Jussieu ex Lamarck) Backeberg: ‘Monstruosa’ *Austrocylindropuntia subulata* ‘Cresta’

Cereus Mill.

Cereus peruvianus (L.) Mill.: ‘Monstruosus’, *monstruosus minor* Salm- Dyck

Cylindropuntia (Engelmann) F. M. Knuth

Cylindropuntia rosea (DC.) Backeberg

Mammillaria Haw.

Mammillaria vetula Martius subsp. *gracilis* (Pfeiff.) D. R. Hunt: ‘Pulcella’

Tephrocactus Lem.

Tephrocactus articulatus (Pfeiff. and Otto) Backbg.: ‘Inermis’

Calceolariaceae

Calceolaria L.

Calceolaria x herbeohybrida Voss.: Clou F Mix’

Caprifoliaceae

Abelia R. Br.

Abelia x grandiflora (André) Rehd.: ‘Francis Mason’, ‘Prostrata’, ‘Snowdrift’

Other cultivars: ‘Edward Goucher’

Commelinaceae

Tradescantia L.

Tradescantia fluminensis Vellozo: ‘Albovittata’, ‘Argenteo-variegata’, ‘Aurea’, ‘Variegata’ *Tradescantia pallida* (Rose) D. R. Hunt: ‘Purpurea’ *Tradescantia zebrina* Heynhold: ‘Discolor’ ‘Little Hill’ ‘Purpusii’ ‘Quadricolor’

Other cultivars: ‘Dark Green’, ‘Green Hill’, ‘Pink’, ‘Tricolor Rose’, ‘Yellow Hill’

Compositae

Bellis L.

Bellis perennis L.: ‘Pomponette Red’, ‘Pomponette Rose’, ‘Pomponette White’, ‘Robella Samon Pink’, ‘Rominette Red’, ‘Rominette White’, ‘Ruby Red’, ‘Ruby Rose’, ‘Ruby White’, ‘Galaxy ‘Red’, ‘Galaxy ‘Rose’, ‘Galaxy ‘White’, ‘Habanera ‘Red’, ‘Habanera ‘Rose’, ‘Habanera ‘White’

Callistephus Cass.

Callistephus x sinensis Bergmans: ‘Arminius Formula Mix’, ‘Biedermeier Mix’, ‘Meridian Formula Mix’, ‘Super princess Mix’, ‘Amadeus ‘Blue’, ‘Amadeus ‘Blue-White’, ‘Amadeus ‘Copper Orange’, ‘Amadeus ‘Cream-Yellow’, ‘Amadeus ‘Deep Scarlet’, ‘Amadeus ‘Formula Mix’, ‘Aurelia ‘Bright Red’, ‘Aurelia ‘Deep Blue’, ‘Aurelia ‘Deep Rose’, ‘Aurelia ‘Formula Mix’, ‘Aurelia ‘Light Blue’, ‘Aurelia ‘Light Rose’, ‘Aurelia ‘White’, ‘Calisto ‘Blue’, ‘Calisto ‘Bright Red’, ‘Calisto ‘Carmine Rose’, ‘Calisto ‘Formula mix’, ‘Calisto ‘Rose’, ‘Calisto ‘White’, ‘Calisto ‘Yellow’, ‘Uni ‘Blue’, ‘Uni ‘Deep Rose’, ‘Uni ‘Lavender’, ‘Uni ‘Pink’, ‘Uni ‘Uni Mix’ ‘Uni ‘White’,

Chrysanthemum L.

Cultivars: ‘Ace’, ‘Aldea’, ‘Alert’, ‘Alesi’, ‘Alonso’, ‘Anaga’, ‘Arinaga’, ‘Arucas’, ‘Bandama’, ‘Besay’, ‘Canteras’, ‘Celebration’, ‘Chatora Cream’, ‘Chatora Spider White’, ‘Chatora Spider Yellow’, ‘Chatora White’, ‘Chatora Yellow’, ‘Cheers’, ‘Clarity’, ‘Coulthard’, ‘Culata’, ‘Desire’, ‘Famara’, ‘Fame’, ‘Fashion Bronze’, ‘Fashion Red’, ‘Fashion Yellow’, ‘Fataga Orange’, ‘Fataga’, ‘Fatagaa Dark red’, ‘Fargas’, ‘Floyd’, ‘Gáldar Goleen’, ‘Gáldar Salón’, ‘Gáldar’, ‘Grandeur Red’, ‘Grandeur White’, ‘Grandeur Yellow’, ‘Guanarteme’, ‘Heather’, ‘Iballa Bronze’, ‘Iballa Sunny’, ‘Iballa’, ‘Idaira’, ‘Ingenio’, ‘Intense’, ‘Jack’, ‘Joker’, ‘Kimi’, ‘Las Palmas’, ‘Lauda’, ‘Lover’, ‘Memories’, ‘Montoya’, ‘Nublo’, ‘Petit Purple’, ‘Rainbow’, ‘Rossi’, ‘Ruby’, ‘Salinas’, ‘Satin’, ‘Schumi’, ‘Senna’, ‘Spring’, ‘Sweetheart’, ‘Sweetie’, ‘Taliarte’, ‘Tasarte’, ‘Valsequillo’, ‘Vega’, ‘Webber’

Gerbera L.

Cultivars: ‘A Capella’, ‘Acapulco’, ‘Alcatraz’, ‘Aligator’, ‘Andes’, ‘Angie’, ‘Anisette’, ‘Antibes’, ‘Arc de Triumph’, ‘Artistique’, ‘Athina’, ‘Azteca’, ‘Bandola’, ‘Baracuda’, ‘Baron’, ‘Basic’, ‘Batavia’, ‘Belladonna’, ‘Big Ben’, ‘Blue Lagoon’, ‘Blue Moon’, ‘Blush’, ‘Bollie’, ‘Bonaparte’, ‘Boomerang’, ‘Bossanova’, ‘Brownny’, ‘Candy Elite’, ‘Capitool’, ‘Cariba’, ‘Cauca’, ‘Charming’ ‘Chilli Pepper’,

'Chiquita', 'Circuit', 'Claire', 'Climax', 'Columbus',
 'Conga', 'Corazon', 'Crossroad', 'Cumbia', 'Cyrano', 'Da
 Vinci', 'Dalita', 'Dazzling', 'Demarage', 'Diddle', 'Dino',
 'Domino', 'Dream', 'Duke', 'Duo', 'Dynamite', 'Elite',
 'Emperor', 'Escada', 'Esperanza', 'Evergreen',
 'Famous', 'Figaro', 'Fireball', 'Flipper', 'Floriade',
 'Friends', 'Fuji', 'Furore', 'Gambler', 'Goldfinger', 'Good
 Timing', 'Graffiti', 'Grizzly', 'Gucci', 'Hamlet', 'Happy
 Hour', 'Hearts', 'Hercules', 'High Five', 'Honneur',
 'Hotpants', 'Husky', 'Icedance', 'Igloo', 'Imagine',
 'Kokki', 'Lambada', 'Lamborghini', 'Laureen', 'Liberty',
 'Lilac Giant', 'Lorelei', 'Lynx', 'Mademoiselle',
 'Mannequin', 'Marjolijn', 'Marlies', 'Marshmellow', 'Mary
 Lou', 'Mascotte', 'Maya', 'Mephisto', 'Mermaid', 'Mette',
 'Milestone', 'Milonga', 'Muppy', 'Mythe', 'Napoli',
 'Niagara', 'Oase', 'Oneidn', 'Orange Dino', 'Orange
 Springs', 'Ostara', 'Ostris', 'Oxford', 'Pacific', 'Paintball',
 'Palazzo', 'Parrot', 'Pasodoble', 'Passion', 'Peloton',
 'Peppi', 'Phoebe', 'Pink Snow', 'Pinkpop', 'Pinky
 Springs', 'Pioneer', 'Pompadour', 'Premio', 'President',
 'Princeton', 'Proficiat', 'Prosit', 'Punch', 'Purple Springs',
 'Rage', 'Red Springs', 'Reflex', 'Renato', 'Rin Tin-Tin',
 'Ring of Fier', 'Rochade', 'Rock'n Roll', 'Rolls Royce',
 'Royal Springs', 'Rythm', 'Saldo', 'Salmon Giant',
 'Salmone', 'Saloon', 'Salsa', 'Sardana', 'Scala',
 'Scenario', 'Schnaps', 'Score', 'Selina', 'Silhouet',
 'Smash', 'Smokey', 'Snowlady', 'Solemio', 'South
 Pacific', 'Spadille', 'Sqauw', 'Stanford', 'Stone Age',
 'Strapless', 'Striptease', 'Sunray', 'Sunurst', 'Suzanne',
 'Sweety', 'Swizzle', 'Tamtam', 'Temptation', 'Terra
 Fame', 'Terra Gina', 'Terra Regina',
 'Torero', 'Torpedo', 'Triangle', 'Tucann', 'Twostep',
 'Violetta', 'Virginia', 'White Giant', 'White Grizzly',
 'Woodstock', 'Yuki', 'Zalmora', 'Zenith', 'Zeppelin',
 Jaguar F 'Formula Mix Improved', Jaguar F 'Rose Dark
 Centre', Jaguar F 'Deep Rose', Jaguar F 'Fire', Jaguar F
 'Lemon', Jaguar F 'Orange Picotee', Jaguar F 'Red',
 Jaguar F 'Rose Picotee', Jaguar F 'Salmon Pastels',
 Jaguar F 'Scarlet Dark Centre', Jaguar F 'Tangerine',
 Jaguar F 'White', Jaguar F 'Yellow Dark Centre', Jaguar
 F 'Yellow Improved', Jaguar Junior 'Formula Mix', Jaguar
 Junior 'Red', Jaguar Junior 'Salmon Shades', Jaguar
 Junior 'Yellow'.

***Osteospermum* L.**

Cultivars: Cape Daisy 'Arusha', Cape Daisy 'Dodoma',
 Cape Daisy 'Kalanga Lavender', Cape Daisy 'Kalanga
 Rosy', Cape Daisy 'Malindi', Cape Daisy 'Nasinga
 Crème', Cape Daisy 'Nasinga Pink', Cape Daisy 'Nasinga
 Purple', Cape Daisy 'Nuanza Copper Purple', Cape Daisy
 'Tambero', Cape Daisy 'Volta', Cape Daisy 'Warembó',
 Cape Daisy 'Zanzibar', Side Show 'Copper Apricot', Side
 Show 'Purple', Side Show 'White', Symphony 'Banana',
 Symphony 'Lemon', Symphony 'Mango', Symphony
 'Melon', Symphony 'Milk' Symphony 'Orange'.

***Tanacetum* L.**

Tanacetum parthenium (Willd.) Schultz Bip.: 'Coco',
 'Daisy', 'Goldball', 'Snow Crown', 'White Pompon (SG)'.

Crassulaceae

Aeonium Webb. and Berth.

Aeonium arboreum (L.) Webb. and Berth.:

'Atropurpureum', 'Zwartkop'

***Crassula* L.**

Crassula lycopodioides Lam. var. *pseudolycopodioides*
 (Dintel and Schinz.) E. Walter

Crassula ovata (Mill.) Druce : 'Fol Variegatis', 'Jade
 tricolor', 'Monstruosa', 'Obliqua'

Hylotelephium H. Ohba

Hylotelephium sieboldii (Sweet ex Hooker) H. Ohba :

'Medio-variegata', 'Variegatum'

Other cultivars: 'Herbsfreude'

Sedum L.

Sedum x rubrotinctum R. T. Clausen

Cruciferae

***Brassica* L.**

Brassica oleracea L.: Kyoto F 'Pink', Kyoto F 'Red Green',
 Kyoto F 'Violet Green', Kyoto F 'White Green', Kyoto F
 'White-Green', Kyoto F 'Kyoto Formula Mix'

***Erysimum* L.**

Erysimum cheiri (L.) Crantz: 'Aida F Carmine', 'Aida F
 Cream Yellow', 'Aida F Golden Yellow', 'Aida F Scarlet',
 'Royal Golden Yellow', 'Royal Orange Scarlet'.

Cupressaceae

Calocedrus Kurz

Calocedrus decurrens (Torr.) Florin: 'Aureovariegata'

Chamaecyparis Spach.

Chamaecyparis lawsoniana (A. Murray) Parl.:
 'Columnaris', 'Ellwood's Gold', 'Ellwoodii', 'Pottenii',
 'Stewartii'

Chamaecyparis obtusa (Siebold and Zucc.) Endl.: 'Nana
 Gracilis'

Chamaecyparis pisifera (Siebold and Zucc.) Endl.:
 'Boulevard', 'Sungold'

Cupressus L.

Cupressus arizonica Greene: 'Fastigiata Aurea', 'Glaucá', 'Conica', 'Fastigiata'

Cupressus macrocarpa Hartweg: 'Aurea', 'Goldcrest Wilma', 'Goldcrest'

Cupressus sempervirens L.: 'Totem Pole'.

***Juniperus* L.**

Juniperus chinensis L.: 'Stricta'

Juniperus communis L.: 'Hibernica', 'Repanda'

Juniperus horizontalis Moench: 'Blue Chip'

Juniperus oxycedrus L.: 'Variegata'

Juniperus procumbens (Siebold ex Endl.) Siebold

ex Miq.: 'Nana'

Juniperus sabina L.: 'Tamariscifolia'

Juniperus scopulorum Sarg.: 'Skyrocket'

Juniperus squamata Lamb.: 'Blue Carpet', 'Blue Star'

Juniperus virginiana L.: 'Grey Owl'

Juniperus x media van Melle: 'Mint Julep', 'Pfitzeriana Aurea', 'Pfitzeriana', 'Old Gold'

***Thuja* L.**

Thuja occidentalis L.: 'Danica', 'Emeraude'

Thuja orientalis L.: 'Aurea nana', 'Pyramidalis aurea'

Thuja plicata Donn ex D. Don: 'Aurea'

x *Cupressocyparis* Dallimore

x *Cupressocyparis leylandii* (A. B. Jackson and Dallim.)

Dallim.: 'Castlewellan Gold'

Euphorbiaceae

Acalypha L.

Acalypha 'Cats tail'

Ricinus L.

Ricinus communis L.: 'Nigra'

Geraniaceae

Pelargonium L'Hér.

Pelargonium crispum L'Hér.: 'Angeleyes Bicolor', 'Angeleyes Randy', 'Angeleyes Viola'

Pelargonium grandiflorum (Andrews) Willdenow: 'Burghi', 'Clara Schumann',

'Diana', 'Flam White', 'Flamingo', 'Jazmín', 'Juwel', 'Lavendel', 'Lorelei', 'Mandarin', 'Sissy', 'Imperial'

Pelargonium peltatum (L.) L'Hér.: 'Apricot', 'Balcón Imperial', 'Balcón Maule', 'Balcón Rose', 'Decora Desrumeaux', 'Decora Imperial', 'Decora Maule', 'Euka',

'Garbí', 'Mexica Tomcat', 'Regatta', 'Rouletta', 'Royal Amethyst', 'Royal Blue', 'Royal Real', 'Scarletit', 'Super Rosa', 'Tomgirl', 'Ville de Dresden', 'Ville de Dresden', 'Ville de Paris lilac', 'Ville de Paris Red', 'Ville de Paris Rose', 'Xaloc', 'Dark Fidelity', 'Bright Scarlet', 'Dark Fidelity', 'Candy Rose with Blotch', 'Dark Fidelity', 'Dark rose with Blotch', 'Dark Fidelity', 'Fire Scarlet', 'Dark Fidelity', 'Light Salmon', 'Dark Fidelity', 'Magic Rose', 'Dark Fidelity', 'Rose with Blotch', 'Dark Fidelity', 'Royal scarlet', 'Dark Fidelity', 'Salmon Orange', 'Dark Fidelity', 'Salmon', 'Dark Fidelity', 'Scarlet', 'Decora', 'Lilac', 'Decora', 'Red', 'Decora', 'Rose', 'Fidelity', 'Amethyst', 'Fidelity', 'Dark Coral', 'Fidelity', 'Salmon Chiffon', 'Fidelity', 'Bright Scarlet', 'Fidelity', 'Candy Rose with Blotch', 'Fidelity', 'Dark red', 'Fidelity', 'Dark Rose with Blotch', 'Fidelity', 'Dark Rose with Eye', 'Fidelity', 'Lavender with Eye', 'Fidelity', 'Light Salmon', 'Fidelity', 'Red', 'Fidelity', 'Salmon', 'Fidelity', 'Scarlet Orange', 'Fidelity', 'Scarlet', 'Fidelity', 'White', 'Fidelity', 'XL', 'Antique Rose', 'Fidelity', 'XL', 'Bright Scarlet', 'Fidelity', 'XL', 'Candy Rose with Eye', 'Fidelity', 'XL', 'Dark Red', 'Fidelity', 'XL', 'Dark Rose with Eye', 'Fidelity', 'XL', 'Dark Salmon', 'Fidelity', 'XL', 'Fire Scarlet', 'Fidelity', 'XL', 'Lavender Pink with Blotch', 'Fidelity', 'XL', 'Lavender with Eye', 'Fidelity', 'XL', 'Light Salmon', 'Fidelity', 'XL', 'Magenta', 'Fidelity', 'XL', 'Rose with Eye', 'Fidelity', 'XL', 'Salmon', 'Fidelity', 'XL', 'Scarlet', 'Fidelity', 'XL', 'White', 'Tornado', 'F', 'Bicolour Duet', 'Tornado', 'F', 'Carmine', 'Tornado', 'F', 'Cherry Red Pepix', 'Tornado', 'F', 'Formula Mix', 'Tornado', 'F', 'Fuchsia', 'Tornado', 'F', 'Orchid Phoenix', 'Tornado', 'F', 'Pink', 'Tornado', 'F', 'Rose', 'Tornado', 'F', 'White Asterix', 'Tornado', 'F', 'Lilac Cádiz'.

Pelargonium x hortorum L. H. Bailey: 'Floever', 'F', 'Deep Red', 'Floever', 'F', 'Deep Rose', 'Floever', 'F', 'Salmon', 'Floever', 'F', 'Violet', 'Pulsar', 'F', 'Bicolour', 'Pulsar', 'F', 'Deep Rose', 'Pulsar', 'F', 'Formula Mix', 'Pulsar', 'F', 'Lavender', 'Pulsar', 'F', 'Pink', 'Pulsar', 'F', 'Red', 'Pulsar', 'F', 'Rose', 'Pulsar', 'F', 'Salmon', 'Pulsar', 'F', 'Salmon-orange', 'Pulsar', 'F', 'Scarlet', 'Pulsar', 'F', 'Violet', 'Pulsar', 'F', 'White', 'Ringo', 'F', 'Cardinal', 'Ringo', 'F', 'Coral Orange', 'Ringo', 'F', 'Deep Red', 'Ringo', 'F', 'Deep Rose', 'Ringo', 'F', 'Deep Scarlet', 'Ringo', 'F', 'Formula Mix', 'Ringo', 'F', 'Lavender', 'Ringo', 'F', 'Rose Star', 'Ringo', 'F', 'Rose', 'Ringo', 'F', 'Salmon', 'Ringo', 'F', 'Scarlet Bicolour', 'Ringo', 'F', 'Violet', 'Ringo', 'F', 'White'.

Pelargonium zonale L'Hér., Metzo Oglevee: 'Bright Red', 'Bergpalais', 'Blanca', 'Blue Gonder', 'Bubble Gum', 'Cadaqués Costa Brava', 'Candy Cardinal', 'Candy Rose', 'Costa Brava Begur', 'Costa Brava Blanes', 'Costa Brava Calonge', 'Costa Brava Cap Blanc', 'Costa Brava Cap de Pola', 'Costa Brava Cap Gros', 'Costa Brava Cap Roig', 'Costa Brava Empúries', 'Costa Brava L'Estartit', 'Costa Brava La Bisbal', 'Costa Brava Lloret', 'Costa Brava Palamós', 'Costa Brava Pals', 'Costa Brava Portbou', 'Costa Brava Roses', 'Costa Brava Tamariu Improved', 'Fireball', 'Glacis', 'Jana', 'Juliane', 'Lauretta', 'Lavenda', 'Lorena', 'Lucky', 'Orange Perlenkette', 'Palais', 'Rosecrystal', 'Samelia', 'Schocking Pink', 'Schocking Violet', 'Sidonia', 'Victor', 'Classique Oglevee', 'Hot Pink'

Satisfaction', Classique Oglevee 'Pink Satisfaction', Classique Oglevee 'Red Satisfaction', Metzo Oglevee 'Cranberry Red', Metzo Oglevee 'Red', Qualité 'Anthony', Qualité 'Bergpalais', Qualité 'Calais', Qualité 'Candy Rose', Qualité 'Glacis', Qualité 'Icecrystal', Qualité 'Lauretta', Qualité 'Meloda Big', Qualité 'Perlenkette Orange', Qualité 'Perlenkette Sabine', Qualité 'Purpurball', Qualité 'Rosecrystal', Qualité 'Sassa', Qualité 'Victor', Qualité 'Victoria', Qualité 'Blue Gonder', Tempo 'Emilia', Tempo 'Melo cherry', Tempo 'Melody', Tempo 'Shocking Pink', Tempo 'Shocking Violet'.

Other cultivars: 'Blanche Roche', 'Blue Blizzard', 'Butterfly', 'Dark Red Blizzard', 'Fire Blizzard', 'Fireworks Cherry-White', 'Fireworks Light Pink', 'Fireworks Red-White', 'Fireworks Salmón', 'Fireworks Scarlet', 'Fireworks White', 'Flair', 'Holiday Red Blizzard', 'Marimba', 'Maxime', 'Molina', 'Narina', 'Pink Blizzard', 'Purple Blizzard', 'Red Blizzard', 'Ruby Dream', 'White Blizzard', Americana 'Deep Red', Americana 'Light Pink Splash II', Americana 'Pink II', Americana 'Rose Splash', Americana 'Violet', Americana 'White Splash', Avenida 'Mosaic Purple', Avenida 'Mosaic Red', Caliente 'Coral', Caliente 'Deep Red', Caliente 'Rose', Cascade 'Acapulco' Cascade 'Acapulco-Compact', Cascade 'Fluir-Cascade', Cascade 'Lachs-Cascade Compact', Cascade 'Lachs-Cascade', Cascade 'Leucht-Cascade', Cascade 'Lila Compact-Cascade', Cascade 'Lila-Cascade', Cascade 'Mini Cascade Rot', Cascade 'Show Cascade White', Cascade 'Sofie-Cascade', Cascade 'Ville de Paris', Classic Line 'Aquarello', Classic Line 'Atlantis', Classic Line 'Blues', Classic Line 'Calypso', Classic Line 'Diabolo', Classic Line 'Dolce Vita', Classic Line 'Grand Prix', Classic Line 'Noblesse', Classic Line 'Schöne Helena', Compact line 'Alba', Compact line 'Charmant', Compact line 'Gloria', Compact line 'Kardino', Compact line 'Magic', Compact line 'Merkur', Compact line 'Rokoko', Compact line 'Samba', Compact line 'Tiffany', Compact line 'Vulkan', Corriente 'Amethyst violeta', Corriente 'Black Magic', Corriente 'Explosive', Corriente 'Freestyle Artic Red', Corriente 'Holiday Purple Dream', Corriente 'Lulu', Corriente 'Luna', Corriente 'Mexikanerin', Corriente 'Pink Spirit', Corriente 'Ragtime', Corriente 'Reggae Red', Corriente 'Summer Rose Lilac', Graffiti 'Fire', Graffiti 'Happy Violet', Graffiti 'Pink', Graffiti 'Salmon Rose', Graffiti 'Salmon', Graffiti 'White', Rocky Mountain 'Jazz', Rocky Mountain 'Orange', Rocky Mountain 'Red', Rocky Mountain 'Salmon', Rocky Mountain 'Scarlet', Rocky Mountain 'White' Tango Line 'Boogy', Tango Line 'Bravo Dark Pink', Tango Line 'Bravo Light Pink', Tango Line 'Eclipse Dark Red', Tango Line 'Eclipse Rose Splash', Tango Line 'Montevideo', Tango Line 'Queen of Wien', Tango Line 'Tango Dark Red', Tango Line 'Tango Hot Pink', Tango Line 'Tango Lavender', Tango Line 'Tango Neon Purple', Tango Line 'Tango Orange', Tango Line 'Tango

Pink', Tango Line 'Tango White'

Hamamelidaceae

Hamamelis L.

Hamamelis mollis Oliver ex Forb and Hemsl.: 'Pallida'

Hamamelis x intermedia Rehder: 'Diane', 'Jelena'

Liquidambar L.

Liquidambar styraciflua L.: 'Festival', 'Globosum', 'Lane Roberts', 'Levis', 'Moraine', 'Palo Alto', 'Parasol', 'Rotundiloba', 'Silver King', 'Variegata', 'Worplesdon'

Loropetalum R. Br.

Loropetalum chinense (R. Br.) Oliver var. *rubrum*: 'Fire Dance'

Hippocastanaceae

Aesculus L.

Aesculus hippocastanum L.: 'Baumani',

'Pyramidalis' *Aesculus x carnea* P. Watson

Iridaceae

Iris L.

Cultivars: 'Aaron's Dream', 'Alpine Journey', 'Amazon Bride', 'Batik', 'Bewiderbeast', 'Classic Look', 'Coral Chalice', 'Fashion Designer', 'Fashionably Late', 'Gyro', 'Heartbreak Hotel', 'HelenC', 'King Tush', 'Mariposa Skies', 'Mesmerizer', 'Ocean Pacific', 'Old Black Magic', 'Pure as Gold', 'Red Lion', 'Right Already', 'Romantic evening', 'Ruffled Goddess', 'Rustler', 'Toastmaster', 'Valentine's Day', 'Winter Dance'

Labiatae

Lavandula L.

Cultivars: 'African Pride', 'Anzac Pride', Bella 'Lavande', Bella 'Pourpre', Bella 'Rose Clair', Bella 'Rose Foncé', Coco 'Dark Pink', Coco 'White in Blue'

Ocimum L.

Ocimum basilicum L.: 'Genovese', 'Minima'

Leguminosae

Albizia julibrissin Durazz.: 'Ernest Wilson', var. *rosea* Mouill.

Cercis L.

Cercis siliquastrum L.: 'Alba'

Genista L.

Genista lydia Boiss.: 'Porlock', 'Vancouver Gold'

Genista pilosa L.: 'Goldilocks', 'Lemon Spreader'

Genista tinctoria L.: 'Golden Plate', 'Plena', 'Royald Gold'

Gleditsia L.

Gleditsia triacanthos L.: 'Sunburst'

Robinia L.

Robinia pseudoacacia L.: 'Bessoniana', 'Casque Rouge'

Flemor', 'Frisia', 'Pyramidalis', 'Umbraculifera', 'Unifolia'

Other cultivars: *Robinia x holdtii* Beissn., *Robinia x*

margaretta Ashe, *Robinia x margaretta* 'Pink Cascade,

Robinia x slavini Rehd, *Robinia x slavini* 'Hillieri'

Liliaceae

Chlorophytum Ker Gawler

Chlorophytum comosum (Thunb) Jacques: 'Bonnie',

'Ocean', 'Variegatum', 'Vittatum' *Chlorophytum*

orchidastrum Lindl.: 'Green Orange'.

Nyctaginaceae

Mirabilis L.

Mirabilis jalapa L.: 'Broken Colours'

Oleaceae

Olea L.

Olea europaea L.: 'Alfafara', 'Arbequina', 'Asperilla',

'Blanqueta Gorda', 'Blanqueta', 'Borriolenca', 'Callosina',

'Changlot Real', 'Cornicabra', 'Cuquillo', 'Empeltre',

'Farga', 'Llumeta', 'Millarena', 'Morrut', 'Nana', 'Rojal de

Alicante', 'Rojal de Valencia', 'Sierra de Espadán',

'Sollana', 'Villalonga'

Onagraceae

Fuchsia L.

Cultivars: 'Abundance', 'Alice Hoffman', 'Anna Bell',

'Annabelle Stubb', 'Arc-en-ciel', 'Balcon Koningen', 'Beacon

Rose', 'Beacon Rouge', 'Bella Rosa', 'Black Prince', 'Cara

Mia', 'Cascade', 'Dark Eyes', 'Deep Purple', 'Deutch Pearl',

'Dollar Princess', 'El Camino', 'Electric Lights', 'Eté Indien',

'Fulgens', 'General Monk', 'Hanna', 'Holly's Beauty', 'La

Campanella', 'Lambada', 'Lydia Götz', 'Marinka', 'Mike

Maursing', 'Miss California', 'New Millenium', 'Nicky's

Sindling', 'Ortenburg Festival', 'Paula Jones', 'Pink Ballet

Girl', 'Pink Temptation', 'Red Spider', 'Reine des Marches',

'Ricartoni', 'Rocket Fire', 'Rose de Castille', 'Swingtime',

'Tausendschön', 'Tyrol lilas', 'Walz Jubelteen' 'Winston

Churchill', Shadow

Dancer 'Betty', Shadow Dancer 'Carlotta', Shadow Dancer

'Gene', Shadow Dancer 'Ginger', Shadow Dancer 'Marcia',

Shadow Dancer 'Martha', Shadow Dancer 'Peggy', Shadow

Dancer 'Peggy', Shadow Dancer 'Rosella Improved',

Shadow Dancer 'Shirley', Shadow Dancer 'Tilly',

Shadow Dancer 'Violette', Shadow Dancer 'Yolanda',

SunAngels 'Aloha', SunAngels 'Cheerio', SunAngels

'White Blossom'

Oxalidaceae

Oxalis L.

Oxalis articulata Savigny: 'Festival'

Other cultivars: 'Pink Pillow', Xalis 'Black Velvet', Xalis

'Burgundy Wine', Xalis 'Frosted Jade'

Paeoniaceae

Paeonia L.

Cultivars: 'Adolphe Rousseau', 'Ama no Sodo', 'Bowl of

Beauty', 'Buckeye Belle', 'Clair de Lune', 'Cora Stubbs',

'Dancing Butterfly', 'Do tell', 'Edulis Sperba', 'Flame',

'Kansas', 'L'Eclatante', 'Lois Arlene', 'Lois Kelsey', 'Miss

Eckhart', 'Mother's Choice', 'Mrs Franklin D Roosevelt',

'Pink Parfait', 'Raspberry Sundae', 'Red Charm', 'Reine

Hortense', 'Top Brass', 'Vogue', 'West Elkton', 'White

Cap', 'White Wings'

Pinaceae

Abies Mill.

Abies pinsapo Boiss.: 'Glauc', 'Minor'

Other cultivars: *Abies x masjoanni* Hort.

Cedrus Trew.

Cedrus atlantica (Endl.) Manetti ex Carrière 'Aurea',

'Fastigiata 'Glauc', 'Pendula'

Cedrus deodara (Roxb.) G. Don: 'Aurea', 'Pendula'

Plumbagineaceae

Plumbago L.

Plumbago auriculata Lam.: 'Blau', 'Dunkelblau', 'Weib'

Portulacariaceae

Portulaca L.

Portulaca grandiflora Hook.: 'Blanc', 'Jaune', 'Orange

apricot', 'Rose Clair', 'Rose vif', 'Rouge', 'Samba', Duet

'Candy Stripes', Duet 'Rose'

Portulaca umbraticola Kunth: 'Mauve Pink', 'Orange',

'Red', 'White', 'Yellow', 'Silver Pink', 'Samba'.

Portulacaria Jacq.

Portulacaria afra Jacq.: 'Variegata'

Primulaceae

Primula L.

Primula vulgaris Hudson: Bicolor 'Apple Blossom', Bicolor 'Calypso', Bicolor 'Elara', Bicolor 'Miranda', Bicolor 'Rhea', Bicolor 'Titania', Daniella 'Apricot', Daniella 'Blue', Daniella 'Cream Yellow', Daniella 'Rose Bicolor', Daniella 'Rose', Daniella 'Scarlet', Daniella 'White', Daniella 'Yellow', Danova 'Bicolor Rose w/White', Danova 'Blue', Danova 'Cherry w/Edge', Danova 'Copper', Danova 'Cream Yellow', Danova 'Golden Yellow', Danova 'Light Violet', Danova 'Lime', Danova 'Orange Yellow', Danova 'Pink', Danova 'Purple', Danova 'Red and Rose Shades', Danova 'Red w/Yellow Edge', Danova 'Rose Lavender Shades', Danova 'Rose', Danova 'Salmon Orange', Danova 'Scarlet Imp', Danova 'Sky Blue', Danova 'Velvet Red', Danova 'White', Danova 'Wine Red', Danova 'Yellow w/eye', Delight 'Blueberry', Delight 'Strawberry'

Rosaceae

Chaenomeles Lindley

Chaenomeles japonica (Thunberg) Spach: 'Sargentii'
Chaenomeles speciosa (Sweet) Nakai: 'Nivalis', 'Simonii'
Chaenomeles x superba (Frahm) Rehder: 'Boule de Feu', 'Crimson and Gold', 'Erns Finken', 'Etna', 'Fire Dance', 'Jet Trail', 'Knap Hill Scarlet', 'Nicoline', 'Pink Lady'
Other cultivars: 'Coral Beauty'

Cotoneaster Medicus

Cotoneaster conspicuus Comber ex C. Marquand and G. Klotz: 'Decorus'
Cotoneaster dammeri C.K. Schneid.: 'Coral Beauty', 'Eichholz', 'Major',
var. *radicans* 'Skogholm'
Cotoneaster horizontalis Decne 'Dart's Splendid'
Cotoneaster salicifolia Franch.: 'Autumm Fire', 'Gnom', 'Repens'
Cotoneaster x watereri Exell.: 'Cornubia', 'Pendulus'

Crataegus L.

Crataegus laevigata (Poiret) DC.: 'Paul's Scarlet'
Crataegus x lavalleyi Herincq ex Lav.: 'Carrierei'
Crataegus x prunifolia (Poiret) Pers.

Rosa L.

Cultivars: 'Graham Thomas', 'Albertine', 'Antigone', 'Arielle Dombaise', 'Baby Baccara', 'Banksiae', 'Camelia', 'Chicago Peace', 'Chrysler Imperial', 'Clair Renaissance', 'Cristal Palace', 'Elizabeth Queen', 'Iceberg', 'Landora', 'M Pierre S du Pont', 'Mary Rose', 'Mister Lincoln', 'Mme A Meilland', 'Opalia', 'Paul's Scarlet trepador', 'Pierre de Ronsard', 'Roundelay', 'Yves Piaget'.

Scrophulariaceae

Antirrhinum L.

Antirrhinum majus L.: Coronette F 'Bronze', Coronette F 'Cherry', Coronette F 'Crimson', Coronette F 'Formula Mix', Coronette F 'Orchid', Coronette F 'Pink', Coronette F 'Scarlet', Coronette F 'White', Coronette F 'Yellow', Crown F 'Formula Mix', Crown F 'Pastel Formula mix', Crown F 'Terracotta Mix', Montego F 'Blush', Montego F 'Bronze', Montego F 'Formula Mix', Montego F 'Lilac', Montego F 'Pink', Montego F 'Red', Montego F 'Rose Bicolour', Montego F 'Scarlet', Montego F 'Sunset', Montego F 'Violet', Montego F 'White', Montego F 'Yellow', Tahiti F Formula Mix'

Nemesia Vent.

Cultivars: Karoo 'Lemon Drop', Karoo 'Pink', Karoo 'Soft Blue', Karoo 'White', Sunsatia 'Banana', Sunsatia 'Blackberry', Sunsatia 'Carambola', Sunsatia 'Cassis', Sunsatia 'Citron', Sunsatia 'Coconut', Sunsatia 'Cranberry', Sunsatia 'Guava', Sunsatia 'Kumquat', Sunsatia 'Lemon', Sunsatia 'Mango amélioré', Sunsatia 'Marañon', Sunsatia 'Peach', Sunsatia 'Saffron', Sunsatia 'Snowberry', Sunsatia 'Tamarillo', Sunsatia 'Watermelon'

Solanaceae

Petunia Juss.

Petunia x hybrida Hort. ex Vilm.: 'Prism F Sunshine', Flash F 'Blue and White', Flash F 'Duo red', Flash F 'Duo Violet', Flash F 'Formula Mix', Flash F 'Orchid Veined', Flash F 'Picotee Mix', Flash F 'Red', Flash F 'Scarlet Centre', Flash F 'Star Mix', Flash F 'Veined Formula Mix', Flash F 'Velvet', *grandiflora* Bravo F 'Appleblossom', *grandiflora* Bravo F 'Blue Veined', *grandiflora* Bravo F 'Blue', *grandiflora* Bravo F 'Burgundy', *grandiflora* Bravo F 'Cool Water Mix', *grandiflora* Bravo F 'Formula Mix', *grandiflora* Bravo F 'Lavender', *grandiflora* Bravo F 'Peach Flare', *grandiflora* Bravo F 'Pink Flare', *grandiflora* Bravo F 'Pink veined', *grandiflora* Bravo F 'Pink', *grandiflora* Brav F 'Purple'

star', *grandiflora* Bravo F 'Purple', *grandiflora* Bravo F 'Red Star', *grandiflora* Bravo F 'Red', *grandiflora* Bravo F 'Rose star', *grandiflora* Bravo F 'Rose', *grandiflora* Bravo F 'Salmon Veined', *grandiflora* Bravo F 'Salmon', *grandiflora* Bravo F 'Sky', *grandiflora* Bravo F 'Uni Mix', *grandiflora* Bravo F 'White', *grandiflora* Fangio F 'Blanc', *grandiflora* Fangio F 'Bleu Borde Blanc', *grandiflora* Fangio F 'Bleu Ciel', *grandiflora* Fangio F 'Bleu Etoile Blanc', *grandiflora* Fangio F 'Bleu Fonce', *grandiflora* Fangio F 'Bleu Veine', *grandiflora* Fangio F 'Bourgog Veine', *grandiflora* Fangio F 'Jaune', *grandiflora* Fangio F 'Lilas', *grandiflora* Fangio F 'Mel Tons Bleus', *grandiflora* Fangio F 'Mel Tons Roses', *grandiflora* Fangio F 'Melange Borde', *grandiflora* Fangio F 'Melange Complet', *grandiflora* Fangio F 'Melange Etoile', *grandiflora* Fangio F 'Melange Select', *grandiflora* Fangio F 'Melange Veine', *grandiflora* Fangio F 'Pourpre Borde Blanc', *grandiflora* Fangio F 'Pourpre Etoile blanc', *grandiflora* Fangio F 'Pourpre Veine', *grandiflora* Fangio F 'Rose Borde Blanc', *grandiflora* Fangio F 'Rose Centre Blanc', *grandiflora* Fangio F 'Rose Etoile blanc', *grandiflora* Fangio F 'Rose Fonce', *grandiflora* Fangio F 'Rose Neon', *grandiflora* Fangio F 'Rose', *grandiflora* Fangio F 'Rouge Borde Blanc', *grandiflora* Fangio F 'Rouge Bordeaux', *grandiflora* Fangio F 'Rouge Centre Blanc', *grandiflora* Fangio F 'Rouge Etoile Blanc', *grandiflora* Fangio F 'Rouge Veine', *grandiflora* Fangio F 'Rouge', *grandiflora* Fangio F 'Saumon', *grandiflora* Fangio Pole Position F 'Blanc', *grandiflora* Fangio Pole Position F 'Bleu Fonce', *grandiflora* Fangio Pole Position F 'Bourgogne', *grandiflora* Fangio Pole Position F 'Melange', *grandiflora* Fangio Pole Position F 'Rose Fonce', *grandiflora* Fangio Pole Position F 'Rose', *grandiflora* Fangio Pole Position F 'Rouge', *grandiflora* Fangio Pole Position F 'Saumon', *grandiflora* Limbo F 'Blanc', *grandiflora* Limbo F 'Bleu', *grandiflora* Limbo F 'Melange', *grandiflora* Limbo F 'Pourpre Fonce', *grandiflora* Limbo F 'Pourpre', *grandiflora* Limbo F 'Rose Veine', *grandiflora* Limbo F 'Rose', *grandiflora* Limbo F 'Rouge Amélioré', *grandiflora* Limbo F 'Saumon', *grandiflora* Limbo F 'Violet', *hybrida* Victoria F 'Blanc', *hybrida* Victoria F 'Bleu Soutenu', *hybrida* Victoria F 'Lilas Veine', *hybrida* Victoria F 'Pink Morn', *hybrida* Victoria F 'Purpre', *hybrida* Victoria F 'Rose Clair', *hybrida* Victoria F 'Rose Vif', *hybrida* Victoria F 'Rouge', *hybrida* Victoria F 'Saumon Veine', *milliiflora* Fantasy F 'Melange', *multiflora* Duo F 'Melange', *multiflora* Fantasy F 'Blue', *multiflora* Fantasy F 'Carmine', *multiflora* Fantasy F 'Crystal red', *multiflora* Fantasy F 'Formula Mix', *multiflora* Fantasy F 'Ivory', *multiflora* Fantasy F 'Pink Morn', *multiflora* Fantasy F 'Pink', *multiflora* Fantasy F 'Red', *multiflora* Hurrah F 'Blue veined', *multiflora* Hurrah F 'Blue', *multiflora* Hurrah F 'Coral Flare', *multiflora* Hurrah F 'Formula Mix', *multiflora* Hurrah F 'Lavender Tie Dye', *multiflora* Hurrah F 'Orchid veined', *multiflora* Hurrah F 'Parfait mix', *multiflora* Hurrah F 'Pink Chiffon', *multiflora* Hurrah F 'Pink Flare', *multiflora* Hurrah F 'Pink veined', *multiflora* Hurrah F 'Pink', *multiflora* Hurrah F

'Red Star', *multiflora* Hurrah F 'Red', *multiflora* Hurrah F 'Rose Star', *multiflora* Hurrah F 'Rose', *multiflora* Hurrah F 'Salmon Chiffon', *multiflora* Hurrah F 'Salmon Veined', *multiflora* Hurrah F 'Salmon', *multiflora* Hurrah F 'Velvet', *multiflora* Hurrah F 'White', *multiflora* Mambo F 'Melange', *multiflora* Polo F 'Blue Star', *multiflora* Polo F 'Burgundy star', *pendula* Kahuna F 'Violet Cruisin', *pendula* Kahuna F 'White Stylin', *pendula* Yippee F 'Blue', *pendula* Yippee F 'Deep Rose', *pendula* Yippee F 'Pink', *pendula* Yippee F 'Red', *pendula* Yippee F 'Salmon', *pendula* Yippee F 'White', Tagle 'Blue', Tagle 'Pastel Pink', Tagle 'Pink Vein', Tagle 'Pink', Tagle 'Plum Vein', Tagle 'Red Imp', Tagle 'Red Star', Tagle 'Rose', Tagle 'Salmón', Tagle 'White', Wimbledon 'Mix F'

Sterculiaceae

Fremontodendron Coville
Fremontodendron 'California Glory'

Taxaceae

Cephalotaxus Siebold and Zucc.
Cephalotaxus harringtonia (Forbes) Koch: 'Fastigiata', 'Prostrata'

Taxodiaceae

Cryptomeria D. Don
Cryptomeria japonica (L. f.) D. Don: 'Elegans', 'Globosa nana', 'Vilmoriniana'

Theaceae

Camellia L.

Camellia japonica L.: 'Acs Jubilee', 'Adolphe Audusson', 'Alba Plena', 'Albear', 'Angela Coccchi', 'April Blush', 'April Remembered', 'Arajishi', 'Arcozelo', 'Augusto L'Gouveia Pinto (Da Silva)', 'Baby Doll', 'Baby Pearl', 'Ballet Dancer'.

'Baronne Leguay', 'Bella Lambertii', 'Bella Romana', 'Bento de Amorn', 'Betty Sheffield Coral', 'Black Magic', 'Black Tie', 'Bob Hope', 'Bob's Tinsie', 'Bokuhan', 'Can Can', 'Cardinal's Cap', 'Carolyn Tuttle', 'Carter's Sunburst', 'Chardonneret', 'Cherries Jubilee', 'Chie Tarumoto', 'Ciudad de Vigo', 'Clark Hubbs', 'Cocchi Rouge', 'Compacta Alba', 'Confetti Blush', 'Contessa Lavinia Maggi', 'Dahlohnega', 'Daikagura', 'Daviesii', 'Dawn's Early Light', 'Debutante', 'Demi-Tasse', 'Desire', 'Do Pozo', 'Dona Herzilia de Freitas Magalhaes', 'Donnan's Dream', 'Dr Tinsley', 'Elegans Champagne', 'Elizabeth Weaver', 'Eugenia de Montijo', 'Fimbriata', 'Firedance Variegated', 'Flame', 'Fleur Dipater', 'Frances B Homer', 'Fuji', 'Furô-An', 'Gee

Homeyer', 'Gigantea', 'Ginyô-Tsubaky', 'Glen', 'Granada', 'Grand Marshal', 'Grand Prix', 'Grandiflora Superba', 'Grape Soda', 'Guest of Honor', 'Guilio Nuccio', 'Hanatachibana', 'Happy Holidays', 'Hawaii', 'Herme', 'Hilda Jamieson', 'Hippolyte Thoby', 'Il Cigno', 'Imbricata', 'J J Whitfield Var', 'Jaspeada', 'Jean Clere', 'Jerry Donnan', 'Joshua E Youth', 'Junior Prom', 'Jupiter (Paul)', 'Justine Heurtin', 'K Sawada', 'Kakureiso', 'Katie', 'Kempie Doll', 'Kick-Off', 'Kimberley', 'Kitty', 'Kona', 'Kramer's Supreme', 'Kuro-Tsubaki', 'Lady Clare', 'Lady Kay', 'Lady Laura', 'Letitia Schrader', 'Little Bo Peep', 'Little Michael', 'Louis Sander', 'Lulu Belle', 'Madame Martin Cachet', 'Magali', 'Magnolia Rubra', 'Magnoliaeflora', 'Manchada', 'Marchioness of Salisbury', 'Maria Irene', 'Mariann', 'Mark Alan', 'Maroon and Gold', 'Mary J Wheeler', 'Masterpiece', 'Mathotiana Alba', 'Mathotiana', 'Millarenga', 'Moshio', 'Mrs D W Davis Descanso', 'Mrs D W Davis', 'Nanban-Koh', 'Nuccio's Carousel', 'Nuccio's Gem', 'Nuccio's Jewel', 'Nuccio's Pink Lace', 'Onetia Holland', 'OO-La-La', 'Papandof', 'Patricia Ann', 'Pearl Maxwell', 'Pink Diddy', 'Preston Rose', 'Prima Ballerina', 'Professor Charles S Sargent', 'Reboreda', 'Red Dandy', 'Red Hots', 'Robin's Candy', 'Royal Velvet', 'Rubescens Major', 'Sangre de Pichón', 'Sangre de Toro', 'Satsuma', 'Sawada's Dream', 'Shikibu', 'Shirobotan', 'Shuchuka', 'Silver Anniversary', 'Silver Cloud', 'Silver Tower', 'Silver Wanes', 'Something Beautiful', 'Spring Fling', 'Spring Sonnet', 'Sunny Side', 'Swan Lake', 'Sweet Dreams', 'Sweetheart', 'Tama Americana', 'Tama Bambino', 'Tama Beauty', 'Tama Bell', 'Tama Electra', 'Tama Vino', 'Tama-No-Ura', 'Tata', 'Thelma Dale', 'Tinsie', 'Tom Thumb', 'Tomorrow', 'Torre da Lama Roja', 'Touch of Pink', 'Triumphans', 'Twilight', 'Vilar d'Allen', 'Ville de Nantes', 'Wilamina', 'Yosemite' *Camellia reticulata* Lindl.: 'Al Gunn', 'Bill Johnston', 'Bill Woodroof', 'Bravo', 'Buttons'n Bows', 'China Lady', 'Chrissie's Retic', 'Chrysanthemum Petal', 'Eden Roc', 'Hall's Pride', 'Interval', 'John Hall', 'John Hunt', 'Mandalay Queen', 'Margaret Hilford', 'Mildred Pitkin', 'Miss Tulare', 'Nancy Reagan', 'Nuccio's Ruby', 'Pavlova', 'Pharaoh', 'Pleasant Memories', 'Queen Bee', 'Red Emperor', 'Ruta Hagmann', 'San Marino', 'Standing Ovation', 'W P Gilley', 'White Retic', 'William Hertrich'

Camellia sasanqua Thunb.: 'Barón de Soutelinho', 'Baronesa de Soutelinho', 'Bonanza', 'Chojiguruma', 'Little Pearl', 'Miss Ed', 'Narumigata', 'Rosea', *Camellia x hiemalis* Nakai 'Dazzler', 'Frosted Star', *Camellia x maliflora* Lindl
Camellia x vernalis (Mak.) Mak.: 'Ginryû', 'Sibori Egao', 'Yuletide'

Camellia x williamsii W. W. Sm.: 'Anticipation', 'Ballet Queen Variegated', 'Brigadoon', 'Debbie', 'Donation', 'Dream Boat', 'E G Waterhouse', 'Elizabeth De Rothschild', 'Elsie Jury', 'Fragrant Pink', 'Grand Jury', 'High Fragante', 'Julia Hamiter', 'Jury's Yellow', 'Mary

Phoeby Taylor', 'Mona Jury', 'Rendezvous', 'Rosemary Williams', 'Sweet Emily Kate'

Other hybrids and cultivars: 'Angel Wings', 'Anticipation', 'Arbutus Gum', 'Arcadia', 'Ballet Queen', 'Bernardette Karsten', 'Betty Ridley', 'Bill Goertz', 'Black Lace', 'California Fantasy', 'California Sunset', 'Daintiness', 'Debbie',

'Donation', 'Dr Clifford Parks', 'Dream Boat', 'Dream Castle', 'E G Waterhouse', 'El Dorado', 'El Dorado', 'Elegant Beauty', 'Elsie Dryden', 'Fair Jury', 'Fire Chief', 'Fire'n Ice', 'Fragrant Pink', 'Francie L', 'Galaxie', 'Graem Yates', 'Grand Jury', 'Harold L Paige', 'High Fragance', 'High Fragance', 'Hulyn Smith', 'Jean Pursel', 'Jury's Yellow', 'Koto- No-Kaori', 'Kramer's Supreme', 'Lasca Beauty', 'Lasca Beauty', 'Lucky Star', 'Milo Rowell', 'Minato-No-Akebono', 'Minato-No-Haru', 'Mona Jury', 'Nicky Crisp',

'Night Rider', 'Olé', 'Otto Hopfer', 'Pink Dahlia', 'Polyanna', 'Red Crystal', 'Rendezvous', 'Rosalia de Castro', 'Royalti', 'Scensation', 'Scented Gem', 'Scented Sun', 'Scentuous', 'Señorita', 'Snippet', 'Souzas Paulova', 'Spring Festival', 'Spring Mist', 'Spring Sonnet', 'Super Star', 'Sweet Emily Kate', 'Taylor's Perfection', 'Trophy', 'Uraku', 'Valentine Day', 'Water Lily'

Valerianaceae

Centranthus Necker ex DC.

Centranthus ruber (L.) DC.: 'Albus', 'Coccineus', 'Roseus'

Verbenaceae

Lantana L.

Lantana camara L.: 'Avalanche', 'Brasier', 'Cochenille', 'Colibri Red', 'Golden Sun', 'Ingelsheim', 'Prof Raoux', 'Sonja'

Lantana montevidensis Briq.: 'Jaune'

Other cultivars: 'Red Mini', 'Sunkiss', 'Yellow Mini'

Violaceae

Viola L.

Viola cornuta L.: 'Andrea Dark Blue F', 'Black Jack', 'Alpine F', 'Sky', 'Alpine F', 'Spring', 'Alpine F', 'Summer', 'Alpine F', 'Sun', 'Alpine F', 'Wing', 'Endurio F', 'Blue Yellow with Purple Wing', 'Endurio F', 'Pure Yellow', 'Endurio F', 'Yellow with Violet Wing', 'Endurio F', 'Yellow with Red Wing', 'Patiola F', 'Tangerine', 'Patiola F', 'Pure Lemon Yellow', 'Patiola F', 'Pure Light Blue', 'Patiola F', 'Pure Violet', 'Patiola F', 'Pure yellow', 'Patiola F', 'Violet with

Yellow Face', Rocky F 'Blue For You', Rocky F 'Blue with Purple Wing', Rocky F 'Bright Blue', Rocky F 'Cream', Rocky F 'Golden Yellow', Rocky F 'Lavender Beacon', Rocky F 'Lavender Blush', Rocky F 'Lemon with Blotch', Rocky F 'Light Blue with Face', Rocky F 'Neon Violet', Rocky F 'Pink', Rocky F 'Pure orange', Rocky F 'Purple with Face', Rocky F 'Red with Yellow Face', Rocky F 'Ruby with Yellow Face', Rocky F 'Sky Scape', Rocky F 'White with Purple Wing', Rocky F 'White', Rocky F 'Yellow with Blotch', Snazzy F 'Apricot', Snazzy F 'Blue with Blotch', Snazzy F 'Blue with yellow Face', Snazzy F 'Red with Blotch', Snazzy F 'Rose with Blotch', Sorbet F 'Orange Duet', Sorbet F 'Red Wing', Sorbet F 'Sunny Royale', Velour 'Cream Splash', Velour 'Deep Blue with Blotch', Velour 'Purple with Wing', Velour 'Purple', Velour 'Yellow'.

Viola wittrockiana Gams ex Nauenb and Buttler: 'Chalon Supreme Mix', Aurora 'Beaconsfield', Aurora 'Blue with Blotch', Aurora 'Light Blue', Aurora 'Mix', Aurora 'Pure Orange', Aurora 'Pure White', Aurora 'Pure Yellow', Aurora 'Red with Blotch', Aurora 'White with Blotch', Aurora 'Yellow with Blotch', Aurora 'Yellow with Red Wing', Icequeen 'Beaconsfield', Icequeen 'Blue with Blotch', Icequeen 'Bright Red', Icequeen 'Deep Blue with Blotch', Icequeen 'Light Blue', Icequeen 'Mix', Icequeen 'Pure Violet', Icequeen 'Pure White', Icequeen 'Pure Yellow', Icequeen 'White with Blotch', Icequeen 'Yellow with Blotch', Icequeen 'Yellow with Red Wing', 'Delft F', Colossus F 'Deep Blue with Blotch', Colossus F 'Purple with Blotch', Colossus F 'Red with Blotch', Colossus F 'Rose with Blotch', Colossus F 'White with Blotch', Colossus F 'Yellow with Blotch', Delta F 'All colours Mix', Delta F 'Antique Surprise', Delta F 'Blotched Mix', Delta F 'Citrus Mix', Delta F 'Lavender Surprise', Delta F 'Pure Colours Mix', Roc F 'Beaconsfield', Roc F 'Blue with Blotch', Roc F 'Mix', Roc F 'Pure Gold', Roc F 'White with Blotch', Roc F 'Yellow with Blotch', Roc F 'Yellow with Red Wing', Skyline F 'Pure Rose', Skyline F 'All Colours Mix', Skyline F 'Beaconsfield', Skyline F 'Blue with Blotch', Skyline F 'Blue with White Face', Skyline F 'Citrus Mix', Skyline F 'Copperfield', Skyline F 'Deep Blue with Blotch', Skyline F 'Orange with Blotch', Skyline F 'Pink Shades', Skyline F 'Pure Light Blue', Skyline F 'Pure Primrose', Skyline F 'Pure Red', Skyline F 'Pure Violet', Skyline F 'Pure White', Skyline F 'Pure Yellow', Skyline F 'Tangerine', Skyline F 'True Blue', Skyline F 'White with Blotch', Skyline F 'White with Purple Wing', Skyline F 'Yellow with Blotch', Skyline F 'Yellow with Red Wing', Delta F 'Beaconsfield Improved', Delta F 'Blue with Blotch', Delta F 'Deep Blue with Blotch', Delta F 'Fire Surprise', Delta F 'Lavender with Blotch', Delta F 'Light Blue with Blotch', Delta F 'Neon Violet', Delta F 'Orange with Blotch', Delta F 'Pink Shades', Delta F 'Primrose with Blotch', Delta F 'Pure Deep Orange', Delta F 'Pure Golden Yellow', Delta F 'Pure Lemon', Delta F 'Pure Light Blue', Delta F 'Pure Primrose', Delta F 'Pure Red', Delta F 'Pure Rose', Delta F 'Pure Violet', Delta F 'Pure White', Delta F 'Pure Yellow', Delta F 'Red

with Blotch', Delta F 'Rose Surprise', Delta F 'Rose with Blotch', Delta F 'True Blue', Delta F 'Uni Mix', Delta F 'Violet with Face', Delta F 'White with Blotch Improved', Delta F 'White with Rose Wing', Delta F 'Yellow with Blotch', Delta F 'Yellow with Purple Wing', Delta F 'Yellow with Red Wing'

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