

Crop Protection Chemicals Market by Type (Synthetic [Insecticides, Herbicides, Fungicides], Biological), Formulation (Solid, Liquid), Mode of Application (Seed Treatment, Soil Treatment), Crop Type—Global Forecast to 2030

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Abstracts

The research report titled, 'Crop Protection Chemicals Market by Type (Synthetic [Insecticides, Herbicides, Fungicides], Biological), Formulation (Solid, Liquid), Mode of Application (Seed Treatment, Soil Treatment), Crop Type—Global Forecast to 2030,' provides an in-depth analysis of the crop protection chemicals market across five major geographies and emphasizes on the current market trends, market sizes, market shares, recent developments, and forecasts till 2030.

In terms of value, the crop protection chemicals market is expected to reach \$84.83 billion by 2030, at a CAGR of 3.3% from 2023 to 2030, while in terms of volume, the market is expected to reach 10,423,115.5 tons by 2030, at a CAGR of 2.5% from 2023 to 2030.

The growth of this market is attributed to the rising demand for low-cost crop protection solutions, the growing need to increase crop yield and quality, growing awareness about environmental safety, increasing adoption of advanced agricultural practices and technologies, and rapidly decreasing agricultural land. Furthermore, an increasing focus on integrated pest management, growing adoption of biological seed treatments, and emerging economies in Asia-Pacific and Latin America are expected to provide significant opportunities for the growth of this market.

The key players operating in the crop protection chemicals market include BASF SE (Germany), Bayer AG (Germany), Corteva, Inc. (U.S.), FMC Corporation (U.S.),



Novozymes A/S (Denmark), Nufarm Limited (Australia), Syngenta AG (Switzerland), UPL Limited (India), Sumitomo Chemical Co., Ltd. (Japan), and Jiangsu Yangnong Chemical Co. Ltd (China).

The study offers a comprehensive analysis of the crop protection chemicals market based on type, formulation, mode of application, crop type, and geography.

The crop protection chemicals market is segmented by type (Synthetic Crop Protection Chemicals {Herbicides [glyphosate, acetochlor, 2,4-D, atrazine, and other herbicides], Insecticides [organophosphates, pyrethroids, carbamates, organochlorides, and other insecticides], Fungicides [Triazole, Strobilurins, Chloronitriles, Dithiocarbamates, Phenylamides, Benzimidazoles, and Other Fungicides], Other Synthetic Crop Protection Chemicals} and Biological Crop Protection Chemicals {bioinsecticides, biofungicides, bionematicides, bioherbicides, and other biological crop protection chemicals}), formulation (liquid formulation and dry formulation), mode of application (foliar spray, seed treatment, soil treatment, and other modes of application), crop type (cereals & grains {maize/corn, wheat, and other cereals & grains}, oilseeds & pulses, fruits & vegetables, and other crops), and geography. The study also evaluates industry competitors and analyzes the market at the country level.

Among the types studied, in 2023, the synthetic chemicals segment is expected to account for the largest share of the crop protection chemicals market. The large market share of this segment is attributed to its increasing use in developing countries, ease of availability, high efficiency, and lower cost than biological products.

However, the biological chemicals segment is projected to witness significant growth during the forecast period of 2023–2030. The rapid growth of this segment is mainly driven by the increasing adoption of organic farming, growing environmental and public health concerns regarding the use of chemical crop protection products, high demand for chemical residue-free agricultural products, and the initiatives by governments worldwide to promote the use of biological crop protection products.

Among the formulation segments studied for the crop protection chemicals market, in 2023, the liquid formulation segment is expected to account for the larger share. The large market share of this segment is attributed to the uniform & easy application of liquid form, better performance, and higher effective duration (up to 6 months) than dry form (up to 3 months).

Moreover, it is also expected to witness significant growth during the forecast period.



The growth of this segment is driven by the increased importance of the latest irrigation technologies, such as drip irrigation and sprinkler irrigation, with a reduction in blockage.

Among the mode of application segments studied for this report, in 2023, the foliar spray segment is expected to account for the largest share of the crop protection chemicals market. The large market share of this segment is attributed to the high efficiency in the application, uniform distribution of chemicals, and minimum to no wastage of crop protection chemicals in the foliar spray mode of application.

However, the seed treatment segment is projected to witness significant growth during the forecast period of 2023–2030. The rapid growth of this segment is mainly driven by the increased germination and uniform seedling emergence, safety, and pest resistance advantages with the use of the seed treatment technique. In this method, microbial pesticides are often applied with chemical pesticides, as chemical pesticides provide early-season control, and microbial pesticides provide extended control.

Among the crop type segments studied for this report, in 2023, the cereals & grains segment is expected to account for the largest share of the crop protection chemicals market. The large market share of this segment is attributed to the growing need to increase cereal & grain production, minimize cereal & grain loss due to pests and diseases, and the increasing use of these crops in animal feed, biofuel, and starch & ethanol production.

Based on geography, the market is segmented into five major regions: North America, Europe, Asia-Pacific, Latin America, and the Middle East & Africa. The major market share of Latin America is attributed to the increasing population and food requirements, rapid expansion in the agriculture sector, and the growing need to increase crop yield. Also, rising awareness among farmers about the benefits of using high-end agro products and increasing adoption of organic farming practices further support the growth of this market.

Scope of the Report:

Crop Protection Chemicals Market Assessment—by Type

Synthetic Crop Protection Chemicals

Herbicides



Glyphosate

Potassium Glyphosate

Isopropylamine Glyphosate

Other Salts of Glyphosate

Acetochlor

2,4-D

Atrazine

Other Herbicides

Insecticides

Organophosphates

Pyrethroids

Carbamates

Organochlorides

Other Insecticides

Fungicides

Triazole

Strobilurins

Chloronitriles

Dithiocarbamates

Phenylamides



Benzimidazoles

Other Fungicides

Other Synthetic Crop Protection Chemicals

Biological Crop Protection Chemicals

Bioinsecticides

Biofungicides

Bionematicides

Bioherbicides

Other Biological Crop Protection Chemicals

Crop Protection Chemicals Market Assessment—by Formulation

Liquid Formulation

Dry Formulation

Crop Protection Chemicals Market Assessment—by Mode of Application

Foliar Spray

Seed Treatment

Soil Treatment

Other Modes of Application

Crop Protection Chemicals Market Assessment—by Crop Type

Crop Protection Chemicals Market by Type (Synthetic [Insecticides, Herbicides, Fungicides], Biological), Formu...



Cereals & Grains

Maize/Corn

Wheat

Other Cereals & Grains

Oilseeds & Pulses

Fruits & Vegetables

Other Crops

Crop Protection Chemicals Market Assessment—by Geography

North America

U.S.

Canada

Europe

France

Germany

Italy

Spain

U.K.

Rest of Europe (RoE)

Asia-Pacific



China

India

Japan

Australia

Thailand

Vietnam

Indonesia

Malaysia

Rest of Asia-Pacific (RoAPAC)

Latin America

Brazil

Mexico

Argentina

Chile

Rest of Latin America (RoLATAM)

Middle East & Africa

Key Questions Answered in the Report:

Which are the high-growth market segments in terms of type, formulation, mode of application, crop type, and geography?

What is the historical market size for crop protection chemicals across the



globe?

What are the market forecasts and estimates for 2023-2030?

What are the major drivers, restraints, opportunities, and challenges in the crop protection chemicals market?

Who are the major players in the market, and what are their market shares?

Who are the major players in various countries, and what are their market shares?

How is the competitive landscape for the crop protection chemicals market?

What strategies are adopted by the major players in the crop protection chemicals market?

What are the key geographic trends, and which are the high-growth countries?

Who are the local emerging players in the crop protection chemicals market, and how do they compete with other players?



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