

Center for Smart Agriculture

Organic Certification and Inspection

Systems



National Programme for Organic Production

Module 1: Organic Agriculture Session 3: Characteristics Of Organic Agriculture Centurion UNIVERSITY Shaping Lives... Empowering Communities...

Comparative Perspective of Organic and Conventional Agriculture

While organic agriculture aims to be environmentally sustainable, it has not yet reached its goals and there are issues that still need to be addressed. One such issue is about the yields

✓ High input-high yielding systems are currently failing to feed the world, not because of problems with productivity, but because of problems with food distribution and social organization, and serious concerns such as poverty, racism and gender imbalance.



Why Organic Agriculture ?

Yields equivalent to or better than conventional agriculture can be achieved under organic systems, although it requires long term planning;

Yields decrease during conversion period but then improve afterwards;

Organic farms have higher soil biological activity and biodiversity;

Weeds can have major impact on yields and pests on specific crops, are problematic;



Organic agriculture causes no/or very little pesticide contamination in food, people and the environment; and

The beneficial effects of organic agriculture in food quality are appealing but are yet to be authenticated.



Key Characteristics Of Organic Agriculture

- Relies primarily on local, renewable resources;
- Makes efficient use of solar energy and the production potential of biological systems;
- ✤ Maintains the fertility of the soil;
- Maximises recycling of plant nutrients and organic matter;



Does not use organisms or substances foreign to nature (e.g. GMOs, chemical fertilizers or pesticides);

Maintains diversity in the production system as well as the agricultural landscape;

Gives farm animals life conditions that correspond to their ecological role and allow them a natural behavior.

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□ Increasing yields in low-input areas;

□Conserving bio-diversity and nature resources on The farm and in the surrounding area;

□ Increasing income and/or reducing costs;

□ Producing safe and varied food;

Being sustainable in the long term.



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THANK YOU