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## **Landscaping in your area**

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Plants, design,  
functionality & security



# Landscape to the conditions: Don't fight them!

Plants need water for growth and a suitable environment to establish.



## **Know your area**

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Understand its seasonal characteristics

# Know your plants

Local is best

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*Local provenance plants are the best, wherever it's possible.*

- Choose Tasmanian native plants that are suitable to your conditions & situation.
- Try and get your plants locally.

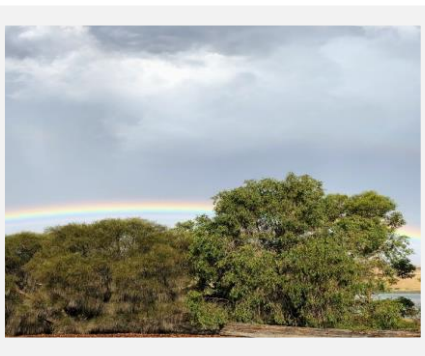


# Assess & understand your local conditions



## Time of the year

Directly impacts on how well your plants establish



## Ideal temperature

Ideal temperatures, ideal plant growth



## Suitable soils

Plant growth all starts with the soil



## Location & aspect

Is the plant and the landscapes design, suited to the location



## Animal predation

Understand your wildlife, when and why it eats your plants

# Soils

## Soil structure

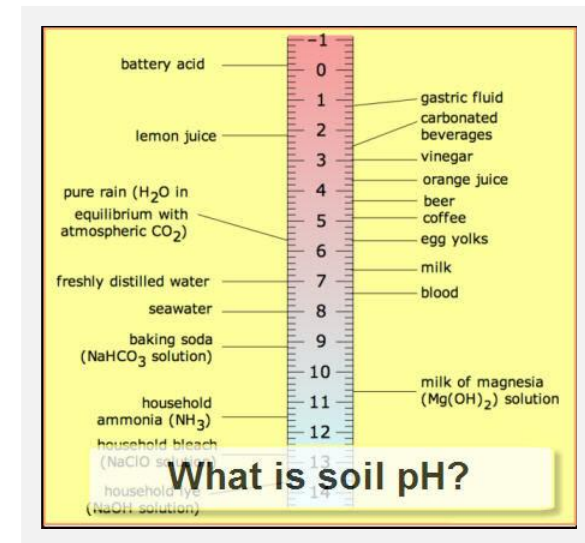
Sandy, loams and clay

The have their pro's and con's



## pH and salinity

Soil chemistry



# Soils & Nutrition

## Organic

Blood and Bone + Chicken manure pellets 50/50mix;  
rate - 200g m<sup>2</sup>



## Osmocote

Native formulation,  
Phosphate lower than  
2%



# Location and Aspect

## Landform and shape

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Conditions- aspect, winds, sun and shade.

*Mounds and the low spaces between them, can visually and physically change the growing ecosystem.*

- The low areas can act as swales, staying moist longer than the hills.
- Protection from winds.
- Protection from radiant heat, depending on their final height, mulch and plant selection.



# Location and Aspect

## Landform and shape

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*Mounds and the low spaces between them, can visually and physically change the growing ecosystem.*

- Plants that require better drainage are planted higher up in the slope.
- Moisture loving plants thrive in the valley's and low points.





# Location and Aspect

## Landform and shape

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*Mounds, and the low spaces between them, can visually and physically change the growing ecosystem.*

- When mounds have been suitably constructed, can have the potential to protect from radiant heat in a fire.
- Rock gravel mulches and low burn, fleshy foliage plants should be included.



# Animal predation

## Options

*Plants have evolved natural deterrents to limit animal foraging.*

- Plants have been shown to increase their levels of toxins when damaged, making them less palatable next time.
- Nursery stock growth e.g. grasses like *Poa* species, **grow them "Hard"**
- The most effective plant protection frames are best made from reusable wire mesh.



# Animal predation

## Options

*Plants have evolved natural deterrents to limit animal foraging.*

- Accept some level of plant damage to start with, most plants will bounce back.
- Plants get to a certain size and predation slows or stops all together.
- Be aware of seasonal impacts as predation is greater during certain conditions.



# Landscape design pointers

## Options

### *Feature plants*

- Consider conditions- aspect, winds, sun and shade.
- Fire awareness and legislation
- Build a plant **matrix**, a layer of planting of one or two similar species of plants.
- Plant in **blocks** of the same plant, that can be repeated.
- Connect blocks to form **drifts** that lead the eye.
- Spot **feature** plants erupt from the base matrix.





# Understanding the fire threat

Gardens in the fire zone

## What we know

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- ***All plants will burn, given the right conditions.***
- Plants **vary in their flammability**; some are more likely to burn than others.
- Plants that have been badly positioned may expose built structures to radiant heat and flame.
- **Suitable plants with low flammability** that are well positioned, can protect buildings and structures.

### **They can reduce:**

- > radiant heat,
- > direct flame,
- > wind speed around structures,
- > deflect and neutralize embers.

# Identifying the flammability of plants is not that simple

## Issues

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### *Flammability*

- A plants age and health
- Its structure and chemical makeup, e.g. volatiles, oils
- Climate and time of the year
- Its location to immediate flammable materials
- The amount and density of flammable parts, (seasonal variations)



# Plant selection

## Features impacting flammability

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- A plants moisture content
- Branching density
- Foliage texture (Fine, coarse)
- Foliage density
- Leaf type – Thicker & more succulent leaves, the slower the burn
- Bark type
- Volatiles- oils, waxes and resins
- Retention of dead material.



# Plant selection

## Features impacting flammability

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- Plant height – lower ground hugging forms
- Mixed design plantings – Grasses with succulent ground cover surrounds.

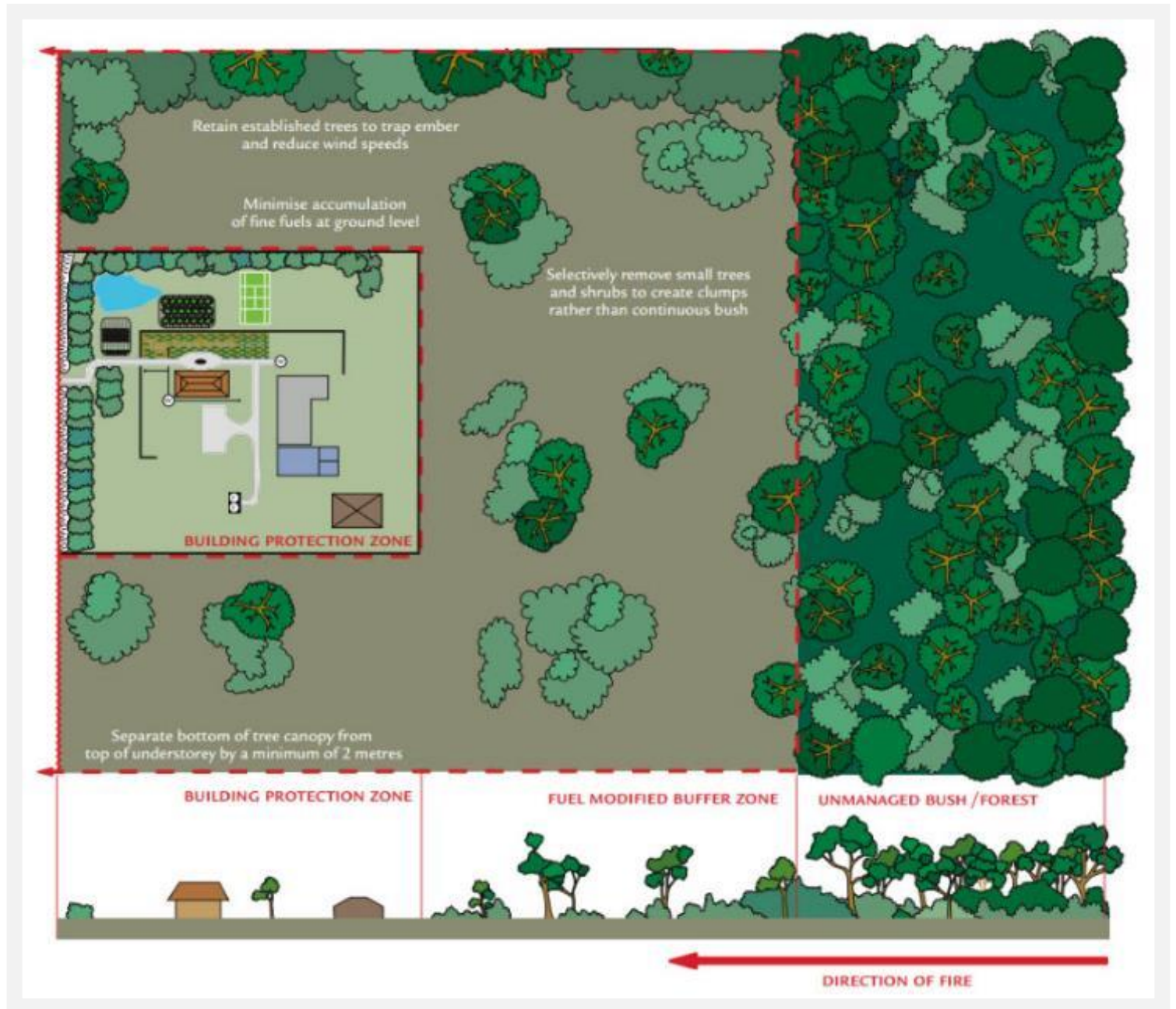




# Modified landscapes

## Make a plan

- Selective small groupings of vegetation
- Gravel and nonflammable mulches
- Paths and driveways
- Lawns and sand surfaces
- Pools and water features
- Courts
- Vegetable and fruit orchards



# Gravel mulches

## Red gravels

Dolerite rock, crushed in various grades, large to fine



## Mudstone gravels

Softer rock, lighter colours, whites, brown and grey, in various grades



# Modified landscapes

## Landforming

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*Modifies the environment*

- Protection from winds, wind diversion
- Develops microclimates
- Builds suitable habitats for plants, that might not otherwise be grown
- Planted with fleshy foliaged and mixed plantings to provide radiant heat buffers



# Modified landscapes

## Plantforming

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- Fleshy groundcovers, modifies the environment. Moisture holding
- High pruning of lower branches, to 2 metres or above.
- Examples of plants:

**Bowers spinach,**  
*Tetragonia implexicoma*

**Native pigface,**  
*Carpobrotus rossii*

**Small/round leaf pigface**  
*Disphyma crassifolium*



- Landscape to the conditions
- Choose local plants that are climate suited and appropriately placed in the landscape.
- Consider landforming and plantforming practices.
- Design for fire
- Don't introduce weeds

- WORTHWHILE RESOURCES

Landscaping for bushfire -

[https://www.cfa.vic.gov.au/documents/20143/72271/landscaping\\_for\\_bushfire.pdf](https://www.cfa.vic.gov.au/documents/20143/72271/landscaping_for_bushfire.pdf)

Tas Fire service

[https://www.fire.tas.gov.au/publications/Bush\\_Guide.pdf](https://www.fire.tas.gov.au/publications/Bush_Guide.pdf)



# Summary

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Plan your design




Verdant Way


# Thank You

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