

United States Biopesticides Market Size Analysis Report - Market Share, Forecast Trends and Outlook (2025-2034)

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Report description:

The United States biopesticides market reached around USD 1.54 Billion in 2024. The market is projected to grow at a CAGR of 9.10% between 2025 and 2034 to reach nearly USD 3.68 Billion by 2034.

United States Biopesticides Market Growth

In 2023, the agriculture, food, and associated sectors accounted for approximately USD 1.530 trillion of the U.S. GDP, representing a 5.6% share. The agricultural output from American farms contributed USD 203.5 billion to this total, which is about 0.7% of the overall U.S. GDP. The increasing adoption of biopesticides is closely associated with the growth of the agricultural sector in the United States. As farming methods adapt to satisfy the rising global demand for food, producers are progressively utilising biopesticides for efficient pest control, leading to increased United States biopesticides market revenue. These environmentally friendly alternatives help reduce the adverse effects of synthetic chemicals, promote sustainable agricultural practices, and improve crop productivity. This transition signifies a broader dedication to environmentally conscious farming, in line with consumer preferences for safer and organic products.

Over the last ten years, organic retail sales in the United States have experienced an average annual growth rate of 8%. In 2021, these sales were projected to exceed USD 52 billion, representing approximately 5.5% of total retail food sales. Data from the USDA's National Agricultural Statistics Service surveys conducted in 2011 and 2021 indicate that the acreage of certified organic cropland rose by 79%, reaching 3.6 million acres, while the number of certified operations surged by over 90%, totalling 17,445 farms during the 2011 to 2021 timeframe in the U.S. This growth in organic agriculture has spurred biopesticides demand growth in the United States. As consumers show a greater preference for organic products, farmers are increasingly adopting biopesticides to control pests in compliance with organic regulations. This movement underscores a wider dedication to minimising the use of synthetic pesticides and fulfilling the rising consumer demand for safe, organic food choices.

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Key Trends and Developments

Growing trend of organic farming, strict government regulations, adoption of advanced technologies and rising environmental concerns are the major trends impacting the growth of the United States biopesticides market

Feb 2024

FMC, a U.S.-based chemical manufacturer decided to launch Ethos Elite LFR, a new insecticide/biofungicide premix by the end of 2024. This product combines the pyrethroid insecticide bifenthrin with two proprietary biological strains, *Bacillus velezensis* RTI301 and *Bacillus subtilis* RTI477, for effective control of early-season diseases and soilborne pests.

Feb 2023

Ledprona, recognised as the first sprayable RNA biopesticide globally, received registration in the United States in 2023 for the management of the Colorado potato beetle (CPB), a significant pest affecting potato cultivation in North America, Europe, and Asia. These pests have shown resistance to 52 active ingredients from various major classes of insecticides.

June 2022

FMC Corporation, a prominent global leader in agricultural sciences introduced a new brand identity for its Plant Health division. This initiative represented the company's ongoing growth and the expansion of its biological platform.

June 2022

Valent BioSciences LLC expanded its biorational manufacturing facility located in Osage, Iowa. This expansion addressed the growing demand for its biorational products and facilitated production of new products.

Growing Trend of Organic Farming

The increasing consumer interest in organic products is significantly influencing agricultural practices, leading farmers to explore and adopt biopesticides as alternatives to traditional chemical pesticides. This shift is driven by a growing awareness among consumers about the health benefits and environmental sustainability associated with organic farming.

Strict Government Regulations

Supportive government policies and regulations play a crucial role in fostering the adoption of eco-friendly pest control methods, significantly contributing to the United States biopesticides market expansion. As environmental concerns continue to rise, governments around the world are increasingly recognising the need for sustainable agricultural practices and pest management solutions.

Adoption of Technological Advancements

Advancements in biopesticide formulations and delivery mechanisms are significantly enhancing their efficacy and making them more appealing to agricultural producers. These innovations are crucial in addressing the growing demand for sustainable agricultural practices and reducing reliance on synthetic chemical pesticides.

Rising Environmental Concerns

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The growing awareness of the environmental impacts linked to the use of synthetic pesticides has led to a significant shift in agricultural practices. As research continues to unveil the detrimental effects of these chemicals on ecosystems, biodiversity, and human health; farmers, policymakers, and consumers are increasingly advocating for more sustainable alternatives.

United States Biopesticides Market Trends

The growing implementation of Integrated Pest Management (IPM) strategies represents a notable trend within the biopesticides market. Farmers are now combining biopesticides with conventional chemical treatments to improve the effectiveness of pest control and mitigate resistance issues. This comprehensive approach not only boosts crop yields but also fosters sustainability, in response to consumer preferences for environmentally responsible agricultural practices. Biopesticides are being increasingly adopted in traditional farming as producers look for sustainable alternatives to chemical pesticides. This movement is propelled by the necessity for efficient pest management while reducing environmental impact and navigating regulatory complexities. As the understanding of the advantages of biopesticides expands, conventional farmers are utilising these products to refine their pest management techniques and satisfy market demands for safer agricultural products.

United States Biopesticides Industry Segmentation

United States Biopesticides Market Report and Forecast 2025-2034 offers a detailed analysis of the market based on the following segments:

Market Breakup by Type:

- Biofungicides
- Bioherbicides
- Bioinsecticides
- Others

Market Breakup by Crop Type:

- Fruits and Vegetables
- Grains and Cereals
- Pulses and Oilseeds
- Others

Market Breakup by Region:

- New England
- Mideast
- Great Lakes
- Plains
- Southeast
- Southwest
- Rocky Mountain
- Far West

United States Biopesticides Market Share

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Based on the region, the market is segmented into New England, Mideast, Great Lakes, Plains, Southeast, Southwest, and Rocky Mountain. The Southeast region is projected to grow at a highest CAGR of 10.3% during the forecast period of 2025-2034, followed closely by Southwest at a CAGR of 10.0%. The growth of these regions can be attributed to the increasing demand for sustainable agriculture, supportive government regulations, rising crop losses due to pests, technological advancements in biopesticide formulations, and shifting consumer preferences towards organic produce. These factors create a favourable environment for the adoption of biopesticides in agricultural practices across these regions.

Leading Companies in the United States Biopesticides Market

Major players are focusing on the production of more efficient and sustainable biopesticides to gain a competitive edge in the market.

BASF SE

- BASF SE, established in 1865, is headquartered in Germany. It is a prominent European multinational corporation and holds the title of the largest chemical producer globally. The primary focus of BASF's operations is the production, marketing, and sale of chemicals, plastics, crop protection products, and performance products.

Andermatt Group AG

Founded in 1988 and based in Grossdietwil, Switzerland, Andermatt is dedicated to developing biological solutions that employ microorganisms for the control of insect pests and diseases, in addition to applications in biostimulation.

UPL Limited

UPL Limited, founded in 1969, is a global corporation headquartered in Mumbai, India. It focuses on the manufacturing and distribution of agrochemicals, industrial chemicals, chemical intermediates, speciality chemicals, and pesticides.

Corteva Agriscience

Corteva Agriscience, established in 2019 and based in Indiana, United States, stands as the sole major agriscience enterprise wholly committed to the agricultural sector. The company integrates the capabilities of DuPont Pioneer, DuPont Crop Protection, and Dow AgroSciences, leveraging the knowledge and expertise accumulated over two hundred years of scientific progress in agriculture.

Other players in the market are FMC Corp., Valent BioSciences LLC, Lallemand Inc., Indogulf Company, Bioworks Inc., and Certis USA LLC, among others.

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