

Non-Native Plant Species

Most plants that can be found in our gardens were originally from other parts of the globe; that is, they are introduced or alien species.

Some of them are not able to colonize natural areas, but others multiply and spread easily from one place to another without man's help, becoming naturalized species that grow in areas where they were not planted. If these alien species swiftly colonize areas of countryside and start to replace the native vegetation, they can be considered to be invasive.

Plants that become invasive species can have serious impacts on natural plant communities. Under certain conditions and in fragile ecosystems, they can contribute to the extinction of certain plants, because the invasive species competes with the native one for the same ecological niche. What is more, invasive plants are sometimes also associated with plagues and plant disease, which can have a negative effect on local plant species and lead to a loss of biodiversity.

The problem of invasive plant species is causing international concern and these plants are currently regarded to be the second cause of the planet's loss of biodiversity after the destruction of habitats.

For years now, the control of invasive alien species has been an issue of key importance in the management of our natural spaces.



Aloe (Aloe maculata

The resulting problem for Mondragó Nature Reserve

In Mondragó Nature Reserve and its immediate vicinity, there are lots of private gardens where invasive or potentially invasive alien plant species are widely grown. These species often spread beyond the limits of these gardens and rapidly multiply in parts of the countryside, becoming a threat for the nature reserve's own species and habitats.

Given this problem, in 2013 a study was drawn up aimed at the control and eradication of invasive alien plant species in Mondragó Nature Reserve's terrestrial ecosystems and, since then, ongoing efforts are made to reverse the situation.

One of the areas that is most sensitive to the presence of alien species is the coastline. The rounded noon-flower (Disphyma crassifolium), sour fig or hottentot-fig (Carpobrotus spp.) and other species from the Aizoaceae family are very commonly used as ornamental plants since they need little water, are evergreens and feature large numbers of attractive flowers. They can spread beyond gardens and colonize rocky areas close to the sea.

The main problem they cause is the formation of a big mantle that spreads over the natural vegetation, preventing its normal growth and finally killing it off. Many people think that these species are native to our coastline, but in reality they were introduced years ago and, in some cases, they have come to replace species typical of our coastal cliffs, such as sea-lavender (Limonium

spp.), rock samphire (Crithmum maritimum) or the member of the dandelion family Launaea cervicornis.

In the nature reserve's scrubland, creeping groundsel (Senecio angulatus) is currently one of the plants that causes the most problems because it grows very swiftly. It creeps along the branches of trees and bushes close to it, making it very hard to remove.

Another very difficult species is the bridal creeper (Asparagus asparagoides). This creeper and member of the lily family takes over stretches of land where native flora used to grow through its mass colonization of areas above the ground, where it grows very thickly, and below it, due to the large number of bulbs and roots that are formed.

Other species that also need some type of control, due to their rapid growth and proliferation through the dispersal of seeds or natural vegetative propagation are the century plant (Agave americana), Aloe (Aloe arborescens and Aloe maculate) and prickly pear (Opuntia spp).



The advantages of growing native species in gardens

In recent years, numerous alien plant species have been removed from different parts of Mondragó Nature Reserve. The best way of reducing associated environmental risks and saving on manpower and money is to prevent the use of these species.

The problems mentioned previously can be avoided by replacing alien plant species in gardens with native ones that have similar ornamental characteristics. Eye-catching gardens can be achieved using local plants.

Some of the advantages of using native plants in gardens include:



ADAPTED TO THE LOCAL CLIMATE AND SOIL

These gardens feature plants adapted to the local climate and soil. They do not need a lot of water and so, after the first years of their growth, they are able to survive with hardly any watering.



FEW FERTILIZERS OR CHEMICAL PRODUCTS

They barely need fertilizers or chemical products. They are also more resistant to plagues and plant disease



MORE CHEAPER

Gardens stocked with local plants are low on maintenance, given their woodland nature and the characteristics of the plants. Due to this and to the above facts. Mediterranean gardens are cheaper to run than a conventional or exotic garden.



BLEND INTO THE SURROUNDING COUNTRYSIDE

Gardens with native species blend into the surrounding countryside scenically and visually. In addition, the bushes and shrubs provide places for insects, other invertebrates, small birds and mammals to nest, take shelter and feed.



ARE PERENNIAL

Most native plant species are perennial and so they do not lose their leaves. The garden will therefore always be green.





WIDE VARIETY

Given the wide variety of available native plants, they can be combined to broad-ranging visual effect, with contrasting shapes, colours and smells. Different species can be found that flower at different times of year, and so a Mediterranean garden can be designed with some flowers in bloom throughout the whole year.



Native species that can be grown in gardens

Mondragó Nature Reserve's plant communities feature strikingly beautiful, fascinating native species that can be used as ornamental plants.



Common name	Scientific name	Type of plant	Blooms in	Colour of flower
Mediterranean buckthorn	Rhamnus alaternus	Tree/ Shrub	Spring	Yellow
Narrow-leaved mock privet/ False olive	Phillyrea angusti- folia	Tree/ Shrub	Spring	White
Butcher's broom	Ruscus aculeatus	Shrub	Winter & spring	Green
Rock rose/grey leaved cistus	Cistus albidus	Shrub	Spring	Pink
Montpellier cistus/white rockrose	Cistus monspeli- ensis	Shrub	Spring	White
Sage-leaf rockrose	Cistus salvifolius	Shrub	Spring	White
Rock samphire	Crithmum maritimum	Herba- ceous	Winter & summer	Greenish yellow
Broom	Genista lucida	Shrub	Spring	Yellow
Cat-thyme germander	Teucrium capitatum	Shrub	Spring	Pinkish lilac
Lavender	Lavandula dentata	Shrub	Spring & summer	Lilac
Tree spurge	Euphorbia dendroides	Shrub	Spring	Greenish yellow
Mastic bush/ lentisk	Pistacia lentiscus	Tree/ Shrub	Spring	Green
Pine	Pinus halepensis	Shrub	Spring	Brown
Rosemary	Rosmari- nus offici- nalis	Shrub	All seasons	Lilac
Phoenician juniper	Juniperus phoenicea subsp. turbinata	Shrub	Winter	
	Helichry- sum stoechas	Shrub	Spring	Yellow
Grey birdsfoot trefoil	Lotus cytisoides	Herba- ceous	Spring	Yellow
Wild olive	Olea euro- paea var. sylvestris	Shrub	Spring	White
Fern-leaved clematis	Clematis cirrhosa	Woody vine	Autumn & winter	White
Mediterranean heather	Erica mul- tiflora	Shrub	Winter	Pink
Evergreen honeysuckle	Lonicera implexa	Shrub/ Woody vine	Spring	Yellowish white

EVERYONE'S COLLABORATION IS ESSENTIAL IN ENSURING THAT INVASIVE PLANT SPECIES ARE NOT ALLOWED TO RUN WILD IN THE COUNTRYSIDE. TO ENSURE THAT OUR NATURAL SURROUNDINGS CONSERVE THEIR ECOLOGICAL AND SCENIC CHARACTERISTICS, WE URGE YOU TO TAKE THE FOLLOWING STEPS IN THE FIELD OF PREVENTION AND CONTROL:

- Do not plant invasive species in your garden.
- Check whether you have invasive plant species at home and replace them
 with others that are not. Using native species is the best option, since they are
 well adapted to the Mediterranean climate and they are economical because
 they need little maintenance or watering (see the table of recom ended
 species).
- If you cannot replace the invasive species, prevent them from spreading outside your garden by always pruning them before they flower and seed.
- Be careful how you dispose of any pruned remains of invasive species. You can take them to a green recycling point or use them as compost in your garden, but never leave them in the countryside.
- Notify the park offices if you detect Non-native plant specie places.

For further information, contact the office at Mondragó Nature Reserve:

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