



Compost and Vermicompost

Using earthworms to hasten the process  
Vermicompost



Crop Rotation

- ✓ Legumes :: Conducts atmospheric Nitrogen into Nitrogen Oxide because it contains Nitrogen Fixing bacteria.

Crop Rotation Example		
Year 1	Bed 1	Bed 2
	Corn	Corn
	Bed 1	Bed 1
Year 2	Corn	Corn
	Bed 1	Bed 2
		Bed 3
Year 3	Legume	Corn
	Bed 1	Bed 2
		Bed 3

- ✓ Mostly legumes are included in crop rotation to increase soil fertility.

→ Fertilizers use is decreased.

Biofertilizer

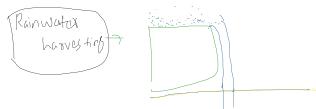
6-8 weeks (Flowering stage)

1 - 2 months (budding).

considering the soil in Nitrogen and phosphorus.

In soil organic matter + nutrients

River lift systems — Canal System fails.  
River lift Systems bring river water into produce

Fertilizers

Commercially produced plant nutrient

N, K, P.

→ Fertilizers can't be applied in Juvenile Stage

Irrigation

All living organisms require water — (humans as well as plants)

Photosynthesis  
— sunlight, water,  
CO<sub>2</sub>

→ plants water requirement are fulfilled by rain well

Irrigation → Fresh water resources

Rivers  
water works

Dug wells

Wells — Two types of wells

Water bearing Shallow — Earth's layer where water is present.

Cropping Patterns

→ Farming with planning → planned Farming

→ Grow Suitable crops with respect to the Soil & Climatic conditions of that region

Mixed Cropping

Rice — 6 months

No income

Intercropping

along with Rice, 3')

to cultivate some other crops which can be harvested in 2-3 months

so that it could give more some

Ex-  
what to do  
leguminous  
crops  
does  
Nitrogen  
fixation

2nd farm

at in crease the  
nitrogen in soil

Intercropping is growing two or more crops simultaneously on the same field in a definite pattern [Fig.15.2]. A few rows of one

crop intermixed with the main crop

main crop

nitrogen fixing

main crop