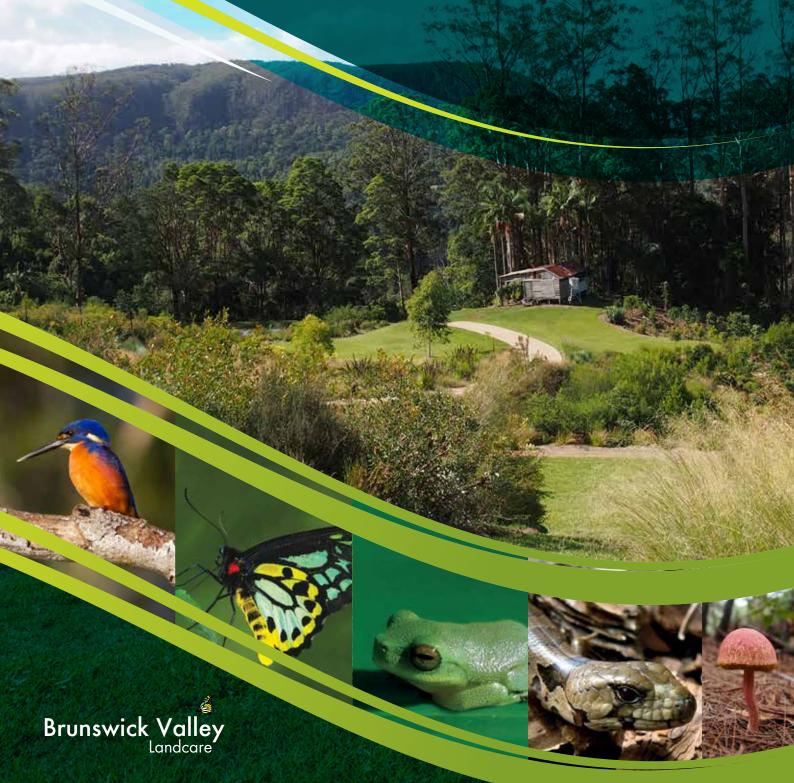


A planting guide to promote biodiversity in **Byron Shire**



Acknowledgements

Brunswick Valley Landcare recognises the Bundjalung **Image Credits:** people as the traditional custodians of this land.

The updated "My Local Native Garden" Team 2016

Alison Ratcliffe – editor and updates
Jo Green – wildlife in your garden
Water Quality – Rous County Council & Byron Shire

Josie Tebo – graphic design

The original "My Local Native Garden" Team 2011

James Mayson – editor Mandy Lisson – garden design Andy Erskine – coastal Rita De Heer – riverine & alluvial Angus Underwood – foothills & hinterland Jo Green – ridges & ranges Wendy Gibney – aquatic plants, invasive species www.thomasmanguy.com – graphic design

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TRUST

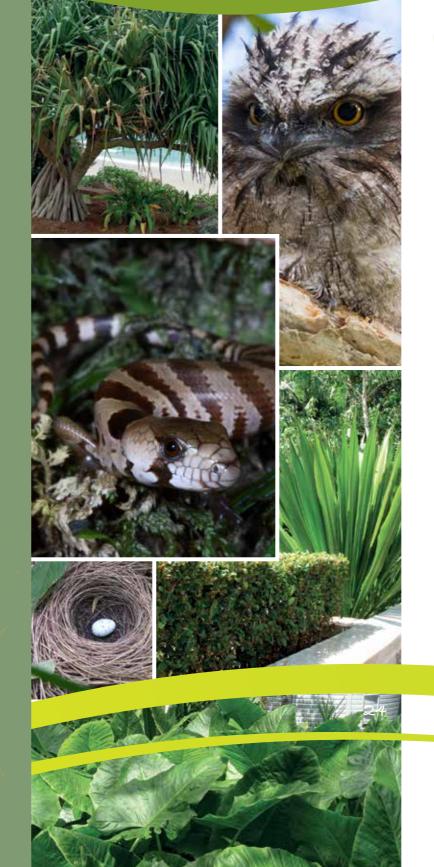


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Introduction

WELCOME TO MY LOCAL NATIVE GARDEN – A PLANTING GUIDE TO PROMOTE BIODIVERSITY IN THE BYRON SHIRE.

his publication hopes to inspire local residents and new arrivals to learn a little more about our spectacular environment. Most importantly we want you to invite the natural world into your own backyard - to share some space with our native plants and animals.

Specifically this guide will assist you to design, plant and maintain your own garden with species that are local to your area. By following our basic planting guide, your garden will not only be easier to grow and maintain, but it will also integrate into the surroundings, linking with a range of natural habitats to help support the great diversity of local wildlife. Central to this idea is to work with nature, after all our native plant communities have already proved their success to be here through millennia of evolution.

My Local Native Garden is an entry point to introduce you to just some of the incredible variety of local native plants. Ideally we want you to ignore the exotic species and focus on endemic species as these will have food value for native fauna and are less likely to become a bushland weed.

Tuckeroo Illustration: Andy Erskine

For those wishing to explore further, you can find out more detailed plant selection information by consulting the companion online resource to this publication, The Native Species **Planting Guide for Tweed and Byron** Shires www.byron.nsw.gov.au/ native-plants. This interactive online resource will enable users to select local native species from options that meet size, flower colour and location requirements, environmental needs (e.g. salt hardy, vegetation type), availability, etc. and produce a personally selected planting list for your specific location. It will also provide links to images and further information. Additional resources can also be found at the end of this publication.

BIODIVERSITY IN THE BACKYARD – A NATURAL RESOURCE

Have you ever stopped to think how we've inherited clean water to drink, fresh air to breathe or how our soils continue to grow healthy food? The answer is biodiversity – literally the variety of plants and animals, their genetics and the ecosystems they live in. These plants and animals, soils and microorganisms all help to filter our water, generate our oxygen and provide the gift of healthy soils. We need to protect biodiversity for our own health as well as play our part in looking after the planet.

Increased population, poor land management practice, and pressure from land clearing and development has fragmented the original environment into small islands or remnants where species are most vulnerable to weeds, pests and predators.



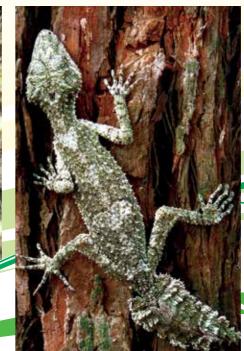
Eastern Blossom Bat Photo: David Milledge

Leaf-tailed Gecko Photo: Rainer Hartlieb When it comes to flora and fauna, we often only think of an individual species being in danger of extinction, but the reality is each individual species depends on a range of other species - a community - for their survival. This is the inter-dependence of ecosystems and why it is important to protect not just one species, but all species – biodiversity.



BY PLANTING A NATIVE GARDEN FILLED WITH LOCAL PLANTS YOU CAN CONNECT YOUR GARDEN TO THE EXISTING WILDLIFE CORRIDORS AND ENHANCE THE SURVIVAL FOR MANY NATIVE SPECIES AND THEIR ECOSYSTEMS

The Byron Shire is recognised as a biodiversity hotspot – one of the richest and most diverse regions for flora and fauna in Australia. Sadly there are over 145 plant species and 183 animal species (including insects) recognised as vulnerable or threatened, including 12 Endangered Ecological Communities in the Shire.



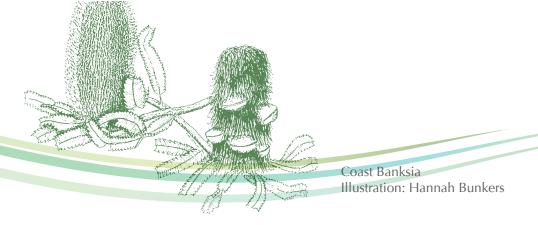


Wompoo Fruit-Dove Photo: David Taylor



Wallaby and joey Photo: Rainer Hartlieb

My Local Native Garden 5



My Local Native Garden Sections:

AS THERE ARE MANY FACTORS THAT AFFECT AND INFLUENCE NATIVE VEGETATION, IT IS DIFFICULT TO BE PRECISE ABOUT WHAT TYPE OF VEGETATION COMMUNITY WILL THRIVE AT YOUR PLACE. SO TO HELP YOU IDENTIFY WHICH NATIVE COMMUNITIES BEST SUITS YOUR GARDEN WE HAVE DIVIDED VEGETATION TYPES INTO 4 ZONES:





How to use this book

Photo: Rainer Hartlieb

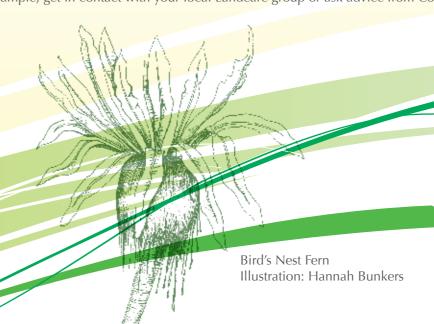
1. Look 2. Check 3. Choose

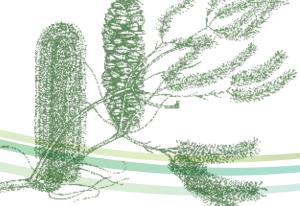
Look at the sections opposite (Coastal; Riverine & Alluvial; Foothills & Hinterland; Ridges & Ranges) – which best describes your property? Go to it and view the range of stunning plants that will enrich your garden.

Check the locations under the section heading – is there one near you? Do the soil and landscape descriptions fit your place? If not, look at some other sections – your garden may draw inspiration from two or more sections*.

Choose from the list of striking native plants in your section – ring up your local bush friendly nursery and ask them if they have your selection in stock.

* Remember – finding a garden type that resembles your property is a best fit – this is a general guide and your garden may include sections and plants from one, two or even three zones. If you're unsure, try visiting your local nursery with a soil sample, get in contact with your local Landcare group or ask advice from Council.





WHAT IS A PLANT COMMUNITY?

Plant communities are a unique assemblage of flora that have evolved as a result of interactions between a variety of factors such as:

- Geology underlying rock type and its effect on soils and nutrients
- Soil type whether the soils are free draining (sand based) or swampy (heavy clay based); fertile or low in organic matter
- Elevation increased altitude usually leads to cooler, wetter conditions.
 It can also affect temperature and exposure, all of which impacts on soil types, and can determine if an area is prone to frost.
- Aspect particularly on slopes where one side has predominantly sun/shade and/or particular winds
- Distance from the coast exposure to salt laden winds or in tidal zones where only those species that can handle brackish inundation can thrive
- Temperature the variation in temperature range increases with distance from the moderating influence of the ocean
- Humidity closer to the coast, sea breezes can moderate the effect of humidity
- Rainfall across Byron Shire, the high rainfall favours certain species.

Heath Banksia Illustration: Andy Erskine

MANY RELATIONSHIPS WITHIN A PLANT COMMUNITY ARE SYMBIOTIC – WHERE THERE IS A RELIANCE OR MUTUAL BENEFIT DERIVED BETWEEN SPECIES – CREATING AN INTERCONNECTED WEB. ADDITIONALLY, OVERLAPPING AREAS OF COMMUNITIES ARE KNOWN AS TRANSITION ZONES OR ECOTONES, WHICH SHOW A PARTICULARLY HIGH LEVEL OF SPECIES RICHNESS.

Below is a list of just some of the many local ecological communities in the Byron Shire – several of these are listed as threatened under State or Federal legislation.

EXAMPLES OF NATURAL PLANT COMMUNITIES

Foredunes

Themeda grasslands on seacliffs and coastal headlands

Byron Bay dwarf graminoid clay heath

Coastal cypress pine forests

Littoral rainforests

Mangroves

Coastal saltmarshes

Swamp sclerophyll forests on coastal floodplains

Swamp oak floodplain forests

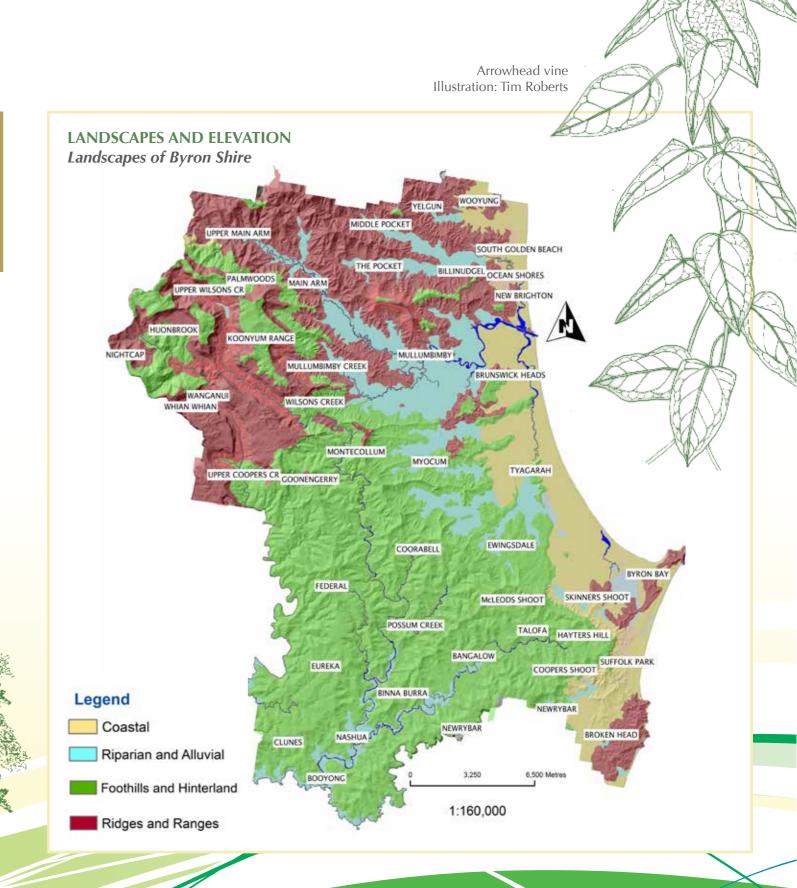
Freshwater wetlands on coastal floodplains

Subtropical coastal floodplain forests

Lowland rainforests

Heath & shrublands

Open forests



Tree Fern Hustration: Hannah Bunkers

BYRON SHIRE HAS AN **OUTSTANDING PALETTE OF** INDIGENOUS PLANTS TO CHOOSE FROM. A GARDEN THAT UTILISES LOCAL SPECIES WILL LOOK MORE IN PLACE WITH ITS SURROUNDS AND LINK UP WITH EXISTING HABITAT TO 'INVITE' THE NATIVE WILDLIFE TO YOUR PLACE.

SUCCESSFUL GARDEN DESIGN **BEGINS WITH A SITE PLAN** - A SCALE DRAWING THAT **INCLUDES ANY SIGNIFICANT** FEATURES OF THE SITE SUCH AS EXISTING TREES, SHEDS AND PATHS ETC.

SITE ANALYSIS

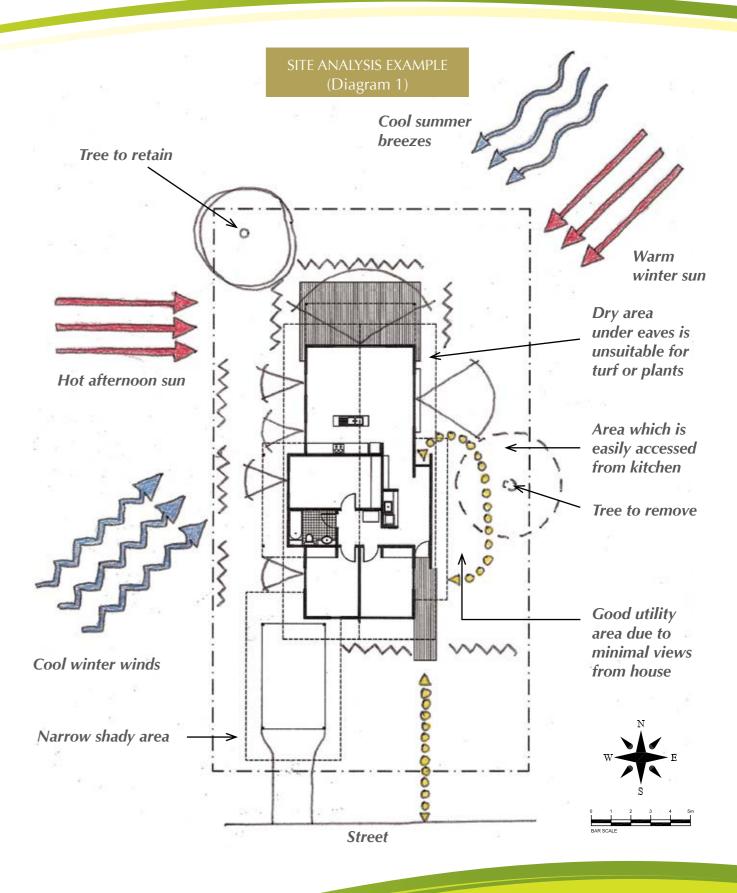
Site Analysis is a pivotal stage that lists an inventory of existing and desirable features of the garden that guide the design. Typical features include:

- Direction of cooling summer breezes and warm winter sun (typically north east) – best to leave free of obstructions and keep plantings low.
- Direction of cold winter winds (typically south west) – best for larger trees and wind block plantings to shelter the property
- Desirable views to retain and areas in the garden or rooms of the house where you wish to create privacy
- Undesirable views to obscure
- Pedestrian and vehicle access

- Trees & plants to be retained
- Problem areas to address such as soil quality & drainage
- Fences, overhead power lines & underground cables
- Water outlets.

Sadly... we've all done it... excited by a surge of plant impulse buys, we give little thought to an overall layout. The result: a garden that doesn't function with the surrounding environment. Creating an initial design for a new garden or even renovating an existing garden will give you an overview of what to aim for, even if funds only allow realising the design gradually over time.















GARDEN DESIGN EXAMPLE (Diagram 2)

DESIGN

Once your site analysis is complete you can start to develop a concept plan. This is a simple diagram that helps you to consider where the different functional areas will be located and how they will connect and relate to one another.

Effective landscape design is about context, balance and proportion.

A garden that relates to the scale of the surrounding buildings and environment helps in settling the house into the landscape. Choosing the right plants is about both the aesthetic – contrast and harmony – and about the environment – providing vital habitat for native wildlife. Native gardens are not necessarily messy gardens. Many local shrubs respond well to pruning and will develop dense regrowth – providing better protection for small birds.

Think about what functions you want your garden to serve.

- Is there a place to sit and relax?
- Do you wish to attract birds, butterflies or animals?
- Do you require children's play areas or outdoor entertaining areas?
- What about a pool, garder shed or pergola?
- Would you like a pond or water feature?
- Is low maintenance a priority?
- Do you want vegetable gardens and/or chickens?
- Do you have pets and will they need to be fenced?

ARMED WITH YOUR SITE
PLAN AND ANSWERS TO THE
FUNCTIONS OF YOUR GARDEN,
START DESIGNING WHERE THE
FOLLOWING POINTS WILL BE
ON YOUR PLAN

FOCAL POINTS

A good design has a few focal points but not so many that they are all competing with each other. Where are the best locations to place striking specimen plants, sculptures or water features? Plenty of plain, green, bushy plants supports the more eye-catching elements.

STRUCTURE

Structural diversity is a crucial to creating an variety of habitats. Choose a range of plants and layers, i.e. groundcovers & grasses, vines & scramblers, shrubs & thickets, small and tall trees. This will increase the range of wildlife that will come to nest, rest and play in your garden.

• TREES

Trees are an essential element of design. Be considerate of neighbours - one property's southwest is another's northeast - so this may mean a compromise in tree height. Try to get as much information about heights and habits as you can, including root growth. Incorporate existing mature trees into the design and they will provide vital habitat stepping-stones for wildlife.

• SHRUBS

Shrubs and groundcovers establish better when planted at the same time as trees. Thickly planted shrubs form excellent screens from winds or views. Smaller birds favour bushy, shrubby, prickly growth for protection.

• **GROUNDCOVERS**

Lower plants soften hard edges and create great habitat for frogs and lizards. They also add to the garden looking complete and can help to minimise weed growth.

LAWNS

Lawns create a sense of space and are great open areas to play or entertain in. They are, however, labour intensive, so reduce their size or consider a native lawn (more info on page 37).

VEGETABLE GARDENS

Choose a position that is easily accessed from the kitchen. Intensively grown vegies will cut down on size and maintenance. Does it need to be fenced from pets or netted for birds and bats?

• MATERIALS

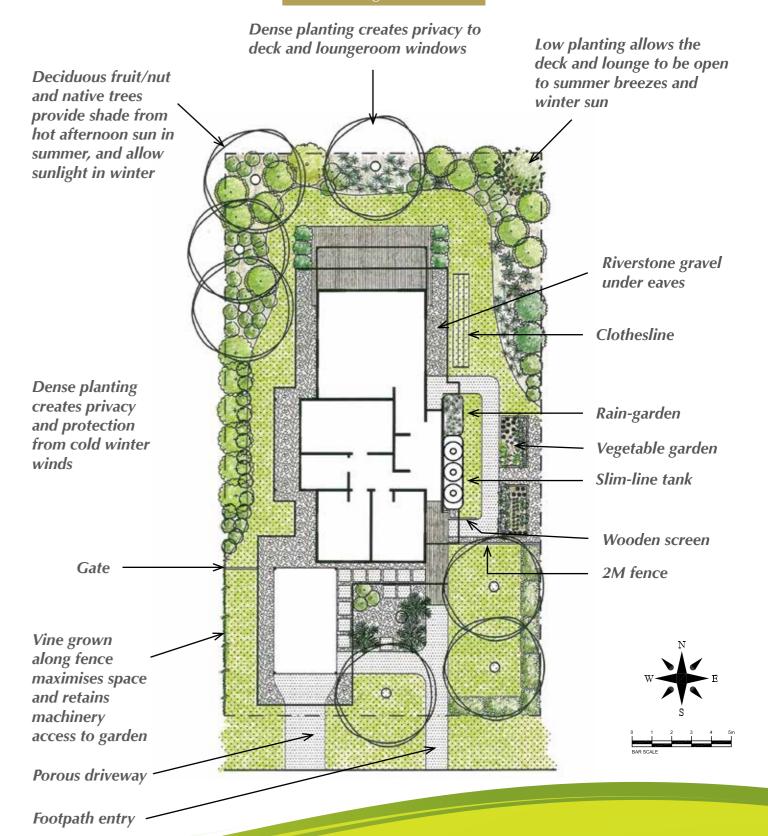
Try to be creative - recycle materials where possible. Porous surfaces allow water to soak into the ground rather than hard surfaces that create large volumes of stormwater.

• BACKYARD BUFFERS & RAINGARDENS

Densely planted native species in buffer strips and raingardens (bioretention systems) can help to filter and reduce stormwater (more info on page 34).

RAINWATER TANKS

Installing a rainwater tank is one of the easiest ways to reduce the amount of stormwater leaving your property. Rainwater tanks come in all shapes and sizes and the water can be used for watering the garden and washing vehicles. The tank can also be connected to internal plumbing for toilets and laundry.



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My Local Native Garden

My Local Native Garden



Davidson's Plum. Photo: Susan Allen

BASIC PLANTING GUIDE

Before you plant

- Check your soil type does it match the description & type of garden & plants in your zone? Does the soil need any conditioning (mulch, fertilizer, organic matter) before planting?
- Choose plants pay attention to microclimate, (e.g. full sun/shade, etc).
- Prepare the site preliminary weeding, dig all the holes and have fertilizer, mulch and water on hand.

Correct planting technique

Check with the nursery where you purchase the plants about specific planting tips for your selected species, e.g. siting of the planting, watering & fertilizer requirements, mulching etc. Reputable online gardening websites can also be a great source of information.

GETTING HELP

Help can be obtained from local council, landscape designers, experienced bush regenerators, websites and nurseries. There are also a lot of great books and gardening magazines out there to help design your garden – why not put a scrapbook together of all the elements you wish to include? Most importantly, spend time in your garden, get to know the microclimates and plan your garden around its strengths and limitations.

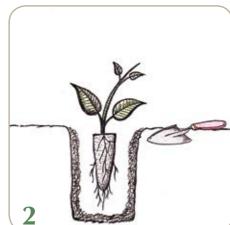








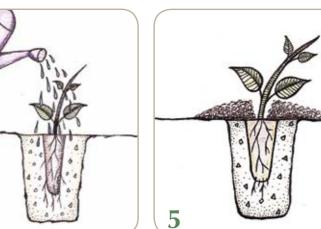
1. Dig a hole slightly deeper and at least twice as wide as the pot size. Loosen the soil around the sides of the planting hole. Water the plant & fill the hole with water and allow both to drain away. If the water doesn't drain from the hole you may need additional help with the addition of gypsum or build up a free draining mound of soil to plant into.



2. Gently remove the plant from the pot or tube and place in the planting hole - the top of the root ball should be level with the surrounding soil. If the roots are pot-bound gently loosen the root ball and then place in hole.



3. Backfill soil, making sure that the surface root ball is well covered and include a little slow release native plant fertilizer and water crystals/gel. Press the backfill down with your hands and shape the soil surface slightly to hold water. Do not place organic matter or too much fertilizer at the base of the hole as this may encourage root rot or fertilizer 'burn'.



- **4.** Water the plant thoroughly after planting and then once a week for the first few months, (depending on season). Thereafter, water generously when the soil feels dry.
- **5.** Mulch around the plant 10cm thick with at least a 50cm radius this will help to retain moisture and discourage weed growth. Avoid placing mulch against the stem of the plant as this may encourage collar rot.

Photos: Alison Ratcliffe and James Mayson Planting illustrations: Hannah Bunkers

Coasta

LOCATIONS:

BROKEN HEAD, SUFFOLK PARK, BYRON BAY, BELONGIL, TYAGARAH, BRUNSWICK HEADS, NEW BRIGHTON, OCEAN SHORES AND SOUTH GOLDEN BEACH

or those of us lucky enough to live in close proximity to the sea, gardening on sandy soils in salt laden winds can be challenging - until you learn the secrets of our local plants.

Before our coastline was cleared for sand mining and coastal development, a diverse ecosystem thrived in a succession of plant communities that each lent protection to the next.

On the foredunes, spinifex grass slows and traps the wind-blown sand, allowing enough security for the low coastal wattle to establish. This in turn provides shelter to the hind dunes and a complex root system that secures the coast against wave attack. In the lee of this, small, salt tolerant trees and leathery vines form a dense barricade and beyond a complex littoral rainforest can establish. Depending on the soil type (sand or clay), and proximity

of water table variations, the type of predominant vegetation could be littoral rainforest, melaleuca wetland or fire dependent heath.

The advantages of using local coastal plants in the landscape are salt and drought tolerance, and an ability to thrive in low nutrient sandy soils – a selection of these plants are detailed in the species list that accompanies this section of your guide.

WILDLIFE:

PHEASANT COUCAL, BUSH TURKEY, SWAMP WALLABY, WHITE BELLIED SEA EAGLE, OSPREY, TERN, GULL AND VARIOUS REPTILES, AUSTRALIAN PELICAN, BRAHMINY KITE, BUSH STONE-CURLEW, CORMORANT, EGRET, FLYING FOX, KINGFISHER, SPOONBILL, SWAMPHEN, WATER DRAGON, GOANNA











CREATING A HEATH GARDEN

SOIL DESCRIPTION: Low nutrient sand and sandy clay

The heath garden would be well suited to a highly exposed site or to frame a view. The small leathery leaves that feature in this broad grouping are salt tolerant and once established can be trained through pruning and require no irrigation. Small shrubs and trees that are fairly nondescript for much of the year will reward you with vigorous flowering in the spring and some of the heath species such as Lemon Scented Tea Tree (*Leptospermum liversidgeii*) contain natural insect repellents. This garden will look particularly good with natural in their setting and try to leave a few caves and crevices for our bluetongue lizards.

The key species of this garden would most likely include the Banksias, Casuarinas, Grasstrees, Leptospermum, small Melaleucas and local peas. You can even replace the lawn with a low growing form of Kangaroo Grass.

EXAMPLES: Arakwal National Park and Tyagarah Nature Reserve

N.B. It should be realised before embarking on the heath garden that many of these plants are volatile; a buffer zone should be established and maintained in areas prone to bushfire. (Interestingly though, there are heath plants that are non-volatile and form natural firebreaks. Further information can be sourced from the RFS & CSIRO.)

Coastal Heath (top left) Photo: Alison Ratcliffe Wetland West Byron (top right) Photo: Hank Bowers

A selection of Littoral Rainforest species (centre) Photo: James Mayson

CREATING A LITTORAL RAINFOREST GARDEN

SOIL DESCRIPTION: Sandy loam to sandy clay

In its natural state, such as at Broken Head, you'll see a compact forest blown into a wedge shape capable of deflecting salt laden winds and providing a surprising amount of shelter beneath. Few of us will have the opportunity to achieve this complexity in our own yards but there are some very useful species to the sculptural forms of Pandanus, Cordyline, Bangalow Palm, Ginger, Dianella and Hoya Vine. You'll notice these are all lineal plants, which look best with similar shaped and textured plants. Lilly Pillies and other small rainforest species can provide useful hedges and background. Few of these put on beautiful flushes of new growth as opportunity allows.

EXAMPLES: Broken Head Nature Reserve and Cape Byron



CREATING A WETLAND GARDEN

SOIL DESCRIPTION: Peaty sands

If you live in the low-lying parts of the Shire, the water table may be close to the surface and wet sclerophyll plants will best suit your garden. If you have a really boggy section some of the plants that will happily occupy it and turn it into a feature include: Paperbarks, Banksia robur, Blueberry Ash, Cordyline, strappy grasses, ferns and sedges – all can be used to great effect and will require little maintenance. Plant in groups and use your taller species in the background to maximise the impression of space, whilst encouraging the pioneer species to the theme. Visit the section on water features and aquatic plants (p32) for more ideas.

EXAMPLE: The western parts of the Tyagarah Nature Reserve or Cumbebin Wetlands boardwalk at **Butler Street in Byron Bay**



Dianella

Great clumping grass. Lush, strappy leaves, dainty purple flowers & edible blue berries.

Coastal Botanic

HEIGHT

0.8m

0.1m

0.1m

0.2m

0.5m

na

2m

2m

1.5m

1.7m

1.5m

20m

3m

30m (less in

cultivation)

30m (less in

cultivation)

30m (less in

cultivation)

WIDTH

spreading

spreading

0.3m

spreading

0.5m

na

na

na

2m

2m

1.5m

spreads

1.5m

8m

5m

8m

6m

8m

10m

SHADE

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Tweed and Byron Shires www.byron.nsw.gov.au/native-plants

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SALT

TOLERANT M=Medium H=high L=Low

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M

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M. Protect from

M

Μ

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SCIENTIFIC NAME

Dianella caerulea

Viola hederaceae

Actinotus helianthi

Themeda australis

Hova australis

Banksia robur

Hibbertia scandens

Hardenbergia violacea

Melaleuca linariifolia

Austromyrtus dulcis

Cordyline congesta

Pilidiostigma glabrum

Livistona australis

Banksia aemula

Acmena hemilampra

Eleaeocarpus reticulatus

Flindersia bennettiana

Polyscias elegans

Pandanus tectorius

Xanthorrhoea macronema





Sprawling groundcover with delicate purple and white flower



Flannel Flower

An elegant white daisy-like flower throughout the year. Prune after flowering to increase bushy



Kangaroo Grass

Low maintenance tufting grass with reddish flower heads. **Butterfly** attractant



Coastal Grass Tree

Grass tree with no trunk and delicate flower spike resembling a bottlebrush



Hoya

Thick leaved, stunning small white fragrant flowers in spring. Suitable for hanging



Guinea Flower

Well behaved vine with large golden-yellow flowers in spring/ summer - excellent screening scrambler



Happy Wanderer

Dark, glossy leaves with bright purple pea like flower in winter/spring



Snow in summer

lasting months

COMMON NAME

1

2

3

5

6

7

9

10

11

12

13

14

16

17

18

19

20

GROUNDCOVERS

& GRASSES

VINES/

EPIPHYTES

SHRUBS &

SCRAMBLERS

PALMS

TREES

Dianella

Native Violet

Flannel Flower

Hoya

Kangaroo Grass

Coastal Grass Tree

Guinea Flower

Happy Wanderer

Swamp Banksia

Snow in summer

Midgen Berry

Plum Myrtle

Cabbage Palm

Wallum Banksia

Blueberry Ash

Bennetts Ash

Celery wood

Pandanus

Broad-leaved Lilly Pilly

For more species please refer to Native Species Planting Guide for

Swamp Banksia

A dramatic & sculptural

large flower spikes and

fruits in autumn/winter

small tree/shrub with

Clumping Palm Lily

Striking masses of white flowers born in summer with attractive paperbark trunk

My Local Native Garden 18

19

My Local Native Garden

Low shrub – informal hedge.. White flowers in spring/summer with purple spotted edible berries. Wildlife attractant

Midgen Berry



Graceful linear plant with sprays of bright red fruit and flowers in drooping



Celery wood

Tall, graceful tree with umbrella-like crown of leaves. Small, darkfruit. Bird attractant



Cabbage Palm Broad fan leaves.

Plum Myrtle

Pretty foliage with

abundant white flowers

autumn/winter, then small pear-shaped

purple fruit

Cream-white flower spikes in summer. Red fruit turning black bird attractant



Wallum Banksia

Robust, sculptural tree with irregular growth habit. Large woody fruit



Broad-leaved Lilly Pilly

Attractive red-pink new foliage with cream flowers on panicles spring/summer, globulous fruit. Wildlife attractant



Blueberry Ash

An elegant small tree with white or pink bell flowers in summer, followed by small, round blue fruit. Bird attractant



Bennetts Ash

An attractive medium tree with large clumps of white flowers, ornamental woody 5-winged seed capsule



purple flowers autumn/ winter. Small dark-purple



Pandanus

Sculptural tree with large orange fruit (female only), large strappy leaves and distinctive prop roots



Clumping Palm Lily

panicles. Bird attractant



Riverine and Alluvial

LOCATIONS:

BILLINUDGEL, CHINBIBLE, DURRUMBUL, EWINGSDALE, KINGS CREEK, LEFT BANK ROAD, MAIN ARM, THE POCKET, MULLUMBIMBY, MYOCUM, OCEAN SHORES, SKINNERS SHOOT, WEST TYAGARAH, WILSONS CREEK ROAD (LOWER), YELGUN

he riparian zones and alluvial plains of Byron Shire are some of the most altered and disturbed areas of the north coast. Prior to development they supported a rich mosaic of plant alliances. Remnants of majestic eucalypt-based forest still exist in drier areas. Paperbark tea tree forest, swamp oak communities and sedge-lands thrive in areas of wetlands, and, nearer the estuary, communities of mangroves and other salt tolerant plants harbour exceptional biodiversity. All of these species, (except mangroves, which require

brackish or salt water) can still flourish near dams, soaks or in gardens on the riverine plains.

By choosing from the plant communities native to the riparian and alluvial plains of Byron Shire, you can make your property part of a regionwide wildlife corridor. Doing this, you will invite an incredible diversity of flora and fauna into your backyard. Planting in swathes, to slow runoff and catch silt, will help prevent erosion that in turn helps maintain the health of the whole length of the waterway,

encouraging the movement of all life forms that rely on the rivers and floodplains for their survival.

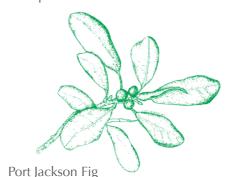


Illustration: Andy Erskine

WILDLIFE:

ECHIDNA, POSSUM, WATER DRAGON, PLATYPUS, FLYING FOX, INSECTIVOROUS BAT, SWAMP WALLABY, VARIOUS NATIVE FROGS AND FISH, AND A WIDE VARIETY OF BIRDS INCLUDING THE PACIFIC BAZZA











CREATING A CREEK-SIDE RAINFOREST GARDEN

SOIL DESCRIPTION:

From gravels near the headwaters to fine clays near the estuary and all the gradations of particle size in between

Many gardens border creeks, streams and ephemeral watercourses. By recreating the structure of the natural vegetation communities with trees for canopy cover, under-planted with shrubs, ferns and sedges, it is possible to create your own patch of riparian rainforest.

Plant tussocky Lomandras mixed with the beautiful Crinum Lilies to protect the creek sides from erosion. Interplant with shrubs such as Native Mulberry, a butterfly host and Velvet Leaf whose berries attract small birds, interspersed with local riparian tree species such as Weeping Lilly Pilly and Creek Sandpaper Fig. Finish off with a sward of native groundcovers such as Basket Grass and Native Commelina, which can both be mown to help sieve sediments from runoff before it hits the creek. No rainforest garden is

complete without a vine or two trained along fences and pergolas to enjoy their showy flowers. Mulch is essential as it mimics the original forest's nutrient processing, keeps the soil moist, and inhibits the growth of weeds.

EXAMPLES: From Federation Bridge along Brunswick Terrace to the footbridge at the corner of **Burringbar Street, Mullumbimby**

CREATING AN ALLUVIAL PLAINS GARDEN

SOIL DESCRIPTION: Silt-based, usually dark grey clays, tendency to crack if allowed to dry out.

Depending on their access to moisture, these lands once supported a variety of forests.

Drier ground: The Eucalypt species (e.g. E. terreticornis) that once dominated these areas are potentially very large trees. Due to bushfire constraints and the danger of falling branches these species are not safe to plant near buildings. However there are hundreds of other plants to choose from including: Black She-Oak,

which when mature will attract the Black Cockatoo; Kangaroo Grass and Paper Daisies which are low growing groundcovers, whilst Blue Tongue, Breynia and Orange Thorn are all midsized shrubs and scramblers. Diligent weeding of exotic species may even revive one or two ground orchids.

Wet or boggy ground: A Paperbark Tea Tree forest will flourish where the ground water is close to the surface or the ground is frequently inundated. Plant species consist of River Oaks and Buttonwood as well as Weeping Bottlebrush and Paperbark Tea Trees. Poorly drained soils support a large variety of sedges, rushes and ferns as well as such beauties as Sundews, Karamat and Violets.



Coopers Creek, Photo: Alison Ratcliffe

Paperbark, Photo: Byron Shire Council



Everlasting or Paper Daisy

Bright yellow flowers, butterfly host plant

Bungwall

Swampy, near

Kangaroo Grass

Flower spikes;

butterfly host

Karamat

banded bees,

harvester ants,

butterfly host

Lomandra

Tussock growth,

strappy leaves,

Swamp or

River Lily

flowers

Silkpod

Robust; scented

flowers; butterfly

Wonga Vine

Vigorous; tubular

flowers to 20 cm;

white, yellow, pink

host; bird attractant

Fragrant showy white

spikes

branched flower

Easily propagated;

flowers blue, blue-

paperbarks, creeping

(Fern)

rhizomes

Riverine and Alluvial

Native Mulberry

Edible fruit; bird attractant, butterfly host

Orange Thorn

Spiny; cover for small birds;

white flowers,

Velvet Leaf

Bright berries

Black

She-Oak

Separate male

and female; food

for Glossy Black

Sandpaper Fig

Hairy edible fruit

branches; birds,

flying foxes, butterfly host

on trunk and older

Cockatoos

Creek

edible berry

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		COMMON NAME	SCIENTIFIC NAME	HEIGHT	WIDTH	FULL SUN	PARTIAL SHADE	FULL SHADE	FROST TOLERANT	FLOOD TOLERANT	DROUGHT TOLERANT	TOLERATES HEAVY CLAY SOILS	TOLERATES SANDY SOILS	FLOWER SEASON
	1	Everlasting or Paper Daisy	Xerochrysum bracteatum	30cm	30cm						V		V	Summer
	2	Bungwall (Fern)	Blechnum indicum	Up to 1m	spreading			~				V		n/a
GROUND- COVERS	3	Kangaroo Grass	Themeda australis	1.5m	1m				~		V		V	n/a
AND GRASSES	4	Karamat	Hygrophila angustifolia	Up to 1m	1m	~	V		~			V		Autumn
	5	Lomandra	Lomandra hystrix	1m	1m	~	V		~	~		V	V	Spring/ Summer
	6	Swamp or River Lily	Crinum pendunculatum	1m	1m	V		V		V		V		Spring/ Summer
	7	Common Silkpod	Parsonia straminea	n/a	n/a	~	~							Spring
	8	Wonga Vine	Pandorea pandorana	n/a	n/a	~	~		•					Winter to Spring
VINES	9	Zig Zag Vine	Melodurum leichhardtii	n/a	n/a	~	~							Spring
	10	Climbing Maidenhair Fern	Lygodium microphyllum	n/a	n/a			~						n/a
	11	Blue Tongue	Melastoma affine	2m	1m	~	~			•		V		All year
SHRUBS	12	Breynia	Breynia oblongifolia	3m	2m	~	~					V		Spring
AND SCRAM-	13	Native Mulberry	Pipterus argenteus	8m	2m	~	~				•	V		Spring to Autumn
BLERS	14	Orange Thorn	Pittosporum multiflorum	2m	1m	~	V		~			V		Spring to Summer
	15	Velvet Leaf	Callicarpa pendunculata	2m	1m	~	V		~		~	V		Summer
	16	Black She-Oak	Allocasuarina littoralis	6m	3m	~			~		V		V	Winter
	17	Creek Sandpaper Fig	Ficus coronata	15m	6m	V	V			V		V	V	Spring
TREES	18	Veiny Wilkiea	Wilkiea huegeliana	8m	2m		V			V		V		Spring to Summer
	19	Weeping Bottlebrush	Callistemon viminalis	5-7m	3m	V	V		~	~		V	V	Spring
	20	Weeping Lilly Pilly	Waterhousia floribunda	30m	10m	~	•		•	•		V	V	Spring to Summer
For more	specie	es please refer	to Native Sp	ecies Pla	nting Gui	ide for			Tweed a	nd Byron S	hires www.	byron.nsw.g	ov.au/native-p	olants
	-		Zig Zag Vin Vigorous, prun as a shrub; per	e to keep fumed		Carry Carry				Pro	Blue Tor olific mauve flo edible frui	owers;		

Common

flowers, edible fruit; butterfly host



Climbing **Maidenhair Fern**

Dainty fern-like leaves. Prefers moist rockeries

22 23





Foothils and Hinterland

LOCATIONS:

BANGALOW, BINNA BURRA, BOOYONG, CLUNES, COOPERS SHOOT, COORABELL, EUREKA, EWINGSDALE (HILL SLOPES), FEDERAL, GOONENGERRY, HUONBROOK, MONTECOLLUM, NASHUA, PALMWOODS, POSSUM CREEK, UPPER COOPERS CREEK, UPPER WILSONS CREEK, **WILSONS CREEK**

he foothills and hinterland are located primarily in the south west of the Shire amongst the rolling hills and valleys of the Wilson River catchment. The high rainfall and rich soils of the area create the perfect conditions for rainforest plants to thrive. The original vegetation of this area is lowland subtropical rainforest, commonly referred to as 'The Big Scrub' and remnants of this vegetation are now protected as an

Endangered Ecological Community. The Big Scrub once covered the entire hinterland area but now exists as small isolated remnants that make up less than 1% of its original area.

The elevation of the area ranges from 40m along the river flats around Bangalow and Nashua, which are prone to winter frosts, up to 300m in the north around Goonengerry where the soil and vegetation changes from

rainforest to wet sclerophyll forest.

Sub-tropical rainforest forms a dense canopy of large trees above a mid and under story layer of dense lush foliage. The range of plants present is extremely diverse and includes trees, shrubs, vines, palms, epiphytes, fungi and groundcovers. This structure creates a cool, moist, shady microclimate by reducing the light intensity, wind and evaporation.

WILDLIFE:

WOMPOO PIGEON, ROSE-CROWNED FRUIT DOVE, BROWN CUCKOO DOVE, FIGBIRD, CURRAWONG, BAR-SHOULDER DOVE, EMERALD DOVE, FAIRY WREN, SILVER EYE, VARIOUS HONEYEATER, GREEN TREE FROG, PERONS TREE FROG, ROCKET FROG, MICROBAT, SOOTY OWL, VARIETY OF LIZARDS AND INSECTS









CREATING YOUR OWN RAINFOREST

For those with more space on their property who wish to establish their own patch of rainforest, a site specific planting design and careful species selection is essential. A full description of this process is beyond the scope of this book but here is a brief overview.

The first step is achieved by planting pioneer, fast growing trees, which can handle full sun and are generally short-lived in terms of a rainforest (10-30 years). Plant the pioneers 3-4m apart to form a canopy in 2-5 years depending on the site and conditions. Interspersed through these pioneer trees, secondary and mature phase trees are planted. These are slower to establish but can live for hundreds of years and in time will form the rainforest habitat. Once the canopy is established, the final staged planting will contain a diverse mix of trees, shrubs, vines and groundcovers. Where possible, try to source the species that grow naturally in your area – talk to your local native nursery and ensure you are also planting species with local population genetics. By planting in this manner, you will extend the existing habitat for local species encouraging them to move into the new areas that you have provided.

Over time you will notice trees and other plants regenerating naturally. These are brought in by birds and the wind and germinate in the favourable conditions provided by the forest canopy.

More information about planting a rainforest can be found in the book published by the Big Scrub Landcare Group Subtropical Rainforest Restoration. This book is essential for anyone looking at undertaking this process, providing a detailed overview of the many factors to consider, as well as a list of appropriate species to plant.

CREATING A RAINFOREST GARDEN

SOIL DESCRIPTION: Deep, well-structured red/brown krasnozems, high clay content,

often acidic - may benefit from the addition of gypsum or lime

A rainforest garden in a moist sheltered part of your property can produce a cool, lush oasis full of verdant foliage. Create a multi-layered rainforest structure by grouping together a range of trees, shrubs, palms and groundcovers sheltered from full sun, frost and prevailing winds.

For a smaller garden, trees such as a Macaranga or Native Frangipani and a few large Bangalow Palms can provide shade. If space is at a premium, plant utilising the shade from your house or fence line. Within this shelter, dense, mass plantings of large glossy-leaved species such as Native Ginger, Cordyline and Cunjevoi look impressive, interspersed with Dianella,

Finger Lime and Midgen Berries to provide food and occasional colour. If you need a hedge, Scrub Cherry can be a good choice with dense foliage that can be pruned and it also provides the basis of the garden ecosystem by tasty pink berries. Lomandra can form a dense edge that helps keep your garden weed-free. Vines such as the Bower Vine and Purple Coral Pea can grow in a sunny spot and both have a showy display of flowers.

The Birdwing Butterfly Vine likes partial shade and provides essential habitat for the amazing Birdwing Butterfly. In the shade shrubs such as Narrow-Leaf Gardenia and Hairy Psychotria have distinct flowers and can provide a shaded ground layer where Native Violets will spread rapidly and display small purple flowers in summer.

Large feature trees include the Flame Tree, Coolamon and Firewheel, all of which have stunning flower displays. Always ensure large trees are positioned well away from buildings.

Mulch is an important component of a rainforest garden and mimics the humus layer found on the forest floor. The decomposing organic matter forms adding nutrients to the soil, holding moisture and providing habitat for soil microbes and invertebrates, which in turn provide food for lizards and birds. Many rainforest plants have a network of surface roots that rely on the nutrients and moisture provided by the mulch.

EXAMPLES: Booyong Nature Reserve, Minyon Falls and **Protesters Falls**



My Local Native Garden 25 24 My Local Native Garden



Native Ginger

Lush clumping plant with large foliage and bright blue berries. Flowers in spring/ summer. Attracts wildlife. Small variety Alpinia arundelliana also available



Cunjevoi Lily

Huge succulent, glossy leaves with a white/yellow flower spike and showy red fruit in summer. Warning: this plant is poisonous if ingested.



Rainforest Lomandra

Native clumping grass with cream flowers and orange capsules in spring. Attracts wildlife. Smaller than other Lomandra species preferring more shade. The larger Lomandra *hystrix* could also be used.



Maiden Hair Fern

Attractive fern with delicate foliage that likes a moist shady position



Soft Water Fern

Attractive clumping fern with a red flush on the new growth



Ground Lily

Unique-looking scrambler with shiny green leaves and small purple flowers



Native Raspberry

Spiky spreading shrub producing edible raspberries in summer. Bushfood. Attracts wildlife. Best grown in moist position receiving direct sunlight



Birdwing Butterfly Vine

Essential habitat for Birdwing Butterfly. They lay their eggs on the leaves and larvae eat the leaves after hatching. Flowers summer/ autumn

Foothills & Hinterlands

SCIENTIFIC NAME

Alpinia caerulea

Dianella caerulea

Lomandra spicata

Viola hederacea

Rubus rosifolius

Oplismenus aemulus

Adiantum aethiopicum

Blechnum cartilagineum

Tripladenia cunninghammii

Pararistolochia praevenosa

Asplenium australasicum

Atractocarpus chartaceus

Pandorea jasmenoides

Citrus australasica

Cordyline petiolaris

Eupomatia laurina

Archontophoenix

cunninghamiana

Psychotria Ioniceroides

Linospadix monostachya

Stenocarpus sinuartus

Cryptocarya laevigata

Syzygium australe

Cyanthea sp

Alocasia brisbanensis

HEIGHT

2m

1m

0.8m

0.5

0.1m

0.2m

0.5m

0.4m

1m

0.2

3m

1m

3m

3m

Up to 5m

2-5m

10m

3m

3m

20m

2-3m

25m

25m

6m

WIDTH

1m

1.5m

spreading

0.8

spreading

spreading

spreading

spreading

spreading

spreading

spreading

spreading

spreading

2m

1m

1.5

4m

2m

2m

4m

1m

8m

4-10m

2-6m

SUN

SHADE

~

COMMON NAME

Rainforest Lomandra

Native Ginger

Cunjevoi Lily

Native Violet

Maiden Hair Fern

Soft Water Fern

Ground Lilly

Basket grass

Birdnest Fern

Bower Vine

Gardenia

Finger Lime

Tree Fern

Bolwara

Hairy Psychotria

Bangalow Palm

Flame Tree

Scrub Cherry

Glossy Laurel

For more species please refer to Native Species Planting Guide

Walking Stick Palm

Narrow-leaved

Broad-leaf Palm Lilly

Native Raspberry

Birdwing Butterfly

Dianella

2

3 (p18)

5 (p18)

10 (p30)

11

12 (p30)

13

15

16

17

18

19

21

22

23

24

GROUNDCOVERS

& GRASSES

VINES/

EPIPHYTES

SHRUBS

PALMS

TREES

Bower Vine Great climber with showy white/pink flower in spring/ summer. Attracts Garden wildlife. Frost sensitive Narrow-leaved Gardenia

spring. Attracts wildlife

Narrow leaves and fragrant white flower in late winter/ 26

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Large lush leaves and bright red berry in summer. Bird attracting fruit. Bushfood

Great hedge. Can be pruned to shape. Edible pink/red fruit in spring. Bushfood. Attracts wildlife



Shrubby tree with Attracts wildlife



Bolwara

Heavily scented flower in summer and edible fruit in autumn/ winter. Bushfood. Attracts wildlife

TOLERATE

DRY SOIL

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TOLERATE

WET SOIL

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SHADE

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Tweed and Byron Shires www.byron.nsw.gov.au/native-plants

Bushfood

Broad-leaf

Palm Lily

Finger Lime

Edible citrus, great in

salads and with fish.



Hairy Psychotria

Delicate white flowers in summer. Fruit attracts birds.



Bangalow Palm

Classic local palm with bright red fruit in autumn. Bird attractant and a must for any rainforest garden



Walking Stick Palm

Distinctive understorey palm with bright red fruit sporadically through year. Attracts wildlife



Flame Tree

Semi-deciduous feature tree with showy red flowers in spring/summer and large woody capsules



Scrub Cherry



Glossy Laurel

glossy foliage and large red fruit in spring/summer.



My Local Native Garden

RIDGES and Ranges

LOCATIONS:

KOONYUM RANGE, ALONG THE RIDGES AND IN THE GULLIES OF HUONBROOK, MONTECOLLUM, MOUNT JERUSALEM, THE POCKET, UPPER COOPERS CREEK, UPPER MAIN ARM, UPPER WILSONS CREEK, WHIAN WHIAN

he spectacular ranges, ridges and gullies of the High Country provide a distinctively different vegetation community to the rest of the Shire. Known as tall open forest dominated by a shady canopy of eucalypts, casuarinas and brushbox, it also has a well developed midstorey of tall tree ferns and pea-flowered shrubs and an understorey of lush ground ferns. Grass trees, cycads and scramblers feature and there are many epiphytes (growing on other plants), including the magnificent bird's nest ferns and staghorns.

These eucalypt-dominated communities are also known as wet sclerophyll forests, and can overlap with rainforest communities, especially in the gullies or on the red volcanic soils. Native orchids can be found on trees and rocks in and around wet sclerophyll forest. On the exposed ridges the soil layer is often very thin and only low, toughleaved heath shrubs grow comfortably, providing an occasional exuberant and showy flower display.

The plant communities of the ridges and ranges have developed to handle the unique environmental conditions such as exposure to wind, extreme cold and heat, fire and drought and an elevation ranging from 50m to 100m and more. Fires are an integral part of the Australian bush but it is a delicate balance - while it can stimulate germination and growth of new species, fire can also destroy homes, property and in some cases, reduce the number of plant species and allow weeds to grow in place of natives.

WILDLIFE:

KOALA, RING-TAILED POSSUM, SPOTTED-TAIL QUOLL, WEDGE-TAILED EAGLE, POWERFUL OWL, BARKING OWL, GLOSSY BLACK COCKATOO, YELLOW-TAILED BLACK COCKATOO, LACE MONITOR, A VARIETY OF SKINKS & REPTILES, BLUE AND BROWN BUTTERFLY.









FEATURE PLANTS FOR RIDGES AND RANGES

Planting in clumps provides a variety of textural accents to your garden. By including structural diversity in your design, (different layers of heights and plants), you will create ample habitat for local wildlife and draw the eye to focal points. Try using some of these feature plants, either en masse or as a point of interest, to create a spectacular local native garden.

Cycad **Grass Trees Coast Banksia Hairpin Banksia** Flooded Gum

Bird's Nest Fern Cliff Bottlebrush **Giant Spear Lilly** Hovea Narrow-leaved Palm Lily Tree Fern

CREATING A RIDGE-TOP GARDEN

SOIL DESCRIPTION:

Red/brown soils, well-drained and often gravelly, slightly acidic and often leached of humus from high rainfall, runoff and exposure to wind. The addition of mulch is always helpful to retain moisture, add organic matter and keep weeds under control.

The major consideration in designing a ridge-top garden is to avoid creating a fire prone environment. An 'Asset Protection Zone' (APZ) is essential in providing a firebreak between your assets (house, shed etc.), and fuel (vegetation). Check with your local fire brigade or council about recommended setbacks.

Although most eucalypts are not suitable near the house, a ridgeline garden can provide a shady cooling environment. If you have the space and can set back far enough from the house, eucalypts do make spectacular feature trees – local native Flooded

Gum are beautiful in wet gullies and Tallowwood are a favourite for koalas. A smaller canopy of trees could include the Mountain Bottlebrush, Banksias, Forest Oak and Blueberry Ash – all will provide colour, and a range of foliage and shade for the understorey to establish. Try planting masses of ground ferns interspersed with a variety of shrubs such as Grass Trees, Hovea, Narrow-leaved Palm Lily, Tall Treefern, Cycad or Giant Spear Lily to provide a contrast of foliage. Shaded or moist spots with rocks may help to establish Native Orchids, Bird's Nest Fern and Elkhorn.

EXAMPLES: Mt Jerusalem National Park, Koonyum Ranges

Factors to consider near vour house:

Avoid tall, fire-loving trees like eucalypts, in the house garden. Avoid plants with a fibrous bark. Use plants that can be trimmed and that resprout from lignotubers (e.g. some banksias). Rainforest plants are good to include,

especially climbers such as Grape Ivy (Cissus antactica) and Snake Vine (Hibbertia scandens), which are effective fire and weed barriers for edges of the garden.

Space taller plants further apart and don't allow taller shrubs and trees to hang over the roof and gutters. Keep gutters clear of leaves and branches. Carefully arrange the taller plants to avoid a continuous canopy, thus avoiding a fire prone garden, even though a dense canopy is a feature of the natural environment. Use Sweet Pittosporum (Pittosporum undulatum) for low cover and shade. Position lawns, garden walls, paved areas, swimming pools and other fire retarding features such as water features and ponds on the side closest to the fire threat. The native Basket Grasses (Oplismenus spp.) make excellent lawns in shady places when mowed regularly. Use mulches that break down quickly (finely chopped tea tree or gravels).

Photo: Rainer Hartlieb

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Native Ginger

Lush clumping plant. Bright blue berries. Attracts wildlife.

Ridges and Ranges



Blue Flax Lily

Great clumping grass. Edible blue berries. Bushfood.



Kangaroo Grass

Fine foliage, coppery seed heads. Attracts butterflies.



Lomandra

Dwarf tussock-like grass with fine foliage. Great edge plant. Other species include *Lomandra filiformis* and *L. multiflora*.



Rainbow Fern

Ground cover, lush foliage.
Many native ferns such as
the Harsh Ground Fern
(Hypolesis muelleri) are
ideal to plant as a sea of
understorey.



Basket Grass

Great native groundcover. Soft leaf and can be lightly mowed



Bird's Nest Fern

Can grow on ground or be attached to tree. Features for trees, habitat for frogs, lizards and other reptiles. A striking alternative is the Staghorn (*Platycerium superbum*).



Grape Ivy

Shiny leaved climber, good screen hedge or fire retardant.



For more species please refer to Native Species Planting Guide



<mark>Snake Vin</mark>e

Twining shrub-like hardy plant. Large yellow flowers, good groundcover or on fence lines.



Pointed-leaf Hovea

Fine open shrub; purple pea flowers in late winter; prefers filtered light; deeper soils.

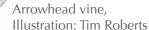
Cliff Bottlebrush

Tweed and Byron Shires www.byron.nsw.gov.au/native-plants

Small bushy tree 2m.
New foliage pink with
nectar-rich red flowers
throughout year. Attracts
wildlife.



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Narrow-leaved Palm Lily

Shiny green leaves and bright red berries in summer. Attracts birds.



Hairpin Banksia

Showy yellow/orange flower spikes. Excellent specimen for winter colour. Attracts birds.



Grass Trees

Attractive grass tree with tall spikes. Slow growing feature plant.



Spear Lily

Large flax-like plant with tall spikes of red flowers. Grow in clumps or a single feature specimen. Attracts birds.



Shining Burrawang

Very attractive palm-like specimen with glossy foliage. Slow growing feature plant.



Weeping Pea Tree

Shrub or small tree with drooping leaves and fragrant yellow pea flowers.



Blueberry Ash

Attractive white 'lily of the valley'-like flowers.



Forest Oak

Major food tree for the endangered Glossy Black Cockatoo





Aquatic Plants

Water Snow

Water Snowflake

White flowers in spring-autumn



Nardoo

Leaves vary from light green to rustic brown



Azolla

Spreads rapidly especially in warm weather - can carpet ponds or dams. Fronds plants may be green or red dependant on sun/shade levels



Duck Weed

Although commonly called Duck Weed this is a native plant - not an environmental weed.
Very small green leaves up to I cm



Frogmouth

Beautiful yellow flowers on a spike up to 1m long in warmer months

Ponds, Dams and Wetlands

Ponds, dams, wetlands and raingardens enhance the beauty of your garden and supplement its habitat values. This section lists some of the more common and accessible local native plants that are suitable to grow in and around your water feature. Aquatic plants may be floating or emergent - those that are rooted in the soil but which can tolerate being partially submerged.

_						
		COMMON NAME	SCIENTIFIC NAME	HABIT	SUN REQUIREMENTS	WATER REQUIREMENTS
	1	Water Snowflake	Nymphoides indica	Perennial water lily with floating stolons and leaves	Full sun or part shade	Grows in still and slow flowing water up to 2 m deep
	2	Nardoo	Marsilea mutica	Perennial fern with four clover-like floating leaflets	Full sun or semi-shade	Grows in still or slow flowing water up to 60cm deep
	3	Azolla	Azolla filiculoides	Perennial free-floating aquatic fern	Full sun or shade	Grows in still or slow flowing water with adequate nutrient levels
	4	Duck Weed	Lemna spp.	Perennial free-floating plant	Sun or shade	Grows in still or slow flowing water with adequate nutrient levels
	5	Frogmouth	Philydrum lanuginosum	Perennial emergent aquatic plant which grows to 2m	Sun or partial shade	Grows on edge of ponds and dams, shallow water & wet soils
	6	Jointed Twig-rush	Baumea articulata	Perennial emergent aquatic plant which grows to 2.5 m	Prefers full sun	Grows in water up to 1m deep often in deep mud
	7	Common Spike-rush	Eleocharis acuta	Perennial emergent aquatic plant less than 1 m	Prefers full sun	Grows in water up to 45 cm deep
	8	Tassel Sedge	Carex fasicularis	Perennial emergent plant to 1 m tall	Semi-shade	Grows in wet soil or on the edge of dams or slow flowing waterways
	9	Water Primrose	Ludwigia peploides ssp. montevidensis	Perennial emergent plant	Full sun or partial shade	Grows in dams or slow flowing waterways
	10	Smartweeds or Knotweeds	Persicaria spp.	Perennial emergent aquatic plants	Full sun or part shade	Grows in water up to 1m deep

POND MANAGEMENT

Many native animals including birds, frogs and dragonflies often visit small ponds, and if you are lucky, frogs may even breed in your pond. However be careful that you are not breeding cane toads.

There is a fact sheet to keep toads out of your pond at www.byron.nsw.gov.au/cane-toads

Although it is great to invite frogs to come to your pond to breed you are not permitted to move or breed frogs without a license. This is to ensure that diseases are not spread through our native frog populations.

Visit: www.frogs.org.au for more information. Another consideration is that an overabundance of plants can cause the water to deoxygenate, so you may need to install an aeration system.

Jointed Twig-rush

Can spread to a thick stand therefore best for dams and larger ponds. Attractive seed heads



Common Spike-rush

Thin cylindrical stems



Tassel Sedge

Showy yellow-green fronds, drooping inflorescence



Water Primrose

Bright yellow flowers



Smartweeds or Knotweeds

Flowers vary in colour between species though usually white or pink. These species readily regenerate naturally in ponds and dams. The species pictured is Slender Knotweed and is a native species. If you have knotweeds regenerating, check that they are one of the native species



SAFETY & HEALTH

Whenever installing ponds, dams or wetlands make sure they are safe, especially for young children. Details on safety and water bodies can be obtained from state and local government agencies. Another health consideration is to ensure that mosquitoes are not breeding in your pond.



The Byron Bay Integrated Water
Management Reserve (Byron Bay Wetlands)
provides an engineering solution to
integrating the principles of Water Sensitive
Urban Design into the human environment.

The Byron Bay Wetlands are situated in the low-lying parts of the s≠hire within the Belongil Catchment. Byron Shire Council diverts highly treated effluent from the Byron Bay Sewage Treatment Plant (STP) through the wetlands prior to release into the Belongil Creek, Estuary and Cape Byron Marine Park. The award-winning wetlands provide a natural way to treat and remove pollutants before the treated effluent enters our local water ways.

The Byron Bay Wetland cells, densely planted with native plants, have evolved to provide important habitat for many species. The 100 hectares have become an integral part of the Belongil landscape and provide a safe habitat for over 200 species of birds.

Landscaping for Water Quality

Where Does Your Drinking Water Come From?

County Council provides bulk water to all urban areas, detergents. with the exception of Mullumbimby which is supplied by Byron Shire Council's Laverty's Gap Weir.

WHAT WE DO IN OUR **CATCHMENT AFFECTS THE OUALITY OF OUR REGION'S DRINKING WATER.**

Stormwater flows either directly across the landscape into creeks and rivers, or through stormwater drains and underground pipes into our waterways, carrying a range of pollutants and increasing the potential for erosion. This not only affects river health but within a drinking water catchment, this affects drinking water quality by introducing:

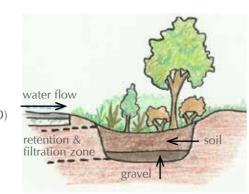
- Sediments from erosion and runoff harms aquatic life, clogs streams and burdens the drinking water treatment process;
- Pathogens from pet waste and inadequate septic systems;
- Nutrients from lawn and garden fertilisers - promotes the growth of aquatic plants and cause toxic algal blooms; and

• Chemicals from garden pesticides, herbicides, car fluids or washing

TECHNIQUES TO HELP PROTECT WATERWAYS

Water Sensitive Urban Design (WSUD) seeks to minimise these impacts by using a holistic approach to town planning and development, which embraces the management and conservation of water. WSUD can be incorporated in your property to capture, treat and reuse stormwater. By doing this you can:

- Filter pollutants, sediment, pathogens, nutrients and chemicals from stormwater:
- Reduce the volume of stormwater;
- Improve the health of our waterways and our local water supply;
- Minimise demand on the reticulated town water supply system;
- Enhance the beauty of your property
- Mitigate the impacts of floods; and
- Maintain healthy waterways for future generations to enjoy.



Water Sensitive Urban Design - What You Can Do!

- Build a raingarden
- Istall a rainwater tank
- Use porous landscaping materials
- If you have a creek or river on your property, replant the bank with native species





CREATING A RAINGARDEN

Raingardens (bio-retention systems), are garden beds that capture, filter and treat stormwater from your drive way or roof using a coarse or porous soil mixture of sand or gravel beneath a bed of native plants. Raingardens reduce flooding by sending the water back underground rather than into the street. They also promote biodiversity by providing habitat for wildlife.

When building a raingarden in your backyard remember:

- On flat sites, raised planter boxes make ideal raingardens. On steeper areas with enough depth for drainage, raingardens can be excavated;
- Try to capture and treat stormwater from the greatest impervious area;
- Locate the raingarden as close as possible to the roof downpipe and stormwater drainage system to minimise the plumbing work needed; and
- Choose native plants with deep fibrous roots that can tolerate short periods of wet conditions, followed by longer dry periods.

Wildlifein your Garden

Why our gardens matter for KOALAS ARE AN ICONIC the future...

ur gardens are all part of the Northern Rivers biodiversity landscape. Everything we plant adds to a bigger picture of connectedness for our wildlife. Adding plants to your garden that provide food and shelter for native fauna can help to create habitat stepping stones connecting isolated islands of bushland. Biologists call these wildlife corridors and they are critical for our fauna to find the food, shelter, and breeding opportunities they need to thrive. Every backyard, no matter how small, becomes part of the solution.

BIODIVERSITY HOT SPOT

We are lucky enough to live in a biodiversity hotspot – an area that is incredibly rich in its variety of plants and animals. We live in the wet subtropics bioregion which covers SE QLD and NE NSW. This region has the highest diversity of marsupials and bats of all Australian bioregions. We also have the equal highest diversity of frogs and the second highest diversity of birds. The area is also of major significance to migratory and nomadic birds and flying foxes with autumn and winter flowering species providing nectar and pollen when food resources are scarce elsewhere.

We have 145 threatened species of flora and 183 threatened species of fauna, including insects in Byron Shire.



THREATENED SPECIES

Koalas are now vulnerable to extinction. Human activities and habitat destruction are their greatest threats. Many of the remaining eucalypt corridors along traditional koala routes are severely fragmented by development. This increases koala susceptibility to disease, motor vehicle accidents and dog attacks. Our koalas are under great stress because food is harder to find and they need to spend more time on the ground as food trees are further apart.

HOW CAN YOU HELP?

By creating and restoring koala habitat Remove weeds such as lantana and invasive vines that can inhibit koalas accessing food and shelter trees. If you live in koala habitat and have enough clear land to accommodate tall growing species, plant food and shelter trees that create corridors. These are the four local preferred food trees:

Forest Red Gum *Eucalyptus tereticornis* coastal, ridges and ranges

Tallowwood Eucalyptus microcorys – hinterland, ridges and ranges

Swamp Mahogany *Eucalyptus robusta* coastal floodplains and swamps

Small-fruited Grey Gum *Eucalyptus* propingua – northern ridges.

Secondary browse trees and shelter trees are also important in corridors. When planting koala food trees, it's important that they are grown from seed collected locally and preferably from trees known to be eaten by koalas.

Pouched Frog (left) Photo: Steve Wilson Koala mother and joey (top right) Photo: Michael Bingham Albert's Lyrebird (bottom right) Illustration: Suzi Lechner



KOALA RESCUE

If you see a sick or injured koala please call Friends of the Koala . 24hr rescue service 6622 1233

IS THAT KOALA SICK **OR HEALTHY?**

Healthy koalas: have a thick grey and white coat; a full rounded belly; bright alert eyes; are responsive when startled; and spend most of their time in trees.

Sick koalas have: a brown, dry matted coat; crusty, red or pussy eyes; and dirty or wet bottoms. They often remain fairly low in a tree for a number of days, are unresponsive and have difficulty climbing.

For mote information and local nursery listings, refer to the resources section.



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How can I attract Wildlife to my Garden?

NATIVE WILDLIFE ARE WELCOME VISITORS TO OUR GARDENS AND CHOOSING NATIVE PLANTS THAT PROVIDE FOOD AND PROTECTION IS A GREAT START. HERE ARE SOME SIMPLE IDEAS TO MAKE OUR GARDENS EVEN MORE WELCOMING FOR ANIMALS, BIRDS, FROGS, LIZARDS, BUTTERFLIES AND OTHER INSECTS.



CREATING STRUCTURAL HABITAT FEATURES

Features such as logs, rocks, leaf litter and ponds create important structural features that will make your garden more inviting to a range of wildlife. Mulch, leaf litter, sticks and bark forms the basis of the food pyramid in the ecosystem of your garden. They provide habitat for worms and insects and these in turn provide a food source for lizards, birds, frogs, bandicoots and echidnas. Logs and rocks placed in protected areas will provide a home for frogs and lizards while a rock placed in the morning sun will be appreciated by the local skinks. A birdbath placed in an open sunny spot with clean water will attract birds and provide them with somewhere to cool off in summer. A shrub located nearby will provide a safe retreat from predators. And it's not just birds that require water! Water bowls placed on the ground will provide water for lizards, mammals and even bees. Remember to add some rocks or logs so that if an animal falls in they can climb out again (see pond management page 33). Retain important habitat trees, especially any with hollows or that produce fruit and nectar.

Yellow Tail Black Cockatoos Photo: Byron Shire Council



NEST BOXES

Nest boxes in backyards can fill the gap where there are no tree hollows. They can encourage many birds to your garden and can give your local possum an alternative home to your roof. At least 10 mammal, 15 bird and 8 microbat species as well as some reptiles have been recorded using nest boxes in Australia. Many of these species play an important part in our ecosystem through pollination of plants, dispersal of seeds and regulating insect populations. Did you know a microbat can eat 500 mosquitoes in 1 hour!

When deciding what sort of box to install, identify what hollow-using fauna occur in your area and use this to guide what type of box is appropriate. It is not recommended to provide homes for some animals within urban areas and near busy roads, due to the possibility of road kill and attacks by domestic pets. In these areas bird and bat nest boxes located high in trees are a good option. Refer to the resources section for more information.

Squirrel Gliders Photo: Mark Evans & Nick Sanderson



HABITAT FOR NATIVE BEES

Native bees are an important part of our ecosystems as they are a major pollinator of many of our food plants as well as native plants. Bees, along with all pollinators, are under threat from newly arrived pests and diseases, habitat loss and chemical pollution. More information on how to attract pollinators to your garden, what trees and plants to conserve and plant on your property, and when plants produce nectar and pollen to provide food for native bees is contained in the resources section.

Grey Headed Flying Fox Photo: Angus Underwood Blue Banded Bee Photo: James Mayson Barn-Owl Photo: Deborah Pearse







FUNGI IN THE GARDEN

Fungi are a little known but vital component of all local ecosystems. In any forest system, fungi rot down wood and leaf litter making nutrients available for plants to grow. It is estimated 80-90% of all plants form mycorrhizal partnerships with fungi – a mutually beneficial relationship where plants can acquire moisture and minerals sooner from fungi than they could get themselves, whilst the fungi find shelter in the tree roots - both a critical survival strategy during droughts. More information on Australian fungi is in the resources section.



NATIVE LAWNS AND UNDERSTOREY

Many local species are suitable as ground covers and for creating a lawn that can be mown. Often native species come up self-sown after the removal of more competitive exotic lawns such as buffalo, kikuyu and carpet grasses and increase the biodiversity in your garden. Native grasslands in the wild are often a "matrix of herbs and grasses", so a native lawn can include low growing sedges, grasses and herbs. Many native grasses and herbs have attractive flowers and seed heads, so interesting effects can be achieved by leaving areas of your lawn unmown to create a colourful meadow (much less work!). They are also an important food for wallabies and pademelons, butterflies and pollinating and pest controlling insects.

Different plants will do well in different positions in your garden. In moist, shady conditions: Basket Grass Oplismenus aemulus, O. imbecilis form great lawns and respond well to mowing. Other species include Pygmy Panic Panicum pygmaeum, Pademelon Grass Ottochloa gracillima, Native Kidney Weed Dichondra repens, Native Photo: Alison Ratcliffe Viola Viola hederacea, Centella Centella asiatica, Speedwells Veronica plebia,

Whiteroot Pratia purpurescens and Pennywort Hydroctyle laxiflora. Most of these can be easily spread by dividing up clumps and replanting. Other grass species are Weeping Meadow Grass Microlaena stipoides and Wiry Panic, Bordered Panic Entolasia spp.. Most of these plants will grow in drier conditions, though their vigour and habit may be reduced. In drier conditions: Kangaroo Grass Themeda australis, Flax Lily Dianella sp., and Mat Rushes Lomandra spp.

WILDLIFE FRIENDLY FENCING

Consider wildlife and only fence where needed or change your type of fencing. www.wildlifefriendlyfencing.com

LAND FOR WILDLIFE

The Land for Wildlife program is a voluntary property registration scheme for landowners who wish to manage areas for biodiversity and wildlife habitat. www.brunswickvalleylandcare.org.au/ land-for-wildlife/

Mt Chincogan Coral Fungi Photo: Rainer Hartlieb



Invasive Socies

INVASIVE SPECIES ARE
INTRODUCED SPECIES THAT
HAVE NATURALISED AND
HAVE AN ADVERSE EFFECT
ON NATURAL ECOSYSTEMS.
MOST PEOPLE KNOW THAT
FOXES, RABBITS, CANE
TOADS AND INDIAN MYNAS
ARE ALL INVASIVE SPECIES
BUT INVASIVE SPECIES ALSO
INCLUDES PARASITES, FUNGI,
INSECTS AND WEEDS.

INVASIVE FAUNA

Indian mynas and cane toads are two of the most destructive invasive species and may be found in your garden. There are several things you can do to help limit the populations of toads and mynas.

- Grow your lawn longer because toads and mynas love short manicured lawns.
- 2.Don't feed these pests; this includes not leaving unattended pet food outside.
- 3. Toad proof your ponds and dams.
- 4. Join the Indian Myna trapping program.
- 5. Join a toad buster group.

PETS

It is important to remember that pets such as cats and dogs are introduced species and need to be managed in a way that doesn't adversely affect our native fauna. Don't let your pets roam freely and keep cats in the house, especially at night.

WHAT IS AN ENVIRONMENTAL WEED?

Some of the most invasive species with the biggest impact on our native bushlands have escaped from gardens. These plants are environmental weeds and Australia's 2011 State of the Environment Report identified Weed invasion to be a threatening process for one-third of rare species in Australia.

Environmental weeds are plants growing outside of their natural distribution that have a negative impact on the natural ecosystems and the plants and animals within those ecosystems. These weeds are introduced into new areas by human activities. Sometimes this is accidental such as via transport but most often, plants are bought for the home garden and then escape. In fact one hundred and twenty four environmental weed species are still being sold in nurseries across New South Wales!

HOW CAN MY GARDEN PLANTS THREATEN BIODIVERSITY?

Some introduced plants have a direct impact on native animals. For example the introduced species Dutchman's Pipe has very similar leaves to the native Richmond Birdwing Vine. When the Richmond Birdwing butterfly accidentally lays its eggs on the exotic plant the caterpillars are poisoned.

Most environmental weeds simply out-compete native plants for light, water, nutrients and



space. Invasive vines such as Morning Glory, Madeira Vine and Cat's Claw Creeper are some of the worst environmental weeds as they smother native plants, completely blocking photosynthesis and can grow thick enough to break branches and bring down entire trees and shrubs.

HOW DO THE PLANTS ESCAPE FROM GARDENS?

Garden waste dumping is a serious threat to native bushland as weeds are directly spread into new areas. But environmental weeds may also be spread indirectly. Seeds can be dispersed by birds or bats, some may be wind-blown or spread by water and still others have sticky seeds that cling to clothing, pets or even vehicles. Plants such as the Madeira Vine spread vegetatively and even a small leaf is enough to start a new infestation. So no matter how careful you are, environmental weeds in your garden can still spread to natural ecosystems. It's best not to have them in the first place.

NOT ALL INTRODUCED SPECIES ARE A PROBLEM

Many exotic species of plants from other parts of the world pose no threat at all. Roses, gardenias and azaleas are all exotic plants but none of these have the potential to become invasive species.

WHAT CAN YOU DO TO STOP THE SPREAD OF ENVIRON-MENTAL WEEDS?

- 1.Learn which plants are environmental weeds.
- 2.Don't plant environmental weeds and gradually remove weeds.
- 3. Plant local native species.
- 4.Buy plants from Bushland friendly nurseries.
- 5. Carefully dispose of environmental weeds and their seeds.
- 6. Join your local Landcare or Dunecare group.

CAMPHOR LAUREL

Camphor laurels have become very common in our region. Camphors now serve a role in our environment - many rainforest birds have adapted to feed on the seeds and local wildlife, including koalas, use them for shelter and stepping stones to move across the landscape. If all the camphors are removed on a property at once, without a seed bank being present, then you will probably end up with an even worse weed problem than when you started. However if you kill an area of camphors that are surrounded by native bush using a camphor conversion technique, then amazing results will be achieved. Camphors on creek banks are not ideal as their roots do not hold the banks together. Native species such as watergum, casuarina, figs and lomandra have matting fibrous roots and are also able to withstand the large pressure of water when our rivers flood.

WEEDS - THE GOOD NEWS

Nature doesn't like gaps. Wherever there is space to grow, something fills it, usually weeds. Weeds can provide an important role in binding the soil together and providing habitat for native species. There is nothing as bad as bare soil – this is an invitation for loose precious topsoil and the runoff can lead to pollution of waterways. Whether you are doing natural regeneration (is there a native seedbank still active in your soil?), or planting, it is imperative to have a plan when attacking weeds.

HOW TO TACKLE WEEDS?

Each site is different and will have a different weed story. Look and think which are your biggest weed priorities. Start small and watch and learn what nature does on your site. Good questions to ask are:

- Does the weed strangle or smoother?
- What is going to happen when I remove all these weeds?
- How am I going to manage and maintain the site? How much time do I have available?
- Is there something I can do to give nature a hand – broadcasting local seeds, controlling annual weeds, mulching plantings?
- How can I get more light and heat into my site to improve native seed germination.

Below are some of the exotic species introduced into Australian gardens that have escaped to become serious environmental weeds.

Photos courtesy of Byron Shire Council.













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Other Points for Consideration

CULTIVARS

When a naturally occurring plant has been selected or changed by the intentional actions of humans, it is called a cultivar (under the International Code of Nomenclature for Cultivated Plants). Humans have been 'improving' nature by cultivation for thousands of years; orange trees, tomatoes and wheat are good examples. It is important to recognise that cultivated native plants are not the same as local natives or naturally occurring species.

Cultivars often have fancy names like Callistemon Perth Pink, which is a selected form of Callistemon salignus, a local native plant. Cultivars can be identified where the abbreviation 'cv' is used. They are often bred to flower more prolifically than true natives and if they are not sterile, may produce viable seed. For this reason, cultivars should never be reintroduced to bushland situations, or used in revegetation. If you live near natural bush, be aware that the cultivars and exotics in your garden may influence native vegetation through the spread of seeds by birds or seedlings over time.

Cultivars are very popular for gardens as they are seen as improvements to the wild species. However they have potential to hybridise or cross with the native species, thus changing the genetics forever. The dangers in this are that the new species may not have the

Native Landscaping Photo: Alison Ratcliffe

genetic characteristics (resilience) to survive over time; frost hardiness or drought tolerance may be reduced. We ask you to please consider the importance of the natural ecology and genetic integrity when designing your garden.

PLANT PROPAGATION & SEED PROVENANCE

Growing your own native plants

can be immensely rewarding and cost saving. Many Australian seeds require specific treatments before they will germinate. Care should be taken when collecting seeds to propagate, that they are collected from a nearby, existing, healthy area of native vegetation. Provenance is based on the idea that local plants are genetically adapted to local environmental conditions. Provenance is difficult to predict across different species. This means seed should always be sourced from a large, healthy population even if this means sourcing seed from a larger population that is further away but from a similar environment. Local nurseries that collect and grow wild seed are performing a valuable service

Davidson's Plum, **Black Diamond Images**

in preserving the genetic resources of our native bush. More information can be found on the Florabank website and the Australian National Botanic Gardens Website – details in the resources section.

BUSH FOOD

What could be more logical than planting endemic species that provide food for wildlife and people? Local plants are adapted to the conditions and rarely need fertilisers, pesticides or additional water once established. Some people like to dot their bushfood plants around the garden so they can have a nibble as they potter, others prefer to create a food forest where all the edibles are clustered in one area for ease of harvesting. Please note the previous section on cultivars when choosing plants where there is a possibility their



seed may be spread into the bush. Our favourites include: Midgen Berry, Macadamia Nut Tree, Brush Cherry, Native Raspberry, Davidson's Plum, Native Tamarind & Finger Lime. The Internet is a great resource for recipes – just search for 'Bushfood' or the plant of your choice into your search engine.



CLIMATE CHANGE

A predicted increase in extreme weather events in the form of more severe droughts, more frequent fires and the possibility of greater variations in rainfall patterns, may lead to increased stress on plants and animals as they become progressively isolated in remnants of vegetation (CSIRO 2007). All the more reason why it is critically important to protect existing remnants and expand local wildlife corridors to allow species to move across the landscape. This will offer some refuge and provide our endemic plants and animals a chance to adapt to these evolving conditions.

Land Mullet (left) Photo: Rainer Hartlieb Myrtle Rust (centre) Photos: Byron Shire Council

PLANT HEALTH

Since the first edition of this book some of our local native species have become hard to find in nurseries due to myrtle rust. Myrtle rust (Puccinia psidii) is a fungal disease which infects plants in the Myrtaceae family. Common Australian Myrtaceae species include eucalyptus, willow myrtle, turpentine, bottlebrush, paperbark, tea tree and lilly pilly. Myrtle rust was first detected in NSW in April 2010 and has since spread across the eastern Australian landscape and is now widespread. As with any plants with diseases, all affected material should be removed and disposed of. An effective way to prevent the spread of diseases, pests and weed seeds is to hot compost. Byron Shire Council's green organic bin undergoes this process so it is safe to dispose of infected material and weeds in your green organics bin. Always practice good hygiene when working with native plants and general nursery stock. Clean equipment such as containers and secateurs after use. For more information please visit www.dpi.nsw.gov.au/content/ biosecurity/plant/myrtle-rust







SOIL

The condition and type of your soil will impact on what plants grow best.

- **Soil texture** tested by taking a handful of soil from various spots in your garden. Gradually wet each soil sample and work it in your hand until it forms a ball. It should be just drier than the point at which the soil sticks to your fingers. Add some dry soil if it becomes too sticky. Slowly squeeze the soil out to form a sausage-like ribbon. Clay soil produces a firm shape that will bend like clay. Sandy soil crumbles and you can see and feel sand. Loam soil holds together but is still slightly crumbly.
- **Soil pH** test kits are widely available and inexpensive, as are products to adjust your soil's pH.
- **Organic matter** regularly adding compost and manure can help improve the soil structure and its ability to store moisture and nutrients.
- Organic Mulch regular applications of a 5cm thick layer of mulch (sugarcane waste, hay, straw, chipped bark, tea tree mulch, or sawdust) placed over the soil helps to reduce water loss and insulates plant roots against extremes of heat and cold. It also helps prevent weed growth and releases nutrients as it decomposes.

A Field guide to Australian Ferns 2002. Chaffer, C. Natureview Publications.

A Field Guide to Australian Frogs 1995. Barker J. Grigg G.C. Tyler, M.J. Surrey Beatty & Sons.

A Field Guide to Reptiles of New South Wales 2004. Swan G. Shea G. Sadlier R. Reed New Holland.

Biodiversity in Byron Shire 2007. Byron shire Council.

Common Weeds of Subtropical Rainforests of Eastern Australia - A practical manual for their identification and control 2008. Big Scrub

Create More Butterflies 2005 Jordan, F & Schwenke, H. Earthling Enterprises.

Grasses of Subtropical Eastern Australia 2008 Watsford and Elliot. Nullum Publications.

Guidelines for the Translocation of Threatened Plants in Australia 2004. Australian Network for Plant Conservation, Canberra

Healthy Catchments, Healthy Water - Managing land within drinking water catchments - A practical Water Directorate.

Landscape and Building Design for Bushfire Areas 2003. Ramsey, C & Rudolph, L. CSIRO Publishing.

Mangroves to Mountains 2009 Logan River Branch S G A P (Qld Region) Inc.

Nest Boxes for Wildlife - *A practical Guide* 2006. Alan and Stacey Franks.h Blooming Books.

Plants of the Forest Floor 2008 Watsford and Elliot (CD with colour photos) Nullum Publications.

Soil Landscapes of the Lismore-Ballina 1:100,000 Sheet Ed. 2 map, 2009. Morand D.T., NSW Department of Environment, Climate Change and Water, Sydney.

Rainforest Trees of Mainland South-eastern **Australia** 2008. Floyd, A.G. Terania Publishing Lismore.

Rainforest Climbing Plants - A field guide to their identification 2007. Harden G. McDonald, B. Williams, J. Gwen Harden Publishing.

Rainforest trees and Shrubs - A field guide to their

Subtropical Rainforest Restoration 2005. Big Scrub

Tracks, Scats and Other Traces - A Field guide to Australian Mammals 2004. Triggs, B. Oxford University Press.

Waterplants in Australia - A field guide 4th edition

NATIVE FLORA

Australian Fungi: www.anbg.gov.au/fungi

Australian Plant Image Index:

Caldera Fungi: www.calderafungi.blogspot.com.

Florabank - native species seed management: www.florabank.org.au

Fungimap - online field guide for fungi: www.fungimap.org.au

How to Propagate Australian Plants: www.anbg.gov. au/PROPGATE/plant01.htm

Plantnet - NSW Flora Online: www.plantnet.rbgsyd.

Rainforest Plants of Australia – Interactive ID key **available to purchase:** www.rainforests.net.au/product/ rainforest-plants-of-australia

Rohen Davis - Landscape Designer native and food plants rohendavis@gmail.com 0402 527 895

NATIVE FAUNA

Attracting Native Bees to your garden: www.mrccc. org.au/wp-content/uploads/2014/02/Attract-Bees.pdf

Backyard Buddies - creating a habitat haven in your backyard: www.backyardbuddies.net.au

Biodiversity in my Backyard (by Rita de Heer):

Birds in Backyards - online Bird Finder:

Build your Own Nest Box booklet:

Byron Bay Backyard - local photographer Deborah **Pearse:** www.byronbaybackyard.com.au

Byron Bird Buddies: www.byronbirdbuddies.com.au

Byron Shire Council environmental resources (Nest boxes): www.byron.nsw.gov.au/environmental-resources

Flora for Fauna: www.floraforfauna.com.au

Frogs Australia: www.frogs.org.au/frogs/ofNSW/The_

Hollow Log Homes nest boxes: www.hollowloghomes.com

Native Bees: www.sugarbag.net

Reptiles: www.reptilesofaustralia.com

The Atlas of NSW Wildlife - threatened flora and fauna: www.environment.nsw.gov.au/wildlifeatlas/about.htm

Wildlife Friendly Dams: www.waternsw.com.au/waterquality/catchment/living/managing-land/farm-dams & www.murraywildlife.com.au/farm-dams/

02 6686 2852 Australian Seabird Rescue

02 6628 1898

02 6628 1866

Koala Rescue 02 6622 1233

PEST ANIMALS

Cane Toads: www.byron.nsw.gov.au/cane-toads

Indian Mynas: www.byron.nsw.gov.au/indian-mynas

Wild Dogs, Foxes and Cats Local Land Services:

Byron Shire Council: www.byron.nsw.gov.au/feralanimals-wild-dogs-foxes-and-cats

WEEDS & BUSH REGENERATION

Australian Association of Bush Regenerators:

Big Scrub Landcare Weeds and Restoration Manuals – available for purchase from:

Byron Shire Council Bush Regeneration Guidelines:

Byron Shire Council Weed Profile Sheets: www.byron.nsw.gov.au/weed-profiles

Weeds of the North Coast of NSW: free to download from www.brunswickvalleylandcare.org.au/weeds available for a donation from Brunswick Valley Landcare 6626 7028

Weed Wise App - app that provides info on 300 noxious and environmental weeds:

weeds/images/wid-documents/weed-wise-spotlight

LOCAL ORGANISATIONS

Big Scrub Landcare: www.bigscrubrainforest.org.au

Brunswick Valley Landcare: www.brunswickvalleylandcare.org.au

Byron Shire Council biodiversity information:

Department of Primary Industries:

Landcare Australia: www.landcareonline.com.au

Landcare NSW: www.landcarensw.org.au

National Parks: www.nationalparks.nsw.gov.au

North Coast Local Land Services:

NSW Government Office of Environment and Heritage: www.environment.nsw.gov.au/topics

Rous County Council – water supply and weed biosecurity: www.rous.nsw.gov.au

Rural Fire Service NSW: www.rfs.nsw.gov.au

We would like to thank the following nurseries for their support in publishing this book:

Mullum Creek Nursery

www.mcnativenursery.com.au

Ph (02) 6684 1703

110 Yankee Creek Road, Mullumbimby NSW 2482

bgreen@mcnativenursery.com.au

Firewheel Rainforest Nursery

www.firewheelnursery.com.au

Ph (02) 6689 5246 | 0427 008 522

387 Dorroughby Road, Dorroughby NSW 2480

info@firewheelnursery.com.au

Burringbar Rainforest Nursery

www.burringbarrainforestnursery.com.au

Ph: (02) 6677 1088

380 Burringbar Road, Upper Burringbar, **NSW 2483**

brnursery1@gmail.com

Ragged Blossom Native Nursery

www.raggedblossom.com.au

Ph: 0403 720 950

Bangalow NSW 2479

plants@raggedblossom.com.au

