

VERMICULTURE PRODUCTS

a. Vermicompost

b. Vermimeal

Advantages of Vermicomposting:

- 1.Environment friendly
- 2.No imported inputs required
- 3.Labor extensive
- 4.Highly profitable

Benefits of vermicompost/casting on the soil

1. Increase moisture and nutrient retention of the soil.
2. Improves aeration and root penetration.
3. Reduces crusting of soil surface.
4. Micronutrients are added.
5. Increases the number of beneficial soil microorganisms.

SOURCES OF ORGANIC WASTE FOR MANURE PRODUCTION

- a. Cow dung
- b. Cattle dung
- c. Sheep droppings
- d. Stubbles from harvested crops
- e. Husks and corn cobs
- f. Weeds
- g. Kitchen wastes, etc.

WHAT IS VERMICAST

Vermicast - is produced by the feeding action of earthworms

- earthworm ingest organic matter, fragmenting and grinding it into a finely divided peat like materials with high porosity, aeration, drainage and water holding capacity.
- humus form the dark brown or black mass of the upper and is important for storing and releasing plant nutrients.

- as fertilizer, vermicast contain nutrients in a form that are readily taken up by the plants such as:

- a. Nitrates
- b. Exchangeable phosphorus
- c. Soluble potassium
- d. Calcium
- e. Magnesium

Vermicast has also been shown to reduce the incidence of plant disease.

Vermicompost "teas"

- aqueous extract ("teas") from vermicompost, have suppressed plant pathogens such as Plectusporium, Verticillium and Rhizoctonia, significantly in laboratory and greenhouse experiment (Research group at OSU)

Preparation of aqueous vermicompost extract ("teas")

There are many ways of producing vermicompost aqueous extracts- including on-farm and commercial processing. The method includes:

- * Passing water through vermicompost
- * Standing vermicompost in water (1-7 days)
- * Modification of the method
 - aeration
 - addition of other materials

How to prepare:

1. Collect vermicast from your vermibed.
2. Put the vermicast in mesh bag and soak it in a pail of water with a ratio of 1 part vermicast into 10 parts water.
3. Stood the solid for 24 hours with stirring but no aeration.
4. After 24 hours, tea is ready for used.

Apply early in the morning or late in the afternoon.

THANK YOU FOR TAKING GOOD CARE OF
ME BY THE TIME YOU DIE, I WILL TAKE
CARE OF YOU!!!