

How to Manage a Worm Farm

- **Ensure that excess water can drain freely** through the worm farm. Leave the tap open all the time (or better still, remove the tap completely). Use a bucket underneath to collect the valuable liquid.
- **Lift up the 'Worm Blanket'** – add a thin layer of food scraps on up to half (max) of the surface of the feeding tray, sprinkle with a few handfuls of soil or potting mix, worms don't have any teeth they need the grit (from the soil) to grind their food. Feed with a high variety/diversity of food scraps. Any food scraps except meat, can be used to feed your worms. Citrus and onions can also be added in small amounts. The more chopped up the food scraps are, the quicker it will be converted by the microbes and worms into humus. Some people actually 'blend' their food scraps and then feed this blend to their worms. This allows a greater quantity of food scraps to be processed through the worm farm.
- **Replace the 'worm blanket' and put on the lid.** Put a brick or something 'weighty' on the lid to hold it down.
- **How much food?** This will depend on how many worms are in your farm and the daily temperature. Worms like a soil temp of about 20 to 25 deg C. If it is too hot or too cold they will slow down and eat less. One of the biggest mistakes people make with worm farms is OVERFEEDING! If you are overfeeding and the worms can't eat it all, it will start to smell bad! If this happens, get a small garden tool or stick, and mix & aerate the tray you are feeding into. Add a bit more soil and a sprinkle of 'Worm Farm & Compost Conditioner' and do not feed for a few days or even a week.
- **Every time you feed your worms**, sprinkle a few handfuls of soil on top of the food. This gives the worms some grit, which they use in their gizzard, to grind their food (worms don't have any teeth!).
- **Keep the surface covered** with a 'Worm Blanket' or a hessian sack. Do not use thick newspaper over the surface as this can limit aeration to the oxygen breathing worms.
- **Keep the system moist at all times.** Once a week flood the worm farm with a bucket (4-6 litres) of fresh water over the entire surface of the feeding tray until 'worm juice' is running out the open tap. Leave the tap open 24/7. This will also ensure that you get a regular supply of worm juice to spray and water onto your plants and living garden soil, (NB empty out the worm juice bucket every day – this will stop it smelling -going anaerobic- and will stop mossies breeding in there).
- **Once a week sprinkle** a teaspoon of 'Worm Farm & Compost Conditioner' or dolomite onto the surface of your feeding tray, this balances the pH. A good time to do this is after you have watered your worm farm (so the dry powder doesn't land on the worms & burn a hole in their skin).
- **OPTIONAL:** Sprinkle a handful **once a month of Basalt Rock Dust** into your worm farm. Good rock dust can add 70 (seventy!) or more different minerals into the system and then into YOU, when you eat the plants grown using some of these wonderful worm castings. Rock Dust can also be added to your veggie and herb gardens directly – about a handful per sq metre – every 1 or 2 years.

When your Worm Farm is FULL! (changing trays and using the castings)

- Take off the 'worm blanket', (it may be time for a NEW ONE!).
- Lift off the full, top feeding tray – put it to one side carefully.
- Lift off the home tray. Empty the contents & clean this tray, (this beautiful black worm casting material can either be used in small amounts on your potted plants or around the drip line of plants in your gardens - always cover with a mulch-. You may also mix it in with your maturing compost).
- Rinse out the bottom liquid collection tray.
- Now the full feeding tray is put back in position as their new home tray.

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- Put the clean empty tray on top, add a couple of handfuls of soil in here & begin feeding.
- This rotation method is repeated every time your feeding tray fills up (usually around 2 to 3 months – depending on the number of worms in your worm farm & how much you are feeding them).

How to Encourage Worms Back to Your Gardens

- Always have a layer of organic mulch on the soil surface, eg grass clippings, leaves, recycled organics from council pick-ups, shredded garden prunings, newspaper, hessian /jute sacks, etc
- Continue to increase the diversity (variety) of mulches added to your garden.
- Keep your garden soil moist.
- Add ‘pockets’ of worm castings under your mulch, (take castings from your worm system). These surface living (compost) worms will encourage the deeper living worms into your garden as well.

How to Use ‘Worm Juice’ on Your Gardens

‘Worm Juice’ can be used in two main ways with your plants.

1. Poured directly onto the soil of either your potted plants or veggie and herb gardens.
2. As a special foliar spray to use as a ‘tonic’ on the leaves of your plants.

1. Directly onto the Soil

Always water into the soil at the **drip line** – if possible – otherwise water into the main area of root mass of the plant.

Always use fresh and aerated ‘juice. Commercial farmers have special ‘stirring vats’ to mix the juice with a ‘vortex’ and ‘reverse vortex’ mixing pattern for sometimes up to 24 hours to fully aerate the liquid to dramatically increase the living population of beneficial aerobic microbes in the mix. If mixing it yourself the ‘juice’ can be put into a bucket or other container and mixed vigorously to a vortex in one direction and then stopped (chaos) and then vigorously to a vortex in the opposite direction - continue this for at least one hour if possible.

You can use it **undiluted** around well-established plants, however **dilute** the ‘worm juice’ to the colour of weak ‘tea’ if using around young plants and seedlings!

2. As a Foliar Spray to use as a ‘Tonic’ on the Leaves of your Plants

This ‘juice’ can help prevent many fungal organisms from damaging your plants and is also a good ‘foliar feed’ for your plants at flower and fruit set times or just for a ‘nice little boost’ for your lovely herbs, veggies and fruit trees.

- Always use fresh and aerated ‘juice. Dilute the ‘worm juice’ to the colour of weak ‘tea’
- Filter the juice through a fine strainer or use an old stocking as you strainer.
- Strain the filtered juice into your spray bottle.
- Now you can spray this ‘juice’ or you can add some Fish Emulsion and also some ‘Seasol’ or other good seaweed product into the mix – at their recommended rates – and spray your plants with this!
- Spray onto plant leaves directly making sure to cover the fronts & backs of the leaves

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Worms, Worms, Worms continued

The Most Common Issues with Worm Farms

1. Water tap blocks up on bottom tray. Moisture can't drain through the worm farm and oxygen is diminished. REMEDY – Leave the tap open all the time, OR remove the tap completely and place a bucket under the hole to catch the 'worm juice'. Once you have removed the tap, a good practice is to flood the worm farm with fresh water, from the top, once a week. Use 5 litres or more. The worms love a moist home but it must be WELL DRAINED!

2. Gap between top of 'home' tray and the bottom of 'feeding' tray. REMEDY – Lift off feeding tray and simply add some soil, mature compost or potting mix to the surface of the 'home' tray. Put feeding tray back on top of home tray.

3. Overfeeding! (worm farm will be smelly!) REMEDY – Stop feeding for a week. Sprinkle on a handful of 'Worm Farm & Compost Conditioner' or dolomite and gently dig and mix the smelly food layer with a small garden tool or strong stick. Also sprinkle on a few more handfuls of garden soil onto the surface, under the 'worm blanket'.

4. Worms seem slow to process the food scraps. REMEDY – Sprinkle a couple of handfuls of soil on top of the food scraps every time you feed the worm farm. This gives the worms some 'grit' to use in their gizzard to grind the food before they digest it in their stomach. Gently dig and mix the food layer with a small garden tool or strong stick. Also add a sprinkling of 'Worm Farm & Compost Conditioner' every week.

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