

Resources

from 'soils' workshops July 2014

Worm Farming

Tumbleweed (makers of worm farms) www.tumbleweed.com.au/WormFarming/WormFarmingFAQs.aspx

Gardening Australia - www.abc.net.au/gardening/stories/s1620935.htm

Foodwise (all about reducing food waste), overview and excellent fact sheet (PDF) to download - www.foodwise.com.au/our-beginners-guide-to-worm-farming/

Worm Towers

Phil Dudman (writes for *ABC Gardening Australia* mag and elsewhere) – <http://gardendrum.com/2013/01/12/how-to-make-a-worm-tower/>

Milkwood Permaculture - <http://milkwood.net/2010/10/12/how-to-make-a-worm-tower/>

'**She cooks, she gardens**' blog about combining worm towers in wicking beds - <http://shecooksshegardens.com/2012/11/wicking-bed-update-and-an-in-bed-worm-tower/>

Collection of links to various types of worm farms www.pinterest.com/debraccollins/gardening-worm-beds-towers-tubs/

Green Manures & Crop Rotation

Green Harvest, seeds for sale and overview of green manure options – www.greenharvest.com.au/SeedOrganic/CoverCrops/GreenManureIntroduction.html

Peter Cundall, *Gardening Australia* - abc.net.au/gardening/stories/s1620940.htm

Canberra Organic Growers, overview and info on green manures - cogs.asn.au/tips-and-techniques/green-manures/

Sustainable Gardening Australia – crop rotation overview sgaonline.org.au/crop-rotation/

Compost

The Compost Book, David & Yvonne Taylor

Dedicated **compost thermometers**:

www.groundgrocer.com/reotemp-compost-thermometer-backyard

http://greenharvest.com.au/tools/soil_testing_and_monitoring_prod.html#GardenThermometer

Soil Food Web - courses, tools and further information, including on aerated compost teas: www.soilfoodweb.com.au

Soil Health (see also workshop handout)

Northern Rivers Soil Health Card - dpi.nsw.gov.au/agriculture/resources/soils/testing/health-card

Other great gardening links

Australian City Farms & Community Gardens Network factsheets - communitygarden.org.au/acfcgn/fact-sheets

Pip, Australian permaculture magazine - pipmagazine.com.au

Mentioned in the sessions

Backyard Poultry website (locally hosted, lots of info and forums) www.backyardpoultry.com

Kergunyah Garden Arts (Michael Stanton - raised beds) facebook.com/pages/Kergunyah-Garden-Arts/811571858859253

Allsun Farm (market garden) and Gundaroo Tiller (tool sellers and excellent growing CD-ROM) www.allsun.com.au

Recipe

We had requests for Jacky Cronin's tapenade recipe. She said she made the **fig and olive tapenade** along the lines of this recipe - www.epicurious.com/recipes/food/views/Fig-and-Walnut-Tapenade-with-Goat-Cheese-105649. She didn't add balsamic vinegar, but did add one clove of crushed garlic. She used dried figs from Safeway. The tapenade wasn't served with walnuts or goats cheese at our event.

Seed Savers Albury-Wodonga Inc.

Information about our group and membership –

https://www.dropbox.com/s/dmxaz4fcrj756vv/About%20SSAW_Jun14.pdf

Online membership form, if you'd like to join www.bit.ly/ssaw14mf

Special price up to and including at the AGM (August 7th) - \$15 per household for a year (usually \$20).

This resource list was compiled by Bec Chettleburgh, Lou Bull & Karen Retra for the Seed Savers Albury-Wodonga 'Sustainable Gardening' workshop series in 2014.

Seed Savers Albury-Wodonga acknowledges and appreciates the support of Riverina Institute of TAFE, Murray Local Land Services and the Australian Government in assisting us to develop and deliver this series.



Local Land
Services
Murray



Australian Government

David Taylor's Fast Fourteen from his book "The Compost Book"

*1 bucket is the equivalent of 10 litres

- 4 buckets fresh grass clippings
- 8 buckets garden waste chopped with a spade (weeds like flat weed roots and all, prunings, shredded paper)
- 8 buckets lucerne hay or chaff
- 2 buckets bran
- 2-4 buckets animal manure (2 buckets of chicken plenty; 4 of horse manure not enough)
- 2 cups molasses mixed with ¼ cup seaweed extract in 2 buckets of warm rain water.

Mix all ingredients together in a heap until you have 1 cubic metre. You may need to add extra water if the pile is dry. Cover with plastic IF NEEDED. Turn approx every 3 days until the pile cools to air temperature (within 14 days)

DAY	Make pile	YOUR PILE... LIST MATERIALS YOU USED & AMOUNT
1		
2	Pile should be warming (early phase of organisms at work like about 40C)	
3	Pile should have reached at least 55 - 57C after 24-72 hrs (needs to be 55 - 65C to kill off weeds & pathogens & held at this temp for 3 days) IF not turn to add oxygen or add some high N material to accelerate. You may need to repeat this several times to get the temp rise needed. TURN PILE	TEMP reached:
4	Pile should reach approx 65C by 3 rd day. IF not turn to add oxygen or add some high N material to accelerate.	TEMP:
5	Pile should reach approx 65C by 3 rd day. IF not turn to add oxygen or add some high N material to accelerate.	TEMP:
6	Pile should reach approx 65C by 3 rd day. IF not turn to add oxygen or add some high N material to accelerate.	TEMP:
7	TURN PILE – ensure outside material ends up in the middle	TEMP: Record smell and moisture
8	Pile temp rising again	TEMP:
9	Temp should be up to about 65C now. Turn when it hits this temp. You don't want to temp going over 68C as this encourages an anaerobic pile and you can lose the beneficial organisms. Smell will help you know if this has happened.	TEMP: Record smell and moisture
10	TURN PILE	TEMP: Record smell and moisture
11		TEMP:
12		TEMP:
13	TURN PILE	TEMP: Record smell and moisture
14	Pile can be used once stable in temperature, the pile looks like lovely crumbly humus and you can't recognise original materials used. Add a handful of dolomite and 2 handfuls of wood ash. This compost should cover 2-3 square metres.	Smell: (rich & earthy) Colour(rich brown) Texture: (crumbs with air pockets) Fungal strands: (Visible thick strands not fuzz) Water (should run through it) Seeds germinate in it.

Soil Food Institute (Lismore) guidelines also suitable for making aerated compost teas

- 50% carbon **brown** (leaves/forest leaves/ twiggy garden material/ newspaper/sawdust/straw/animal manures of horse or dried cow pats shredded)
- 40% **green** clippings (garden prunings of green materials, coffee grinds)
- 10% high nitrogen **very green** (grass clippings, lucerne as hay or chaff, chicken manure, kitchen scraps)

Layer materials in heap until it is at least 1cubic metre. You may need to add water with the addition of each layer.

DAY	Make pile	YOUR PILE... LIST MATERIALS YOU USED & AMOUNT
1		
2	Pile should be warming	
3	Pile should have reached 55 C – 57C by now (needs to 55-65 C to kill off weeds & pathogens & held at this temp for 3 days) IF not turn to add oxygen or add some high N material to accelerate. You may need to repeat this several times to get the temp rise needed.	TEMP reached:
4	Pile should reach approx 65C by 3 rd day. IF not turn to add oxygen or add some high N material to accelerate.	TEMP:
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6	Pile should reach approx 65C by 3 rd day. IF not turn to add oxygen or add some high N material to accelerate.	TEMP:
7	TURN PILE – ensure outside material ends up in the middle	Record smell and moisture
8	Pile temp rising again	TEMP:
9	Temp should be up to about 65 c now. Turn when it hits this temp. You don't want to temp going over 68 C as this encourages an anaerobic pile and you can lose the beneficial organisms. Smell will help you know if this has happened.	TEMP: Record smell and moisture
10	Temp should reach about 60 C – turn again. If the temp is going higher you may need to turn the pile a number of times still until it does only go up to 60C. This is OK.	TEMP: Record smell and moisture
11	Pile can now be left to mature for approx 3-6mths. Use relatively soon at maturity OR you can now use this for compost tea.	Smell: (rich & earthy) Colour:(rich brown) Texture: (crumbs with air pockets) Fungal strands: (Visible thick strands not fuzz) Water: (should run through it) Seeds: germinate in it.

Thermometers:

<http://www.groundgrocer.com/reotemp-compost-thermometer-backyard/>

http://greenharvest.com.au/tools/soil_testing_and_monitoring_prod.html#GardenThermometer

Courses, tools and further Information: <http://www.soilfoodweb.com.au/>

Notes compiled for Seed Savers Albury-Wodonga by Lou Bull for the Sustainable Gardening Workshops 2014



FEBRUARY

NANA TECHNOLOGY: Bottling Sunday 23rd, 10am – 12pm @ Wood fired Oven

MARCH

Seed Saving Skills and Tips - Wed 5th, 6:30 pm @ NEC*

APRIL

NANA TECHNOLOGY: Pickling - Sunday 6th, 3pm - 5pm @ Wood fired Oven

Also: Committee meeting

MAY

Seed Cleaning workshop - Sat 3rd May, 3-5pm @ NEC*

JUNE

Get Growing Sustainably - workshop - Sat 21st or Sun 22nd June, 1:30pm - 4:30pm @ NEC*

Also: Committee meeting

JULY

Soils - workshop - Sat 12th or Sun 13th, 1:30pm -4:30pm, @ NEC*

AUGUST

Guest Speaker on Native Foods & AGM – Thurs 7th, 6:30pm - 8pm @ NEC*

Open Garden – ‘Aquila’: Sat 16th & Sun 17th, 10am to 4:30pm. Lou Bull’s garden will open to the public with Open Gardens Australia. An opportunity to be inspired by Lou and her family’s garden just as the growing season begins. \$8 entry fee, children free.

Also: Committee meeting

SEPTEMBER

Attending Farmers’ markets, including seed saving demo’s –Thurs 4th (evening) & Sat 13th (morning)

OCTOBER

Propagation, Seed Saving & Surviving Summer - workshop, Sat 11th or Sun 12th, 2pm-5pm @ NEC*

Also: Committee meeting

NOVEMBER

End of year celebration; date and venue to be confirmed.

* Access our seed bank at these events.

NEC = National Environment Centre, Thurgoona. Map: <http://goo.gl/maps/07sbw>



Our events are also listed online at Ecoportal.net.au