

SUSTAINABLE AGRICULTURE PRACTICES

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Sustainable Agriculture Practices are referred to as those farming practices in which sustainable ways are used for meeting today's food and textile needs, without negotiating the ability of current or future generations to meet their needs.

It is using farming practices considering the ecological cycles. This method is also delicate towards the microorganisms and their equations with the environment on a large expansion.

This kind of farming practice mainly focuses on: -

1. Building healthy soil and preventing erosion
2. Managing water wisely
3. Minimizing air and water pollution
4. Storing carbon on farms
5. Increasing resilience to extreme weather
6. Promoting biodiversity

The various methods or practices of Sustainable Farming in detail: -

1. Making use of Renewable Energy Sources- Solar panels can be used to store solar energy and further used for electrical fencing and running of pumps and heaters. Flowing river water can be a source of hydroelectric power which can be used to run various machines on farms. Similarly, geothermal heat pumps dig beneath the earth and can take advantage of earth's heat.

2. Integrated pest management-Integrated pest management is a combination of pest control techniques for identifying and observing pests in the initial stages.

3. Hydroponics and Aquaponics In hydroponic systems the crops are grown with the roots dipped in a mineral solution or with the roots in an inert medium like gravel or perlite.

4. Crop Rotation- IT is an ancient method used for keeping the soil rich with nutrients.

5. Polyculture Farming-It comprises growing multiple crop species in one particular area. These species go well with each other and greater diversity of products can be made possible at one plot while fully utilizing the available resources.

6. Permaculture-Permaculture is a food production system involving smart farming to reduce waste of resources and create increased production efficiency.

7. Natural Pest Eliminators- Natural pest eliminators include Bats, birds, insects, etc. In this method insects such as ladybugs, beetles, green lacewing larvae, and fly parasites all are fed on pests, including aphids, mites, and pest flies.



Sustainable Agriculture

Advances in Technological Interventions



Source- Amazon.in