



PERMACULTURE

Gardening  
Essentials

**Garden Chat**  
**25/4/20**

Slideshow developed by  
Kazel Cass in collaboration with Plenty Permaculture  
© Kazel Cass 24/4/20

# New Gardening Essentials Course

- **Saturday dates 2020**

06 Jun	Seed Saving – Official start of 20-21 course
27 Jun	Propagation of Winter Hardwoods
18 Jul	Understanding Soils 1
01 Aug	Winter Fruit Tree Pruning
15 Aug	Fruit Tree Grafting
29 Aug	Understanding Soils 2
12 Sep	Propagation of Spring Seeds
17 Oct	Understanding Soils 3
07 Nov	Propagation of Summer Softwoods
21 Nov	Weed Management
05 Dec	Understanding Soils 4

- **2021**

13 Feb	Pests
27Feb	Companion Planting, plants for bird and insect retention
13 Mar	Summer Fruit Tree Pruning
27 Mar	Propagation -Autumn Semi-Hardwood
10 Apr	Diseases
08 May	Crop Management

- **Tuesday dates 2020**

09 Jun	Seed Saving – Official start of 20-21 course
30 Jun	Propagation of Winter Hardwoods
21 Jul	Understanding Soils 1
04 Aug	Winter Fruit Tree Pruning
18 Aug	Fruit Tree Grafting
01 Sep	Understanding Soils 2
15 Sep	Propagation of Spring Seeds
20 Oct	Understanding Soils 3
10 Nov	Propagation of Summer Softwoods
24 Nov	Weed Management
08 Dec	Understanding Soils 4

- **2021**

16 Feb	Pests
02 Mar	Companion Planting, plants for bird and insect retention
16 Mar	Summer Fruit Tree Pruning
30 Mar	Propagation -Autumn Semi-Hardwood
13 Apr	Diseases
11 May	Crop Management

- 

- **New workshops in 20-21:**

- **Fruit Tree Grafting**

- **Seed saving**

- **Understanding Soils 4**

- Get all the details here: <http://www.plentypermaculture.co.nz/gardening-essentials/>

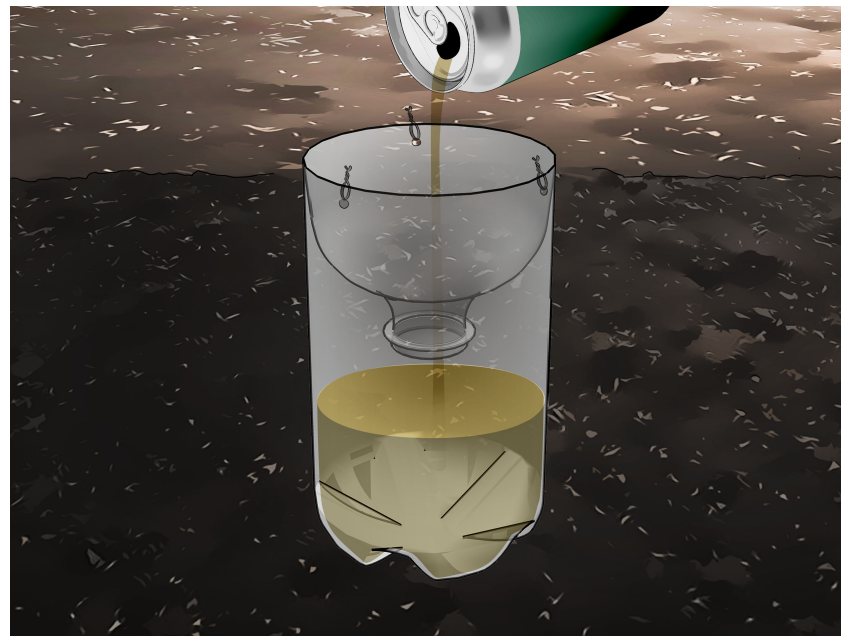
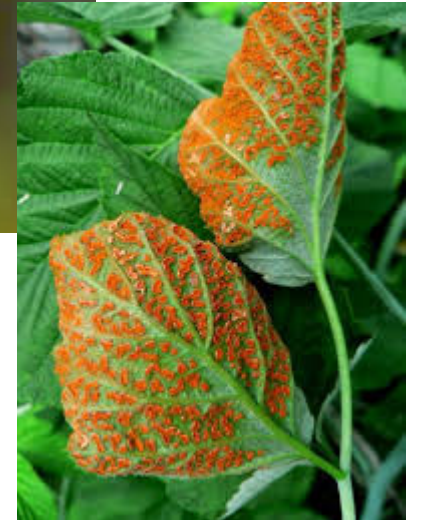
# What to plant in my zone in winter?

- <https://www.gardengrow.co.nz/zones/New%2BZealand%2B-%2Bcool~mountain>
- Frost cloth
- If growing in trays let them get at least 3- 5 true leaves, and bury the stems of brassicas



# Pests/diseases/weeds

- Woolly aphids
- Snails
- Rust?
- Aphids in general
- Pukeko!
- Tangly problem weed

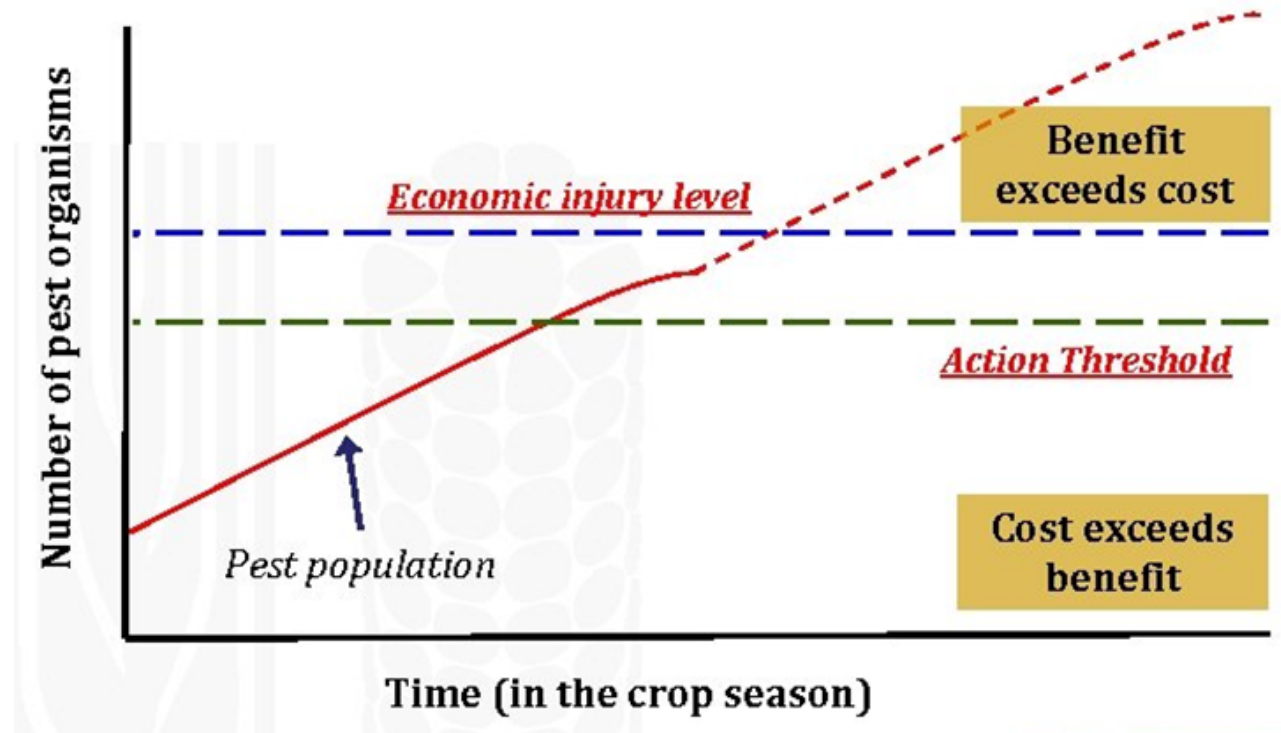


# Economic Action Threshold

In home garden situations, the cost usually exceeds the benefit

In commercial situations timely monitoring is essential to target the action so it has the most effect and the least cost or damage

Too late, and the damage is already done



Simplest  
Lasagna Gardening Layers



**REPEAT: Browns & Greens** to ~3 feet high  
(this will cook down to ~2')

**GREENS** - vegetable scraps, grass clippings

**BROWNS**

leaves, shredded paper, straw

WATER - Soak the paper layer with water

**PAPER** - cardboard, newspaper

**GROUND** - dirt, grass or weeds

Use what you have.





# Compost

The fastest way to produce fertile, sweet-smelling **compost** is to maintain a **C:N ratio** somewhere around 25 to 30 parts Carbon to 1 part Nitrogen, or 25-30:1

**Table 1. Typical C:N ratios of common backyard compost ingredients.**

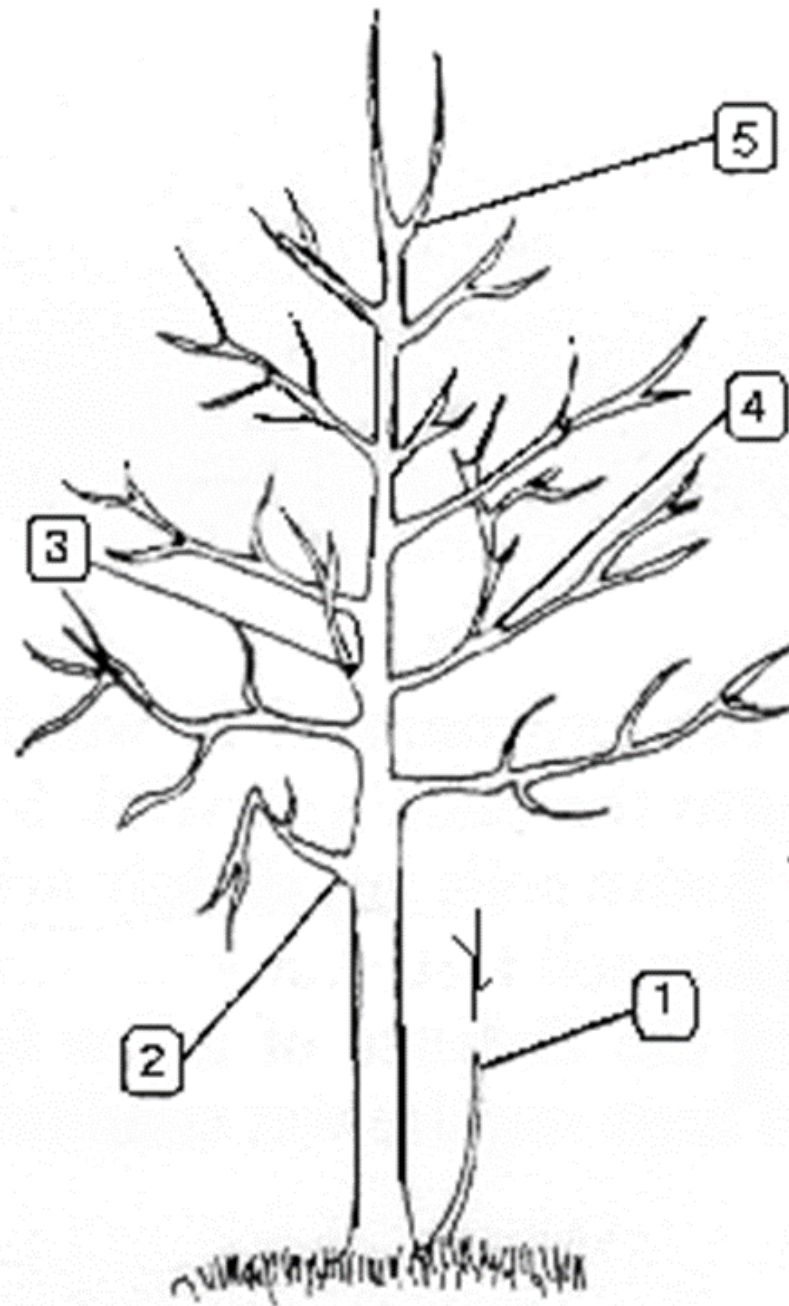
Ingredient	C:N ratio*	Ingredient	C:N ratio*
Wood, sawdust, shavings	500:1	Fruit wastes	35:1
Waste paper	400:1	Rotted manures	20:1
Straw	80:1	Grass clippings	17:1
Dry leaves	60:1	Kitchen scraps	15:1
Cornstalks	60:1	Vegetable culls	12:1
Shrub trimmings	50:1	Alfalfa hay	12:1
		Chicken manure	8:1

\*The C:N ratio of all materials can vary considerably depending on age and source.

# Soil moisture, nutrients etc

- Organic matter
- Leaves, mulch, food scraps, worm bins, compost, lawn clippings
- <https://www.hill-laboratories.com/client-resources-2/crop-guides/>
  
- Best method of composting? Three bay system
- A pile is also good
- wire frame
- Worm bins

# Pruning basics



1. sucker
2. broken branch
3. water sprout
4. interfering branch
5. double leader

# References and Links page

Plenty Permaculture [www.plentypermaculture.co.nz](http://www.plentypermaculture.co.nz)

Permablitz web site [www.permablitzbopnz.net](http://www.permablitzbopnz.net)

Permaculture in NZ [www.permaculture.org.nz](http://www.permaculture.org.nz)

Landcare soil map web site <https://smap.landcareresearch.co.nz/>

Council worm farms workshops links

<https://www.westernbay.govt.nz/property-rates-and-building/rubbish-and-recycling/worm-composting>

<https://www.tauranga.govt.nz/living/rubbish-and-recycling/minimising-waste/community-waste-programmes/community-workshops>

Julia's edible weeds [www.juliasedibleweeds.com](http://www.juliasedibleweeds.com)

Crop Swap Aotearoa [www.cropswap.co.nz](http://www.cropswap.co.nz)