

United States Biocontrol Agents - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

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Report description:

The United States Biocontrol Agents Market size is estimated at 43.49 million USD in 2025, and is expected to reach 67.1 million USD by 2030, growing at a CAGR of 9.06% during the forecast period (2025-2030).

- Biocontrol agents are the second most consumed in the agricultural biologicals market in the United States. They accounted for a share of 2.6% in the crop protection segment in 2022.
- Microbials-based biocontrol agents are most consumed in the biocontrol agents market in the United States, and they accounted for a share of 89.1% in 2022. Bacteria, fungi, viruses, and protozoans are some of these microbes. In three different ways, microbes function as biocontrol agents: either they inject pests with diseases, outcompete them, or even kill them.
- The fungi biocontrol agents segment of the market accounted for about 62.7% of the total microbial biocontrol agents market by value in 2022. The market value for fungal biocontrol agents increased by about 44.4% from 2017 to 2022, which can be attributed to farmers' increased awareness of integrated pest management and sustainable agriculture.
- Macrobiotics-based biocontrol agents accounted for a share of 10.9% in the United States in 2022. Macrobiotics are natural enemies of pests and are known as invertebrate biocontrol agents. They include mites, insect predators, parasitoids, and entomopathogenic nematodes (EPNs).
- Predators dominated the biocontrol agents market, and they accounted for about 83.8% of the market value in 2022. The dominance of the predators' segment in the overall biocontrol agents market is mainly due to their ability to attack different life stages of pests and even different pest species. They are voracious feeders compared to other biocontrol agents.
- Using macrobiotics-based and microbials-based biocontrol agents can reduce the need for chemical pesticides, directly reducing

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the overall cost of cultivation.

United States Biocontrol Agents 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 Biocontrol Agents Industry Overview

The United States Biocontrol Agents Market is fragmented, with the top five companies occupying 28.07%. The major players in this market are Arizona Biological Control Inc., Beneficial Insectary Inc., Biobee Ltd, Bioline AgroSciences Ltd and Koppert Biological Systems Inc. (sorted alphabetically).

Additional Benefits:

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

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