



DOUDA VERMICULTURE SOLUTIONS



Overview

Douda Vermiculture Solutions is a Lebanese company that offers the ultimate sustainable solution for an odorless, fast and simple way to treat organic waste at the source. We strive to expand the practice of vermicomposting in communities, businesses, and households as a waste management strategy. We also work towards achieving environmental and agricultural sustainability through promoting vermicomposting and vermicompost application as a regenerative agriculture practice to restore soil quality and increase food security in the region. We seek to encourage the youth to play their role in making our environment safer, cleaner and more sustainable.

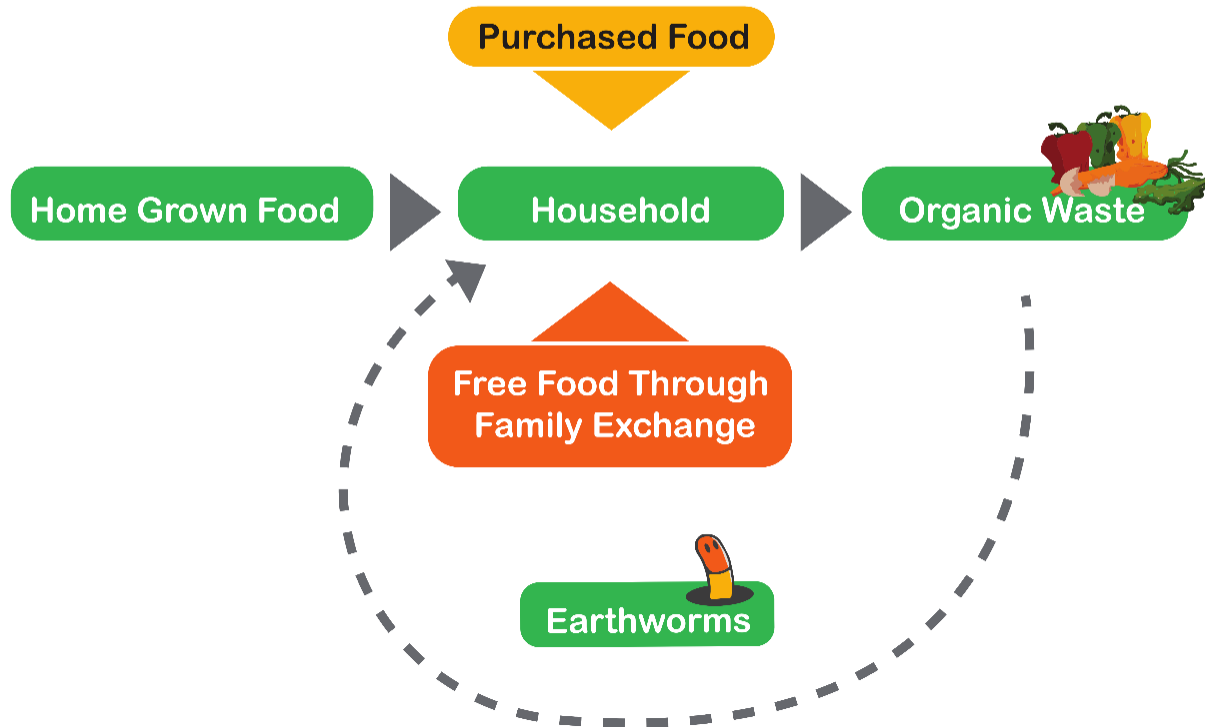


Why Vermicomposting is Important



Achieves Household Closed System,
Recycling Back Energy Outputs.

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Benefits of vermicomposting

Worm castings contain higher percentage of both macro and micronutrients than the garden compost.

- Vermicompost enhances plant growth,
- Suppresses disease in plants,
- Increases porosity and microbial activity in soil,
- Improves water retention and aeration.
- Reduces the need for chemical fertilizers
- Decreases the amount of waste going to landfills



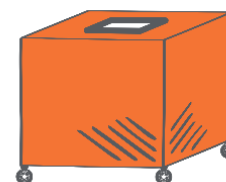
Organic Waste

+



Earthworms

=



Douda Bin



One Time Investment that comes with many benefits

- Recycle organic waste at the source
 - Save an endangered species
 - Produce High Quality soil amendment “Vermicompost”
 - Education tool for sustainability principles that allows the developments of good habits such as sorting and recycling
- Raise awareness on the important role of earthworms in restoring soil ecosystems and treating organic waste.
Entertaining and fun way to learn by doing.

Comparison Between Vermicomposting and Regular Composting

Microbial Populations

-Composting: Since traditional compost piles can get hot, they are dominated by thermophilic microbes that can thrive in those temperatures.

-Vermicomposting: Worm compost is dominated by mesophilic microbes that require more moderate temperatures.

Speed of Processing

-Composting: It's slow. A hot compost pile can take 6-9 months to finish.

-Vermicomposting: Much faster. A vermicompost bin can become "finished" and ready for harvesting in as little as 8-12 weeks.

Aeration

-Composting: The depth of compost piles necessitates that they be turned in order to ensure all input materials get processed.

-Vermicomposting: These magical worms actually do your turning for you!



Space Required

-Composting: Because hot compost piles are deep, you typically don't need that much space for a given volume of compost.

-Vermicomposting: The epigeic earthworms used in vermicomposting do not burrow and will only work the top 6-12 inches of material, so available surface area, not depth is the limiting factor.

Cost

-Composting: Composting is cheap! Just find a surface you don't mind using for composting and just start layering on your browns and greens.

-Vermicomposting: Vermicomposting isn't expensive, but you do have to buy the worms and a bin.

Financial Value

-Composting: The compost itself is cheap too! You can often get it for free from a local municipality for no more than the cost of delivering it.







-Vermicomposting: Vermicompost has a much greater financial value. And depending upon the quantity, region, and season.



Worms Menu



What can I feed my worms?

-  Fruits
-  Vegetables
-  Greens
-  Shredded cardboard, papers and newspapers
-  Tea bags
-  Coffee grounds



What to not feed worms?

-  Oil
-  Meat, Chicken, fish
-  Onion
-  Garlic
-  Vinegar
-  Citrus
-  Cooked meals





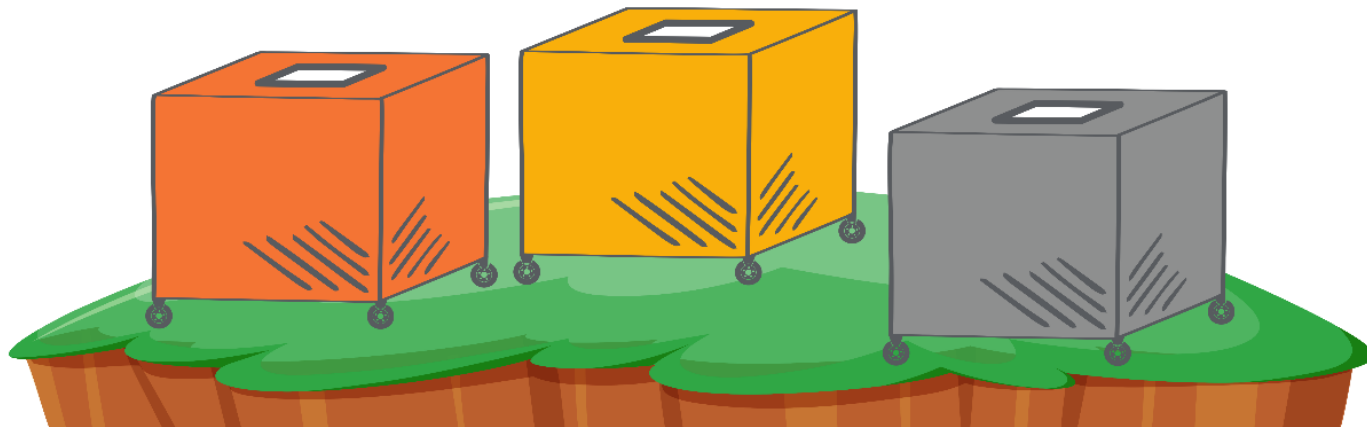
How to Startup

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- 1- Place Douda Bin in a shaded and dry spot (avoid direct light and rain).
- 2- Monitor the moisture content of the Bin once per week. Make sure the Bin content is not too dry or too wet.
- 3- Put the organic waste, worms' food, in a different corner of the Bin every time you feed them.
- 4- Don't overfeed the worms. Waste level should not exceed 5 cm.
- 5- Open the upper lid when temperature exceeds 30°C to allow proper ventilation.
- 6- You can use packaging papers as worms' food.
- 7- For faster results, chop the worms' food into small pieces instead of putting them in bulks.



The Douda Bin is available in 3 colors:
Yellow, Grey, and brick
It has a smooth texture that is easy to clean.





THANK YOU!!