

# **Agricultural Pheromone Market By Crop Type (Field Crops, Fruit and Vegetables, Ornamental Plants, Others) , By Function (Mass Trapping, Mating Disruption, Monitoring and Detection) By Mode of Application (Traps, Dispensers, Sprays, Pheromone-Impregnated Materials) : Global Opportunity Analysis and Industry Forecast, 2024-2033**

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## **Abstracts**

The agricultural pheromone market was valued at \$3.8 billion in 2023, and is projected to reach \$17.9 billion by 2033, growing at a CAGR of 16.7% from 2024 to 2033.

Agricultural pheromones are chemicals that are used for effective and sustainable pest management. They work by disrupting the pest's ability to mate, inhibiting the growth of and from destroying crops. They serve as a valuable tool in pest management as they specifically target pests and minimize environmental impact.

The growth of the global agricultural pheromone market is majorly driven by increase in environmental concerns associated with the use of chemical-based pesticides and surge in preference of farmers toward sustainable farming practices. Moreover, implementation of stringent government regulations toward chemical pesticides promotes the growth of the market. For instance, the Environmental Protection Agency (EPA) has enforced many programs and strategies to ensure safe level of exposure to the residues of pesticides that may remain on food. For instance, Pesticide Residue Monitoring Program monitors and regulates that pesticide residues are present within the allowable tolerance level. Such regulations limit the adoption of chemical pesticides and promote the use of pheromones, which significantly contributes toward the growth of the global market. However, insects exhibit the potential to develop

resistance against pheromones similar to how they become resistant to chemical pesticides, which restrains the growth of the market. In addition, pheromones can be costly to produce and apply as compared to traditional chemical pesticides. Extensive initial setup requirements including dispensers and monitoring equipment, incur additional cost, which acts as a key deterrent factor of the market. Moreover, the species-specific nature of pheromones attract or repel certain types of insects or pests, which limits their effectiveness against multiple pests, thus hampering the market growth. On the contrary, ongoing research into new formulations and delivery methods for pheromones such as microencapsulation, slow-release formulations, and novel dispensing systems improve effectiveness and longevity, which is expected to open new avenues for the expansion of the market in the coming future.

The agricultural pheromone market forecast is segmented into crop type, function, mode of application, and region. On the basis of crop type, the market is classified into field crops, fruit & vegetables, ornamental plants, and others. By function, it is categorized into mass trapping, mating disruption, and monitoring & detection. Depending on mode of application, it is fragmented into traps, dispensers, sprays, and pheromone-impregnated materials. Region-wise, the market is studied across North America, Europe, Asia-Pacific, and LAMEA.

### Key Findings

On the basis of crop type, the field crops segment is expected to dominate the market by 2033.

By function, the mating disruption segment is expected to lead throughout the forecast period.

Depending on mode of application, the dispensers segment is anticipated to gain high prominence in the coming years.

Region wise, Asia-Pacific is likely to maintain its dominance by 2033.

### Competition Analysis

Competitive analysis and profiles of the major players in the global agricultural pheromone market include FMC Corporation, Ephytia, BASF SE, MITSUI & CO., LTD, Biobest Group NV, Russell IPM, ISCA, TruCrop Inc, BedoukianBio, Pherobank These

major players have adopted various key development strategies such as business expansion, new product launches, and partnerships, which help t%li%garner maximum share in the agricultural pheromone market and sustain intense competition.

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Investment Opportunities

Product Life Cycles

Upcoming/New Entrant by Regions

Technology Trend Analysis

Distributor margin Analysis

Market share analysis of players by products/segments

New Product Development/ Product Matrix of Key Players

Patient/epidemiology data at country, region, global level

Regulatory Guidelines

Additional company profiles with specific client's interest

Additional country or region analysis- market size and forecast

Expanded list for Company Profiles

Historic market data

Key player details (including location, contact details, supplier/vendor network etc. in excel format)

Market share analysis of players at global/region/country level

Product Consumption Analysis

SWOT Analysis

Volume Market Size and Forecast

Key Market Segments

By Crop Type

Field Crops

Fruit and Vegetables

Ornamental Plants

Others

#### By Function

Mass Trapping

Mating Disruption

Monitoring and Detection

#### By Mode Of Application

Traps

Dispensers

Sprays

Pheromone-Impregnated Materials

#### By Region

North America

U.S.

Canada

Mexico

Europe

France

Germany

Italy

Spain

UK

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Brazil

South Africa

Saudi Arabia

Rest of LAMEA

Key Market Players

FMC Corporation

Ephytia

BASF SE

MITSUI & CO., LTD

Biobest Group NV

Russell IPM

ISCA

Tr?c? Inc

BedoukianBio

Pherobank

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