



PERMACULTURE

Gardening
Essentials

Garden Chat
18/4/20

Slideshow developed by
Kazel Cass in collaboration with Plenty Permaculture
© Kazel Cass 17/4/20

Soil nutrients etc

- Organic matter
- Leaves, mulch, food scraps, worm bins, compost, lawn clippings, wood ash, biochar, newspaper, cardboard, sawdust, seaweed, rotten logs, coffee grinds, pet fur, road kill.
- <https://www.hill-laboratories.com/client-resources-2/crop-guides/>
- To reduce acidity (clay soil) add calcium (bones, eggshells) or wood ash

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.

Using the products of the worm bin



Seedling care – fert and environment

- After seedling is up, it will need sunlight, appropriate temperature, regular gentle watering.
- To limit disease, a light breeze if possible, reduced humidity.
- If not being pricked out within 6 weeks, apply a general liquid fert high in N – eg diluted worm tea.



Requirements for an ideal growing environment

- Protected environment (greenhouse/shade house).
- Even, appropriate temperature (not too hot, cold or changeable).
- Bright light, slightly UV filtered. Top light source, or natural sun.
- Moist soil, dry air.
- Most greenhouses use a misting watering system, because it is gentle on young seedlings. Commercial seed raising mixes, trays on wire benches, airflow and drainage is excellent.
- Consider a wicking bed – seedlings draw up water rather than it be top down.



What to plant in my zone in winter?

- <https://www.gardengrow.co.nz/zones/New%2BZealand%2B-%2Bcool~mountain>

General questions

- Herb Robert
- <http://www.juliasedibleweeds.com/general/healing-with-herb-robert/>



Avocados

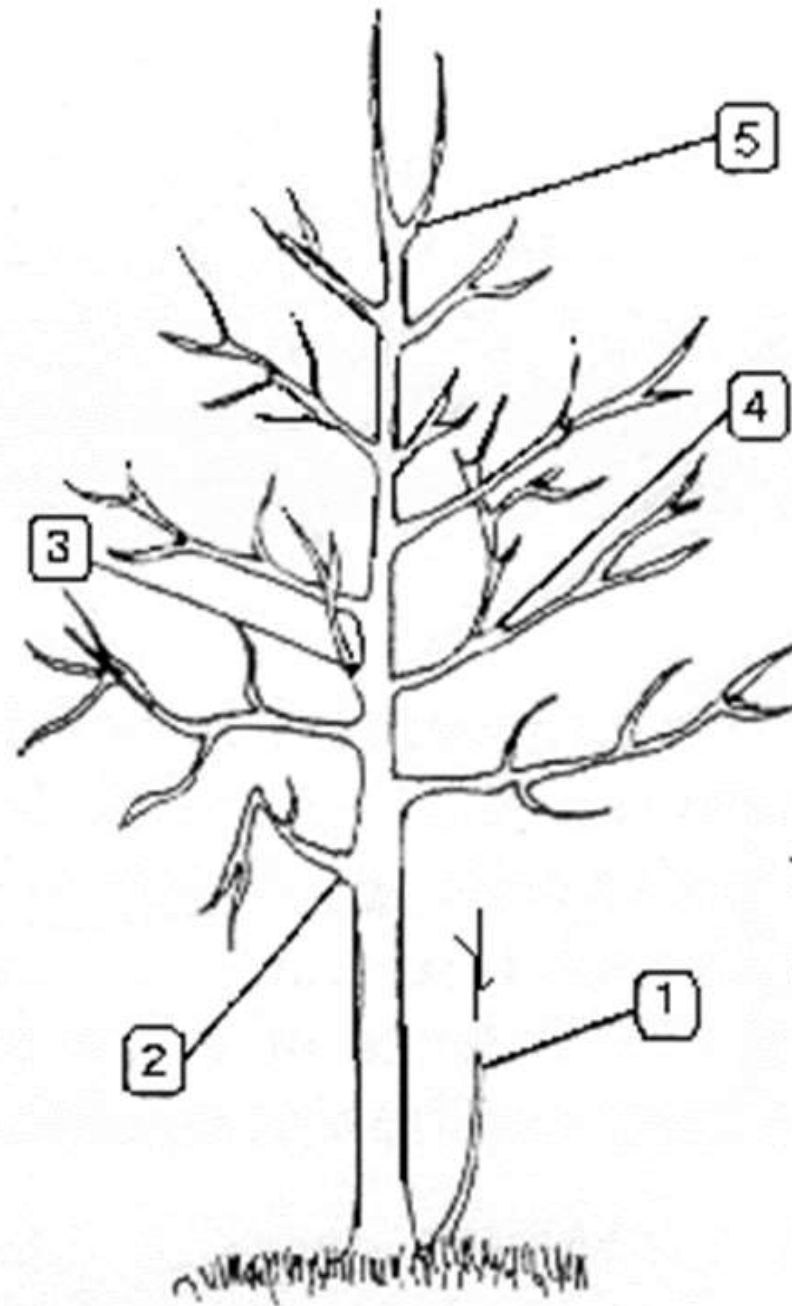
- Cukes = seedless avocados
- Stem dieback
- planting



Selection of tree cultivars

- Heritage trees

Pruning basics



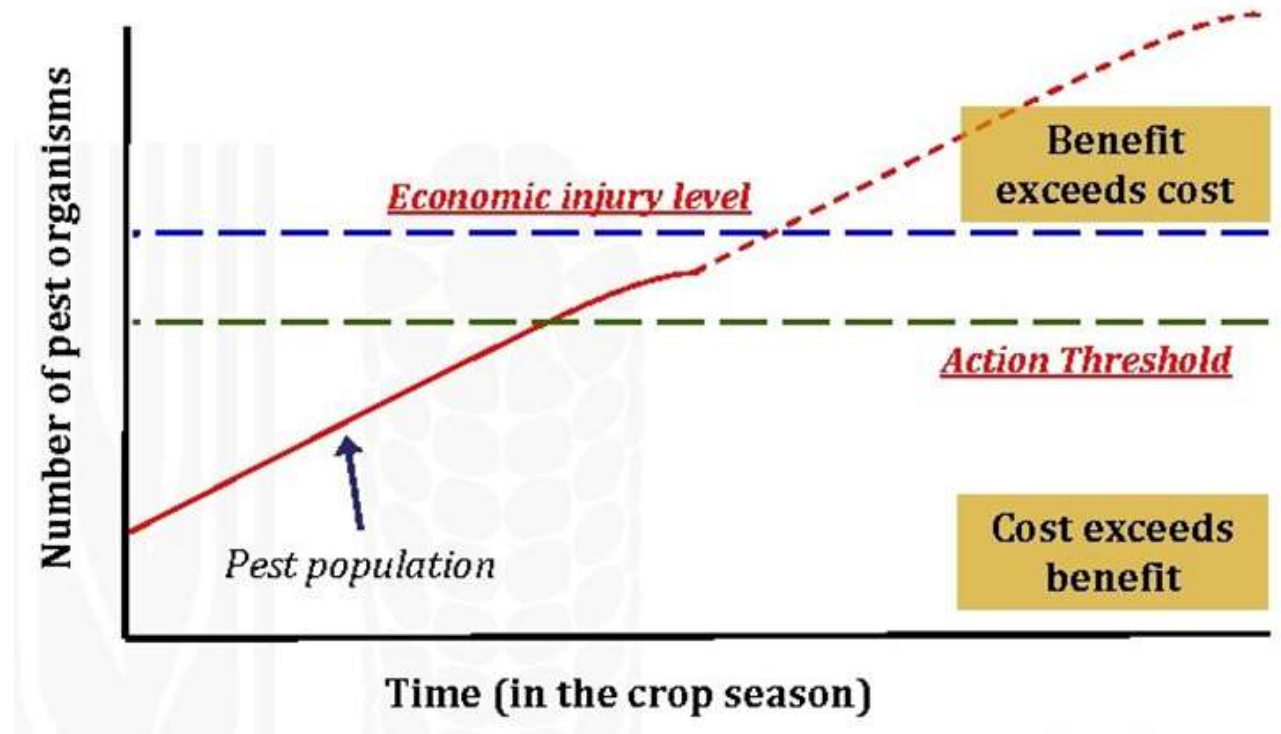
1. sucker
2. broken branch
3. water sprout
4. interfering branch
5. double leader

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



Kikuyu

