

Creative composting

for home and community gardening



ADAM

COMPOSTING WITH ADAM...

The acronym **ADAM** provides an easy way to remember how to make compost. It reminds us of what types of materials to use.

Aliveness – anything that is or has been alive is suitable for making compost; people new to composting might avoid meat waste as it can attract vermin such as rats, if not composted correctly



Diversity – a mix of materials ensures that the correct ratio of carbon (brown) to nitrogen (green) materials is included; nitrogen is a plant nutrient

Aeration – air is necessary for the decomposer organisms to break down the organic materials

Moisture – necessary to decomposer activity, a moisture level of less than 40 percent slows activity while more than 60 percent reduces the availability of air and produces a smelly compost. Keep the compost moist but not saturated.

THE BENIFITS OF MAKING COMPOST

Composting turns our kitchen and garden wastes into plant food:

- almost 50 percent of waste produced in the home can be composted – composting is a do-it-yourself approach to reducing our waste
- making compost avoids the need to buy fertiliser.

You can make compost in commercially-available plastic compost bins, in large bays or heaps.

Community gardeners need large bays to produce enough compost for the garden.

THE MANY USES OF COMPOST

Compost can:

- increase the availability of the nutrients our plants need to grow strong and healthy – compost is a fertiliser
- retain moisture by adding organic matter to light, sandy soils
- increase drainage in heavy, clay soils
- increase aeration in compacted soils
- reduce the extent of temperature extremes in soil, keeping soils cooler in summer and warmer in winter
- help form aggregates in poorly structured soils.

HOW TO USE COMPOST

- make potting mix instead of buying a commercial product: try one third sifted compost, one third coarse sand for drainage and one third coconut fibre for water retention
- make a seed raising mix: try 50 percent sifted compost for water retention and 50 percent coarse sand for drainage in places with hot summers
- use as a mulch for your pots and around vegetables and fruit trees – keep it clear of the stems and tree trunks to avoid collar rot.

Compost is ready to use when it has broken down to a fine, crumbly texture, when it is black in colour and has an earthy smell.

MAKING A COMPOST IN ONE GO

1. COLLECT MATERIALS

- Gather enough carbon and nitrogen materials to fill a volume of approximately one cubic metre (one metre square by one metre high).
- Nitrogen-rich materials: fresh (green) grass clippings; shrub prunings; food scraps including tea and coffee grounds; manures; seaweed.
- Carbon-rich materials: dried grass; leaf litter; straw; hay; shredded newspaper, shredded office paper, pizza boxes, cardboard egg cartons.

2. SELECT A PLACE TO MAKE THE COMPOST

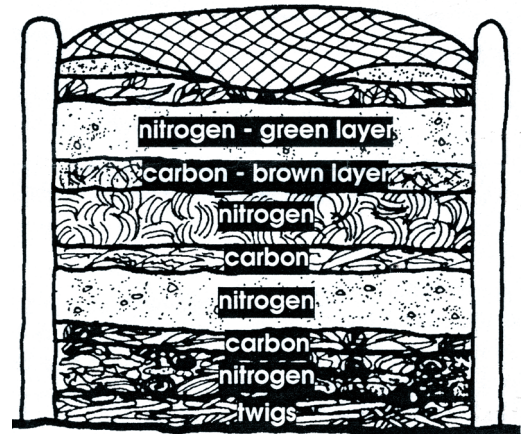
- Choose a well-drained and sunny position.

3. ADD THE MATERIALS

- It is best to make the compost on soil. If you make it on paving, place a layer of twigs at the bottom of the compost heap for drainage.
- Add a layer of nitrogen (green) material about ten centimetres thick, then a layer of carbon material (brown) to the same thickness, then another of nitrogen material and another of carbon on top of it.
- Continue alternating the layers until the bin or compost bay is filled.
- Water as you add the layers. Put the lid on a compost bin or cover the bay or heap with a porous covering such as hessian bags. This reduces water loss and allows rain to trickle into the heap to maintain moisture.

4. FOR A FAST COMPOST, TURN WEEKLY

- For a fast compost (how fast depends on material type and size, temperature and rainfall) weekly turning can produce compost in eight to ten weeks. An unturned, slow compost will take longer to break down. To make a slow compost, add material as it becomes available; layer food scraps (nitrogen material) then cover with carbon material.



PROBLEMS

- **foul smell:** too wet, not enough aeration – add dry carbon materials such as leaf litter and turn; cover when raining
- **slow decomposition:** insufficient nitrogen material; add fresh lawn clippings, kitchen scraps, animal manure, blood and bone fertiliser; could also be insufficient air – turn the heap
- **ants:** check moisture; add water if needed; cover food scraps with grass or newspaper; turn the compost
- **flies:** may be anaerobic (decomposing without air) – turn; add dry carbon or coarse materials; cover heap with hessian or similar material
- **maggots:** remove meat from compost; cover maggots with lime; add soil to top of compost and turn heap next day
- **mice/rats:** the compost heap is a warm, cosy place to raise young rodents – turn regularly; reduce the amount of bread and meat; always cover food scraps with grass or newspaper.

STAY WELL, STAY HEALTHY

Compost contains living organisms that, on rare occasions, may cause illness. Precautions include:

- moistening compost to avoid micro-organisms becoming airborne before working on compost
- wearing gloves to protect broken skin
- washing hands after handling compost
- wearing a dusk mask if you suffer from asthma or respiratory disorders
- if you handle animal manure, consider vaccination against tetanus
- protect yourself from sunburn with suncream and hat
- drink plenty of water while gardening.

REFERENCES

- Handreck K, 1993, Gardening Down-Under; CSIRO, Australia
- Rutherford, Peter W. & Lamonda, Mary Lou, 1996; The Australian Compost and Worm Book, Apollo Books, Mosman, NSW Australia
- Simons, Margaret, 2004; Resurrection in a Bucket; Allen & Unwin, Crows Nest, NSW, Australia.