

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

Market Report | 2025-04-28 | 128 pages | Mordor Intelligence

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### **Report description:**

The United States Biopesticides Market size is estimated at 1.86 billion USD in 2025, and is expected to reach 3.39 billion USD by 2030, growing at a CAGR of 12.73% during the forecast period (2025-2030).

- Biofungicides are substances that are used to control plant diseases caused by pathogenic fungi. Biofungicides may be of microbial or botanical origin. The market for these biofungicides was valued at USD 650.9 million in 2022 and is the most consumed biopesticide type, with a market share of 49.5% in the same year.
- The market for bioinsecticides in the United States was valued at USD 403.9 million in 2022 and accounted for a share of 30.7%, the second most consumed among biopesticides.
- Bioinsecticides are of biological origin, including microorganisms like fungi, bacteria, or even plant extracts that can work against harmful insects that affect the growth and development of crops. On average, these bioinsecticides are applied at the rate of 2.8 kg/hectare in all the crop types. Among bioinsecticides, the bacterial insecticide *Bacillus Thuringiensis* is the most predominantly used insecticide in agriculture due to its immense potential to control pests by producing proteins during the sporulation phase.
- Bioherbicides are the derivatives of either microbe, plant extracts, or any other phytotoxins used to control the weeds that compete for growth with the crops by suppressing their growth or germinating weed seeds. The market for biological herbicides was valued at USD 108.9 million in 2022, with a volume consumption of 7.5 thousand metric tons in the same year.
- Other biopesticides include products like nematicides, rodenticides, acaricides, and molluscicides, which are of biological origin. These biological pesticides accounted for a share of 11.5% in 2022, occupying the third place after biofungicides and

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bioinsecticides.

## United States Biopesticides Market Trends

Increase in organic area, particularly in row crops, due to country's laws and regulations

- In 2021, the area under organic agricultural farming in the United States was 623 thousand hectares. Organic agriculture in the United States has increased significantly in the previous 20 years, mostly due to the introduction of particular laws and regulations. The number of organic farms and ranches in California was 3,061 in 2021, the largest number of certified organic farms in the United States. There were over 1,125 certified organic farms in Pennsylvania. Nearly 15,548 thousand certified organic farms in operation used cropland in 2019, while 7,139 thousand farms operated pastureland and rangeland. The sales value of crops, including those from nurseries and greenhouses, amounted to nearly USD 5.8 billion.
- Row crops dominated organic farming in the nation. In 2021, they accounted for about 71.8% of all organic cropland. The production of cereal crops predominates the country's agricultural sector. The main cereals include maize, wheat, rice, and millet. The consumption of organic products has become popular among US consumers who increasingly choose to eat organic foods because of their various health benefits.
- There is an increasing trend in the overall organic horticultural crop cultivation area, from 112.9 thousand hectares in 2017 to 156.1 thousand hectares in 2021. Regarding domestic production in 2021, the top five fruits and vegetables were apples (31.1%), strawberries (9.5%), oranges (6.9%), romaine lettuce (6.7%), and potatoes (6.2%). In the case of trade, the most imported produce was bananas (53.1%), avocados (7.7%), mangoes (5.8%), blueberries (5.0%), and squashes (4.3%), while the most exported were apples (80.0%), pears (14.4%), cherries (4.0%), dried onions (1.5%), and potatoes (0.2%).

Growing demand for organic produce especially in the fruits and vegetables sector, rise in per capita spending on organic food

- The United States is one of the largest organic product consumers in the world. As of 2020, the total sales of organic food products in the country accounted for USD 51.6 billion, according to the Nutrition Business Journal (NBJ, 2021). The United States had the largest per capita spending on organic products in the North American region, worth USD 186.7 in 2021.
- Organic fresh fruits and vegetables have been the leading category of organic food since the establishment of the organic food retail industry. In 2020, retail sales for these organic products were valued at USD 20.0 billion, showing a growing demand for organic produce. The demand for organic fresh fruits and vegetables has steadily risen over the past two decades. Organic food sales are rising due to growing consumer awareness, especially among high-income consumers. The most in-demand organic categories include basic foods like eggs, dairy, fruits, and vegetables.
- Organic food preferences vary by demographic and region. Younger people aged between 18 and 29 are more likely to seek organic products (over 50%) compared to older people aged 65 and above. Income and region also play a role, with 42% of those with under USD 30,000 income and 49% of those with over USD 75.0 thousand seeking organic products.
- The per capita spending on organic products is increasing in the country, recording a CAGR of 5.2% between 2017 and 2021. The growing demand for organic products is creating opportunities for US organic producers to tap into high-value markets both domestically and abroad. The price premium associated with organic products is one of the major limiting factors for organic food

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consumption for low-income consumers.

## United States Biopesticides Industry Overview

The United States Biopesticides Market is fragmented, with the top five companies occupying 6.02%. The major players in this market are Bioworks Inc., Certis USA LLC, Corteva Agriscience, FMC Corporation and Marrone Bio Innovations Inc. (sorted alphabetically).

Additional Benefits:

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

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