- Central Chile

mediterranean place.

the Mediterranean Basin

> A mediterranean place, a mediterranean garden

- climatic zones: the South African Cape

For more information about sustainable gardening, segesenel eldenieteue <

park or garden. to find out how you can create your own sustainable , 9ldsnistzuz/zardenicgardenicalianicgardenics. the Visitor Information Centre or visit the web site, Botanic Gardens of Adelaide. Pick up a brochure from contact the Sustainable Landscapes project through the

Uses minimal fuel powered energy in its construction

Avoid the use of materials and products such as rocks

Provide habitat for local native fauna such as birds,

can become weeds when planted inappropriately.

• Use only non-weedy plants. Many mediterranean plants

designing and caring for your garden. A truly sustainable Water is just one factor you should think about when

or wood collected from a wild landscape.

Use minimal pesticides and other chemicals.

garden will not only be water-wise it will also:

> Protecting our environment

visit www.sawater.com.au or phone 1800 130 952. Check with SA Water about water restrictions:

• Water the roots of plants and not the leaves.

• Avoid watering in the warmest part of the day to

prevent evaporation.

• Use a trigger hose instead of leaving the hose running. • Water your garden less often but more thoroughly.

Check what is suitable for your area.

started are: a mediterranean garden. Some suggestions to get you There are also some useful books that can help you grow

by Heide Gildemeister. Published , (2002) A Waterwise Approach (2002), :puinebrean Gardening: Published by Timber Press. Gardens of the Sun (1996), by Trevor Nottle.

by University of California Press.

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Botanic Gardens of Adelaide

Welcome to the SA Water

Mediterranean Garden

"Remain true to the earth." Friedrich Nietzsche

Gardens of Adelaide web site. Centre on the Schomburgk Pavilion or from the Botanic planted here is available from the Visitor Information find out more about them later. A full list of the species

> Going water-wise

other ways to save water in the garden. As well as choosing water-wise plants, there are many

Design a water-wise garden

- Use a paving material that lets water soak through.
- .nonshoration. • Set up shade areas and wind breaks to minimize
- Group plants with similar water needs together.
- check with your local government authorities.) household plumbing. (For more information please your garden, washing the car or connecting into your Install rainwater tanks. These can be used for watering

Look after your soil

- Mulch thoroughly. As well as preventing as much
- temperature and improve soil structure. lios ni snoitaitav tuo neve, erosions in soil as 73% evaporation loss, mulch can reduce weeds,
- Use a compost bin. Compost will improve your soil
- Use products that hold water near the roots of plants, and allow better water penetration.
- reduce runoff and increase water retention.

Get the most from your water

monitor and adjust to suit the weather. • Use an appropriate irrigation system that you can

> feature and the critical factor in the choice of plants. of water being used wisely and well, both as a design A Water Mediterranean Garden is a practical example AS Water encourages the sustainable use of water. The

> > tnemevlovni s'nets A2 <</pre>

> Gardens – a significant investment

And then there is the blood, sweat and tears. landscaping, retail nursery, garden supplies and hardware. - sneha sround \$400m each year on our gardens Adelaide is a great place for gardening. South Australians

plants is a great start. water-wise gardening approach. Choosing mediterranean on our gardens. You can reduce this amount by using a About 40 per cent of Adelaide's household water goes But gardening in a dry place can use up a lot of resources.

bushland, farmland or a waterway. to become weeds, particularly if you live near native in your garden, consider whether they have potential When deciding which mediterranean plants to include

Mediterranean Garden > Making the most of the SA Water

garden you want, whatever that might be. show how water-efficient plants can help to create the that strikes a chord. This garden has been designed to something here in the SA Water Mediterranean Garden Whatever your garden might mean to you there will be

names of the plants that interest you so that you can geographical, physical and evolutionary variety. Note the have been selected to provide an intriguing display of There are more than 130 plant species around you that

- California
- southern South Australia and south-western Western Australia.

Hot, dry summers and mild, wet winters. Searing north winds carry the scent of the bush and a warning of the potential for fire. Sea breezes with a tinge of salt bring

The plants in this garden are from the five mediterranean

much awaited relief. These features are typical of a

Each of these five places is located between 30 and 45 degrees latitude on a west or southwestern coast with cold, offshore currents. These geographic conditions give mediterranean places a characteristic climate. They average roughly 25–100cm of rainfall a year which falls mostly in the winter and varies greatly from year to year.

The plants that live in these places are well adapted for climates just like southern South Australia: seasonally dry, with mild climates and frequent fire. Many of them have features that enable them to conserve water during dry times and take advantage of the rain when it falls.

As you discover the diversity, resilience and beauty of these plants, look at the forms that enable them to survive and thrive in their mediterranean landscapes. We hope that as you wander the garden you will learn about these plants and their environments, the connections they have with people from different cultures and how they can help us live more sustainably in our environment.

SA Water

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Photos courtesy of: Debra Jeisman, Colin G Wilson, Kate Blood, Sheryn Pitman.

SA Water

Printed on 100% recycled paper.



Showcasing the diversity, resilience and beauty of mediterranean plants

> Botanic Gardens of ADELAIDE



Botanic Gardens



AOUNT LOFT WITTUNGA

> An elemental connection

For many thousands of years, water and fire have shaped the landscapes and plants of the world's mediterranean regions. Let this garden guide you in exploring the variety of adaptations that have resulted from the impact of these elements. Look for features that help these plants survive.

> Water

Water is largely ephemeral in mediterranean landscapes - it falls, some soaks into the soil, some runs off, pools for a while and evaporates into dry air. Plentiful in winter, it can be scarce in the long, dry summer.

Plants have developed a range of features and adaptations to make the most of water. They include:

- waxy or hairy leaves
- leaves that are tough, with a thick coating
- leaf orientation to minimise sun exposure
- being drought-deciduous dropping leaves in dry times
- bulbs or other underground structures to store water
- reduced leaf area to decrease water loss
- completing their life cycle quickly annuals that survive summer as seed
- leaves pale in colour to reflect light and heat.

> Fire

South Australians are all too familiar with the effect of fire on landscapes, vegetation and wildlife. Although it can be devastating to our communities, fire is an essential feature of a mediterranean place. Mediterranean plants have evolved to survive and even thrive with fire.

Over time, repeated burning changes the types of plants and plant populations. Fire favours some plants. For instance, some plants produce seeds or seed-pods that require intense heat to trigger seed dispersal or smoke to promote germination.



Other plants are able to re-sprout after fire from substantial roots buried deep or from dormant buds protected by thick bark.

These plants are able to take advantage of the fertile, ash-covered soil and the lack of competitors

to thrive. There are instances where plant species thought lost have reappeared after bushfire.

> Scarcity, abundance and threat



The five mediterranean regions occupy less than five per cent of the earth's surface but contain almost 20 per cent of the world's total plant species. This biological diversity is second only to the tropical rainforests.

As well as being some of the most biologically diverse places in the world, mediterranean regions include some of the areas of greatest risk. Mediterranean plants dominate the rare or threatened plant lists. Over a third of Australia's rare and threatened plants are from the mediterranean zone.

Mediterranean environments are attractive places to live and so tend to suffer from land clearance for agriculture and urban development.

The often-linked problems of endangerment of native species and weediness of others are a continuing challenge. Many of our most serious weeds have come from other mediterranean places: blackberry, olive, boneseed, bridal creeper. Plants introduced here from other mediterranean zones can thrive in their new environment without natural predators, and pose a significant problem. Likewise, some Australian plants have become weeds in other mediterranean zones.

"A weed is a plant that is not only in the wrong place, but intends to stay." Sara Stein

> People, plants, culture



People have always relied on plants. The plants represented in the SA Water Mediterranean Garden are used for food, shelter, medicine, tools, adornment, and amusement. Many plant uses of today have been practised by human cultural groups for millennia.

Agave, aloe, carob, fennel, geranium, lavender, olive, poppy, rosemary, saffron, sage, salvia, thyme - some of our favourite herbs and spices are from the mediterranean regions.

Plants from mediterranean zones can become weedy when introduced into a place free from their natural predators.

> Did you know?

Nerium oleander, oleander, from the Mediterranean Basin, although a common garden plant is a plant to treat with extreme caution. The sap contains a powerful cardiac toxin if ingested. Its bitter taste means that poisonings are not very common though. It can also be a strong irritant to the soft tissues (eyes, mouth), so take care when pruning

In South Africa ailments such as coughs, colds and infections are treated with the licorice plant Helichrysum petiolare. This plant has its own built-in insecticide so makes a sweet bedding material.

In Australia, Eremophila, the emu bush, is used in traditional medicine to treat sore throats and respiratory infections.

> Garden design

The SA Water Mediterranean Garden has been carefully designed to illustrate the stories of mediterranean places.

Geographical drifts

Here you can see the plants in geographic groupings with a sense of their wild origin. The plants heights gently rise and fall in waves in varying shades of green, giving you a sense of a wild landscape.

Interpretive spine

The garden beds within the interpretive spine tell the stories of mediterranean plants, people and places.

Interpretive beds

The four interpretive beds each focus on one key theme of the SA Water Mediterranean Garden: fire; water; threats; plants, people & culture.

Diversity beds

In each of the diversity beds, you can see the plants grouped according to their country of origin. Each of the five mediterranean zones is represented and there is a bed called 'fusion', which contains plant cultivars bred from plants from each of these places.

Water rill

The central rill reminds us that water is central to our lives. It symbolises the transient yet pivotal role of water in the landscape and our lives. The garden design - particularly the water rill - is reminiscent of the gardens of the Alhambra Palace, built by the Spanish Moors around the 14th Century. Moorish garden

design emphasises the interplay of light and shade through moving water and the sacred principles of balance and cyclical movement in the universe.





Water

For further information about the SA Water Mediterranean Garden visit

Threat