

US Insecticide - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2024 - 2029)

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Abstracts

The US Insecticide Market size is estimated at 7.64 billion USD in 2024, and is expected to reach 9.58 billion USD by 2029, growing at a CAGR of 4.65% during the forecast period (2024-2029).

The foliar application mode is a common and effective way of applying insecticides for preventive and curative reasons

Apart from climate change, insect pests cause major damage to the country's agriculture sector. Farmers in the country are adopting various strategies, among which the application of chemical insecticides has been the most effective in controlling pest infestations and enhancing plant productivity. Farmers are utilizing different application modes for insecticide application based on the crop type, insect pests, and their effects.

Among all application modes, the foliar application of insecticides holds the majority share in the US insecticide market, amounting to 56.4% in 2022. This is a traditional and effective way of controlling foliar insect pests by directly targeting them, as it reduces their population by killing them with rapid action. During the forecast period, the application mode is projected to register a CAGR of 4.7% in the US insecticide market.

Insecticide seed treatment is the segment occupying the next largest market share. It is also the fastest-growing application mode as it effectively controls soil-borne pests in major crops like wheat and maize and reduces pesticide usage in future growth stages. The market for this application mode is expected to record a CAGR of 4.9%.

Grain and cereal crop growers are majorly adopting all application methods in their cultivation based on the crop stage and insect pests, as these crops are more susceptible to insect pests. Foliar insecticide application is majorly adopted by the farmers of these crops.

All the application methods are effective in their way of usage to control the insect pests causing damage to the crops. The US insecticide market is expected to grow with an estimated CAGR of 4.6% during the forecast period (2023-2029).

US Insecticide Market Trends

Increasing pest pressure is driving the demand for insecticides in the country

The consumption of insecticides in the United States per hectare experienced a significant increase of 17.1% from 2017 to 2022. This notable surge can be attributed to a variety of factors that have influenced the usage of insecticides in the country, including the expansion of intensive farming practices and increased pest pressures in certain regions.

Crop losses and yield reduction caused by pests have become a major concern for farmers. For instance, in the case of wheat, one of the significant field crops in the United States, the yield witnessed a decrease from 3,200 thousand g/ha in 2018 to 2,978.2 thousand g/ha in 2021, primarily due to factors such as pest infestations. Such losses in crop productivity pose a significant threat to food security and necessitate the use of insecticides to mitigate the damage caused by pests.

Invasive insects and pathogens contribute to the need for increased insecticide usage. Crop and forest production losses resulting from these invasive species have been estimated at almost USD 40 billion annually. To combat these detrimental effects, farmers have to resort to insecticides to protect their crops and mitigate economic losses.

Additionally, the development of resistance among pests toward certain pesticides is a growing concern. Over time, pests can adapt and become resistant to the effects of certain insecticides, rendering them less effective. This necessitates higher application rates or more frequent use of insecticides to achieve the desired level of pest control, further driving up the consumption of these chemicals.

Therefore, increasing crop losses, reduction of yield, and the growing demand for food are expected to drive the growth of the US insecticide market.

The effectiveness of cypermethrin in controlling various insects and fluctuations in import tariffs are driving its prices

In 2022, the price of cypermethrin was USD 21.2 thousand per metric ton. It has been widely adopted in the agricultural industry for its effectiveness in controlling various types of insects, including aphids, beetles, spotted ball worms, pink ball worms, early spot borers, and hairy caterpillars. Its effectiveness has made it a popular choice for farmers seeking to protect their crops from pests and ensure a successful harvest.

Imidacloprid is a powerful neonicotinoid insecticide with effective systemic and residual properties. It can control a wide range of insects, including aphids, cane beetles, thrips, stink bugs, locusts, and a variety of other insects that damage crops. It is also used as a seed treatment to protect emerging plants from pests and is often used to control soil-dwelling pests that can damage young plants as they germinate and grow. Products containing imidacloprid are sold in various formulations, including liquid and solid concentrates. Due to its plant compatibility and low application rates, it is a popular choice among farmers. The price of this active ingredient was valued at a price of USD 17.2 thousand per metric ton in 2022.

In agricultural production, malathion is an organophosphate insecticide that is used to control a wide variety of food and feed crops to control many types of insects such as aphids, fleas, leafhoppers, Japanese beetles, and other insect pests on a number of crops. Five crops that are extensively grown in the United States that use malathion frequently are cherry tomato, broccoli, mulberry, cranberry, and fig. It was priced at USD 12.6 thousand per metric ton in 2022.

US Insecticide Industry Overview

The US Insecticide Market is fragmented, with the top five companies occupying 20.55%. The major players in this market are BASF SE, Bayer AG, Corteva Agriscience, FMC Corporation and Syngenta Group (sorted alphabetically).

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Contents

1 EXECUTIVE SUMMARY & KEY FINDINGS

2 REPORT OFFERS

3 INTRODUCTION

3.1 Study Assumptions & Market Definition

3.2 Scope of the Study?

3.3 Research Methodology

4 KEY INDUSTRY TRENDS

4.1 Consumption Of Pesticide Per Hectare

4.2 Pricing Analysis For Active Ingredients

4.3 Regulatory Framework

4.3.1 United States

4.4 Value Chain & Distribution Channel Analysis

5 MARKET SEGMENTATION (INCLUDES MARKET SIZE IN VALUE IN USD AND VOLUME, FORECASTS UP TO 2029 AND ANALYSIS OF GROWTH PROSPECTS)

5.1 Application Mode

5.1.1 Chemigation

5.1.2 Foliar

5.1.3 Fumigation

5.1.4 Seed Treatment

5.1.5 Soil Treatment

5.2 Crop Type

5.2.1 Commercial Crops

5.2.2 Fruits & Vegetables

5.2.3 Grains & Cereals

5.2.4 Pulses & Oilseeds

5.2.5 Turf & Ornamental

6 COMPETITIVE LANDSCAPE

6.1 Key Strategic Moves

6.2 Market Share Analysis

6.3 Company Landscape

6.4 Company Profiles (includes Global level Overview, Market level overview, Core Business Segments, Financials, Headcount, Key Information, Market Rank, Market Share, Products and Services, and analysis of Recent Developments)

6.4.1 ADAMA Agricultural Solutions Ltd.

6.4.2 American Vanguard Corporation

6.4.3 BASF SE

6.4.4 Bayer AG

6.4.5 Corteva Agriscience

6.4.6 FMC Corporation

6.4.7 Nufarm Ltd

6.4.8 Sumitomo Chemical Co. Ltd

6.4.9 Syngenta Group

6.4.10 UPL Limited

7 KEY STRATEGIC QUESTIONS FOR CROP PROTECTION CHEMICALS CEOS

8 APPENDIX

8.1 Global Overview

8.1.1 Overview

8.1.2 Porter's Five Forces Framework

8.1.3 Global Value Chain Analysis

8.1.4 Market Dynamics (DROs)

8.2 Sources & References

8.3 List of Tables & Figures

8.4 Primary Insights

8.5 Data Pack

8.6 Glossary of Terms

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