

# Crop Protection Chemicals Market to Reach USD 106.9 Billion by 2032, Growing at a CAGR of 5.8% | SNS Insider

*Crop protection chemicals, also known as agricultural pesticides, are chemical substances used in farming to protect crops from pests, diseases, and weeds.*

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The [Crop Protection Chemicals Market](#) was valued at USD 68.5 billion in 2023 and is projected to reach USD 106.9 billion by 2032, growing at a CAGR of 5.8% over the forecast period of 2024-2032.



This growth is primarily driven by the increasing demand for food security, the need for effective crop protection from pests and diseases, and the rising adoption of sustainable agricultural practices.



Crop protection chemicals encompass a wide range of products, including insecticides, herbicides, fungicides, and rodenticides, each designed to target specific pests or plant diseases."

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Key Players Listed in Crop Protection Chemicals Market Are:

- BASF SE
- Dow Chemical Company
- American Vanguard Corp
- DuPont

- Bayer AG
- Syngenta Group
- FMC Corporation

- Arysta LifeSciences Corporation
- Hansen Holding A/S
- Corteva
- Bioworks and other

## Market Drivers: Rising Demand for Crop Protection and Sustainable Farming Practices

A rising global population and increasing pressure on food security are projected to fuel the demand for crop protection chemicals across the globe. To combat losses due to pest infestation, weed invasion, and diseases, different crop protection chemicals like insecticides, herbicides, fungicides, and rodenticides are crucial to achieving a high-quality and high-yield crop. Specifically, insecticides and herbicides are necessary to protect food crops against harmful insects and the propagation of plant diseases that would otherwise have devastating effects on agriculture and thus result in an uncontrollable shortage of food.

With agriculture embracing more sustainable approaches, solutions such as chemical crop protection products that include biological, cultural, and chemical control methods are becoming more preferable. Integrated pest management (IPM) systems, promoting sustainable control measures, are generally believed to reduce the ecological effects of chemical pesticides while sustaining high land productivity.

## Growth of the Crop Protection Chemicals Market: Key Segments and Dominant Players

### By Product Type,

Herbicides dominated the crop protection chemicals market, accounting for approximately 40% of the market share in 2023. Herbicides are essential for controlling unwanted plants that compete with crops for nutrients and water. They are particularly crucial in large-scale farming operations where weeds can severely reduce crop yields. The increasing demand for herbicides, particularly in regions with extensive farming operations, is driven by the need to maintain productivity while managing weed growth effectively.

Insecticides are the second-largest segment of the market, as they are vital for protecting crops from insect pests that can cause significant damage to crops. Insecticides are heavily utilized in the cultivation of major crops such as cotton, maize, and soybean, as well as in vegetables and fruits. The increasing incidence of pest outbreaks, particularly in regions with diverse climates, further propels the demand for insecticides.

### By Application

the Cereals & Grains segment held the largest share of the crop protection chemicals market, accounting for about 38% in 2023. The high demand for staple food crops like wheat, corn, rice, and barley has led to increased use of crop protection chemicals. These crops are crucial to

global food security, and their large-scale cultivation requires effective pest control solutions to prevent damage from insects, weeds, and diseases. As global food consumption continues to rise, the demand for these crops, and by extension the crop protection chemicals used in their production, is expected to increase.

#### Key Market Segmentation:

##### By Crop Type

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

##### By Product Type

- Insecticide
- Fungicide
- Herbicide
- Others

##### By Form

- Liquid
- Dry

##### By Source

- Biopesticide
- Natural

##### By Mode of Application

- Seed Treatment
- Soil Treatment
- Foliar Spray
- Others

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##### Regional Analysis

The Asia-Pacific region held the largest market share, accounting for approximately 45% of the global crop protection chemicals market in 2023. The region's substantial agricultural base, particularly in countries such as China, India, and Japan, drives the demand for crop protection chemicals. In India, for example, government initiatives like the "National Mission on Agricultural Extension & Technology" are encouraging farmers to adopt modern crop protection solutions to increase agricultural productivity. Additionally, the rising trend of commercial farming in countries such as Indonesia and the Philippines further accelerates market growth in this region.

In North America, the crop protection chemicals market is experiencing steady growth, largely due to the significant demand for crop protection products in countries like the United States and Canada. The United States remains one of the largest consumers of crop protection chemicals, driven by the extensive cultivation of crops such as corn, soybean, and cotton. The increasing use of herbicides and insecticides to manage crop pests, combined with a shift toward sustainable farming practices, continues to support market growth in North America.

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#### Recent Developments in the Crop Protection Chemicals Market:

- In July 2024, Syngenta Group announced the launch of a new bio-based insecticide range designed to reduce the environmental impact of conventional pest control. These products are aimed at providing sustainable pest management while ensuring effective protection of crops from harmful insects.
- In March 2024, BASF invested USD 400 million in its research and development division, focusing on the creation of innovative herbicides and fungicides. The company emphasized a commitment to reducing the environmental footprint of its crop protection solutions while maintaining high agricultural yields.
- In February 2024, Corteva Agriscience launched a new line of fungicides aimed at improving resistance management and increasing the shelf life of crops. This product range is expected to contribute to greater food security, especially in regions vulnerable to fungal diseases that affect major food crops.

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