

Insect Feed Market Forecasts to 2032 – Global Analysis By Insect Type (Black Soldier Fly (BSF), Grasshoppers, Mealworms, Silkworms, Cicadas, Fly Larvae, and Other Insect Types), Form, Sales Channel, Application, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Insect Feed Market is accounted for \$1.61 billion in 2025 and is expected to reach \$4.00 billion by 2032 growing at a CAGR of 13.8% during the forecast period. Insect feed refers to animal feed made from processed insects or their by-products, commonly used as a sustainable protein source in livestock, poultry, aquaculture, and pet food industries. It includes whole insects, insect meal, or insect oil, derived mainly from species like black soldier flies, mealworms, and crickets. Insect feed offers high nutritional value, reduces environmental impact, and serves as an eco-friendly alternative to traditional protein sources like soy or fishmeal.

According to RaboResearch analysis, the insect market for protein is projected to expand significantly, potentially reaching 500,000 metric tonnes by 2030 from its current volume of approximately 10,000 metric tonnes, indicating the industry's robust growth trajectory.

Market Dynamics:

Driver:

Growing aquaculture industry

Insect-based feed offers an eco-friendly alternative to traditional sources like fishmeal,

supporting circular economy initiatives. Aquaculture producers are increasingly adopting insect feed due to its high nutritional content and improved digestibility. Regulatory support for sustainable fish farming is encouraging the use of insect protein. Large-scale farms are focusing on cost efficiency and environmental sustainability, making insect feed a preferred option. Innovations in insect farming techniques are enhancing mass production capacity and lowering costs. As a result, the growing aquaculture sector is emerging as a major driver of the insect feed market.

Restraint:

Limited raw material availability

Insect farming requires organic waste, agricultural byproducts, and specific substrates, which are not always consistently available. Seasonal variations and regional shortages affect the quality and quantity of feedstock for insect cultivation. Regulatory restrictions on using certain types of waste for insect rearing can further constrain supplies. Competition among insect protein producers for suitable raw materials can drive up costs. Supply chain inefficiencies often impact the steady flow of resources needed for insect biomass production. This limits scalability for smaller farms and emerging companies in the market.

Opportunity:

Rising meat consumption

Livestock and poultry sectors are exploring alternatives to soybean and fishmeal to reduce environmental impact. Insect feed provides amino acids and lipids essential for animal growth, promoting healthier livestock production. The rising middle-class population in developing regions supports higher meat consumption trends. Sustainability-conscious consumers are influencing the shift toward ethical and eco-friendly feed options. Meat producers are seeking cost-effective feed ingredients, and insect feed fits well into diversified feed formulations. This growing demand presents an exciting opportunity for insect feed manufacturers to scale operations.

Threat:

Limited supply chain infrastructure

Lack of cold storage and logistics networks makes it difficult to transport insect products

safely and efficiently. Traceability and quality assurance systems are yet to be standardized across regions. Regulatory frameworks vary widely, creating compliance challenges for cross-border supply chains. Investors are hesitant due to uncertain infrastructure support, which restricts industry growth. Smaller producers struggle to access broader markets due to fragmented supply networks. Therefore, insufficient supply chain infrastructure poses a substantial threat to market expansion.

Covid-19 Impact:

The pandemic disrupted insect feed supply chains by delaying procurement of raw materials and halting farm operations. Travel bans and trade restrictions impacted exports and imports of insect-based products. However, demand for sustainable protein sources surged as food security concerns rose globally. Producers accelerated research and automation to reduce reliance on manual labor. Interest in decentralized food systems helped promote local insect farming initiatives. Despite the setbacks, the industry bounced back as governments emphasized resilient agriculture.

The black soldier fly (BSF) segment is expected to be the largest during the forecast period

The black soldier fly (BSF) segment is expected to account for the largest market share during the forecast period, due to its adaptability and high nutrient profile. BSF larvae thrive on organic waste, converting it into protein-rich biomass efficiently. They possess antimicrobial properties beneficial for animal health, reducing reliance on antibiotics. The larvae have a favourable fat-to-protein ratio, making them ideal for aqua feed and poultry feed formulations. Regulatory bodies are increasingly approving BSF as a safe feed ingredient.

The aquaculture segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the aquaculture segment is predicted to witness the highest growth rate, due to the search for sustainable fish diets. Fish farms are adopting insect protein to reduce pressure on marine ecosystems caused by fishmeal harvesting. Insect feed promotes faster fish growth and improved immunity, enhancing farm productivity. As global seafood demand rises, producers seek alternative feed sources that minimize environmental footprints. R&D investments and trials by major fish producers are validating the performance of insect feeds.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share, driven by its expanding livestock and aquaculture sectors. Countries like China, India, and Vietnam are actively exploring insect farming to meet growing protein demand. Government policies promoting waste recycling and sustainable agriculture support insect feed adoption. The region benefits from abundant agricultural byproducts used as insect farming substrates. Rapid urbanization is increasing the need for efficient food production systems, including insect feed.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, attributed to rising consumer awareness and regulatory support. Startups and large agribusinesses are investing heavily in insect protein production facilities. The push toward sustainable livestock feeding practices aligns well with insect feed innovation. U.S. and Canadian governments are backing pilot programs to integrate insect ingredients into mainstream farming. The region's advanced supply chain infrastructure facilitates wider distribution and commercialization.

Key players in the market

Some of the key players in Insect Feed Market include Ynsect, Enterra Feed Corporation, Protix, Bugsolutely Ltd., InnovaFeed, Loopworm, AgriProtein, Protenga, Entomo Farms, HiProMine, Hexafly, Aspire Food Group, EnviroFlight, NextProtein, and Beta Hatch.

Key Developments:

In February 2025, Innovafeed and Agryco announce a strategic partnership for the commercialization of Hilucia™ "Frass for plants" organic fertilizer. This partnership marks the coming together of two visionary French companies determined to transform agricultural practices. Innovafeed brings its expertise in the production of sustainable ingredients from insect breeding, while Agryco offers an innovative platform facilitating access to natural, high-performance inputs.

In October 2023, Tyson Foods, Inc. has reached an agreement for a two-fold investment with Protix, the leading global insect ingredients company. The strategic investment will support the growth of the emerging insect ingredient industry and

expand the use of insect ingredient solutions to create more efficient sustainable proteins and lipids for use in the global food system. The agreement combines Tyson Foods' global scale, experience and network with Protix's technology and market leadership.

In May 2023, Insect announces the launch of Spr?ng, its new B2B2C brand for the pet food market. The brand features premium ingredients which combine scientifically proven benefits with a low environmental impact. Spr?ng offers easy-to-incorporate, neutral-tasting, odourless and light brown ingredients, designed with the needs of pet food manufacturers in mind.

Insect Types Covered:

Black Soldier Fly (BSF)

Grasshoppers

Mealworms

Silkworms

Cicadas

Fly Larvae

Other Insect Types

Forms Covered:

Whole Insects

Insect Meal

Insect Oil

Pellets or Extruded Feed

Frass

Sales Channels Covered:

Online

Offline

Applications Covered:

Aquaculture

Poultry Nutrition

Swine (Pig) Nutrition

Pet Food

Dairy Nutrition

Livestock

Other Applications

End Users Covered:

Commercial Farming

Pet Food Industry

Animal Feed Manufacturers

Research & Academic Institutions

Other End Users

Regions Covered:**North America**

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free

Insect Feed Market Forecasts to 2032 – Global Analysis By Insect Type (Black Soldier Fly (BSF), Grasshoppers,...

customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

Contents

1 EXECUTIVE SUMMARY

2 PREFACE

- 2.1 Abstract
- 2.2 Stake Holders
- 2.3 Research Scope
- 2.4 Research Methodology
 - 2.4.1 Data Mining
 - 2.4.2 Data Analysis
 - 2.4.3 Data Validation
 - 2.4.4 Research Approach
- 2.5 Research Sources
 - 2.5.1 Primary Research Sources
 - 2.5.2 Secondary Research Sources
 - 2.5.3 Assumptions

3 MARKET TREND ANALYSIS

- 3.1 Introduction
- 3.2 Drivers
- 3.3 Restraints
- 3.4 Opportunities
- 3.5 Threats
- 3.6 Application Analysis
- 3.7 End User Analysis
- 3.8 Emerging Markets
- 3.9 Impact of Covid-19

4 PORTERS FIVE FORCE ANALYSIS

- 4.1 Bargaining power of suppliers
- 4.2 Bargaining power of buyers
- 4.3 Threat of substitutes
- 4.4 Threat of new entrants
- 4.5 Competitive rivalry

5 GLOBAL INSECT FEED MARKET, BY INSECT TYPE

- 5.1 Introduction
- 5.2 Black Soldier Fly (BSF)
- 5.3 Grasshoppers
- 5.4 Mealworms
- 5.5 Silkworms
- 5.6 Cicadas
- 5.7 Fly Larvae
- 5.8 Other Insect Types

6 GLOBAL INSECT FEED MARKET, BY FORM

- 6.1 Introduction
- 6.2 Whole Insects
- 6.3 Insect Meal
- 6.4 Insect Oil
- 6.5 Pellets or Extruded Feed
- 6.6 Frass

7 GLOBAL INSECT FEED MARKET, BY SALES CHANNEL

- 7.1 Introduction
- 7.2 Online
- 7.3 Offline

8 GLOBAL INSECT FEED MARKET, BY APPLICATION

- 8.1 Introduction
- 8.2 Aquaculture
- 8.3 Poultry Nutrition
- 8.4 Swine (Pig) Nutrition
- 8.5 Pet Food
- 8.6 Dairy Nutrition
- 8.7 Livestock
- 8.8 Other Applications

9 GLOBAL INSECT FEED MARKET, BY END USER

- 9.1 Introduction
- 9.2 Commercial Farming
- 9.3 Pet Food Industry
- 9.4 Animal Feed Manufacturers
- 9.5 Research & Academic Institutions
- 9.6 Other End Users

10 GLOBAL INSECT FEED MARKET, BY GEOGRAPHY

- 10.1 Introduction
- 10.2 North America
 - 10.2.1 US
 - 10.2.2 Canada
 - 10.2.3 Mexico
- 10.3 Europe
 - 10.3.1 Germany
 - 10.3.2 UK
 - 10.3.3 Italy
 - 10.3.4 France
 - 10.3.5 Spain
 - 10.3.6 Rest of Europe
- 10.4 Asia Pacific
 - 10.4.1 Japan
 - 10.4.2 China
 - 10.4.3 India
 - 10.4.4 Australia
 - 10.4.5 New Zealand
 - 10.4.6 South Korea
 - 10.4.7 Rest of Asia Pacific
- 10.5 South America
 - 10.5.1 Argentina
 - 10.5.2 Brazil
 - 10.5.3 Chile
 - 10.5.4 Rest of South America
- 10.6 Middle East & Africa
 - 10.6.1 Saudi Arabia
 - 10.6.2 UAE
 - 10.6.3 Qatar
 - 10.6.4 South Africa

10.6.5 Rest of Middle East & Africa

11 KEY DEVELOPMENTS

11.1 Agreements, Partnerships, Collaborations and Joint Ventures

11.2 Acquisitions & Mergers

11.3 New Product Launch

11.4 Expansions

11.5 Other Key Strategies

12 COMPANY PROFILING

12.1 Ynsect

12.2 Enterra Feed Corporation

12.3 Protix

12.4 Bugsolutely Ltd.

12.5 InnovaFeed

12.6 Loopworm

12.7 AgriProtein

12.8 Protenga

12.9 Entomo Farms

12.10 HiProMine

12.11 Hexafly

12.12 Aspire Food Group

12.13 EnviroFlight

12.14 NextProtein

12.15 Beta Hatch

List Of Tables

LIST OF TABLES

- Table 1 Global Insect Feed Market Outlook, By Region (2024-2032) (\$MN)
- Table 2 Global Insect Feed Market Outlook, By Insect Type (2024-2032) (\$MN)
- Table 3 Global Insect Feed Market Outlook, By Black Soldier Fly (BSF) (2024-2032) (\$MN)
- Table 4 Global Insect Feed Market Outlook, By Grasshoppers (2024-2032) (\$MN)
- Table 5 Global Insect Feed Market Outlook, By Mealworms (2024-2032) (\$MN)
- Table 6 Global Insect Feed Market Outlook, By Silkworms (2024-2032) (\$MN)
- Table 7 Global Insect Feed Market Outlook, By Cicadas (2024-2032) (\$MN)
- Table 8 Global Insect Feed Market Outlook, By Fly Larvae (2024-2032) (\$MN)
- Table 9 Global Insect Feed Market Outlook, By Other Insect Types (2024-2032) (\$MN)
- Table 10 Global Insect Feed Market Outlook, By Form (2024-2032) (\$MN)
- Table 11 Global Insect Feed Market Outlook, By Whole Insects (2024-2032) (\$MN)
- Table 12 Global Insect Feed Market Outlook, By Insect Meal (2024-2032) (\$MN)
- Table 13 Global Insect Feed Market Outlook, By Insect Oil (2024-2032) (\$MN)
- Table 14 Global Insect Feed Market Outlook, By Pellets or Extruded Feed (2024-2032) (\$MN)
- Table 15 Global Insect Feed Market Outlook, By Frass (2024-2032) (\$MN)
- Table 16 Global Insect Feed Market Outlook, By Sales Channel (2024-2032) (\$MN)
- Table 17 Global Insect Feed Market Outlook, By Online (2024-2032) (\$MN)
- Table 18 Global Insect Feed Market Outlook, By Offline (2024-2032) (\$MN)
- Table 19 Global Insect Feed Market Outlook, By Application (2024-2032) (\$MN)
- Table 20 Global Insect Feed Market Outlook, By Aquaculture (2024-2032) (\$MN)
- Table 21 Global Insect Feed Market Outlook, By Poultry Nutrition (2024-2032) (\$MN)
- Table 22 Global Insect Feed Market Outlook, By Swine (Pig) Nutrition (2024-2032) (\$MN)
- Table 23 Global Insect Feed Market Outlook, By Pet Food (2024-2032) (\$MN)
- Table 24 Global Insect Feed Market Outlook, By Dairy Nutrition (2024-2032) (\$MN)
- Table 25 Global Insect Feed Market Outlook, By Livestock (2024-2032) (\$MN)
- Table 26 Global Insect Feed Market Outlook, By Other Applications (2024-2032) (\$MN)
- Table 27 Global Insect Feed Market Outlook, By End User (2024-2032) (\$MN)
- Table 28 Global Insect Feed Market Outlook, By Commercial Farming (2024-2032) (\$MN)
- Table 29 Global Insect Feed Market Outlook, By Pet Food Industry (2024-2032) (\$MN)
- Table 30 Global Insect Feed Market Outlook, By Animal Feed Manufacturers (2024-2032) (\$MN)

Table 31 Global Insect Feed Market Outlook, By Research & Academic Institutions (2024-2032) (\$MN)

Table 32 Global Insect Feed Market Outlook, By Other End Users (2024-2032) (\$MN)

Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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