Sustainable Gardening in the Shire of Yarra Ranges
Contact us

Shire of Yarra Ranges is committed to contributing to the achievement of sustainability within Yarra Ranges and promoting sustainability to others.

SHIRE OF YARRA RANGES COMMUNITY LINKS ARE LOCATED AT:

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Phone 1300 368 333
Monday to Friday 8.30am to 5.00pm (except public holidays)
Saturday 9.00am to 12.00pm (except public holidays)

276 Maroondah Hwy Healesville
Phone 5965 3501
Monday to Friday 9.00am to 5.00pm (except public holidays)
Saturday 9.00am to 12.00pm (except public holidays)

94 Main Street Monbulk
Phone 9756 7677
Monday to Friday 9.00am to 5.00pm (except public holidays)
Saturday 9.00am to 12.00pm (except public holidays)

40 Main Street Upwey
Phone 9752 6054
Monday to Friday 9.00am to 5.00pm (except public holidays)
Saturday 9.00am to 12.00pm (except public holidays)

2444 Warburton Highway (Cnr Hoddle Street) Yarra Junction
Phone 5967 2875
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Saturday 9.00am to 12.00pm (except public holidays)

SHIRE OF YARRA RANGES ENVIRONMENT DEPARTMENT:

PO Box 105 Lilydale Vic 3140
Phone 1300 363 333
Email mail@yarraranges.vic.gov.au
www.yarraranges.vic.gov.au
Sustainable Gardening Australia is a non-profit organisation dedicated to helping Australians to garden in an environmentally sensitive manner. SGA provides free advice on gardening practices and clearly identifies low environmental impact products. Our mission is to change the way all Australians garden, to ensure they are working with the environment while engaging in their favourite hobby – gardening! Find out how sustainable your garden is by visiting SGA’s website: www.sgaonline.org.au and follow the links on the home page to conduct your own sustainable garden audit. And while you are there, check out the free sustainable gardening information pages and garden forum.

This booklet was produced by the Shire of Yarra Ranges
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Indigenous plant nurseries in the Shire of Yarra Ranges

Choose a nursery close to your property to find a selection of locally sourced indigenous plants. Community nurseries are often run by volunteers and may not be open every day. Please phone ahead.

Australian Ecosystems (wetland revegetation)
Cnr Alan Bird Drive and Thompson Road, Bangholme
Phone: 9775 0612 (wholesale only)

Bushland Flora
110 Clegg Road, Mt Evelyn
Phone: 9736 4364 (wholesale only)

Candlebark Community Nursery
Croydon Golf Club Maintenance Compound, Dorset Road, Croydon
Phone: 9727 0594 / 0448 671 686

Chris Fletcher Nursery
58 King St, Yarra Glen
Phone: 9730 1517

Friends of the Helmeted Honeyeater Indigenous Plant Nursery
1217 Macclesfield Road, Yellingbo
Phone: 5964 8341 (business hours)

Grace Community Nursery
111 David Road Lilydale
Phone: 9739 4524

Healesville Plants
(SGA Certified Sustainable Garden Centre)
29-31 Chum Creek Rd, Healesville
Phone: 5962 5570 (wholesale only)

Kuranga Native Plant Nursery
(SGA certification in progress)
118 York Rd, Mt Evelyn
Phone: 9760 8100 (business hours)

Mt Evelyn Garden Centre
(SGA Certified Sustainable Garden Centre)
126 York Rd, Mt Evelyn
Phone: 9761 9688

Operation Revegetation
Koomba Pk Depot: cnr Mountain Hwy and Burwood Hwy, Wantirna
Ferntree Gully: behind Ferntree Gully Sec. College, Alma Rd, Boronia
Phone: 0428 102 148 (business hours)

Rosemont Nursery
(SGA certification in progress)
960 Mt Dandenong Tourist Rd, Montrose
Phone: 9728 2222

Southern Dandenongs Community Nursery
271 Mt Morton Road
Belgrave Heights
Phone: 9754 6962
This booklet recommends plants to assist gardeners in making appropriate choices to reduce the use of weeds in home gardens which have the tendency to escape garden boundaries. Indigenous plants to the Shire region are suggested first. When an indigenous option is not available, plants native to the greater Melbourne region have been offered. Plants in this booklet are largely selected based on their non-invasive characteristics and commercial availability for the home gardener.

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Pictured right: Love Creeper (Comesperma volubile)
Introduction

Sustainability has long been a goal of the Shire of Yarra Ranges and we are working hard to reduce our footprint on the Earth. In 2007, Council resolved to become carbon neutral. This contribution to tackling global warming further supports our community’s goals stated in Vision 2020 for an environmentally sustainable shire.

As we look to our future and achieve our goals, we cannot forget our history, culture and heritage. We are proud to acknowledge the Wurundjeri people, the original custodians of this land and their rich cultural heritage and spiritual connection to the land. We are committed to the ongoing process of Reconciliation. Part of respecting our land’s original custodians is to respect the land we live on.

Sustainable Gardening is one way we can do this. It is also a step towards reducing our ecological footprint. It is about maximising the benefits to our natural environment and reducing any potential negative impacts.

Gardening can improve the health of our environment – if we plant indigenous plants we provide food and shelter for native mammals, birds and insects.

By removing environmental weeds from our gardens, we can reduce their impact on bushland and roadside reserves. By reducing the amount of water we need to use in the garden we help preserve this precious resource. If we purchase garden products made from renewable resources we can help protect our old growth forests and river ecosystems.

‘Womin Je Ka. Turna Gee yerta’ means ‘Welcome to the Land’. The giving of a gum leaf symbolises the traditional Wurundjeri custom of ‘welcome people to country’.
Sustainable gardens can be introduced gradually, for example, when an exotic plant dies, replace it with an indigenous species. Sustainable gardens are low maintenance and lower cost, as they require less water, fertilisers and chemicals, and less mowing and pruning.

It is important in our community to have diverse and interesting gardens. It is also important to consider the origins of the products we use in our gardens and the impacts our purchasing decisions can have on other communities.

This booklet can assist you with creating a sustainable garden that fulfils your needs and desires while also providing a positive benefit to our Shire’s natural environment. It is part of an information series available from the Shire to help you protect and enhance your local environment.

Proceeds from the sale of this booklet will be reinvested in community based environmental education programs. We hope you find this booklet both informative and useful as you seek to further enhance our beautiful Shire in your own backyard.

Yarra Ranges Councillors and Staff

Below: Native Hop (Daviesia latifolia) grows naturally in the Shire of Yarra Ranges. It is a colourful and attractive garden plant that provides habitat for local wildlife.
Yarra Ranges Environmental Values

The Shire of Yarra Ranges is one of the most beautiful natural landscapes in Victoria. It makes up 51% of the Yarra Catchment, 10% of the Dandenong Catchment and hosts some of the most significant biodiversity assets in the State. This includes habitat for the two endangered State faunal emblems, Leadbeater’s Possum and the Helmeted Honeyeater, plus the State floral emblem, the Common Heath.

There are 46 different Vegetation Communities across the Shire with over 450 different indigenous plant species. While impressive, some of these plants are under threat from environmental weed invasion, drought, incremental land clearing and pollution.

Environmental weeds are an increasing and complex problem to manage. In 2005 the Shire developed a Weed Management Strategy to help address this problem. Many environmental weeds that invade our bushlands originate from gardens. As a result there are now over 200 weeds causing a problem in our Shire.

Weeds grow beyond garden fences and spread into neighbouring properties and surrounding bushland. They can quickly spread through large areas requiring a combined effort between landowners and agencies to control them. We all have a responsibility to control plants on our property, that are at best a neighbourhood nuisance, and at worst a serious threat to our bushland biodiversity.
Sustainable Garden Design

Many gardens today still maintain a traditional layout that stems from English or European gardens many years ago. This includes a paved area, large open lawn and flowerbeds of exotic plants around the outside. Today our busy lifestyles are preventing us from having time to spend enjoying and maintaining our gardens. Proper planning in advance can help you to create a garden that benefits your local environment, is easy to establish and maintain, and still looks great.

When you plan changes to your garden take some time to consider what elements you want in the garden (shed, washing line, kids’ play area, entertainment area), and what the features of your garden site are (sunny, slope, shade, privacy) and try to work them in with elements of a sustainable garden listed below.

Biodiversity protection and enhancement

The Shire of Yarra Ranges has some of the most important biologically diverse natural assets in Australia. It is home to all three of Victoria’s land based State emblems, including the Common Heath (flora), Helmeted Honeyeater (avifauna) and Leadbeater’s Possum (fauna). The Shire also contains critical habitat for many other threatened flora and fauna species.

TIPS TO PROTECT LOCAL BIODIVERSITY

:: Link or add to any existing indigenous vegetation.
:: Consider working with neighbours to link tree canopies especially in new housing estates.
:: Remove or at least control environmental weeds.
:: Recognise that native animals will be attracted to and flourish in indigenous gardens.
:: Retain dead trees for habitat value. Dead trees provide roosting sites and hollows for nesting.
:: Where required, plan for wildfire management while protecting biodiversity values.

Right: Native bees on a Copperwire Daisy (*Podolepis jaceoides*)
Water conservation and quality

With water resources increasingly limited, all garden designs should incorporate efforts to reduce demand for potable or ‘mains’ water for non-drinking purposes, and to improve the quality of water before it enters waterways.

TIPS FOR SAVING WATER IN THE GARDEN

:: Keep lawn areas to a minimum – lawns consume 90% of water used in Australian gardens.

:: Lawns can be replaced with porous paving, ground cover plants, gardens or outdoor structures such as playgrounds and gazebos.

:: If you retain your lawn consider watering with greywater (see ‘Greywater’ section, page 30).

:: Choose plants that have low water requirements once established – in most cases this will be indigenous plants.

:: Place plants that require more water (e.g. ferns) in cooler more shaded areas of the garden.

:: Group plants together according to their water requirements to make irrigation more efficient.

:: Use mulch (75–100mm recommended depth) or indigenous ground covers to reduce water evaporation off garden beds.

Below: Mulch protects roots and reduces water evaporation.
Where irrigation is required use drip lines or subsurface ‘weeper’ hoses, not micro-sprays which waste up to 70% of the water through drift and evaporation. Keep your system well maintained to avoid leaks.

Take account of all water restrictions in place and how or when your gardens may be watered.

For more information on water restrictions visit www.ourwater.vic.gov.au or contact your retail water authority:
Yarra Valley Water on 131 721
South East Water on 131 694

Below: Deep watering of trees/large shrubs delivers water slowly to the roots and encourages deep roots.

TIPS FOR CATCHING AND USING WATER ON-SITE

- Install a greywater tank and treatment unit for reusing household water for use in the garden (see ‘Greywater’ section, page 30).
- Use porous paving to allow for water infiltration into your garden, not stormwater run off.
- Consider integrating a water treatment system to help capture and purify stormwater (rain) or wastewater (septic) on site for reuse (see ‘Raingarden’ section, page 32).
- Incorporate a rainwater tank into your garden to collect water off your roof for watering gardens, washing cars, fighting bush fires or toilet flushing. Rainwater tanks now come in a wide range of designs and colours to suit diverse needs.
How to size a tank for your home

You need to consider variations in monthly rainfall and water use between the seasons to purchase a tank size to suit your needs.

To calculate your catchment area for a rainwater tank, you need to know your roof area for proposed collection and average rainfall for your area.

For rainfall information visit: www.melbournewater.com.au

For every 1mm of rain on 1m² of roof = 1 litre

Example: 150m² roof area with monthly rainfall of 50mm

150 x 50 = 7,500 litres over that month

To further reduce your consumption of drinking water supplies, you can plumb your rainwater tank directly to your toilet for flushing. An average household uses 15% of its water consumption per year for toilet flushing.

For more information on water saving devices visit:
Green Plumbers  www.greenplumbers.com.au
or your local water retailer:
Yarra Valley Water  www.yvw.com.au
South East Water  www.southeastwater.com.au

Minimising energy requirements

Reducing the energy requirements to establish and maintain a garden is most effective if done at the planning stage, leading to a well maintained and enjoyed garden.

Energy requirements come in many forms:

:: human labour to mow lawns, water plants, apply fertilisers and herbicides;

:: petrol or electricity to run mowers and whipper-snippers;

:: electricity to run pond pumps, lighting, leaf blowers;

:: energy costs involved in producing and using herbicides or fertiliser; and

:: transport of garden products long distances.
TIPS TO REDUCE ENERGY REQUIREMENTS

:: Keep lawn areas to a minimum – they require a lot of energy (water, fertiliser, mowing) in their establishment and continual maintenance.

:: When creating new lawns use grass seeds, not instant turf which uses large amounts of water and fertilisers to “manufacture” and establish in your home garden.

:: Use locally available products to reduce transport energy costs and to keep with the local character. Avoid river pebbles harvested from Asia or Merbau timber decking from Indonesian rainforests.

:: Choose plants that are not weedy and will not require on-going intensive maintenance, including human labour to mow or prune and herbicides to control.

:: Select plants and planting arrangements that contribute to the solar efficiency of buildings by providing shade in the summer and allowing sun through in the winter.

:: Install solar lighting for garden paths, outdoor areas and solar powered pond pumps.

Sustainable purchasing

The Shire of Yarra Ranges is committed to the principles of sustainability. Landscape designs on private property need to account for environmental sustainability by:

:: using materials produced from renewable resources: mulch, garden sleepers, decking materials, stone/recycled brick (see pages 57–58);

:: using materials that are locally sourced so do not carry high transportation costs to the environment; and

:: selecting plants and built features that conserve water and treat stormwater runoff.

Wildfire management

If your property is located in a potential bushfire area you will need to appropriately manage the vegetation in the garden around your home. Proper planning in the design phase of your garden can provide the appropriate mix of elements required to save your house while protecting the biodiversity values of your property. Please seek additional advice on how to manage your vegetation if your garden is connected to a bushland area (see ‘Further Information’ on page 10).
TIPS TO REDUCE FIRE RISK

:: Design breaks to vegetation (gravel driveways, pathways) around your house to separate areas of fuel to slow the spread and speed of the fire and reduce the level of heat.

:: Graded or ploughed breaks disturb soil which encourages weeds or causes soil erosion so consider other ways of creating low-fuel areas, such as permeable paving or slashing.

:: Consider the building location in relation to prevailing summer winds, as this indicates the most likely direction from which a bushfire may come.

:: Ensure good access to water for firefighting. This may mean incorporating a water tank into your garden, ensure all above-ground water fittings are metal ones and ensure you have adequate hose length to water down your garden. If a fire threatens your property, water restrictions are waived to allow residents to defend their homes. Keep plants well-watered and moist as this can reduce how easily a plant will become fuel for a fire.

:: Remove existing weeds and do not introduce new ones into the garden as weeds often contribute to high fuel loads that feed fires.

:: Do not plant large shrubs and trees too close to buildings (within 2m) as the radiant heat from burning trees can shatter windows and cause materials to self combust. Trees may also drop limbs and send the fire over the building.

:: Along natural watercourses plant indigenous vegetation suited to the local waterway – these areas naturally retain moisture and can be less fire prone.

:: Remove fine fuels such as twigs, leaves and bark, from around your house, including your roof and gutters. These fine fuels burn very easily and assist the fire in spreading quickly.

“You should not rely on published lists of ‘fire-retardant’ or ‘hard to burn’ plant species. Many of these lists are out of date and advocate plants that may have little impact on the safety of your home. Some of these plants are also weeds.”

CFA References: Managing vegetation around your home brochure, Living in the bush bushfire survival plan workbook.

FURTHER INFORMATION

Ramsay, C. & Rudolph, L. (2003), Landscape and Building Design for Bushfire Areas, CSIRO Publishing
CFA brochure Building in a Wildfire Management Overlay applicants kit
CFA: www.cfa.vic.gov.au Phone: 9262 8444
Garden Design Examples

Using indigenous plants in your garden does not mean that you cannot enjoy the latest garden styles. Following are some ideas that can be adapted to suit a range of designs sustainably.
Cottage gardens

The cottage garden look is easily achieved with indigenous plants but unlike the traditional cottage garden, this garden can look interesting and colourful all year round because many indigenous plants flower in winter. And this cottage garden is water wise too. Tall Blue-Bells (*Wahlenbergia stricta*) look stunning growing with the Clustered Everlasting (*Chrysocephalum semipapposum*).

1. **Tall Blue-Bells (*Wahlenbergia stricta*)**
   (30cm x 50cm)
2. **Black-anther Flax Lily (*Dianella revoluta*)**
   (50cm x 1.5m)
3. **Clustered Everlasting (*Chrysocephalum semipapposum*)**
   (50cm x 1.5m)
4. **Cut-Leaf Daisy (*Brachyscome multifida*)**
   (20cm x 50cm)
5. **Common Correa (*Correa reflexa*)**
   (60cm x 1.5m)
6. **Rock Correa (*Correa glabra*)**
   (1.5m x 1.5m)
7. **Common Tussock Grass (*Poa labillardierei*)**
   (50cm x 1.2m)
Formal gardens

There are many indigenous plants that can easily be grown into neat clipped hedges and shapes to complement the straight lines of a formal garden. A formal garden requires a bit more maintenance but at least the plants chosen can be water wise and more suited to the local environment and Australian climate. Here a hedge of Rock Correa (*Correa glabra*) is grown in front of a taller hedge of Dusty Miller (*Spyridium parvifolium*), which is against a brick wall. Straight paths intersect in front and a large urn filled with Running Postman (*Kennedia prostrata*) greets amblers.

1. **Dusty Miller** (*Spyridium parvifolium*) (1.5m x 1.5m)
2. **Rock Correa** (*Correa glabra*) (1.5m x 1.5m)
3. **Hop Goodenia** (*Goodenia ovata*) (1.8m x 1.5m)
4. **Common Correa** (*Correa reflexa*) (60cm x 1.5m)
5. **Running Postman** (*Kennedia prostrata*) (10cm x 2m) growing in an urn
Japanese gardens

The sculptural and often minimal look of a Japanese Garden creates a quiet, thoughtful place. There are many indigenous and native plants that work very well in this style of garden and sit beautifully with Japanese sculptural elements. Here, for example, clumps of the Common Tussock Grass (*Poa labillardierei*) look dramatic in a gravel garden with feature rocks. A single specimen shrub, Large-leaf Bush-pea (*Pultenaea daphnoides*) is a striking sculptural element. If using water features consider using rainwater, not drinking water, to keep them refreshed and topped up.

1. **Common Tussock Grass** (*Poa labillardierei*)
   (50cm x 1.2m)

2. **Kangaroo Grass** (*Themeda triandra*)
   (40cm x 80cm) lawn

3. **Large-leaf Bush-pea** (*Pultenaea daphnoides*)
   (2m x 2–3m)

4. **Rock Correa** (*Correa glabra*)
   (1.5m x 1.5m)
Informal bush gardens

The famous Australian bush garden has a relaxed easy-care feel about it. A meandering path allows for surprises to be created around corners. These gardens are a haven for wildlife and a great refuge for humans. And with a bit of planning, you can ensure there is something in flower just about all year round. Remember to keep low-growing plants close to path edges, and medium and taller plants behind them.

1. **Black Sheoke** (*Allocasuarina litoralis*)  
   (8m x 4m)
2. **Golden Wattle** (*Acacia pycnantha*)  
   (8m x 3.5m)
3. **Black-anther Flax Lily** (*Dianella revoluta*)  
   (50cm x 1.5m)
4. **Common Tussock Grass** (*Poa labillardierei*)  
   (50cm x 1.2m)
5. **Austral Indigo** (*Indigofera australis*)  
   (1.5m x 1.5m)
6. **Dusty Miller** (*Spyridium parvifolium*)  
   (1.5m x 1.5m)
7. **Tall Blue-Bells** (*Wahlenbergia stricta*)  
   (30cm x 50cm)
8. **Clustered Everlasting**  
   (*Chrysocephalum semipapposum*)  
   (50cm x 1.5m)
Water features

There are a huge variety of plants that belong in the category of water plants. Some like to be in water all the time, like Common Nardoo (*Marsilea drummondii*) but others prefer only boggy conditions, like Tall Sedges (*Carex appressa*) and in fact many cope with summer drought.

Water features vary from formal constructed ponds, which can be very costly, through to naturalistic streams and ponds that can be relatively cheap to build. Both types can be suitable for a variety of water plants. With a bit of extra planning a water feature can become a ‘frog bog’ and attract frogs to your garden to control mosquito populations and provide a night time chorus (see ‘Frogs’ section, pages 22–24).

Below: This natural water feature is easy to create, and once established with a variety of plants, is easy to maintain.
Gardens for Wildlife

Attracting native animals to your garden can add extra colour and interest. It can assist pest control by attracting insect predators, and can also contribute to keeping animal populations viable by providing integral links for wildlife to commute between bushland areas. All you have to do is provide your garden visitors with natural sources of food, water and shelter.

Beware: supplementary feeding of birds and other native animals can cause dependency, health problems and create imbalances in wildlife numbers.

Below: King Parrot feeding on Acacia seed pods.  

Photo: Marty White (SYR)
Birds

Birds are beautiful creatures that are a joy to watch in any garden. In addition, because many birds feed on plant pests such as aphids and scale they also contribute to non-chemical pest control in the garden! To attract birds to your garden consider the following points.

Shelter

Birds need shelter from predators such as cats, foxes and predatory birds. By providing prickly or dense plants at various levels in your garden, and particularly near water sources, you can help protect your feathered visitors.

Water

A reliable water source, particularly in summer and most especially in drought will attract birds to your garden. If you install a birdbath place it near dense or prickly plants to provide birds with protection from predators.

Food

Feeding stations are not recommended as a way of attracting birds. Use native plants as an alternative to avoid creating dependency, which can impact on their long term survival in the wild.
Small birds
Silvereyes, Wrens, Finches, Fantails and Thornbills forage in the lower levels of the garden feeding on insects and helping to keep your plant pest numbers down. Native grasses such as Common Tussock Grass (*Poa labillardierei*), Kangaroo Grass (*Themeda triandra*) and Wallaby Grass (*Austrodanthonia* spp.) attract insects to the garden, as do a variety of plants such as Paperbarks (*Melaleuca* spp.), Teatrees (*Leptospermum* spp.), Wattles (*Acacia* spp.), and daisies such as Clustered Everlasting (*Chrysocephalum semipapposum*) or Cut-leaf daisy (*Brachyscome multifida*).

Honey Eaters
Birds such as Honeyeaters, Red Wattlebirds and Spinebills are specialist nectar feeders. They use their brush-like tongues to collect nectar from the flowers of Grevilleas (*Grevillea* spp.), Paperbarks (*Melaleuca* spp.), Correas (*Correa reflexa* or *C. glabra*), Banksias (*Banksia spinulosa* or *B. marginata*) and Kangaroo Paws (*Anigozanthus* spp.). These birds also like to eat insects as a source of protein.

Parrots
Crimson and Eastern Rosellas feed on Eucalypt flowers and seeds, while Cockatoos and Galahs prefer the seeds of Hakeas (*Hakea nodosa*), Callistemon (*Callistemon sieberi*) and Eucalypts (*Eucalyptus radiata* or *E. ovata*). Red-rump Parrots feed on grass seeds.

Large birds
Magpies, Kookaburras and Butcher Birds feed on larger insects, frogs and small lizards. Creating a garden with small shrubs, leaf / bark litter and logs provides habitat to encourage these creatures who then support the diets of large birds.
Butterflies

Butterflies are a welcome addition to any garden, and with a few simple design principles are easily attracted, adding movement and colour to your garden.

Nectar traps

Colourful, massed beds draw butterflies in and keep them happily moving through the garden. They particularly like blue, yellow and red, but are attracted to a large range of colours, with bold clusters of flowers more effective than single plants dotted through a garden.

Flowers

The shape of the flower is important too, with simple, flat flowers easier for butterflies to extract nectar. Double flowers with their multiple petals are too complex. But native Daisies, Pelargoniums (*Pelargonium australe*), Bluebells (*Wahlenbergia stricta*), Saltbush plants (*Atriplex cincerea*), and Pea flowers (*Bossiaea prostrata* or *Platylobium obtusangulum*) are especially useful.

Position, position, position

Butterflies use the early morning sun to warm themselves and retreat to cooler, shadier places during the heat of the day. Providing a sheltered position that combines warmth and protection is ideal. Also consider adding flat rocks for butterflies to bask and to court each other. Mud puddles or a dish of damp sand can provide them with water and salts.

Host plants

Incorporate host plants for the butterfly to lay her eggs. The caterpillars are generally small and shy, and won’t devastate the garden. Popular indigenous plants include Bursaria (*Bursaria spinosa*), Sedges (*Gahnia sieberiana*) and Mat Rush (*Lomandra longifolia*), and grasses such as Kangaroo Grass, Wallaby Grass and Common Tussock Grass.
Lizards

Most lizards we find in our garden are little grass skinks that feed on insects and larvae. You may be fortunate enough to encounter a larger lizard such as a Blue-tongue or even a Lace Monitor, but these beautiful creatures are not as common as they used to be.

To create lizard habitat in your garden, provide the following:

- tussock grass and hiding spots of rocks and logs for protection;
- a protected sunny spot on a rock, log or brick path; and
- natural leaf mulch to support insects and larvae they feed on.

Above right: This rock retaining wall with Running Postman (*Kennedia prostrata*) rambling through it could be a great place for lizards to bask or hide, especially if there are gaps under some of the rocks.

Below: Blue Tongues aren’t poisonous, they just have a blue tongue to frighten attackers, and they like to eat insects, snails and juicy plants.
Frogs

What could be more interesting than frogs in your garden? Watching tadpoles grow into frogs and then being serenaded by their calls at night. Frogs also help control pests in your garden as they eat flies, mosquitoes, slugs, snails and even spiders.

In order to enjoy frogs in your garden you will need to provide a frog bog or semi-permanent pond with certain features, but you’ll also need to live near a frog population to attract them from.

Frog bogs are easy to create in heavy clay soil. Even more so if a depression is dug in an area of the garden that is already wet during winter. This will trap even more water and when planted with suitable plants these areas make great habitat for frogs.

Frog bogs are designed to dry out in summer, but there will usually be enough water below ground to keep the plants green and quite lush during dry times. Australian frogs have evolved with summer drought, so they find places to hide during drier periods.

Below: Striped Marsh Frogs can be a common sight in your garden if you provide suitable habitat and avoid chemicals.
A frog pond can incorporate one or all of the requirements for each part of the frog’s lifecycle:

:: damp bog zone for adult frogs;
:: shallow water zone for laying eggs; and
:: deep zone of at least 30cm for tadpoles.

Your frog pond should also have the following:

:: soft, thick vegetation that droops into the water, for shelter and protection;
:: rocks, logs, bark and leaf litter;
:: mostly shade;
:: sloping sides for frogs to crawl out;
:: be made from non-toxic materials (Concrete ponds will need to be sealed and plastic ponds be made of food-grade plastic); and
:: food plants for tadpoles (and they will eat them, so don’t put in your prize water plant).
Frog-friendly plants include the following:

**Grasses**
- Kangaroo Grass (*Themeda triandra*)
- Weeping Grass (*Microlaena stipoides*)
- Wallaby Grass (*Austrodanthonia* spp.)

**Tufting plants**
- Kangaroo Paw (*Anigozanthus* spp.)
- Black-anther Flax-lily (*Dianella revoluta*)

**Bog plants**
- Soft Water Fern (*Blechnum minus*)
- Thatch Saw-sedge (*Gahnia radula*)
- Knobby Club-rush (*Isolepis nodosa*)
- Grassy Mat-rush (*Lomandra confertifolia*)
- Tassel Cord Rush (*Restio tetraphyllus*)

**Water Plants**
- Common Nardoo (*Marsilea drummondii*)
- Tassel Sedge (*Carex fascicularis*)
- Jointed Twig-rush (*Baumea articulata*)
- Water Ribbons (*Triglochin procerum*)
- Common Reed (*Phragmites australis*)

Here are some things to avoid:

- Most fish will eat tadpoles;
- Tadpoles and eggs can be killed by fountain pumps;
- Cats and dogs – protect the frog area of your garden with dense or spiky plants that will deter them;
- Pesticides and herbicides – frogs eat insects, so you don’t want to spray them. Frogs are also very sensitive as they absorb moisture and oxygen through their skin, and the chemicals they may contain. For this reason, you should not handle frogs;
- Fertiliser runoff will pollute the pond water;
- Allowing duckweed or Azolla to cover the top of the pond will reduce the oxygen available to the tadpoles; and
- Cleaning out the pond too often – tadpoles need some material to be breaking down in the pond water to provide food for them.

Collecting tadpoles from the wild is illegal – same rule for all native animals and plants.
Other wildlife friendly practices

- Maintain dead trees as they provide hollows for nesting or incorporate nest boxes if you don’t have suitable hollows.

- Reducing the use of pesticides in the garden will provide insect eating wildlife with a safe food source.

- Securing cats and dogs, especially at night, so they don’t prey on native animals. Work with your neighbours to make sure they also secure their cats and dogs. The Shire’s cat curfew is from 8pm (9pm daylight savings) until 6am.

- Keep the telephone number of a wildlife rescue service handy and plug it into your mobile phone. RACV will connect you to the nearest relevant wildlife rescue service wherever you are in Victoria (Ph: 131 111).

- You don’t need to (and shouldn’t) provide shop bought / food scraps for wildlife. You can have a close encounter using nest boxes and water sources (e.g. birdbaths).

Above left: skink Right from top: Gang-gang Cockatoos enjoying a bird bath, echidna, Sword-grass Brown Butterfly and bat box

FURTHER INFORMATION

Shire Community Links – visit the nest box displays
Vegetation Regulations

In the Shire of Yarra Ranges there are hundreds of Shire reserves and roadsides which have a cover of remnant bushland. Sometimes the roadsides contain the last fragments of bush, after clearing for towns, roads and farming. These areas can form habitat links between larger patches of bush and are a valuable source of seed for revegetation.

The loss of areas of remnant vegetation leads to the following:

:: the decline of natural ecological systems through the loss of wildlife habitat and depletion of the genetic diversity in plants and animals, which makes them more susceptible to attack and disease; and

:: reduced agricultural production, nutrient loss, soil erosion, silting, and pollution of waterways.

The Shire has a ‘Code of Environmental Practice for Works on Council Managed Land’ which contains practical guidance for Shire staff, contractors and residents. This is available on the Shire’s website under the Environment section.

The Shire of Yarra Ranges and its community have placed a very high value and protection controls on the natural vegetation on both government and privately owned land within our Shire, which are stronger than statewide planning controls. For this reason there are vegetation protection measures laid out in Local Planning Provision 22.12 in the Yarra Ranges Planning Scheme.

This means that all plant species that are indigenous to an area require a permit to remove, lop or destroy them, regardless if it is a huge Mountain Ash or a Kangaroo Grass tussock.

If the plant is native to Australia (but is not indigenous to the area in question) or is an exotic species and is over 5 metres in height, a permit is also required to remove, lop or destroy it.

If the plant is listed as an environmental weed in the Shire’s Planning Scheme or is a State listed noxious weed, there is no permit requirement to remove, lop or destroy the plant. A list of Environmental Weeds in Yarra Ranges is found on pages 50–51 or on the Shire website. Current noxious weed lists can be found on the Department of Sustainability and Environment website (www.dse.vic.gov.au).

All land owners are required by law to remove and/or control noxious weeds on their land. Penalties exist for not doing so.
Note: If the area in question lies in a Medium 2 or High landslide zone, no vegetation removal or earthworks can take place without a permit. Land in these landslide zones needs to be carefully managed to reduce the risk of a landslide event occurring.

With these regulations come several exemptions where a permit may not be required, however the exemptions are very specific. To avoid a fine, contact the Shire’s Environmental and Planning Compliance Department prior to any vegetation removal. Phone 1300 368 333 (24 hours a day, 7 days a week).

These are some of the biggest threats to our natural environment:

:: illegal clearing (often incremental, one tree here and another there) of indigenous vegetation which is a breach of the Planning Scheme;

:: illegal earthworks where cleared land can allow weed invasion or damage tree roots which could cause their death; and

:: illegal dumping, especially of green waste, which may contain weeds.

If you see any of these illegal actions taking place, please contact the Environmental and Planning Compliance Department and make a confidential report.
Caring for your soil

Healthy soil = healthy plants. Soil needs organic matter (leaf litter, compost, manure, grass clippings). Worms break down organic matter to make food for plants, and worm burrows allow air into the soil so that plant roots can breathe. Organic matter needs to be replaced as plants absorb nutrients. If organic matter is not added, the soil becomes hard, like concrete, in the summer and a sticky mess in the winter. In addition, most people want a low maintenance garden. This is much easier to achieve if you look after your soil.

SOIL IMPROVEMENT TIPS

:: Soil should be damp before you add mulch, generally spring is the best time to apply mulch, once the winter rains have soaked in.

:: Spreading compost over your soil (before mulching) will encourage worms in your garden. Pea straw and Lucerne are good options if you have not mulched the soil for a long time as they break down quickly, returning nutrients to the soil – excellent for the veggie garden! Bark mulch has very few nutrients so don’t rely on it to improve your soil.

:: Mulches made from recycled organics are an excellent choice as they save water, are long lasting and feed the soil when they break down. Mulch should be applied 50–75mm deep, and will need to be topped up every year. Avoid mulch from rare forest types like Red Gum or Jarrah.

:: Soil improvement (such as pea straw placed on the soil surface) is generally only required for exotic plants, vegetables and fruit trees. Most local and native plants like a relatively infertile soil so they prefer a bush mulch or recycled timber mulch on its own without soil improvement.

:: When buying new soil for your garden don’t just buy topsoil, buy a soil that is mixed with recycled organics or compost.
Don’t cultivate your soil unless it is very compacted after building works. Digging destroys the soil structure, which thereby destroys air holes and drainage spaces.

When watering use a trigger hose with a spray setting so as not to compact the soil as the water hits. The concentrated pressure of the water stream can close up valuable air spaces.

Composting kitchen scraps and waste, grass and garden clippings, or using a worm farm provides an excellent source of free garden food and soil improver. Composting also reduces greenhouse gas emissions, saves water and dramatically reduces waste going to landfill.

Below: The benefits of mulch

FURTHER INFORMATION
For more information on composting and worm farming, visit the Sustainable Gardening website information pages at: www.sgaonline.org.au/infopages.html or the Shire’s dedicated composting website: www.yarraranges.vic.gov.au/upload/munchy/index.htm
www.sustainability.vic.gov.au
Greywater Reuse

Greywater is domestic wastewater, excluding toilet waste. The best quality greywater comes from the rinse water of your washing machine, bath, shower or hand basin. Toilet and kitchen wastewater should always go to sewer or onsite septic. Untreated greywater can be diverted on a temporary basis to sites within your backyard. However, the continual discharge of greywater can potentially cause problems for your garden if not managed.

Greywater can contain a number of micro-organisms such as bacteria and viruses as well as chemicals from cleaning agents, so be careful to follow the tips recommended below. A level subsurface trench is one option for applying diverted greywater. Slotted stormwater pipe placed in the trench, and covered with gravel assists in conveying the water along the length of the trench. An alternative is to collect greywater in a bucket and apply the water to areas of greatest need.

DOs

:: Divert only low risk greywater such as bath, shower, hand basin or final rinse water of washing machine.
:: It is preferable to apply greywater below the ground surface. An irrigation system specific for greywater is most suitable.
:: Only use low phosphorous detergents.
:: Avoid powdered detergents as they contain large volumes of salts, which can affect the salinity in your garden soil.

DON’Ts

:: Do not divert kitchen wastewater as this has high levels of contaminants.
:: Do not divert greywater with any blood or faecal contamination, such as water used to wash soiled nappies.
:: Do not water vegetables for human consumption with greywater.
:: Do not allow greywater to pool or stagnate as this will cause odours and attract pests.
:: Never store untreated greywater – it must be used within 24 hours.
:: Avoid piping greywater into existing irrigation systems as it may cause blockages. Consider setting up a filtration system to remove lint and other
particles that will block an existing system or check with irrigation suppliers on suitable irrigation systems suitable for greywater.

:: Route greywater to areas that will prevent children and pets coming into direct contact.

:: Never allow greywater to enter the stormwater system or neighbouring properties.

Blackwater is domestic toilet waste. In many residences in Yarra Ranges, along with greywater, it is piped into the trunk sewerage system for treatment and disposal; while some is treated in backyard septic systems. It is important for residents to maintain their septic systems. Systems should be pumped out and serviced by a professional every 3–5 years. Leaks add nutrients to stormwater runoff which suits weed growth (native plants prefer low nutrient environments) and can be a public health issue. The runoff can also cause die back of our magnificent Mountain Ash trees, destroying old areas of forest. As explained above the greywater component can also be diverted as a resource.

Since 1988, the Environment Protection Authority (EPA) regulations require all wastewater to be contained and treated on site by approved septic systems. Systems installed pre 1988 are still permitted to discharge untreated greywater off site, however, this practice is causing damage to our local environment and should be prevented. Check your system – when was it installed? Last serviced? Seriously consider upgrading it to protect your local environment and your own health.

If you are considering reusing your greywater as a garden resource, you should contact the Shire’s Public Health team for guidance or advice.

For more information on greywater re-use, including case studies from around Melbourne, visit: www.museum.vic.gov.au and search “Gardening”.

For more information on choosing greywater friendly laundry detergents visit: www.sgaonline.org.au/info_greywater_update.html

The images above are reproduced courtesy of Museum Victoria.
Raingardens

Raingardens have water directed into them from a downpipe or paved area. They are designed to slow down rainfall during a rain event, but do not form a wetland or frog bog. By using a free-draining sand, water is able to flow through the system at a fairly rapid rate which cleans the water and avoids flooding. By slowing down the speed of the water, the filter media and plants used are able to assist with removing pollutants which would normally pass directly into our drains and local streams. Additionally the plants will also provide habitat for native fauna such as birds and butterflies. Keeping rain where it falls by putting it into a rain-garden is a simple solution to stormwater pollution and is part of making your home water-sensitive.

How do I create a raingarden?

Raingardens can be created to look or feel however you would like your garden to look or feel. For instance they can be built as raised beds or excavated at ground level. When it rains, the water is directed from hard surfaces, such as a roof, guttering or paved areas into the raingarden, where the free-draining sand (as outlined in the diagram below) and your plants are able to remove and trap pollutants from the water, and will over time, naturally break these down (decompose). The water then passes into an agi-pipe at the base of the raingarden, allowing the cleansed water to flow into the stormwater and waterway system safely.

Left: How a raingarden works.

Note: If your raingarden abuts a wall of your house, ensure that you use an impermeable barrier to prevent water seepage under your building.
Note: A raingarden must have an overflow pipe to reduce the risk of localised flooding in the event of a major storm or downpour. If you find that water is left sitting or pooling on the surface of your raingarden, particularly after rain has stopped, then your system is not working correctly and may need re-setting – it should be free draining.

A wide range of native plant species are suitable for rain-gardens. When choosing plants for your raingarden make sure they have the following qualities:

:: tolerate short periods of inundation followed by longer dry periods;
:: have spreading rather than clumped growth forms;
:: are perennial rather than annual;
:: have deep fibrous root systems; and
:: would form understorey if grown with shrubs and trees.

TIPS TO HELP YOUR RAINGARDEN MATURE AND FUNCTION WELL

Raingardens are low maintenance especially when planted with native plant species. They don’t need to be watered, mowed or fertilised. However these few simple tips can help your raingarden to mature and function well:

:: If it doesn’t rain, water your new garden until your plants have established (usually the first year or so);
:: Raingardens need to be mulched with rocks and pebbles. Organic mulch is not suitable as it can simply float away in heavy rain! The fine material in organic matter can also cause the agi pipe to block, so the system won’t work properly;
:: Weed where necessary;
:: Reduce fast flowing water over your garden to limit erosion during heavy rainfalls, by keeping your raingardens flatter or in a depression as opposed to a steep garden bed;
:: Inspect your garden regularly – replace plants and repair erosion in your garden when necessary; and
:: Don’t park, drive over or squash your raingarden. If your raingarden is squashed (compacted), water will no longer freely move through it.

For more information on water treatment systems such as ‘raingardens’ visit: www.melbournewater.com.au/wsud

Above: Kangaroo Grass (Themeda triandra) is just one of the many plants that are suited to a raingarden environment.

Above:
Using Pesticides, Herbicides and Fertilisers

Chemicals and fertilisers can be transferred from our home gardens to the natural environment. Chemical sprays can drift in the wind and powders can wash into waterways. Strong chemicals can kill native insects, plants and animals. The application of too much fertiliser can lead to extra nutrients in our waterways, contributing to blue-green algae outbreaks that can harm native animals, stock and sometimes people.

TIPS FOR SAFER CHEMICAL USE

:: Prevention is better than cure! Check your garden regularly for pest and disease outbreaks. If problems are spotted early enough you might be able to avoid chemicals altogether.

:: Many insects in the garden such as ladybirds are ‘good guys’ that will eat pests such as aphids. If you over use chemicals in your garden you may also kill beneficial insects and make your pest problem harder to control. Multi-sprays will kill anything they touch.

Below: A Silver Tussock Moth caterpillar on Running Marsh-flower (Villarsia reniformis).
Use natural alternatives such as pyrethrum and garlic spray to control pests.

Too much fertiliser makes plants produce a lot of leafy growth that often becomes a target for pests.

Organic fertilisers such as compost, manures, seaweed and fish emulsion break down more slowly than synthetic (chemical) fertilisers and generally match the rate at which plants need the nutrients. Synthetic fertilisers break down quickly and can ‘burn’ plant roots.

Organic fertilisers (such as blood meal, fish emulsion and manure) improve soil structure while synthetic fertilisers (such as ammonium sulphate, ammonium nitrate and urea) add nothing to the soil structure and tend to move easily from the soil after heavy rain or watering.

When a plant looks sick the worst thing you can do is feed it!

Clean your secateurs between pruning plants, to prevent the spread of disease.

Know exactly what pest or disease you are trying to control, as this will help you target the specific pest only.

Don’t use chemicals on windy days or before it rains. It will be a waste of your time and money, and the chemical is also likely to end up in waterways or drifting around the neighbourhood.

Above: A Spotted Marsh Frog (left) and a Southern Brown Tree Frog (right) found in domestic gardens. (Note: it is not a good idea to handle frogs in this way as there may be a risk of infection to the frog from your skin.)
Plant Selection

Careful plant selection can be the key to creating a sustainable garden that enhances your local environment, provides the desired look and function of your garden and has a maintenance regime suitable to your lifestyle.

We recommend you visit the indigenous and community nurseries in the Shire to get good local advice on plant selection (see list on page iii).

Local markets and community fetes can be a good inexpensive source of indigenous plants but be aware that these sellers are unregulated and may not have the most current information on what plants are weeds and are suitable for sale. Indeed, by their very nature, weedy plants are easy to propagate and grow and make easy options for home propagation for sale at local markets.

As with purchasing in nurseries, we recommend you take this booklet along to markets and fetes when you are planning to purchase plants, just to be sure your bargain is not at the expense of the environment.
THINGS TO CONSIDER WHEN CHOOSING PLANTS

:: Is it a known environmental weed in the Shire of Yarra Ranges? Many weeds are originally planted as garden plants and many are still available for sale. Take this booklet to the nursery with you when choosing plants and use the list of environmental weeds on pages 50–51 as a reference.

:: Is it an indigenous plant to the Shire of Yarra Ranges? The use of indigenous, or locally native, plants is strongly encouraged as they will increase the environmental value of any garden and reduce the effort you need to invest to make your garden a success. This booklet will serve as a preliminary reference for planning your plant list. For a more detailed indigenous plant list please contact the Shire’s Environment Department or visit our website.

:: Is it low water use? While all plants take some watering to become established, choose plants that do not require ongoing intensive watering. Double check these against the weed list keeping in mind many Mediterranean plants sold as water wise can also be weedy.

:: Does it provide the function you want it to? Do some investigation into the mature size and shape of a plant to determine it’s most appropriate placement and if it will provide the right function (screening, bird-attracting, feature etc.) Visit the Shire’s Kawarra Australian Native Plant Gardens in Kalorama for great ideas. Also take into consideration the seasonality of a plant as the ability of it to provide that function may change throughout the year. Try and select a range of plants that will provide fast and slow growing components to your garden to provide a more immediate as well as a long-term effect.

:: Is the plant suited to the site’s environmental conditions? For example, is it shade tolerant, does it require full sun, what type of soil is it best suited for; can it handle water logging or long periods of drought? There are indigenous plant options available for all situations.

Left: The gorgeous flowers of Grevillea ‘Misty Pink’ and Eucalyptus ‘Silver Princess’

Above right: Sweet Bursaria (Bursaria spinosa) in a hedging trial. With a bit of creativity, many indigenous plants can be used successfully instead of introduced species.
Indigenous Plants Guide

The following list of plants provides a small snapshot of the range suitable for Yarra Ranges gardens, as they grow within the Shire naturally and provide habitat for native wildlife. Indigenous plants are also the most waterwise plants for your garden as they have adapted to the local climate and soil conditions so require less maintenance. See the list of nurseries stocking indigenous plants on page iii.

Groundcover and Tussock Species  \((H \times W)\)

Common Tussock-grass  
\((Poa labillardierei)\)
(50cm x 1.2m)
Flowers Spring–summer

Kangaroo Grass  
\((Themeda triandra)\)
(40cm x 80cm)
Flowers Spring–Summer

Bulbine Lily  
\((Bulbine bulbosa)\)
(40cm x 30cm)
Flowers Spring–Summer

Some of these plants provide habitat for:
- butterflies
- birds
- frogs
- lizards

3 8

Sustainable Gardening in the Shire of Yarra Ranges
Purple-Coral-pea  
(*Hardenbergia violacea*)
(10cm x 2m)
Flowers Spring–Summer

Black-anther Flax-lily  
(*Dianella revoluta*)
(50cm x 1.5m)
Flowers Spring–Autumn

Bidgee-widgee  
(*Acaena novae-zelandiae*)
(10cm x 2.5m)
Flowers Summer

Kidney Plant  
(*Dichondra repens*)
(5cm x 50cm)
Flowers Spring

Spiny-headed Mat-rush  
(*Lomandra longifolia*)
(50cm x 1.5m)
Flowers Spring–summer
Running Postman
(Kennedia prostrata)
(10cm x 2m)
Flowers Autumn–Summer

Clustered Everlasting
(Chrysocephalum semipapposum)
(50cm x 1.5m)
Flowers Summer–Autumn

Cut-leaf Daisy
(Brachyscome multifida)
(20cm x 50cm)
Flowers year-round

Shrub Species (H x W)

Sweet Bursaria
(Bursaria spinosa)
(3.5m x 2.5m)
Flowers Summer

Common Cassinia
(Cassinia aculeata)
(1.5m x 1.5m)
Flowers Summer
Common Correa
(*Correa reflexa*)
(60cm x 1.5m)
Flowers Autumn–Winter

Hop Goodenia
(*Goodenia ovata*)
(1.8m x 1.5m)
Flowers Winter–Summer

Austral Indigo
(*Indigofera australis*)
(1.5m x 1.5m)
Flowers Spring

Dusty Miller
(*Spyridium parvifolium*)
(1.5m x 1.5m)
Flowers Winter–Spring

Alpine Grevillea
(*Grevillea alpina*)
(1.5m x 1.5m)
Flowers Spring–Summer
Golden Wattle
*(Acacia pycnantha)*
(8m x 3.5m)
Flowers Winter–Spring

Blackwood
*(Acacia melanoxylon)*
(15m x 8m)
Flowers Winter–Spring

Victorian Christmas Bush
*(Prostanthera lasianthos)*
(4m x 3m)
Flowers Summer

Below: Blackwood (*Acacia melanoxylon*)
Common Garden Weeds

All the plants listed in the left column of this section are weeds that have escaped from gardens in Yarra Ranges into surrounding bushland. They may be found for sale in nurseries, community markets or fetes. Please do not plant these species. If you have them in your garden, we encourage you to remove them. Further advice on how to remove them is available from the Shire. They can be replaced with one of the suggested similar non-invasive native plants listed in the right column.

<table>
<thead>
<tr>
<th>Weed</th>
<th>Replacement</th>
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</thead>
<tbody>
<tr>
<td>Blue Periwinkle (Vinca major)</td>
<td>Purple Coral Pea (Hardenbergia violacea)</td>
</tr>
<tr>
<td>Bridal Creeper (Asparagus asparagoides)</td>
<td>Wonga Vine (Pandorea pandorana)</td>
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<tr>
<td>English Ivy/ Cape Ivy (Hedera helix / Delairea odorata)</td>
<td>Creeping Boobialla (Myoporum parvifolium)</td>
</tr>
<tr>
<td>Weed</td>
<td>Replacement</td>
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<tr>
<td>------</td>
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</tr>
<tr>
<td>Bluebell Creeper (Sollya heterophylla)</td>
<td>Common Appleberry (Billardiera scandens)</td>
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<tr>
<td>Wandering Tradescantia (Tradescantia fluminensis)</td>
<td>Ivy-leaf violet (Viola hederacea)</td>
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<tr>
<td>Asparagus Fern (Myrsiphyllum scandens)</td>
<td>Maiden-hair fern (Adiantum aethiopicum)</td>
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<td>Banana Passionfruit (Passiflora mollissima)</td>
<td>Austral Clematis (Clematis aristata)</td>
</tr>
<tr>
<td>Gazania (Gazania linearis)</td>
<td>Cut-leaf daisy (Brachyscome multifida)</td>
</tr>
</tbody>
</table>

Photos left and centre: Caroline Carvalho
Photo: Wren Freshwater
Photo: David Blair
Common Garden Weeds

Weed X

Arum Lily
(Zantedeschia aethiopica)

Fountain Grass
(Pennisetum setaceum)

Spanish Heath
(Erica lusitanica)

Agapanthus
(Agapanthus spp.)

Pampas Grass
(Cortaderia spp.)

Replacement ✓

Kangaroo Paws
(Anigozanthus spp.)

Wallaby Grass
(Austrodanthonia spp.)

Common Heath
(Epacris impressa)

Black-anther Flax-lily
(Dianella revoluta)

Red Fruit Saw-sedge
(Gahnia sieberiana)
<table>
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<tr>
<td>Bulbil Watsonia (Watsonia meriana var. bulbillifera)</td>
<td>Long-leaf Mat-rush (Lomandra longifolia)</td>
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<tr>
<td>Cotoneaster (Cotoneaster spp.)</td>
<td>Prickly Currant Bush (Coprosma quadrifida)</td>
</tr>
<tr>
<td>English Broom (Cytisus scoparius)</td>
<td>Golden Tip (Goodia lotifolia)</td>
</tr>
<tr>
<td>Flax-leaf Broom (Genista linifolia)</td>
<td>Cinnamon Wattle (Acacia leprosa)</td>
</tr>
<tr>
<td>Weed</td>
<td>Replacement</td>
</tr>
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</tr>
<tr>
<td>Hawthorn (Crateagus monogyna)</td>
<td>Snowy Daisy-bush (Olearia lirata)</td>
</tr>
<tr>
<td>Mirror Bush (Coprosma repens)</td>
<td>Victorian Christmas Bush (Prostanthera lasianthos)</td>
</tr>
<tr>
<td>Cootamundra Wattle (Acacia baileyana)</td>
<td>Golden Wattle (Acacia pycnantha)</td>
</tr>
<tr>
<td>Desert Ash (Fraxinus angustifolia)</td>
<td>Blackwood (Acacia melanoxylon)</td>
</tr>
</tbody>
</table>
Sustainable Gardening in the Shire of Yarra Ranges

Weed X

Pine tree
*Pinus radiata*

Cedar Wattle
*Acacia elata*

Sweet Pittosporum
*Pittosporum undulatum*

Red Cestrum
*Cestrum elegans*

Replacement ✓

Black She-oak
*Allocasuarina littoralis*

Black Wattle
*Acacia mearnsii*

Banyalla
*Pittosporum bicolour*

Alpine Grevillea
*Grevillea alpina*
Shire of Yarra Ranges
Environmental Weed List

The Shire of Yarra Ranges is taking a precautionary approach to ensure the protection of existing biodiversity assets – taking guidance from the CSIRO’s *National list of naturalised invasive and potentially invasive garden plants*. The Shire’s Planning Scheme formally lists some plants that are a threat to the region (refer to pages 50–51).

In many cases, similar cultivars will also be a problem. For example, Sweet Pittosporum is listed, however *Pittosporum* ‘Silver Song’ is not and yet is very weedy in this region. If you are in doubt about the weed status of a plant contact the Shire’s Environment Department.

**Note**: If you need to do a landscape plan as part of a planning development application, it should be noted that plant lists containing these environmental weeds will be rejected by the Shire. Refer to the Shire’s new Landscape Guidelines Kit (2007) as a guide.

**Below**: *Gazania* species are often used by gardeners as they are drought tolerant, provide good colour and are easy to grow. However, these plants are becoming an increasingly serious weed problem in the Shire, as their mat-like growth suppresses native understorey plants and out-competes them for sunlight and food.
Environmental Weeds in Yarra Ranges

Alkanet (*Pentaglottis sempervirens*)
American Aspen (*Populus tremuloides*)
Angled Onion (*Allium triquetrum*)
Apple (*Malus* spp.)
Belladonna Lily (*Amaryllis belladonna*)
Berry-flower Heath (*Erica baccans*)
Bindweeds (*Convolvulus* spp.)
Blackberry (*Rubus fruticosus* spp. agg.)
Black Locust (*Robinia pseudoacacia*)
Blue Psoralea, Bloukeur (*Psoralea pinnata*)
Boneseed / Bitou Bush (*Chrysanthemoides monilifera*)
Butterfly Bush (*Buddleia davidii*)
Caucasian Ash (*Fraxinus angustifolia* ssp. *oxycarpa*)
Cherry Laurel (*Prunus laurocerasus*)
Cherry Plum (*Prunus cerasifera*)
Common Dipogon / Dolichos (*Dipogon lignosus*)
Common Evening Primrose (*Oenothera stricta*)
Common Forget-me-not (*Myosotis sylvatica*)
Creeping Buttercup (*Ranunculus repens*)
Darwin’s Berberry (*Berberis darwinii*)
Early Black Wattle (*Acacia decurrens*)
Euryops, Winter Euryops (*Euryops abrotanifolius*)
Evergreen Dogwood (*Cornus capitata*)
False or Cape Wattle (*Paraserianthes lophantha*)
Fennel (*Foeniculum vulgare*)
Firethorns (*Pyracantha* spp.)
Fragrant Violet (*Viola odorata*)
Giant Honey Myrtle (*Melaleuca armillaris*)
Golden Wreath Wattle (*Acacia saligna*)
Great Mullein (*Verbascum thapsus*)
Hemlock (*Conium maculatum*)
Himalayan Honeysuckle (*Leycesteria formosa*)
Holly (*Ilex aquifolium*)

*Signifies a ‘declared noxious weed’ – these plants cannot be legally traded in Victoria and reasonable efforts should be made to remove any existing plant/s on your own land and/or adjoining roadside.*
Environmental Weeds in Yarra Ranges

Honey Myrtle  (*Melaleuca hypericifolia*)
Italian Buckthorn  (*Rhamnus alaternus*)
Japanese Honeysuckle  (*Lonicera japonica*)
Karamu  (*Coprosma robusta*)
Karo  (*Pittosporum crassifolium*)
Laurustinus  (*Viburnum tinus*)
Manna Ash  (*Fraxinus ornus*)
Montbretia  (*Crocosma x crocosmiflora*)
Morning Glory  (*Ipomoea indica*)
Myrtle Leaf Milkwort  (*Polygala myrtifolia*)
Peruvian Lily  (*Alstroemeria aurea*)
Plum  (*Prunus spp.*)
Portugal Laurel  (*Prunus lusitanica*)
Prickly Pear, erect  (*Opuntia stricta*)
Privet  (*Ligustrum vulgare*)
Quaking Grass  (*Briza maxima*)
Rosy Watsonia  (*Watsonia bulbillifera*)
Sallow Wattle  (*Acacia longifolia*)
Shasta Daisy  (*Leucanthemum maximum*)
Sticky Hop Bush  (*Dodonaea viscosa*)
Strawberry Tree  (*Arbutus unedo*)
Sweet Briar  (*Rosa rubiginosa*)
Sweet or Everlasting Pea  (*Lathyrus latifolius*)
Sycamore Maple  (*Acer pseudo-platanus*)
Tall Fleabane  (*Coryza bonariensis*)
Tiger Pear  (*Opuntia aurantiaca*)
Tree Lucerne  (*Cytisus palmensis*)
Wild Tobacco Tree  (*Solanum mauritianum*)
Tutsan  (*Hypericum androsaemum*)
White Sallow Wattle  (*Acacia floribunda*)
Willow  (*Salix spp.*)
Willow Hakea  (*Hakea salicifolia*)
Wood Violet  (*Viola riviniana*)


\[**\]  Signifies a ‘weed of national significance’ – this plant is recognised as one of the worst 20 weeds in Australia due to its highly invasive nature. All WoNS are declared Noxious weeds in Victoria.
Produce Gardening

Growing fruit and vegetables commercially uses a large amount of energy and chemicals for heating, cooling, spraying weeds and pests and for transporting produce. Fruit and vegetables begin to lose their vitamins as soon as they’re picked. After five days some have lost 40–50% of vitamins. Growing your own vegetables is so easy, and even easier if you’ve improved your soil. They’re healthier, convenient and children love to watch them grow. Even if you only grow tomatoes, herbs and lettuce in a pot, it’s a start!

Below: A vegie garden can be quite a design feature, as SGA showed at the Melbourne International Flower & Garden Show in 2005.
ORGANIC PRODUCE TIPS

:: Fruit and vegetables generally like to grow in the full sun with plenty of water, organic fertiliser and compost, while local and native plants do not need a lot of water and fertiliser. It is therefore best to grow them in separate parts of the garden.


:: We strongly recommend that treated pine not be used in vegetable gardens as some chemicals may leach into the soil over time.

:: Use recycled plastic sleepers to make raised beds. These will not rot.

:: Rotate the position of vegetables in your garden every year to stop diseases from spreading.

:: Use natural alternatives such as pyrethrum and garlic sprays to control pests.

:: You will need to apply regular water to your vegetables and check for pests, especially snails on new seedlings.

:: Use heritage seeds (these are from plants with historical importance) for more variety and often superior flavour. You can plant early, mid and late season tomatoes.
Sustainable Gardening in the Shire of Yarra Ranges

Sustainable Lawns

Traditional turf lawns are often high water users. If you are looking for an attractive lawn alternative, that can withstand periods of low water supply and less ongoing maintenance, you could consider a range of native grasses, depending on the look you are trying to achieve.

:: One of the most successful indigenous grasses for creating the look of a traditional lawn is Weeping Grass (*Microlaena stipoides*). Unmown it grows up to 30cm, but mown a few times a year will grow well in a wide range of soils and provide a lawn look. Once established, Weeping Grass is drought, frost and shade tolerant. It is excellent for a front lawn and can be grown from seed or plugs (seedlings in bulk trays). Like any lawn, use edging to separate garden beds from lawns to reduce your maintenance efforts. For heavy traffic areas opt for paths.

:: If you like clumps of tussocky grasses then Kangaroo Grass (*Themeda triandra*), Wallaby Grass (*Austrodanthonia spp.*) and Tussock Grass (*Poa spp.*) are great alternatives.

Below: Wallaby Grass (*Austrodanthonia spp.*) used as a lawn
:: Use groundcover plants that form dense mats, don’t require mowing and perform well in shade. Examples include: Kidney Plant (*Dichondra repens*), Creeping Boobialla (*Myporum parvifolia*) and Native Mint (*Mentha diemenica*).

:: Planting out a mass of native wildflowers to create a meadow look can be spectacular particularly in spring and summer. This works particularly well as a front lawn alternative. Examples include: Tall Bluebells (*Wahlenbergia stricta*), Grass Trigger-plant (*Stylidium graminifolium*), Bulbine Lily (*Bulbine bulbosa*) and Climbing Saltbush (*Einadia nutans*).

Use of instant turf should be avoided as it has higher water and chemical application requirements during establishment, and tends to contain weedy grass species like Couch, Kikuyu and Buffalo.

There are exotic tussock grasses that are non-invasive, grow well in shade or high use areas, are all deep rooted, or have a short rhizome to allow them to recover from dry periods. Examples include: Fescues, Blue Grass and Bent Grass.

While indigenous grass lawns require more effort in the establishment phase with hand weeding, once established they can provide a hardwearing, attractive lawn that won’t invade bushland or garden beds, and require less overall maintenance than an exotic grass lawn.

*Above right: Weeping Grass (*Microlaena stipoides*) Below (left to right): Kangaroo Grass (*Themeda triandra*); Creeping Boobialla (*Myporum parvifolia*); mixed wildflowers and native grasses*
Roadside Reserves

Roadside reserves, or nature strips, are linear reserves of public land between your property boundary and roads. While technically the property of the Shire of Yarra Ranges, in the majority of cases the Shire relies on private landowners to assist in the maintenance of these areas. However, vegetation protection measures still apply to these areas and indigenous vegetation must not be removed or destroyed without a permit.

Planting of roadside reserves may be allowed in some circumstances where the plants will not cause a safety hazard or obstruction to footpaths or services. If you would like to plant on the roadside reserve adjacent to your property please contact the Vegetation Management Officers in the Shire’s Asset Maintenance and Services Department for further advice before planting.

**Environmental weeds must not be planted on Roadside Reserves.**

If your property is adjacent to a high conservation roadside with good quality remnant vegetation you may be able to take part in the Shire’s Community Roadside Management Program. Through this program you can assist the Shire in managing these roadside reserves with support from the Shire’s Vegetation Management Officers, including plant identification, weed disposal, and indigenous plant vouchers. Community-managed roadsides are signed to show your contribution to the community, and to modify vegetation slashing undertaken to reduce the fire hazard annually on designated roads.

**Below:** Love Creeper (*Comesperma volubile*) is a fine-stemmed indigenous twining plant, with bright purple flowers.
Sustainable Garden Products

When we buy products for the garden we often don’t think about where they have come from. For example, Red Gum firewood and garden sleepers come from threatened woodland ecosystems (or vegetation communities) that support sensitive native fauna. Red Gum timber is also used to produce items such as bark chips, tomato stakes and railway sleepers – harvesting this product is unsustainable. And huge amounts of shiny river pebbles are dug out of active rivers in Asia so we can create a garden feature.

Using recycled materials such as second-hand bricks and timber looks great in a garden and it’s a good practice to adopt! Recycled plastic garden materials are also available now, such as sleepers, decking boards and garden furniture.

Right: Recycled plastic garden seat – sourced from residential kerbside collections.

ALTERNATIVE PRODUCT TIPS

:: There are usually alternative garden products available. For example, pebbles that are quarried in Victoria from inactive streambeds are preferable because they are not destroying living habitats.

:: Look up www.timbershop.org to find out which timbers are sustainable. While many outdoor furniture companies claim that Teak is plantation harvested in Asia, this magnificent tree is a rare rainforest plant that cannot be grown in plantations.

:: Plants such as grass trees, tree ferns and native orchids may have been sourced illegally from the forest. When purchasing these plants look for a government tag stating that they have been legally collected.

:: Make sure you ask where mulch has come from as some varieties are sourced from the logging of old growth forests and others may contain weed seeds.

:: Ceramic pots fired using gas and produced locally have a lower environmental impact than those pots fired using coal or wood and transported from overseas. Ask where a product comes from and avoid buying unsustainable products.
Mulch

Mulch should be applied to all garden beds to assist in controlling weeds and retaining moisture to sustain plants. Various types of leaf litter or wood chip mulches are available, but ones that are sourced from less abundant tree species (such as Red Gum) should be avoided.

Here are some appropriate mulches:

- recycled garden waste (see below);
- plantation grown timber (pine bark);
- sawmill off-cuts (e.g. eucy-mulch);
- recycled timber;
- jute mat; and
- pebbles or scoria.

Organic mulch and compost from the Shire’s recycled kerbside garden waste is now processed at compost facilities. This green waste is heat-treated to inhibit the persistence of weeds, producing a safe, weed free garden product. Contact the Shire to find out which local garden supply outlets carry this range.

Note: It is highly recommended that all weeds, in particular perennial weeds such as Couch Grass, Kikuyu and Oxalis, be controlled before mulch is applied, to reduce the chance of them continuing to invade garden beds.

Alternative garden edging products

- Sugar Gum
- recycled plastic sleepers
- recycled railway sleepers
- local stone
- recycled brick
- treated pine (not recommended for vegetable gardens or children’s playground areas)
- products made from a combination of wood fibre waste and recycled plastics
Further Information

The Shire of Yarra Ranges has a variety of resources to help you make sustainable decisions for your garden.

The following resources can be obtained from the Shire’s Environment Department or our website at www.yarraranges.vic.gov.au under the Environment Section. Visit the Shire’s community events section on the website to learn about upcoming environmental training and events.

- List of Community Environment Groups and Landcare Groups
- List of Indigenous Plant Nurseries
- Landscape Guidelines Kit (Revised 2007)
- Composting Information
- Animal List
- Wildlife Boxes Info Sheet
- Indigenous Plant List and picture brochure
- Environmental Weed List and picture brochure
- Weed Removal Techniques Info Sheet and Weed Control Calendar
- Weed Disposal Techniques Info Sheet
- Weed Control Fact Sheets (available for 19 of the most common weeds)
- Code of Environmental Practice for Works on Council Managed Land and Roadsides (2000)
- Weed Management Strategy (2005)
- Vegetation Community plant lists (developed specific to individual properties)
- Living with Tall Trees – Roots & Trunks brochure
- Living with Tall Trees – Pruning & Lopping brochure
- Protecting Our Vegetation brochure

The green waste bin service in urban centres and townships across the Shire will take green waste (including weeds) for processing into safe mulch for resale.
Useful links

:: Sustainable Gardening Australia – www.sgaonline.org.au
:: Weed Society of Victoria – www.wsvic.org.au
:: Invasive Species Council – www.invasives.org.au
:: Department of Sustainability and Environment – www.dse.vic.gov.au
:: Weed CRC – www.weeds.crc.org.au
:: Melbourne Water – www.melbournewater.com.au

Further reading
