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Pyrethrin Market Size, Share, Trends and Forecast by Type, Pest Type, Application, and Region, 2026-2034

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Abstracts

The global pyrethrin market size was valued at USD 72.0 Million in 2025. Looking forward, IMARC Group estimates the market to reach USD 125.4 Million by 2034, exhibiting a CAGR of 6.18% during 2026-2034. North America currently dominates the market, holding a significant market share of over 46.5% in 2025. This is driven by strong agricultural demand, growing consumer preference for eco-friendly solutions, and regulatory support.

A major driver of the pyrethrin market is the growing demand for environmentally friendly and biodegradable insecticides across agricultural, residential, and commercial sectors. Pyrethrins, derived from chrysanthemum flowers, are valued for their natural origin, effectiveness in pest control, and low toxicity. With increasing concerns about the environmental and health impacts of synthetic chemical pesticides, pyrethrins are gaining preference as a sustainable alternative. Additionally, the rise in global agricultural activities, coupled with the need to enhance crop protection while adhering to stricter environmental regulations, further fuels the demand for pyrethrin-based products in diverse markets.

The United States plays a significant role in the pyrethrin market, driven by its advanced agricultural sector and stringent environmental regulations. The demand for pyrethrin-based products is fueled by their effectiveness as natural insecticides and their alignment with eco-friendly pest control practices. In the US, pyrethrin is widely used in agriculture, public health programs, and residential pest management due to its biodegradability and safety profile. For instance, in 2025, MGK, a leader in pyrethrum-based insect control, secured EPA registration for Veratrine, a new active ingredient enhancing its botanical portfolio with an innovative mode of action. Additionally, the nation’s robust research and development capabilities contribute to innovations in

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pyrethrin formulations, enhancing their efficiency and expanding their applications. This positions the US as a key player in the global pyrethrin market.

PYRETHRIN MARKET TRENDS:

Rising Demand for Natural and Organic Pest Control Solutions

One of the key drivers for the pyrethrin market is the increased preference of consumers to use eco-friendly and non-toxic pest control products. Being derived from flowers of chrysanthemum, pyrethrins hold a lot of value in being natural and biodegradable; hence, this product is extremely suitable for organic farming and residential pest control. Concurrently, along with the general trend of consumer consciousness that is shifting towards sustainability in consumption, demand for ecologically conscious products is rising. According to the Organic Trade Association, organic food sales in the U.S. climbed at a remarkable rate of 12.8% in 2020, reaching a record USD 56.4 billion. Thus, the trend in the sale of organic food is indicating a rising preference among consumers towards more environment-friendly and healthy products, which the pest control industry cannot be exempt from. The increased demand for organic farming practices, the need for natural, non-toxic pest control solutions like pyrethrins, and market growth in developed countries will increase the market further.

Expansion in Agricultural Applications

Pyrethrin has been highly adopted in the agriculture sector since it is highly effective in controlling a broad spectrum of pests such as aphids, beetles, and caterpillars. As farmers aim to increase crop yields and minimize losses caused by pests, the use of pyrethrins is an environmentally friendly method of achieving sustainable agriculture. It is particularly crucial for developing countries that have agriculture as a significant sector of their economies, and crop protection is fundamental to food security and economic growth. USDA data indicates that global agricultural production increased at an average yearly rate of 2.3% between 1961 and 2020, demonstrating the growing need for more efficient farming methods. Henceforth, as farm production continues increasing, the increasing demand for practical pest control substances such as pyrethrins will further ensure the growth prospects of this industry. The current trend towards 'green' nontoxic product alternatives further drives the growth factor of the rising adoption of this product in agricultural applications.

Stringent Regulatory Environment Favoring Biodegradable Solutions

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The effects of synthetic pesticides to the environment and human health have led different governments and regulatory bodies around the world to impose strict use regulations. Because pyrethrins are naturally derived and less toxic, their popularity has increased as a safer alternative. With these changes, the European Union's Farm to Fork Strategy as part of the European Green Deal strives to build more just, healthy, and environmentally sustainable food systems. Such a strategy includes the reduction of pesticide use, with eco-friendly solutions like pyrethrins to promote more sustainable agriculture and pest control. An industry report indicates that biological pest management methods can reduce chemical pesticide usage by up to 95% in certain crop management scenarios.

PYRETHRIN INDUSTRY SEGMENTATION:

IMARC Group provides an analysis of the key trends in each segment of the global pyrethrin market, along with forecast at the global, regional, and country levels from 2026-2034. The market has been categorized based on type, pest type, and application.

Analysis by Type:

Pyrethrin I

Pyrethrin II

Pyrethrin I leads the market in 2025 due to its widespread use and effectiveness as a natural insecticide. Derived from chrysanthemum flowers, pyrethrin I is highly valued for its low toxicity to humans and animals while being effective against a broad range of pests. This has made it the preferred choice in agriculture, especially with growing concerns over the environmental and health impacts of synthetic pesticides. As demand for environmentally friendly and biodegradable pest control solutions increases, pyrethrin I stands out as a sustainable alternative. Additionally, the continued expansion of the global agricultural sector and increasing regulatory pressure for safer, non-toxic pesticides further strengthen pyrethrin I's dominance in the market.

Analysis by Pest Type:

Lepidoptera

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Sucking Pests

Coleoptera

Diptera

Mites

Others

Diptera leads the market in 2025. due to its prominence in various agricultural and pest control applications. Diptera, a large order of insects that includes flies, mosquitoes, and midges, plays a significant role in the effectiveness of certain pest management strategies. Many diptera species are used in biological pest control, helping to regulate pest populations naturally and reducing the need for chemical insecticides. This growing trend toward biological pest control and integrated pest management (IPM) solutions has contributed to the strong market position of diptera. Additionally, the increasing awareness of environmental sustainability and the desire for eco-friendly pest control alternatives are driving the demand for diptera-based products. Their use is expected to continue expanding, particularly in agriculture, horticulture, and commercial sectors, where pest management is crucial for improving yields and maintaining healthy ecosystems.

Analysis by Application:

Agricultural Insecticides

Household Insecticides

Commercial and Industrial

Animal Healthcare

Others

Pyrethrins are widely used in agricultural insecticides due to their effectiveness in controlling pests like aphids, beetles, and caterpillars. As natural, biodegradable

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solutions, pyrethrins help farmers protect crops without harming beneficial insects or the environment. The growing demand for eco-friendly pest control methods in agriculture supports the continued use and growth of pyrethrin-based insecticides.

In the household insecticide market, pyrethrins are popular for their ability to eliminate common pests such as mosquitoes, flies, and ants. Due to their low toxicity to humans and pets, they offer a safer alternative to synthetic chemicals. As consumers increasingly prioritize health-conscious and environmentally friendly options, pyrethrins continue to thrive in household pest control products.

Pyrethrins are utilized in commercial and industrial settings, particularly for controlling pests in warehouses, food processing plants, and hospitality environments. Their broad-spectrum effectiveness and low environmental impact make them ideal for use in sensitive areas where hygiene is crucial. Pyrethrin-based insecticides are growing in demand as industries seek sustainable pest management solutions to comply with regulatory standards.

In animal healthcare, pyrethrins are commonly found in products used for flea and tick control on pets and livestock. They are valued for their quick knockdown effect and safety for animals when used correctly. The increasing concern over pesticide exposure in animals and the demand for natural, less toxic treatments have contributed to the rising use of pyrethrins in veterinary applications.

Regional Analysis

- North America
  - United States
  - Canada
- Europe
  - Germany
  - France
  - United Kingdom

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- Italy
- Spain
- Russia
- Others

Asia Pacific

- China
- Japan
- India
- South Korea
- Australia
- Indonesia
- Others

Latin America

- Brazil
- Mexico
- Others

Middle East and Africa

In 2025, North America accounted for the largest market share of over 46.5%. This dominance is driven by growing demand for eco-friendly and biodegradable pest control solutions. The region’s strong agricultural sector, which relies heavily on effective pest management for crop protection, is a major contributor to this market share.

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Additionally, increased consumer awareness regarding the harmful effects of synthetic pesticides has spurred the adoption of natural alternatives like pyrethrins, further propelling market growth. Regulatory support in North America also plays a key role, with stricter environmental and health regulations encouraging the use of safer, non-toxic insecticides. This trend is supported by a strong presence of leading pyrethrin manufacturers, enhancing the region’s market dominance and growth potential.

KEY REGIONAL TAKEAWAYS:

UNITED STATES PYRETHRIN MARKET ANALYSIS

In 2020, the U.S. organic market saw significant growth, as organic sales rose by 12.4 percent to hit a high of USD 61.9 Billion, as reported by the Organic Trade Association. This expansion, which greatly surpassed last year's 5 percent rise, reflects a rising consumer inclination towards natural, environmentally friendly products. With the demand for organic food and products on the rise, so too is the demand for sustainable pest control solutions. This change in line is toward less hazardous options like the naturally sourced insecticide called pyrethrin, a chemical derived from chrysanthemum flowers. It serves well in managing pests without danger to humans and animals and poses no harm to the environment as well. The fast growth of the organic market in the U.S. is driving the demand for pyrethrin-based pest control solutions, which further boosts the growth of the pyrethrin market as more consumers and farmers are opting for natural alternatives to synthetic pesticides.

EUROPE PYRETHRIN MARKET ANALYSIS

There was a significant expansion in oilseed production in the European Union in 2023. Estimated at 33.4 million tonnes, this marked a notable increase of 0.9 million tonnes from the output noted the previous year, according to industry reports. In particular, the European Commission reported that the production of rape and turnip rape seeds reached 19.6 million tonnes. According to analysts, this surge in oilseed harvest indicates the increased demand for agricultural produce and must be matched with effective countermeasures against pest attacks. There is now a focus on sustainable pest control solutions with growing agricultural production. This is also driving the demand for natural alternatives, such as pyrethrins. Being derived from chrysanthemums, these are highly effective against a very wide range of pests, hence ideal for oilseed crops such as rapeseed. As the EU continues to emphasize sustainable agriculture practices, the demand for natural pest control products like pyrethrins is likely to increase, thereby fueling the growth of the pyrethrin market.

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ASIA PACIFIC PYRETHRIN MARKET ANALYSIS

As per an industry report, the Asia-Pacific area, which accounts for over 90% of worldwide rice production and consumption, is experiencing changes in consumption habits due to urbanization and increasing wealth. While per capita rice consumption has begun declining in higher-income Asian nations, such as Japan and the Republic of Korea, there is a still significant demand for effective agricultural solutions to ensure crop yields are protected. The need for better agricultural practices in the region, combined with the trend towards sustainable farming, fuels the use of natural pest control agents such as pyrethrins. With farmers in Asia looking for eco-friendly and effective methods to combat pests affecting crops, including rice, the demand for pyrethrins is expected to increase. Pyrethrins, as derived from chrysanthemums, are non-toxic biodegradable options compared to their synthetic counterparts; hence, there is a rapidly growing demand from the agricultural sectors of the Asia-Pacific region and is driving this market.

LATIN AMERICA PYRETHRIN MARKET ANALYSIS

Industry reports indicate that agricultural output in Latin America could rise by up to 80% to satisfy the growing demand from a population increase of over 35% by 2050. In this regard, there is now a great urge for efficient control of pests since this will play a significant role in crop safety and higher yield. With increased awareness in regards to environmental and health threats posed by synthetic pesticides, farmers in Latin America are now gravitating toward natural pyrethrins, which have been derived from chrysanthemums. These compounds are biodegradable, eco-friendly, and effective against a range of pests, which is an advantage for sustainable farming practices. Natural pest control products such as pyrethrin, since it seeks a greater level of agricultural productivity by limiting the damaging impacts of an environmental standpoint for this region. A higher agricultural landscape has boosted the demand to seek a method to control more efficient means, driving growth of Latin America for the pyrethrin market.

MIDDLE EAST AND AFRICA PYRETHRIN MARKET ANALYSIS

The Middle East and Africa region is experiencing immense growth in the production of agricultural products, such as Egypt, which is growing to be among the largest primary fruit and primary vegetable producers worldwide. In fact, according to the reports from the FAO, Egypt produced over 14.3 million metric tons of primary fruits and 15.9 million

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metric tons of primary vegetables just in 2023; the country continues to be one of the primary export destinations for fruits and vegetables by the European Union. This comes at a time when agricultural production in the region is on the rise. It is also on the rise that the need for effective pest control solutions increases as well. Responding to concerns over the environmental and health effects of synthetic pesticides, farmers in the MEA region are increasingly embracing eco-friendly alternatives such as pyrethrins. Pyrethrins are derived from chrysanthemums and are biodegradable and natural pesticide solutions that can efficiently control a range of pests. The demand for this sort of approach is growing, and such trends are being foreseen in this sector of Middle East and Africa about pyrethrins in future.

COMPETITIVE LANDSCAPE:

The pyrethrin market is shaped by the involvement of major international and regional companies, all competing to increase their market presence through innovation, strategic alliances, and expansion into new regions. Companies focus on developing advanced formulations that enhance the efficacy and stability of pyrethrin-based products to cater to diverse applications in agriculture, public health, and residential pest control. For instance, in 2024, BASF's Agricultural Solutions division launched SUWEIDA, a natural pyrethrin-based pesticide aerosol. Safe for humans and pets, it offers an effective solution for household pest problems. The market is also influenced by increasing investments in research and development to improve production processes and meet stringent regulatory requirements. Competitive differentiation often hinges on sustainability initiatives and the ability to supply high-quality, natural pyrethrin in response to growing consumer demand for eco-friendly pest control solutions. Market consolidation through mergers and acquisitions is also a notable trend.

The report provides a comprehensive analysis of the competitive landscape in the pyrethrin market with detailed profiles of all major companies, including:

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Kapi Limited

Pestech Australia Pty Ltd

Scintex Australia

Sumitomo Chemical Co. Ltd.

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W. Neudorff GmbH KG

Zhejiang Rayfull Chemicals Co. Ltd.

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