

Integrated Pest Management Pheromones Market By Pheromone Type (Pheromone Traps, Lures), Product (Sex, Aggregation, Alarm), Pest Type (Moths, Beetles), Function (Mating Disruption, Mass Trapping), Application (Agriculture, Other) - Global Forecast to 2028

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Abstracts

Integrated Pest Management Pheromones Market By Pheromone Type (Pheromone Traps, Lures), Product (Sex, Aggregation, Alarm), Pest Type (Moths, Beetles), Function (Mating Disruption, Mass Trapping), Application (Agriculture, Other) - Global Forecast to 2028

The integrated pest management pheromones market is expected to grow at a CAGR of 12.3% from 2021 to 2028 to reach \$1.54 billion by 2028.

Following a thorough secondary and primary research and in-depth analysis of the market scenario, the report carries out the key industry drivers, restraints, challenges, and opportunities.

Factors such as the rising need to increase agricultural production, favorable government initiatives & reforms/policies, rising awareness regarding the advantages of IPM pheromone technologies, and growing public concerns over the potential health hazards of synthetic pesticides drive the growth of this market. Advances in pheromone technologies are expected to create opportunities for market growth in the coming years.

In terms of product, the pheromone traps segment is estimated to account for the

largest share of the integrated pest management pheromones market in 2021. The large share of this segment is mainly attributed to rising agricultural production worldwide. The Global Agricultural Total Factor Productivity (TFP) is growing at an average annual rate of 1.63%. The 2020 GAP report also suggests that to sustainably double the production of food, fiber, feed, and bioenergy needed to sustain nearly 10 billion people by 2050, agricultural productivity needs to increase at an average annual rate of 1.73%, which is higher than the current growth rate. Thus, rising agricultural production is expected to drive the demand for pheromone traps in the forecast period.

In terms of type, the sex pheromones segment is estimated to account for the largest share of the integrated pest management pheromones market in 2021. The large share of this segment is mainly attributed to recent developments in pheromone research and the rising awareness about pheromone applications in integrated pest management. Sex pheromones are widely used in integrated pest management. Recent developments in sex pheromone research (mechanisms of sex pheromone perception and its practical application in agricultural pest management) support the adoption of sex pheromones in agricultural pest management. For instance, in January 2021, scientists from ISCA, Inc. (U.S.) collaborated with research teams of Lund University (Swedish Agricultural University) and the University of Nebraska, Lincoln (U.S.) to grow insect sex pheromone precursors successfully in genetically modified strains of camelina plants and create a low-cost source of pheromones needed for sustainable pest control.

In terms of pest type, the moths segment is estimated to account for the largest share of the integrated pest management pheromones market in 2021. The large share of this segment is mainly attributed to the growing adoption of pheromones for controlling moth populations. Moth such as diamondback moth, *Plutellaxylostella* (L.), is a serious pest that affects cruciferous vegetables in many parts of the world, particularly in tropical regions. Integrated pest management (IPM) strategies are being increasingly adopted to maintain pest control efficacy and reduce resistance development risks. Non-chemical control approaches such as the use of mating disruption pheromones are some of the IPM strategies gaining significant attention due to their efficacy in controlling moth populations.

In terms of function, the mating disruption segment is estimated to account for the largest share of the integrated pest management pheromones market in 2021. The large share of this segment is mainly attributed to rising agricultural production and growing awareness regarding pheromones in various agricultural applications. Mating disruption is an excellent IPM tool for controlling the pest population. By releasing

sufficiently large quantities of synthetic sex pheromones into the crop atmosphere, the mating process of the insects gets disturbed as the released synthetic sex pheromones mask the natural pheromone plumes, affecting the males' ability to respond to calling females and making the males follow false pheromone trails at the expense of finding mates. Subsequently, the population of moths is reduced as fewer larvae are present to cause crop damage.

In terms of application, the agriculture segment is estimated to account for the largest share of the integrated pest management pheromones market in 2021. The large share of this segment is mainly attributed to rising global agricultural productivity and the large-scale production of ornamental plants and flowers. The growing agricultural production is likely to further drive the demand for integrated pest management pheromones globally. For instance, according to the FAO, vegetable production in the U.S. is growing at an average rate of 3.7%, driving the demand for pest management pheromones.

An in-depth analysis of the geographical scenario of the integrated pest management pheromones market provides detailed qualitative and quantitative insights about the five major geographies (North America, Asia-Pacific, Europe, Latin America, and the Middle East & Africa) along with the coverage of major countries in each region. North America is expected to command the largest share of the global integrated pest management pheromones market in 2021, followed by Europe and Asia-Pacific.

The key companies operating in the global integrated pest management pheromones market are Provivi, Inc. (U.S.), Tr?c?, Inc. (U.S.), ISCA, INC. (U.S.), SEDQ Healthy Crops S.L. (Spain), BioControl (Brazil), NovAgrica Hellas SA (Greece), AGRICHEM, S.A. (Spain), Isagro S.p.A. (Italy), BASF SE (Germany), LaboratiosAgrochem S.L. (Spain), Russell IPM Ltd. (U.K.), Hercon Environmental Inc. (U.S.), International Pheromone Systems, Ltd. (U.K.), Sumi Agro France, Biobest Group NV (Belgium), Suterra LLC (U.S.), Bioline AgroSciences Ltd (U.K.), Pherobank B.V. (Netherlands), AgBiTec (U.S.), Koppert Biological Systems B.V. (Netherlands), Bedoukian Research, Inc. (U.S.), SemiosBio Technologies Inc. (Canada), and Shin-Etsu Chemical Co., Ltd. (Japan).

Scope of the Report

Global Integrated Pest Management Pheromones Market, by Product

Pheromone Traps

Pheromone Lures

Global Integrated Pest Management Pheromones Market, by Type

Sex Pheromones

Aggregation Pheromones

Alarm Pheromones

Other Pheromones

(Note – Other pheromones include host marking and trail pheromones)

Global Integrated Pest Management Pheromones Market, by Pest Type

Moths

Beetles

Fruit Flies

Other Pests

(Note – Other pests include thrips, leafhoppers, aphids, whiteflies, and ants)

Global Integrated Pest Management Pheromones Market, by Function

Mating Disruption

Mass Trapping

Detection & Monitoring

Global Integrated Pest Management Pheromones Market, by Application

Agriculture

Fruits Crops

Field Crops

Vegetable Crops

Other Crops

Non-agricultural Applications

(Note - Other crops include tea, coffee, ornamental, and medicinal plants)

Global Integrated Pest Management Pheromones Market, by Geography

North America

U.S.

Canada

Europe

Germany

France

U.K.

Italy

Spain

Rest of Europe (RoE)

Asia-Pacific (APAC)

Japan

China

India

Australia

Rest of APAC (RoAPAC)

Latin America

Brazil

Mexico

Argentina

Rest of Latin America (RoLATAM)

Middle East & Africa

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