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Center for Smart Agriculture

Organic Farming



Module 3: Crop management

Session3: Designing Cropping system



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- The term *cropping system* refers to the crops and crop sequences and the management techniques used on a particular field over a period of years.
- Long-term cropping systems research projects generally involve a team of scientists of different disciplines working together to answer questions and solve problems.



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- **Methods of Cropping System are:**

1. **Monocropping /Sole Cropping:** One crop or variety is grown alone in pure stands at normal density season after season or year after year in the same field.

2. **Multiple Cropping:** Cultivation of two or more crops on the same piece of land in a year. The intensification of cropping is in terms of time and space dimensions. Multiple cropping systems can be classified as follows.



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3. Sequential Cropping:

Growing of two or more crops in sequence on the same piece of land in the same year. The succeeding crop is planted or sown only after harvest of the preceding crop. The crop intensification is only in terms of time dimension. Farmers will manage only one crop at a time



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Common objectives of cropping systems are

- To increase crop diversity with non-cereals such as oilseed and legume crops, intensify rotations (i.e., less fallow),
- Maintain or increase soil quality, reduce or eliminate tillage,
- Sustain economic profitability for farmers.



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THANK YOU