

Insecticide Market Size and Share Outlook - Forecast Trends and Growth Analysis Report (2025-2034)

Market Report | 2025-06-28 | 174 pages | EMR Inc.

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Report description:

The global insecticide market size reached around USD 30.90 Billion in 2024. The market is projected to grow at a CAGR of 3.20% between 2025 and 2034 to reach nearly USD 42.34 Billion by 2034. The market growth can be attributed to technological advancements in insecticide formulation and the global expansion of the agricultural sector.

Global Insecticide Market Summary

Description

Value

Base Year

USD Billion

2024

Historical period

USD Billion

2018-2024

Forecast Period

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USD Billion

2025-2034

Market Size 2024

USD Billion

30.90

Market Size 2034

USD Billion

42.34

CAGR 2018-2024

Percentage

XX%

CAGR 2025-2034

Percentage

3.20%

CAGR 2025-2034 - Market by Region

Latin America

3.5%

CAGR 2025-2034 - Market by Country

India

3.7%

CAGR 2025-2034 - Market by Country

Brazil

3.6%

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CAGR 2025-2034 - Market by Application Mode

Seed Treatment

4.0%

CAGR 2025-2034 - Market by Crop Type

Fruits and Vegetables

3.9%

Market Share by Country 2024

Australia

2.3%

Global Insecticide Market Growth

As per China's National Bureau of Statistics, domestic grain production in the country reached 706.5 billion tonnes in 2024, thereby recording a year-on-year growth of 1.6%. This can be attributed to the growing use of pest-resistant seeds, improvements in planting methods, and rapid mechanisation of agricultural practices. During 2021-2024, soybean and corn yields surged by 2.54% and 4.87%, respectively. This is expected to drive the insecticide market value over the forecast period.

One of the key market trends has been the shift towards biopesticides. During 2019-2022, nearly 38 new biopesticides (including 24 microbial pesticides, 12 biochemical pesticides, and 2 botanical pesticides) actives were introduced in China. As per The Institute for the Control of Agrochemicals (a government agency), 53 new novel active ingredients were introduced in China during this time. This has accelerated the insecticide market development.

As per government reports, India's agricultural industry has grown by 5% annually from FY17 to FY23. In 2025, the product of kharif food crops (such as cotton, sugarcane, and rice, among others) is expected to grow by 89.37 Lakh Metric Tons (LMT) and reach 1647.05 LMT. This is expected to increase the demand for advanced agrochemicals and insecticides that can contribute to higher crop yields, thereby leading to the market growth.

Key Trends and Developments

Growing adoption of insecticide-treated seeds; the emergence of biopesticides; increasing adoption of smart insecticides and precision agriculture; and rising use of nanotechnology in insecticide formulation are the major factors driving the insecticide market growth.

January 2024

United Phosphorus do Brazil announced its decision to launch Tackler, a new bioinsecticide effective against South American leaf beetles, mealybugs, coffee berry beetles, corn yellow-winged leafhoppers, and sugarcane weevils. It can be optimally stored at room temperature (10 degrees Celsius) and is highly effective on various crops when used in conjunction with traditional pesticides.

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August 2023

Syngenta Crop Protection strengthened its existing portfolio of solutions by introducing two new insecticides, VERDAVIS and SPONTA for large-size farm-holding owners. These are created from a novel molecule known as PLINAZOLIN and are an innovative, effective, and flexible way to get rid of hard-to-control insects. With the increasing cultivation of soybeans and off-season crops, these agrochemicals are expected to favourably shape the insecticide market dynamics in the coming years.

August 2023

Insecticides India Limited decided to invest INR 150 crore over 2024-2026 for capacity expansion projects in Gujarat and Rajasthan. It announced its plans to construct a new agrochemical production facility worth INR 100 crore in Sotanala (Rajasthan) and expand its existing manufacturing facility in Dahej and Chopanki (Gujarat) to manufacture more variety of active ingredients.

April 2022

BASF launched a new insecticide Exponus to enable Indian farmers to grow pulses, vegetables, and oilseeds seamlessly. The insecticide is designed to be highly effective on chemical-resistant pests by spreading fast and acting quickly to control their presence, especially thrips and caterpillars.

Increasing adoption of insecticide-treated seeds

Farmers are increasingly using insecticide-treated seeds to protect crops from pests during early growth stages. These seeds enhance yield potential while reducing the need for foliar applications. With rising concerns over pesticide overuse, this trend is expected to support sustainable farming and improve overall agricultural productivity globally.

Emergence of biopesticides

Biopesticides are derived from plant extracts, fungi, bacteria, and other natural substances, which specifically target harmful pest populations without impacting butterflies and bees. They are gaining market traction as an environmentally friendly substitute for chemical insecticides. The increasing consumer demand for organically farmed agricultural commodities has emerged as one of the key insecticide market trends.

Surging demand for smart insecticides and precision agriculture

Technological advancements in the agriculture industry have facilitated the development of smart insecticides, which rely on AI drones and IoT sensors to target dangerous pest populations with a high degree of effectiveness. This results in lower environmental impact on farming and improved crop yields. This also facilitates significant cost reduction for farmers, thereby improving their revenue.

Nanotechnology in insecticide formulation

Nanotechnology is revolutionising insecticide applications by facilitating the development of nano-sized particles that can improve the effectiveness and absorption of active ingredients. These formulations can also boost pest control efficiency while reducing the release of chemicals into the environment.

Global Insecticide Market Trends

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VERDAVIS is an acaricide insecticide derived from two actives, Lambda Cialothrin and PLINAZOLIN, and is an extremely effective option for insect control on off-season crops. It enjoys considerable longevity due to its extreme tolerance to rainfall and degradation by UV rays. Apart from delivering the knock-down effect on pests, it immediately paralyses them, thereby ensuring advanced crop protection. The introduction of such innovative agrochemicals is expected to lead to the growth of insecticide market revenue. Furthermore, SPONTA, an advanced insecticide formulation designed to protect cotton farms from bee-e-eaten, and small thrips and mites are also expected to witness widespread adoption, driven by increasing cultivation of cotton.

Global Insecticide Industry Segmentation

The EMR's report titled "Global Insecticide Market Report and Forecast 2025-2034" offers a detailed analysis of the market based on the following segments:

Breakup by Type

- Pyrethroids
- Organophosphates
- Carbamates
- Botanical
- Others

Breakup by Application Mode

- Foliar Spray
- Seed Treatment
- Soil Treatment
- Others

Breakup by Crop Type

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

Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Global Insecticide Market Share

Based on region, the market is segmented into North America, Europe, the Asia Pacific, Latin America, and the Middle East and Africa. Over the forecast period of 2025-2034, the market for insecticides in Latin America and Europe is expected to grow at a

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CAGR of 3.5% and 2.8%, respectively. As per the insecticide market analysis, this can be attributed to rapid technological advancements in insecticide formulation and increasing private sector investments in capacity expansion. Furthermore, countries like Brazil, the United Kingdom, and Germany are expected to witness a growth rate of 3.6%, 2.9%, and 2.6%, respectively, between 2025 and 2034 due to the expansion of the domestic agricultural sector.

CAGR 2025-2034 - Market by

Region

Latin America

3.5%

Europe

2.8%

North America

XX%

Asia Pacific

XX%

Middle East and Africa

XX%

Leading Companies in the Global Insecticide Market

As per the insecticide market analysis, leading insecticide companies are investing in bio-based solutions, launching eco-friendly formulations, and enhancing R&D for advanced pest control. They are also expanding into emerging markets, forming strategic partnerships, and improving digital farming solutions. Companies are further focusing on regulatory compliance and sustainable agriculture to address rising pest resistance and environmental concerns.

Syngenta Crop Protection AG

Syngenta Crop Protection AG was founded in 2000 and is headquartered in Basel, Switzerland. It is engaged in developing innovative farming solutions for improving agricultural productivity in over 100 countries worldwide.

Sumitomo Chemical Co. Ltd.

Sumitomo Chemical Co. Ltd. was founded in 1913 and is headquartered in Tokyo, Japan. It is a multinational company that operates across many industries, including metals, construction, transportation, and automotive, among others.

American Vanguard Corporation

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American Vanguard Corporation was founded in 1969 and is headquartered in California, United States. It specialises in producing chemicals, biorationals, and other products for the agricultural sector.

Corteva Agriscience

Corteva Agriscience was founded in 1802 and is headquartered in Indiana, United States. It specialises in the production and distribution of numerous agricultural solutions, including fungicides, insecticides, and seed treatment solutions.

Other players included in the insecticide market report are BASF SE, Bayer AG, UPL Ltd., Nufarm Ltd., FMC Corp., and ADAMA Agricultural Solutions Limited, among others.

Table of Contents:

- 1 Executive Summary
 - 1.1 Market Size (2024-2025)
 - 1.2 Market Growth 2025(F)-2034(F)
 - 1.3 Key Demand Drivers
 - 1.4 Key Players and Competitive Structure
 - 1.5 Industry Best Practices
 - 1.6 Recent Trends and Developments
 - 1.7 Industry Outlook
- 2 Market Overview and Stakeholder Insights
 - 2.1 Market Trends
 - 2.2 Key Verticals
 - 2.3 Key Countries
 - 2.4 Supplier Power
 - 2.5 Buyer Power
 - 2.6 Key Market Opportunities and Risks
 - 2.7 Key Initiatives by Stakeholders
- 3 Economic Summary
 - 3.1 GDP Outlook
 - 3.2 GDP Per Capita Growth
 - 3.3 Inflation Trends
 - 3.4 Democracy Index
 - 3.5 Gross Public Debt Ratios
 - 3.6 Balance of Payment (BoP) Position
 - 3.7 Population Outlook
 - 3.8 Urbanisation Trends
- 4 Country Risk Profiles
 - 4.1 Country Risk
 - 4.2 Business Climate
- 5 Global Insecticide Market Analysis
 - 5.1 Key Industry Highlights
 - 5.2 Global Insecticide Historical Market (2018-2024)
 - 5.3 Global Insecticide Market Forecast (2025-2034)

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- 5.4 Global Insecticide Market by Type
 - 5.4.1 Pyrethroids
 - 5.4.1.1 Historical Trend (2018-2024)
 - 5.4.1.2 Forecast Trend (2025-2034)
 - 5.4.2 Organophosphates
 - 5.4.2.1 Historical Trend (2018-2024)
 - 5.4.2.2 Forecast Trend (2025-2034)
 - 5.4.3 Carbamates
 - 5.4.3.1 Historical Trend (2018-2024)
 - 5.4.3.2 Forecast Trend (2025-2034)
 - 5.4.4 Botanical
 - 5.4.4.1 Historical Trend (2018-2024)
 - 5.4.4.2 Forecast Trend (2025-2034)
 - 5.4.5 Others
- 5.5 Global Insecticide Market by Application Mode
 - 5.5.1 Foliar Spray
 - 5.5.1.1 Historical Trend (2018-2024)
 - 5.5.1.2 Forecast Trend (2025-2034)
 - 5.5.2 Seed Treatment
 - 5.5.2.1 Historical Trend (2018-2024)
 - 5.5.2.2 Forecast Trend (2025-2034)
 - 5.5.3 Soil Treatment
 - 5.5.3.1 Historical Trend (2018-2024)
 - 5.5.3.2 Forecast Trend (2025-2034)
 - 5.5.4 Others
- 5.6 Global Insecticide Market by Crop Type
 - 5.6.1 Fruits and Vegetables
 - 5.6.1.1 Historical Trend (2018-2024)
 - 5.6.1.2 Forecast Trend (2025-2034)
 - 5.6.2 Grains and Cereals
 - 5.6.2.1 Historical Trend (2018-2024)
 - 5.6.2.2 Forecast Trend (2025-2034)
 - 5.6.3 Pulses and Oilseeds
 - 5.6.3.1 Historical Trend (2018-2024)
 - 5.6.3.2 Forecast Trend (2025-2034)
 - 5.6.4 Others
- 5.7 Global Insecticide Market by Region
 - 5.7.1 North America
 - 5.7.1.1 Historical Trend (2018-2024)
 - 5.7.1.2 Forecast Trend (2025-2034)
 - 5.7.2 Europe
 - 5.7.2.1 Historical Trend (2018-2024)
 - 5.7.2.2 Forecast Trend (2025-2034)
 - 5.7.3 Asia Pacific
 - 5.7.3.1 Historical Trend (2018-2024)
 - 5.7.3.2 Forecast Trend (2025-2034)
 - 5.7.4 Latin America

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- 5.7.4.1 Historical Trend (2018-2024)
- 5.7.4.2 Forecast Trend (2025-2034)
- 5.7.5 Middle East and Africa
 - 5.7.5.1 Historical Trend (2018-2024)
 - 5.7.5.2 Forecast Trend (2025-2034)
- 6 North America Insecticide Market Analysis
 - 6.1 United States of America
 - 6.1.1 Historical Trend (2018-2024)
 - 6.1.2 Forecast Trend (2025-2034)
 - 6.2 Canada
 - 6.2.1 Historical Trend (2018-2024)
 - 6.2.2 Forecast Trend (2025-2034)
- 7 Europe Insecticide Market Analysis
 - 7.1 United Kingdom
 - 7.1.1 Historical Trend (2018-2024)
 - 7.1.2 Forecast Trend (2025-2034)
 - 7.2 Germany
 - 7.2.1 Historical Trend (2018-2024)
 - 7.2.2 Forecast Trend (2025-2034)
 - 7.3 France
 - 7.3.1 Historical Trend (2018-2024)
 - 7.3.2 Forecast Trend (2025-2034)
 - 7.4 Italy
 - 7.4.1 Historical Trend (2018-2024)
 - 7.4.2 Forecast Trend (2025-2034)
 - 7.5 Others
- 8 Asia Pacific Insecticide Market Analysis
 - 8.1 China
 - 8.1.1 Historical Trend (2018-2024)
 - 8.1.2 Forecast Trend (2025-2034)
 - 8.2 Japan
 - 8.2.1 Historical Trend (2018-2024)
 - 8.2.2 Forecast Trend (2025-2034)
 - 8.3 India
 - 8.3.1 Historical Trend (2018-2024)
 - 8.3.2 Forecast Trend (2025-2034)
 - 8.4 ASEAN
 - 8.4.1 Historical Trend (2018-2024)
 - 8.4.2 Forecast Trend (2025-2034)
 - 8.5 Australia
 - 8.5.1 Historical Trend (2018-2024)
 - 8.5.2 Forecast Trend (2025-2034)
 - 8.6 Others
- 9 Latin America Insecticide Market Analysis
 - 9.1 Brazil
 - 9.1.1 Historical Trend (2018-2024)
 - 9.1.2 Forecast Trend (2025-2034)

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- 9.2 Argentina
 - 9.2.1 Historical Trend (2018-2024)
 - 9.2.2 Forecast Trend (2025-2034)
- 9.3 Mexico
 - 9.3.1 Historical Trend (2018-2024)
 - 9.3.2 Forecast Trend (2025-2034)
- 9.4 Others
- 10 Middle East and Africa Insecticide Market Analysis
 - 10.1 Saudi Arabia
 - 10.1.1 Historical Trend (2018-2024)
 - 10.1.2 Forecast Trend (2025-2034)
 - 10.2 United Arab Emirates
 - 10.2.1 Historical Trend (2018-2024)
 - 10.2.2 Forecast Trend (2025-2034)
 - 10.3 Nigeria
 - 10.3.1 Historical Trend (2018-2024)
 - 10.3.2 Forecast Trend (2025-2032)
 - 10.4 South Africa
 - 10.4.1 Historical Trend (2018-2024)
 - 10.4.2 Forecast Trend (2025-2034)
 - 10.5 Others
- 11 Market Dynamics
 - 11.1 SWOT Analysis
 - 11.1.1 Strengths
 - 11.1.2 Weaknesses
 - 11.1.3 Opportunities
 - 11.1.4 Threats
 - 11.2 Porter's Five Forces Analysis
 - 11.2.1 Supplier's Power
 - 11.2.2 Buyer's Power
 - 11.2.3 Threat of New Entrants
 - 11.2.4 Degree of Rivalry
 - 11.2.5 Threat of Substitutes
 - 11.3 Key Indicators of Demand
 - 11.4 Key Indicators of Price
- 12 Value Chain Analysis
- 13 Global Trade Dynamics (HS Code- 38810)
 - 13.1 Global Imports and Exports by Country in terms of Volume
 - 13.2 Global Imports and Exports by Country in terms of Value
- 14 Competitive Landscape
 - 14.1 Supplier Selection
 - 14.2 Key Global Players
 - 14.3 Key Regional Players
 - 14.4 Key Player Strategies
 - 14.5 Company Profile
 - 14.5.1 BASF SE
 - 14.5.1.1 Company Overview

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- 14.5.1.2 Product Portfolio
- 14.5.1.3 Demographic Reach and Achievements
- 14.5.1.4 Certifications
- 14.5.2 Bayer AG
 - 14.5.2.1 Company Overview
 - 14.5.2.2 Product Portfolio
 - 14.5.2.3 Demographic Reach and Achievements
 - 14.5.2.4 Certifications
- 14.5.3 Corteva Agriscience
 - 14.5.3.1 Company Overview
 - 14.5.3.2 Product Portfolio
 - 14.5.3.3 Demographic Reach and Achievements
 - 14.5.3.4 Certifications
- 14.5.4 Syngenta Crop Protection AG
 - 14.5.4.1 Company Overview
 - 14.5.4.2 Product Portfolio
 - 14.5.4.3 Demographic Reach and Achievements
 - 14.5.4.4 Certifications
- 14.5.5 UPL Ltd.
 - 14.5.5.1 Company Overview
 - 14.5.5.2 Product Portfolio
 - 14.5.5.3 Demographic Reach and Achievements
 - 14.5.5.4 Certifications
- 14.5.6 Nufarm Ltd.
 - 14.5.6.1 Company Overview
 - 14.5.6.2 Product Portfolio
 - 14.5.6.3 Demographic Reach and Achievements
 - 14.5.6.4 Certifications
- 14.5.7 Sumitomo Chemical Co. Ltd.
 - 14.5.7.1 Company Overview
 - 14.5.7.2 Product Portfolio
 - 14.5.7.3 Demographic Reach and Achievements
 - 14.5.7.4 Certifications
- 14.5.8 FMC Corp.
 - 14.5.8.1 Company Overview
 - 14.5.8.2 Product Portfolio
 - 14.5.8.3 Demographic Reach and Achievements
 - 14.5.8.4 Certifications
- 14.5.9 ADAMA Agricultural Solutions Limited
 - 14.5.9.1 Company Overview
 - 14.5.9.2 Product Portfolio
 - 14.5.9.3 Demographic Reach and Achievements
 - 14.5.9.4 Certifications
- 14.5.10 American Vanguard Corporation
 - 14.5.10.1 Company Overview
 - 14.5.10.2 Product Portfolio
 - 14.5.10.3 Demographic Reach and Achievements

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14.5.10.4 Certifications

14.5.11 Others

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