

ARISE Plus Thailand

By:



Principles of Organic Agriculture and Quality Assurance Product Standards

Principles of organic agriculture **Not only does not use chemicals**



The first thing people think about organic agriculture is



Organic agriculture

=

No chemical fertilizer

No chemical additives

From the origin of organic agriculture, it developed from the need to have a production model that can create good food and minimize the impact on the ecosystem to be a sustainable production system

But wait



International Federation of Organic Agriculture Movements drafted organic farming practices, which are accepted around the world, and it consist of 4 principles:



- The Principle of Health.
- The Principle of Ecology.
- The Principle of Fairness.
- The Principle of Care.



Health

- Organic agriculture should maintain and promote soil health, plants, animals, humans under the concept that the world is one and inseparable.
- Therefore, the use of fertilizers, pesticides, animal medicines and food additives harmful to health should be avoided.



**The Principle
of Health.**

Ecology

- The design of Organic farming systems should attain ecological balance through habitats and maintenance of genetic and agricultural diversity.
- Local natural mechanisms to increase productivity
- Based on the principle of resource and energy efficiency and reuse for sustainable farming.



**The Principle
of Ecology.**

Fairness

- Organic agriculture should build relationships that ensure fairness for all stakeholders
- From farmers to consumers, both now and for future generations, to have a good quality of life
 - Including the well-being of animals in the system in accordance with their natural behavior.



The Principle
of **Fairness.**

Empathy

- Organic agriculture should be managed carefully
- Responsibly to protect the health
- Well-being of current and future generations and the environment
- By choosing appropriate technologies
- Rejecting long-term unpredictable technologies such as genetic modified (GMOs)



**The Principle
of Care.**

Summary definition of organic production system

Physical

- 1) Biodiversity Systems
- 2) Improvement of Soil Fertility.
- 3) Achieve sustainability by minimizing external factors.

Social

- 1) It is a system with a large production chain that includes processing, distribution of products, raw materials, products, as well as the retail market to consumers.
- 2) To give consumers confidence that the organic products are produced strictly according to standard regulations in every process.
- 3) Consider the environment as well as the welfare of animals.

Global Market for Organic Products



According to the collection of 2022 organic farming data

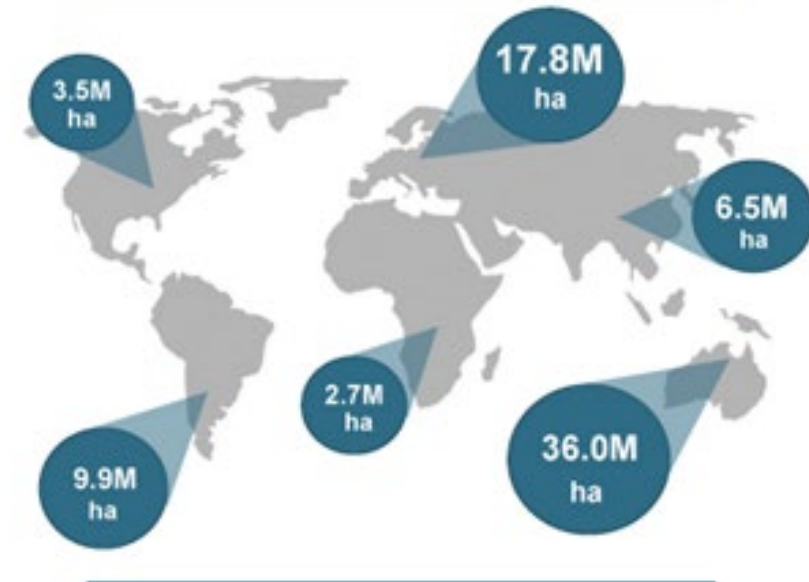


76.4 million hectares are occupied by organic farmland in 191 countries around the world.



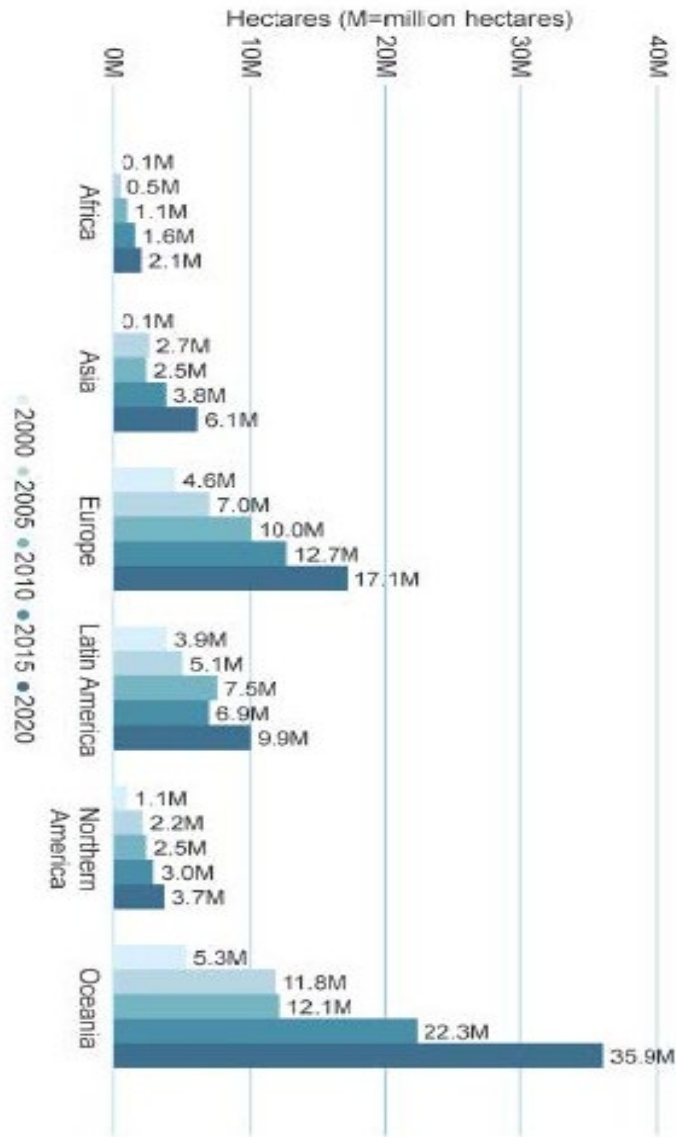
Australia, accounting for 48% of the world's organic farmland, followed by Europe, South America, Asia, North America and Africa respectively.

Organic Farmland



World map showing organic farming areas on each continent. In 2021 (area unit M = million ha)

Ref : FiBL survey 2023



The bar graph shows the growth of organic farmland from 2000 - 2020.

Ref: FiBL survey 2023

Data from the
past 20 years

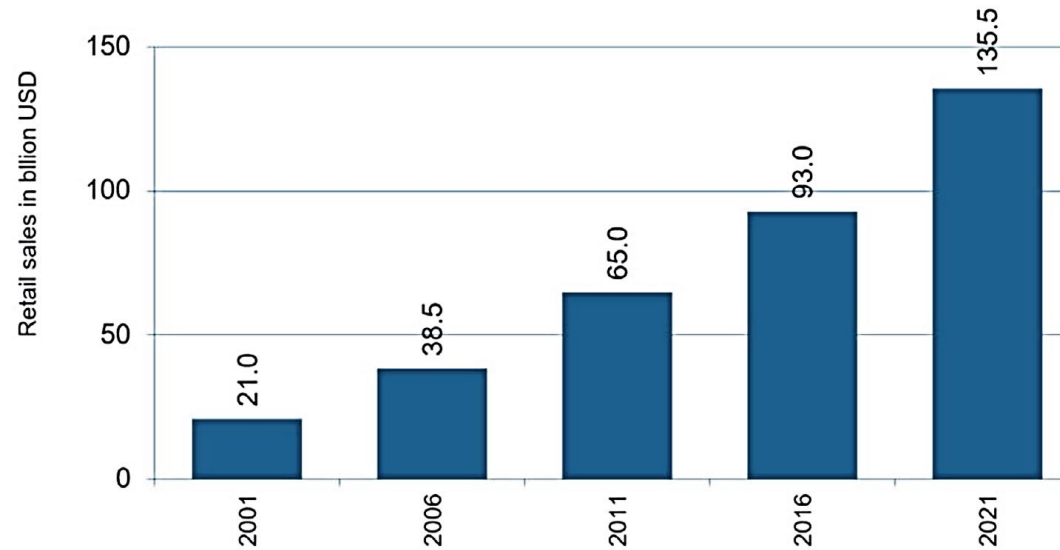
From 2000 to 2020



There has been a tremendous 4
times increase in organic farmland
on all continents of the world

Only Asia increased 60 times.

Global Market for Organic Products



The chart shows the growth of the world's organic food and beverage products from 2001 - 2021

Ref: FiBL survey 2023

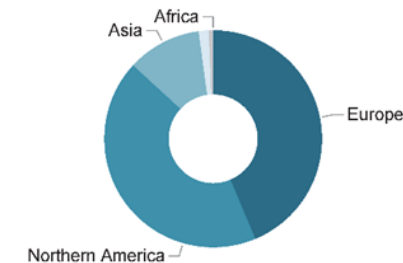
- In 2001, it was valued at \$21 billion US dollar.
- In 2021, it increased to 135.5 billion US dollars
- During the outbreak of Covid 19, consumers are increasingly interested in organic products.
- Made food sales and organic beverages increased by up to 15%.

Global Market for Organic Products

- From the data, market value by continent
 - Europe has the highest market value at 54.5 billion euros.
 - North America: 53.9 billion euros
 - Asia: 13.7 billion euros
- Market data for organic products from the overall market value of each country.
 - It was found that the United States has the highest market value of 48.6 billion euros.
 - Followed by Germany, France and China.



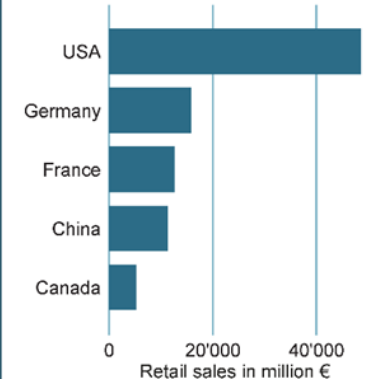
The largest single market was the USA with 48.6 billion (bn) €, followed by the European Union (46.7 bn €). By region, Europe had the lead (54.5 bn €), followed by Northern America (53.9 bn €) and Asia (13.7 bn €).



Distribution of retail sales by region 2021.



The countries with the largest markets for organic food were the USA with 48.6 billion (bn) €, Germany (15.9 bn €), France (12.7 bn €) and China (11.3 bn €).



The five countries with the largest markets for organic food in 2021.

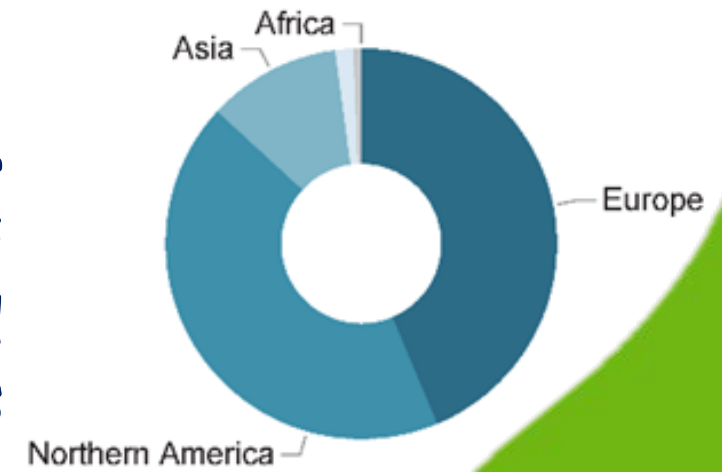
Chart showing the value of organic products in the world's major markets in Year 2021

Ref: FiBL survey 2023

Global Market for Organic Products

Summary of the global market situation

North America and Europe alone account for 87.7% of the global organic market. The export of organic products to both continents must be certified to organic standards according to the compulsory laws of the destination country.



Global Market for Organic Products

Products that have been certified by organic standards from Thailand to Europe are:



Source: <https://www.kingfreshfarm.com/>

Rice and products from rice such as; rice, rice vinegar, rice flour, rice bran oil, crackers and others.



Source: <https://www.kingfreshfarm.com/>

Vegetables, fruits and herbs (fresh, dried, frozen) such as; asparagus, baby corn, sweet corn, apple, custard apple, banana, dragon fruit, durian, guava, jackfruit, lychee, longan, mango, mangosteen, papaya, pineapple, passion fruit, plum, pomegranate, rambutan, sapodilla, bamboo shoot, basil, ginger, galangal, eggplant, pumpkin, tamarind, lemon, spinach, okra, bergamot, chili, beans, coriander, tomato etc.

Products that have been certified by organic standards from Thailand to Europe are:

01

Sugar cane

02

Coconut products (desiccated, coconut milk and water)

03

Palm Oil

04

Soy sauce, Miso

05

Cashew nuts

06

Coffee

07

Cassava

08

Tea

Global Market for Organic Products

Quality Assurance for Organic Products

"To protect the food industry, which is one of the fundamental factors for human livelihood."

01

Standards, regulations and certifications are set up to protect consumers farmers who produce organic products according to standards.

02

Nowadays, many countries set the conditions for "organic agriculture" products.

03

By specifying a logo to show a symbol of certification as a legal requirement

04

Although the standards of each country differ in details.

05

But overall there are similarities with the main intention.

Quality Assurance for Organic Products

The production of organic agricultural products and related standards can be divided into 4 levels as follows:

01

Production for family consumption, no certification required.

02

Production for sale in the local market, may not require certification standards or require Participator Guarantee Systems (PGS).

03

Production for sale in the domestic markets, may require Thai Organic Agriculture Standards (TAS 9000 - 2021)

04

Production for sale in international markets, standards set by the destination country are required.

The production of organic agricultural products and related standards can be divided into 4 levels.

For sale in foreign markets



<https://www.marketwatch.com/story/is-organic-food-really-healthier-2016-12-01>

For sale in the domestic market



<https://www.lemonfarm.com/th/blog/organic-from-the-grower.html>

For sale in the local market



For family consumption



For more information



<https://www.ifoam.bio/>
<https://www.fibl.org/en/>



https://media.istockphoto.com/id/936580600/th/%E0%...20&c=_Tdwey9J2-olhxkosE_TTEPbuCSyrv39pjFn4fzkQ2E=

Instructor's Guide to Organic Rice Production and Processing in Thailand

Chapter 1 Principles of Organic Agriculture and Quality Assurance Product Standards

