

The background of the slide is a collage of agricultural products. In the top left, there are rows of red beans. In the top right, there is a yellow corn cob. In the bottom left, there is a woven basket filled with yellow corn cobs. In the bottom right, there is another yellow corn cob. The text is overlaid on a semi-transparent white box in the center.

Natural Farming Approach :
INTEGRATED FARMING SYSTEM
(IFS)

Merenchila Kichu
ATM, Longleng Block

INTEGRATED FARMING SYSTEM

- Integrated farming system is a sustainable agricultural system that integrates livestock, crop production, fish, poultry, tree crops, plantation crops and other systems that benefit each other.
- It is based on the concept that **‘there is no waste’** and **‘waste is only a misplaced resource’** which means waste from one component becomes an input for another part of the system.
- IFS approach is considered to be the most powerful tool for enhancing profitability of farming systems especially for small and marginal farmers to make them bountiful.

Goals of Integrated Farming System

- Enhancing productivity per unit area
- Proper waste management
- Generation of continuous income round the year
- Reducing use of chemicals
- Maximization of yield of all component enterprises
- Soil health management

Components of Integrated Farming System (IFS)

- Piggery
- Poultry
- Duckery
- Fishery
- Plantation crops
- Apiary
- Mushroom Cultivation
- Vermicomposting
- Fruit cultivation

Model 1 : Horticulture + Piggery + Fisheries + Plantation Crops



Pig dung acts as excellent pond fertilizer and some fishes feeds directly on the pig excreta.

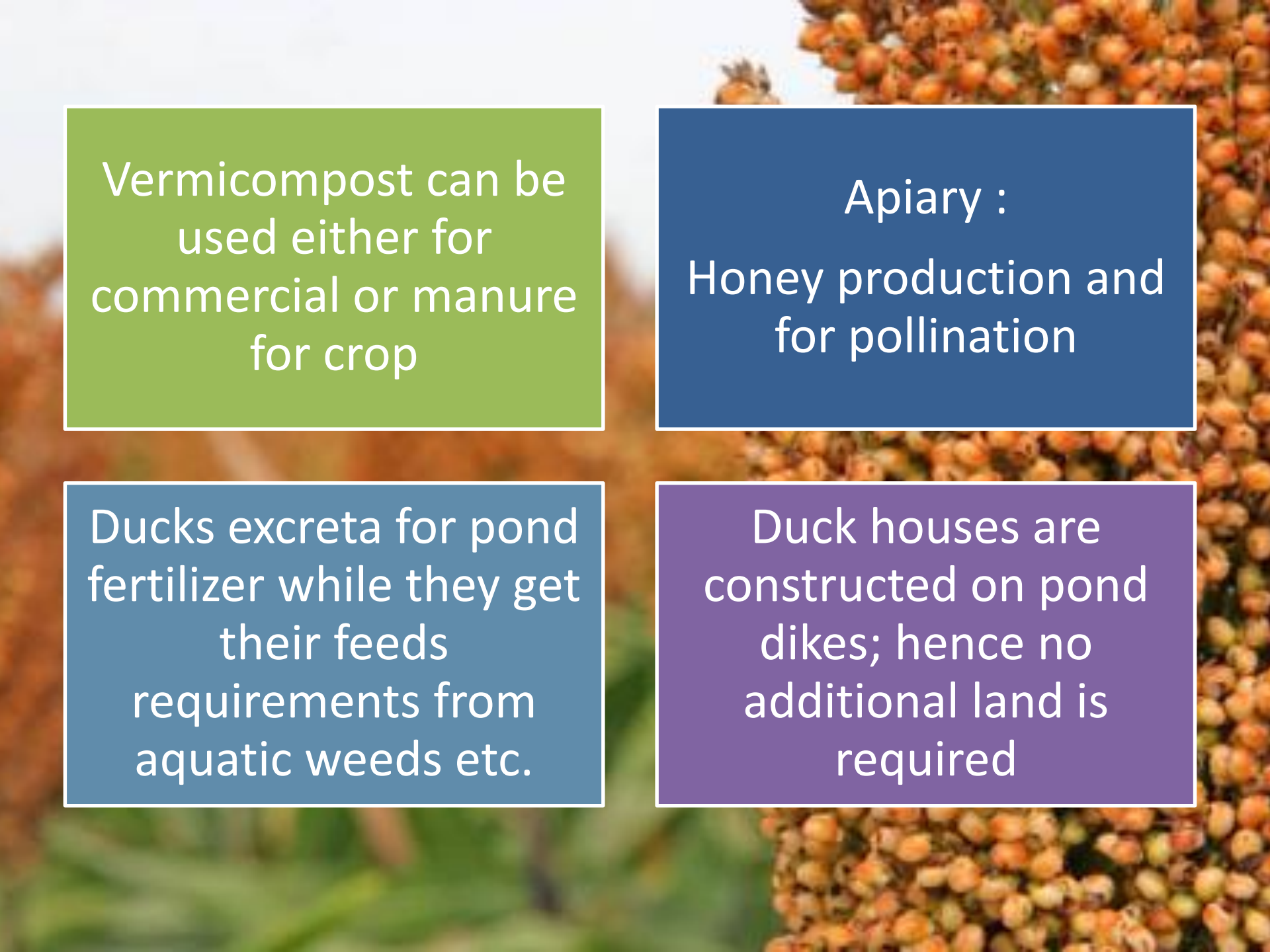
Pond water is used for cleaning pigsties and bathing the pigs

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Plantation trees as shade for the fishery pond or planted as fodder production between orchard trees to prevent soil erosion

Model 2 : Horticulture + Duckery + Fishery + Plantation crops + Vermicomposting + Apiary





Vermicompost can be used either for commercial or manure for crop

Apiary :
Honey production and for pollination

Ducks excreta for pond fertilizer while they get their feeds requirements from aquatic weeds etc.

Duck houses are constructed on pond dikes; hence no additional land is required

Model 3 : Agriculture + Horticulture + Poultry + Fishery

Fruits crop + Vegetables and Spices Crop + Field crops + Plantation Crops

Fishery + Vermicompost unit + Piggery



Model 4 : Agriculture + Horticulture + Poultry + Fishery + Azolla + Mushroom



A close-up photograph of a basket filled with green eggplants. The eggplants are of various sizes and are piled together, filling the entire frame. The lighting is natural, highlighting the texture of the skin and the green color.

Mushroom cultivation :

Straw residues for manuring, composting, mushrooms

Poultry :

Egg/ meat, Manure, feeds for pig, income

Azolla :

Bio-fertilizer, balanced feed for all cattles, natural fertilizer for rice



Conclusion

- Integrated Farming System is a promising approach for increasing productivity and profitability through recycling the farm by-products and efficient utilization of available resources. Further it generates employment opportunities to the farming communities round the year and provide a better economic and nutritional security
- It also maintains environmental quality and ecological stability.



THANK YOU