Worm type:

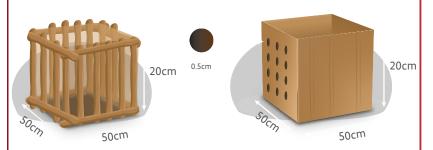
Eisenia fetida, commonly known as "red worms" or "red wigglers" are perfect worms for composting.

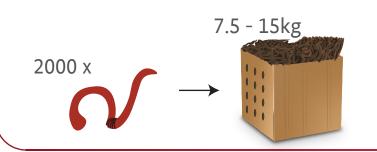


Worm bin:

The preferred size is 50 cm (length) X 50 cm (width) X 20 (height) cm with holes of 0.5 cm diameter on the top, bottom and sides. The bin with a population of 2000 worms will be able to process about 7.5-15 kg of waste weekly.

Bin can be prepared from locally available materials.



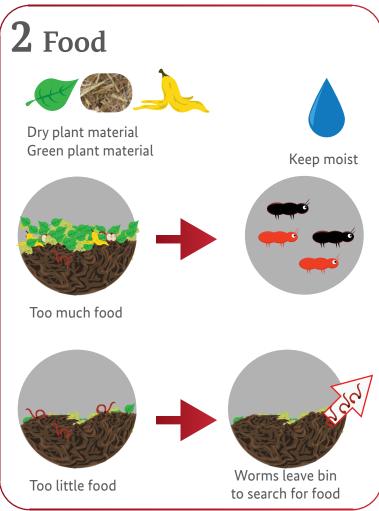


Examples of Bins

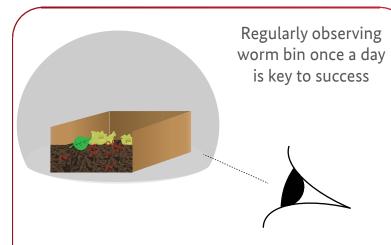








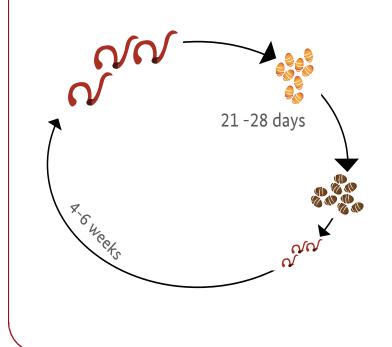




Reproduction:

Hermaphrodites but needs two worms to produce coccoons

Cocoons are hatched to worms



ESSENTIALS FOR WORM REARING

BEDDING

Any carbon source like dead & dried leaves, hay, straw, manure and compost



FOOD SOURCE

Under ideal conditions worms are consume food more than their body weight each day.



Dry, green plant materials & pre-fermented manures are suitable for worms.

ADEQUATE OXYGEN Worms need oxygen and cannot survive in anaerobic conditions. **ADEQUATE** in the range of 60-70%

TEMPERATURE CONTROL

15°C - 35°C

Require moderate temperatures from 15 - 35°C.

Higher temperatures (> 35 ° C) may result in high mortality

Prepared by: GIZ ISFM+ Project, P.O. Box 100009, Addis Ababa, Ethiopia in collaboration with MoA (V101218)





Food is exposed

Bury food completely

Fruit Flies Food is exposed Bury food completely



Don't overfeed worms

Mite Infestation

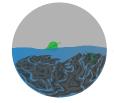






Stop adding foods with high moisture contents like fruit &

Overly Moist







Stop adding water,



add paper to absorb

Ant Infestation





Place ant traps near bin and immerse bin feet in





Vermicomposting

Vermicomposting is a method of composting that uses worms to break down waste into nutrient rich soil. It is a faster process than other composting methods.

