

Agriculture Crop Pest Repellents Market Forecasts to 2030 – Global Analysis by Type (Natural/Biological Pest Repellents and Synthetic Pest Repellents), Pest Type, Crop Type, Formulation, Mode of Action, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Agriculture Crop Pest Repellents Market is accounted for \$93.8 billion in 2024 and is expected to reach \$137.7 billion by 2030 growing at a CAGR of 6.6% during the forecast period. Agriculture crop pest repellents are chemicals or solutions intended to discourage or repel pests that affect crop health and yield. The purpose of these repellents is to shield crops from pests, rodents, birds, and other creatures that may harm them and lower their production and quality. They can be synthetic, created using chemical formulas, or natural, like plant-based oils. Unpleasant tastes, scents, or physical barriers are some examples of the undesirable situations that bug repellents create. They support sustainable farming while protecting crops, the environment, and human health by reducing the need for dangerous chemical pesticides as part of integrated pest control techniques.

According to the Centers for Disease Control and Prevention (CDC), between 2004 and 2016, more than 640,000 cases of insect-borne diseases were reported in the US.

Market Dynamics:

Driver:

Rising Demand for Crop Protection

The market for agricultural crop pest repellents is mostly driven by the growing need for

crop protection as farmers look for practical ways to protect harvests from pests and illnesses. The desire to increase agricultural production and the growing global food requirements are the main drivers of this demand. Crop insect repellents support sustainable farming objectives by providing a greener substitute for chemical pesticides. The use of repellents is increasing as a result of increased pest pressures brought on by climate change, which is spurring innovation and market growth.

Restraint:

High Cost

The high price of crop pest repellents restricts access for small-scale and resource-constrained farmers, which severely limits market expansion. High pricing are a result of sophisticated formulation processes, costly raw ingredients, and strict regulatory compliance. This limits adoption, particularly in underdeveloped nations where cost-effective substitutes are frequently given preference. The extensive market penetration of insect repellents is consequently challenged by decreased usage, which hinders pest control effectiveness and impacts agricultural yields and productivity.

Opportunity:

Adoption of Sustainable Farming Practices

The adoption of sustainable agricultural techniques is driving the agriculture crop pest repellents market by boosting demand for environmentally safe and non-toxic solutions. In an effort to reduce their negative effects on the environment and satisfy customer demands for organic products, farmers are turning to natural and biodegradable repellents. This tendency is further accelerated by regulatory assistance for sustainable agriculture. By encouraging innovation in insect repellent compositions, these methods improve the efficacy and marketability of these products. Thus, it propels the market expansion.

Threat:

Pest Resistance

Pest resistance considerably impedes the market by lowering the efficacy of current remedies. Pests become used to widely used repellents over time, increasing crop damage and decreasing agricultural productivity. This raises expenses for producers

and farmers by requiring ongoing R&D expenditure to create novel repellents. Furthermore, resistance might interfere with pest management plans, necessitating the use of chemical pesticides or other techniques, which may have negative effects on the environment and regulations.

Covid-19 Impact:

The COVID-19 pandemic disrupted the agriculture crop pest repellents market due to supply chain interruptions and labor shortages, delaying production and distribution. Farmers faced challenges in accessing pest control products, impacting crop protection efforts. However, the increased focus on food security emphasized the importance of pest management, driving demand. The market also witnessed a shift towards sustainable and locally sourced repellents as global trade faced restrictions during the pandemic.

The synthetic pest repellents segment is expected to be the largest during the forecast period

The synthetic pest repellents segment is expected to be the largest during the forecast period as their precision in targeting specific pests reduces crop damage and enhances agricultural productivity. These repellents are often designed for long-lasting protection, minimizing the frequency of applications and overall costs for farmers. Additionally, innovations in synthetic formulations improve safety and environmental compatibility, making them a reliable option for large-scale and commercial farming operations.

The contact repellents segment is expected to have the highest CAGR during the forecast period

The contact repellents segment is expected to have the highest CAGR during the forecast period because these repellents minimize pest damage effectively without killing the pests, aligning with sustainable farming practices. Their targeted application reduces environmental risks and ensures crop safety, making them ideal for integrated pest management systems. Moreover, the use of eco-friendly and biodegradable ingredients in modern contact repellents supports organic farming, enhancing market growth and acceptance among environmentally conscious farmers.

Region with largest share:

North America is anticipated to hold the largest market share during the forecast period

due to growing demand for chemical-free foods and understanding of sustainable agricultural methods. Eco-friendly pest control options have become more popular as a result of strict laws governing the use of pesticides and rising environmental concerns. Furthermore, the market is expanding as a result of improvements in biological repellents and higher investments in agricultural research. The need for insect repellents is further fueled by the growing organic agricultural industry and customer preference for organic food.

Region with highest CAGR:

Asia Pacific is anticipated to witness the highest CAGR over the forecast period because these repellents encourage sustainable farming methods and lessen reliance on artificial pesticides by promoting the use of environmentally friendly, non-toxic alternatives. This change responds to environmental issues and conforms to the region's strict regulatory requirements. By encouraging innovation and local production, the market also supports regional economies and satisfies the needs of the sizable and expanding agricultural community in Asia-Pacific.

Key players in the market

Some of the key players in Agriculture Crop Pest Repellents market include Adama Agricultural Solutions, American Vanguard Corporation, Andermatt Biocontrol AG, BASF SE, Bayer AG, Bionema Limited, Bioworks, Inc., Certis USA LLC, Corteva Agriscience, De Sangosse, FMC Corporation, Isagro S.p.A., Koppert Biological Systems, Marrone Bio Innovations, Novozymes A/S, Nufarm Limited, Sumitomo Chemical Co., Ltd., Syngenta AG, UPL Limited and Valent Biosciences.

Key Developments:

In July 2024, BASF launched Haptex 4.0, an innovative polyurethane solution for the production of synthetic leather that is 100% recyclable. Synthetic leather made with Haptex 4.0 and polyethylene terephthalate (PET) fabric can be recycled together using an innovative formulation and recycling technical pathway without the need of layer peel-off process.

In June 2024, CPGC and BASF signed framework agreement on actual ship application of onboard carbon capture system, to steer the low-carbon transformation and foster the sustainable development of the shipping industry.

In May 2024, BASF expanded its biomass balance offering to include BMBCert™ 1,4-butanediol (BDO), tetrahydrofuran (THF), polytetrahydrofuran (PolyTHF®) and 3-(dimethylamino)propylamine (DMAPA). In addition to the production site in Ludwigshafen, Germany, the site in Geismar, Louisiana, has also achieved certifications for all these products.

Types Covered:

Natural/Biological Pest Repellents

Synthetic Pest Repellents

Pest Types Covered:

Insects

Termites

Rodents

Other Pest Types

Crop Types Covered:

Cereals & Grains

Fruits & Vegetables

Oilseeds & Pulses

Other Crop Types

Formulations Covered:

Liquid Formulations

Solid Formulations

Gaseous Formulations

Gel-Based Formulations

Mode of Actions Covered:

Contact Repellents

Systemic Repellents

Behavioral Modifiers

End Users Covered:

Commercial Farmers

Individual Farmers/Smallholders

Agricultural Cooperatives

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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