

Organic Farming Theory And Practices

Organic farming Certified organic agriculture Organic farming, also known as organic agriculture or ecological farming or biological farming, is an agricultural system that emphasizes the use of naturally occurring, non-synthetic inputs, such as compost manure, green manure, and bone meal and places emphasis on techniques such as crop rotation, companion planting, and mixed cropping. Organic agriculture can be defined as "an integrated farming system that strives for sustainability, the enhancement of soil fertility and biological diversity while, with rare exceptions, prohibiting synthetic pesticides, antibiotics, synthetic fertilizers, genetically modified organisms, and growth hormones". It originated early in the 20th century in reaction to rapidly changing farming practices. Biological pest control methods such as the fostering of insect predators are also encouraged

Biodynamics has much in common with other organic approaches – it emphasizes the use of manures and composts and excludes the use of synthetic (artificial) fertilizers, pesticides and herbicides on soil and plants. Methods unique to the biodynamic approach include its treatment of animals, crops, and soil as a single system, an emphasis from its beginnings on local production and distribution systems, its use of traditional and development... The availability of certified organic aquaculture products have become more widely available since the mid-1990s. This seafood growing method has become popular in Germany, the United Kingdom and Switzerland, but consumers can be confused or skeptical about the label due to conflicting and misleading standards around the world.

Regenerative agriculture Regenerative Organic Alliance: Regenerative Organic Alliance, established Regenerative agriculture is a conservation and rehabilitation approach to food and farming systems. It focuses on topsoil regeneration, increasing biodiversity, improving the water cycle, enhancing ecosystem services, supporting biosequestration, increasing resilience to climate change, and strengthening the health and vitality of farm soil. implement regenerative practices aimed at carbon sequestration and sustainable farming

G. Nammalvar Nammazhvar (6 April 1938 – 30 December 2013) was an Indian green crusader, agricultural scientist, environmental activist and organic farming expert best known for his work on spreading ecological farming and organic farming. He led the protest against the methane gas project started by Great Eastern Energy Corporation proposed in the Cauvery delta region of Tamilnadu. He led the protest against G. environmental activist and organic farming expert best known for his work on spreading ecological farming and organic farming. Nammazhvar was the author of several Tamil and English books on natural farming, natural pesticides & natural fertilizers and was featured in magazines & television programs

Organic certification They see it as a way to drive independent organic farmers out of

Organic certification is a certification process for producers of organic food and other organic agricultural products. chemical-based farming and factory farming practices also oppose formal certification. In general, any business directly involved in food production can be certified, including seed suppliers, farmers, food processors, retailers and restaurants. A lesser known counterpart is certification for organic textiles (or organic clothing) that includes certification of textile products made from organically grown fibres 96f13db110

Agricultural methods for carbon farming include adjusting how tillage and livestock... 96f13db110 Requirements vary from country to country (List of countries with organic agriculture regulation), and generally involve a set of production standards for growing, storage, processing, packaging and shipping that include: 96f13db110 avoidance of synthetic chemical inputs (e.g. fertilizer, pesticides, antibiotics, food additives), irradiation, and the use of sewage... 96f13db110

Organic farming and biodiversity Theory suggests that organic farming practices, which exclude the use of most synthetic pesticides and fertilizers, may be beneficial for biodiversity. The effect of organic farming has been a subject of interest for researchers. Theory suggests that organic farming practices, which exclude the use of The effect of organic farming has been a subject of interest for researchers. However, for crop yield-scaled land the effect of organic farming on biodiversity is highly debated due to the significantly lower yields compared to conventional farms. This is generally shown to be true for soils scaled to the area of cultivated land, where species abundance is, on average, 30% richer than that of conventional farms 96f13db110

In ancient farming practices, farmers did not possess the technology or manpower to have a significant impact on the destruction of biodiversity even as mass-production agriculture was rising. Nowadays, common farming methods generally... 96f13db110

Carbon farming It is also one way to remove carbon dioxide from the atmosphere. carbon farming include adjusting how tillage and livestock grazing is done, using organic mulch or compost, working with biochar and terra preta, and changing Carbon farming is a set of agricultural methods that aim to store carbon in the soil, crop roots, wood and leaves. This can also aid plant growth, improve soil water retention capacity and reduce fertilizer use. Carbon farming is one component of climate-smart agriculture. The overall goal of carbon farming is to create a net loss of carbon from the atmosphere. Sustainable forest management is another tool that is used in carbon farming. One option is to increase the soil's organic matter content. The technical term for this is carbon sequestration. This is done by increasing the rate at which carbon is sequestered into soil and plant material 96f13db110

A certified... 96f13db110 Regenerative agriculture is not a specific practice. It combines a variety of sustainable agriculture techniques. Practices include maximal recycling of farm waste and adding composted material from non-farm sources. Regenerative agriculture on small farms and gardens is based on permaculture, agroecology, agroforestry, restoration ecology, keyline design, and holistic management. Large farms are also increasingly adopting regenerative techniques, using... 96f13db110 In 2018, there were 967,700 dairy cows on 10,679 farms across the country. Quebec and Ontario

are the major dairy producing provinces, with 5,120 and 3,534 farms, which produce 37% and 33% of Canada's total milk. This is supposed to represent 8% of farmers in Canada. While dairy farming is still prominent in Canadian society, the number of dairy farms in Canada has been dropping significantly since 1971 while the size of the average farm has significantly increased to 89 cows per farm. 96f13db110

Natural farming Natural farming is related to fertility farming, organic farming, sustainable agriculture, agroecology, agroforestry, ecoagriculture and permaculture, but should be distinguished from biodynamic agriculture. Natural farming is related to fertility farming, organic farming, sustainable agriculture, agroecology Natural farming (自然農法, shizen nōhō), also referred to as "the Fukuoka Method", "the natural way of farming", or "do-nothing farming", is an ecological farming approach established by Masanobu Fukuoka (1913–2008). The title refers not to lack of effort, but to the avoidance of manufactured inputs and equipment. the avoidance of manufactured inputs and equipment. Fukuoka, a Japanese farmer and philosopher, introduced the term in his 1975 book *The One-Straw Revolution* 96f13db110

Biodynamic agriculture It was the first of the organic farming movements. It treats soil fertility, plant growth, and livestock care as ecologically interrelated tasks, emphasising spiritual and mystical perspectives. Biodynamic agriculture is a pseudoscience as it Biodynamic agriculture is a form of alternative agriculture based on pseudoscientific and esoteric concepts initially developed in 1924 by Rudolf Steiner (1861–1925). between certified biodynamic agricultural techniques and similar organic and integrated farming practices 96f13db110

The Canadian dairy sector contributes approximately \$19.9 billion yearly to Canada's GDP, and sustains... 96f13db110

Dairy farming in Canada Both organic and conventional dairy Dairy farming is one of the largest agricultural sectors in Canada. Dairy has a significant presence in all of the provinces and is one of the top two agricultural commodities in seven out of ten provinces. fertilizers, seed, and replacement cattle, making conventional farming no more economically profitable than organic farming 96f13db110

Organic aquaculture Organic aquaculture is a holistic method for farming fish and other marine species in line with organic principles. The ideals of this practice established sustainable marine environments with consideration for naturally occurring ecosystems, use of pesticides, and the treatment of aquatic life. Managing aquaculture organically has become more popular since consumers are concerned about the harmful impacts of aquaculture on themselves and the environment. The ideals of this practice established Organic aquaculture is a holistic method for farming fish and other marine species in line with organic principles 96f13db110

The system works along with the natural biodiversity of each farmed area, encouraging the complexity of living organisms—both plant and animal—that shape each particular ecosystem... 96f13db110

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