

ORGANIC AGRICULTURE AND ITS BENEFITS FOR CLIMATE AND BIODIVERSITY

Organic farming's systemic approach:

- Helps mitigating climate change
- Supports farmers' adaptation to climate change
- Creates resilient farming systems

All while it protects and improves biodiversity!

#OrganicIsPartOfTheSolution



Water benefits

- ⬇️ 28-39% less nitrate leaching
- ⬆️ Water bodies are protected from contaminants



Biodiversity benefits

- ⬆️ 30% more species
- ⬆️ 50% more individuals
- ⬆️ 20-95% more plant species*
- ⬆️ 150% higher abundance of plant species*
- ⬆️ 23% more insect species
- ⬆️ 30% more pollinators

*in field and field margins



Climate benefits

Reduced emissions by non-use of synthetic fertilisers

- ⬇️ 20% of global agricultural GHG emissions could be reduced using no synthetic fertilisers
- ⬇️ 40% less NOx emissions/ha
- ⬇️ Less dependency from fossil fuel intensive external inputs

Improved manure management

- ⬇️ 70% lower methane emissions
- ⬇️ 50% lower nitrous oxide emissions

Reduced GHG emissions and increased carbon sequestration

- ⬆️ Additional 3.5 tonnes C/ha soil organic carbon stocks
- ⬆️ Additional 450 kg C/ha/yr carbon sequestration
- ⬆️ 15% less energy consumed per kg of product
- ⬆️ More resilient to changing weather conditions
- ⬆️ 1082 kg CO2 eq/ha/yr avg climate protection performance

Keeps animals with outside grazing areas and has clear rules on stocking densities

Aims for closed nutrient cycles without using synthetic pesticides and fertilisers

ORGANIC FARMING

Includes beneficial management practices like crop rotations and organic fertiliser



Soil and plant health benefits

- ⬆️ Improved soil quality and fertility
- ⬆️ Better structure
- ⬆️ Higher humus content
- ⬆️ Better soil aggregate stability
- ⬆️ 22% less soil erosion
- ⬆️ 26% less soil loss
- ⬆️ Increased water infiltration rate by 137%

Offers a diversity of farmland through mindful land use and protection of natural habitats

Biodiversity and healthy soil = adaptation



- ⬆️ Increased biodiversity supports natural pest control
- ⬆️ Stabler yields during drought periods
- ⬆️ Increased adaptability to future environmental conditions