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Lecture -14

**Site specific
development of IFS
model for different
agro-climatic zones**



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Integrated Farming systems for different Agro-climatic zones (India)

1. **High altitude cold deserts:** Pastures with forestry, goats, angora rabbits and limited settled agricultural crops like millets, wheat, barley and fodder.
2. **Arid and desert region:** Centering mainly in animal husbandary with the camels, sheep and goat with moderate cropping components involving pearl millet, wheat, pulses and fodder



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3. Western and central Himalayas:

Horticultural crops as major component have less intensive agriculture mainly on the hill terraces and slopes with maize, rice, wheat, pulses and fodder crops

4. Eastern Himalayas: Primitive crop husbandary with rice, millets, pulses etc. Agro-forestry system is also common. Piggery and poultry are the chief livestock activity.



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- 5. Indo- Gangetic plains:** Intensive crop husbandary involving rice, wheat, maize, mustard, pulses and livestock inclusive of diary cattle and buffaloes
- 6. Central and southern highlands:** Cotton, sorghum, millet, pulses with diary cattle, sheep and goats and poultry are the secondary livestock and animal husbandary enterprises



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7. Western Ghats: Major activity on plantation crops, cultivation of rice and pulses are the secondary agricultural activity. Cattle, sheep and goats are the livestock components which in most parts are maintained as large herds and allowed to range

8. Delta and coastal plains: Rice cultivation along with fish culture, poultry and piggery enterprises, capture fisheries of the marine ecosystem is a specialized enterprise and does not mix with cropping activity



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IFS for Irrigated low and uplands

- Crop- Livestock- Fish Farming (Wetland)
- **Mulberry Dyke-Pond Systems**
- Cropping + poultry/pigeon/goat+ fishery
- **(Tamilnadu):** IFS – Tamil Nadu – Cauvery delta Zone (Crop – poultry- fish system)
- Rice- fish – poultry- mushroom (**Tamilnadu**)
- Crop + dairy + biogas + silviculture (Irrigated upland, Tamilnadu)
- Crop + dairy + biogas + mushroom for Irrigated Situations (Garden lands, Tamilnadu)



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Rainfall and dryland

- Cropping + Telicherry goat
(Tamilnadu)
- **Bio-diverse Multi-tier System
(Rainfed land)**
- **Crop + goat (Tamilnadu)**



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ISLANDS

- Coconut – cum – fodder- cum – milch cattle
- Coconut – cum fish culture in salt affected lands
- Fruits- fodder- milch cattle
- Cocunut-cum-fodder-cum-fish or prawn culture



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Thank You