

Biopesticides - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

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Report description:

The Biopesticides Market size is estimated at 6.72 billion USD in 2025, and is expected to reach 11.41 billion USD by 2030, growing at a CAGR of 11.19% during the forecast period (2025-2030).

- Biopesticides are made from natural materials such as animals, plants, bacteria, and certain minerals. They are used to control pests in an environmentally friendly way by harnessing natural mechanisms of control. Biopesticides are often selective, and they target specific pests, thereby reducing the impact on non-target species and the environment. Biopesticides are also typically less toxic to humans and animals, and they break down more quickly in the environment.
- Biofungicides are the most popularly used biopesticides. They held a market share of 47.6% in 2022. Bacillus, Trichoderma, Streptomyces, and Pseudomonas are the most commercially used species of microorganisms in agriculture. These biofungicides effectively act against pathogens, such as Pythium, Rhizoctonia, Fusarium, Sclerotinia, Thielaviopsis, Botrytis, and powdery mildew.
- Bioinsecticides accounted for 27.9% of the global biopesticides market in 2022. There are several pests that cause devastating losses to specific crops in each season, which can be effectively controlled by using target-specific bioinsecticides. For instance, cotton is an important cash crop grown globally. The cotton bollworm pest affects the yield of cotton plants, irrespective of the region. Bacillus thuringiensis, a commercially important bioinsecticide, is known to effectively control this devastating pest that can cause potential yield losses of 30-90%.
- The effectiveness of biopesticides in controlling target-specific pests and diseases with no harm to the environment and animals is expected to drive the global market for biopesticides. The biopesticides market is estimated to register a CAGR of 11.0%

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between 2023 and 2029.

- Biopesticides are used to control pests in an eco-friendly way by harnessing natural control mechanisms. Biopesticides are often selective and target specific pests, reducing the impact on non-target species and the environment. Asia-Pacific and North America were the most biopesticides-consuming regions in 2022.
- The Asia-Pacific region, which is home to large agricultural countries like China and India, has seen significant growth in organic farming. This growth has been driven by rising demand for sustainable and healthier food options and increased awareness about the harmful effects of conventional pesticides. The organic crop area in the region increased from 3.1 million hectares in 2017 to 3.6 million hectares in 2021, representing a growth of 15.5% during the period.
- North America is the second most biopesticides-consuming region, and it had a share of 38.5% in 2021. The demand for organic food in the region is growing rapidly. The average per capita spending on organic food products in North America was recorded as USD 109.7 in 2021. Farmers of the region are adapting to new biological technologies at a faster pace. The trend toward sustainable agriculture is expected to drive the usage of biopesticides in the region.
- Government initiatives and promotion of organic farming in different regions further intensify this trend of sustainable approaches. For instance, the European Commission has unveiled an action plan to increase the organic area in the member countries to occupy 25.0% of the region's agricultural land area by 2030. Government authorities in South American countries like Peru and Argentina have banned the usage of chemical pesticides, thus driving the South American biopesticides market.

Global Biopesticides Market Trends

Organic production is at an all-time high in North America and Europe, due to the increasing awareness and Government initiatives.

- Organic agriculture has emerged as a significant contributor to sustainable food systems, with 187 countries practicing it globally. As of 2021, there was 72.3 million ha of organic agricultural land worldwide, with an average increase of 2.9% across all regions from 2018 to 2021. Organic arable land accounted for 14.4 million ha, representing 19.9% of the total organic agricultural land.
- The strongest markets for organic farming are North America and Europe, accounting for 41.0% of the global organic arable land. In 2022, Europe had 6.5 million ha of organic arable land, equivalent to 44.1% of the overall organic arable agricultural area. The most significant crops grown organically in North America and Europe are apples, strawberries, cereals, and olives.
- Developing countries in Asia-Pacific are also joining the organic agriculture movement and becoming self-sufficient in producing and providing fresh organic produce to meet their domestic demand. The trend of organic farming is gaining momentum in Asia-Pacific, with the region recording an 18.8% increase in organic arable land from 2017 to 2022. The major initiatives by governments in the region also play a vital role in the growing trend of organic farming. For example, Japan's Basic Plan for Food, Agriculture, and Rural Areas aims to triple the number of organic farmers and lands by 2030.
- Organic agriculture is becoming increasingly popular worldwide, with more countries adopting it to achieve sustainable food systems. The growth in organic agriculture is driven by the increasing awareness of the benefits of organic farming, such as promoting soil health, reducing negative environmental impacts, and producing healthier food.

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Per capita spending of organic food majorly observed in United States and Germany, attributed to the consumer demand for healthier and sustainable food

- The organic food market experienced significant growth in the past few years, with global sales reaching USD 120.6 billion in 2020, up from USD 70.8 billion in 2012. The trend toward organic food is being driven by several factors, such as increasing consumer demand for healthier, more sustainable food options and a growing awareness of the environmental impact of conventional agriculture. The global organic food market is expected to continue its growth trend over the coming years.
- According to a survey conducted by the Organic Trade Association in 2021, sales of organic fruits and vegetables increased by around 4.5% in the same year, accounting for 15% of the overall organic sales. North America dominates the market in terms of average spending on organic products, with per capita spending in the United States reaching USD 186.7 in 2021, the highest among all North American countries. Europe is also expected to experience significant growth in the organic food market, with Germany accounting for the highest per capita spending of USD 75.6 in 2021.
- While the organic food market is still dominated by developed countries with high consumer disposable incomes, it is also expected to grow in developing nations. For example, the increasing number of working-class people in the Asia-Pacific region may contribute to the market's expansion due to the growing availability and affordability of organic food products.

Biopesticides Industry Overview

The Biopesticides Market is fragmented, with the top five companies occupying 6.03%. The major players in this market are Corteva Agriscience, Gujarat State Fertilizers & Chemicals Ltd, Koppert Biological Systems Inc., Marrone Bio Innovations Inc. and Valent Biosciences LLC (sorted alphabetically).

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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