

Agroecology Techniques in Palestine

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Abstract : Agro-ecology is considered one of the agricultural approaches that is spreading across the world due to the practical solutions it provides that are in harmony with nature. These solutions target many agricultural problems, food production issues, and climate change. Agriculture and fertile soil in particular, play a vital role when it comes to food security and climate change. The organic substances, which mainly consist of carbon, in the soil contribute to the ecological system through 4 elements: Resistance to soil erosion, conserving water in soil, increasing soil fertility, and improving the biodiversity in it. Any small changes to the carbon storage in soil have a tremendous impact on both agricultural productivity and the greenhouse gas cycle, which is what agro-ecology aims to achieve. The importance of agro-ecology lies here, as it helps increase organic matter/carbon in the soil, on an ongoing basis, 15-20 times higher than nature's rate in producing organic matter. Agro-ecology is set to increase the production of crops free of chemicals, develop organic matter, and establish carbon in soil, thus being a factor in limiting climate change, not just mitigating or adapting. Under the events of the rapid increase in population and the need to feed humans, agro-ecology stands in the first place as it surpasses the productivity of chemical agriculture per unit area, according to international and local experience. The introduction of agro-ecology to Palestine started 15 years ago, with modest beginnings faced with a lot of criticism and opposition, but is currently experiencing rapid growth among farmers and is becoming accepted among specialists. Even though the number of agro-ecologist farmers is still small, it reflects a state of turnover into a more sustainable, less polluting agriculture that works on renewing life and the elements of nature.

Keywords : toward to solidarity economy, food sovereignty, the introduction of agro-ecology to Palestine, the importance of agro-ecology

Conference Title : ICASTE 2024 : International Conference on Agricultural Science, Technology and Engineering

Conference Location : Barcelona, Spain

Conference Dates : October 24-25, 2024