Vermicompost Production in Raised Beds

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A. The benefits of earthworm compost

- 1) to dissolve plant and animal waste,
- 2) to bring soil from below to surface area,
- 3) to make tunnels in the soil to let water, air and roots in,
- 4) to produce bacteria and protein that promote plant growth.

B. How to produce compost with earthworms

Raw materials for raising earthworms:





C. Raising earthworms in beds



1) Soil, cow dung, vegetable waste are mixed together thoroughly. Water is added until moisture is around 70-80%.



1) Soil and two-week old cow dung



3) Coconut fibers

2) Vegetable waste or dried leaves



4) Water

2) 3% Earthworms added to raised bed containers with 97% earthworm food (See Section B).



3) Water everyday to maintain moisture and

D. How to use

1) Use directly:

0.1 kg of Earthworm compost is mixed thoroughly with **5 kg** of soil. Apply to field **2-3** times per month.

2) Use on farms:

30% of Earthworm compost is mixed thoroughly with **70%** surface soil collected from farm. Can replace 30% of farm soil with rice husk.

E. Result of Earthworm Quality Analysis				
Earthworm	Total	Total	Total	Moisture
	Nitrogen	Phosphorous	Potassium	Content (%)
	(%N)	(%P ₂ O ₂)	(%K ₂ O)	
Sample from	1.13	0.30	0.40	71.55
project				
Sample from	1.05	0.60	0.20	71.00
Thailand				
markat				

temperature.



4) After at least 3 weeks, harvest compost



5) Harvested compost was chemically analyzed (See Section E)







