

Insect-based Pet Food Market Forecasts to 2034 – Global Analysis By Insect Type (Black Soldier Fly Larvae, Mealworms, Crickets, Silkworms, Grasshoppers, Beetles, Other Insect Types), By Product Type, By Form, By Application, By End User and By Geography

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Abstracts

According to Statistics MRC, the Global Insect-based Pet Food Market is accounted for \$1.4 billion in 2026 and is expected to reach \$3.0 billion by 2034 growing at a CAGR of 10% during the forecast period. Insect-based Pet Food utilizes protein derived from insects such as black soldier fly larvae or crickets as a sustainable alternative to traditional meat sources. These foods are highly digestible, nutrient-dense, and environmentally friendly, requiring fewer resources like water and land while producing lower greenhouse gas emissions. They cater to eco-conscious consumers, support circular food systems by using organic waste to rear insects, and offer high-quality protein for pets. Insect-based diets are gaining traction in dog and cat foods for sustainable nutrition.

Market Dynamics:

Driver:

Sustainable protein source adoption increasing

Insects such as black soldier fly larvae, crickets, and mealworms provide high-quality protein with a lower environmental footprint. Consumers are increasingly aware of the ecological benefits of insect farming, including reduced land use and lower greenhouse

gas emissions. Pet owners are also recognizing the nutritional value of insect protein, which is rich in amino acids and fatty acids. This aligns with global sustainability goals and the push toward alternative proteins. As a result, insect-based pet food is gaining traction as a viable eco-friendly option.

Restraint:

Limited consumer acceptance globally

Cultural perceptions and psychological barriers often prevent pet owners from adopting insect-derived products. In developed markets, skepticism about safety and palatability remains a challenge. Marketing efforts are required to educate consumers about the nutritional and environmental advantages of insect protein. Lack of awareness and misconceptions about insect farming further slow adoption. This restraint continues to hinder the market's expansion beyond niche segments.

Opportunity:

Innovative insect-based product development

Companies are developing insect protein blends tailored to specific pet health needs, such as joint care, skin health, and digestive wellness. Advances in processing technology are improving taste, texture, and shelf stability of insect-based products. Partnerships with veterinarians and pet nutritionists are enhancing credibility and consumer trust. E-commerce platforms are enabling wider distribution of novel insect-based pet food brands. These innovations are expected to accelerate mainstream adoption and revenue growth.

Threat:

Supply chain disruptions in insect farming

Insect farming requires controlled environments, and fluctuations in climate or feed availability can impact production. Regulatory uncertainties in different regions also pose challenges to scaling operations. Limited infrastructure for large-scale insect farming restricts consistent supply. Any disruption in production can lead to price volatility and reduced consumer confidence. This supply chain fragility remains a significant threat to the industry's stability.

Covid-19 Impact:

The Covid-19 pandemic had mixed effects on the insect-based pet food market. On one hand, supply chain interruptions affected insect farming and distribution. On the other hand, heightened consumer focus on sustainability and health boosted interest in alternative proteins. Online sales channels grew rapidly as physical retail faced restrictions. Increased pet adoption during lockdowns further supported demand for innovative food options. Overall, the pandemic accelerated digital adoption while exposing vulnerabilities in insect farming logistics.

The black soldier fly larvae segment is expected to be the largest during the forecast period

The black soldier fly larvae segment is expected to account for the largest market share during the forecast period as it offers superior protein content and high digestibility for pets. Its farming efficiency and low environmental footprint make it the most commercially viable insect protein source. Nutritionally, black soldier fly larvae are rich in essential amino acids, fatty acids, and minerals, making them suitable for both dogs and cats. Large-scale adoption by pet food manufacturers is further strengthening its dominance. Consequently, this segment is positioned as the backbone of the insect-based pet food industry.

The pet food manufacturers segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the pet food manufacturers segment is predicted to witness the highest growth rate due to rising incorporation of insect protein into mainstream product lines. Manufacturers are actively investing in R&D to improve palatability and functionality of insect-based diets. Strategic partnerships between insect farms and established pet food companies are driving scalability. Growing consumer demand for sustainable and eco-friendly products is encouraging manufacturers to diversify their offerings. E-commerce platforms are enabling faster distribution of insect-based pet food brands. This segment's rapid expansion highlights the shift from niche innovation to mainstream adoption.

Region with largest share:

During the forecast period, the Europe region is expected to hold the largest market share owing to strong regulatory support and consumer acceptance of sustainable

diets. European Union policies promoting alternative proteins have created a favorable environment for insect-based pet food. High awareness of environmental sustainability among European consumers has accelerated adoption. Established players in countries like Germany, France, and the Netherlands are leading innovation in insect farming. Retail penetration of insect-based pet food is higher in Europe compared to other regions. This combination of regulation, awareness, and infrastructure ensures Europe's dominance in market share.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR as rising disposable incomes and urbanization fuel pet adoption. Countries such as China, India, and Thailand are witnessing growing interest in insect protein as a cost-effective and sustainable solution. Local startups are entering the market with innovative insect-based offerings, expanding accessibility. Increasing awareness of pet health and nutrition is driving demand for alternative proteins. Rapid expansion of e-commerce platforms in Asia Pacific is further supporting distribution. This dynamic growth positions Asia Pacific as the fastest-emerging region in the insect-based pet food market.

Key players in the market

Some of the key players in Insect-based Pet Food Market include Yora Pet Foods, InnovaFeed, Protix B.V., Entomo Farms, Jiminy's LLC, EnviroFlight, Ynsect, Natural Pet Food Group, Tiny Farms, NextProtein, AgriProtein, Chapul Farms, Protenga, BioflyTech and Hexafly.

Key Developments:

In January 2026, InnovaFeed signed a commercial partnership with NaturAlleva, a major aquaculture feed producer, to integrate black soldier fly ingredients into aquaculture nutrition. This move expands InnovaFeed's insect protein applications beyond pet food, reinforcing its role in sustainable feed systems.

In September 2025, Yora Pet Foods launched Ghostdog Pets with its first insect-based brand Sync at PATS 2025 in Birmingham, UK. The new company focuses on insect protein formulations and announced plans to expand its portfolio over 18 months through organic growth and targeted mergers & acquisitions.

Insect Types Covered:

Black Soldier Fly Larvae

Mealworms

Crickets

Silkworms

Grasshoppers

Beetles

Other Insect Types

Product Types Covered:

Dry Pet Food

Wet Pet Food

Treats & Snacks

Functional Pet Food

Supplements

Raw & Freeze-Dried Food

Other Product Types

Forms Covered:

Powder

Pellets

Kibble

Paste

Liquid

Fresh

Other Forms

Applications Covered:

Dogs

Cats

Birds

Fish

Small Mammals

Reptiles

Other Applications

End Users Covered:

Pet Owners

Pet Food Manufacturers

Veterinary Clinics

Pet Specialty Stores

Online Retailers

Breeders

Other End Users

Regions Covered:

North America

United States

Canada

Mexico

Europe

United Kingdom

Germany

France

Italy

Spain

Netherlands

Belgium

Sweden

Switzerland

Poland

Rest of Europe

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Thailand

Malaysia

Singapore

Vietnam

Rest of Asia Pacific

South America

Brazil

Argentina

Colombia

Chile

Peru

Rest of South America

Rest of the World (RoW)

Middle East

Saudi Arabia

United Arab Emirates

Qatar

Israel

Rest of Middle East

Africa

South Africa

Egypt

Morocco

Rest of 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 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034
- 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 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

- 1.1 Market Snapshot and Key Highlights
- 1.2 Growth Drivers, Challenges, and Opportunities
- 1.3 Competitive Landscape Overview
- 1.4 Strategic Insights and Recommendations

2 RESEARCH FRAMEWORK

- 2.1 Study Objectives and Scope
- 2.2 Stakeholder Analysis
- 2.3 Research Assumptions and Limitations
- 2.4 Research Methodology
 - 2.4.1 Data Collection (Primary and Secondary)
 - 2.4.2 Data Modeling and Estimation Techniques
 - 2.4.3 Data Validation and Triangulation
 - 2.4.4 Analytical and Forecasting Approach

3 MARKET DYNAMICS AND TREND ANALYSIS

- 3.1 Market Definition and Structure
- 3.2 Key Market Drivers
- 3.3 Market Restraints and Challenges
- 3.4 Growth Opportunities and Investment Hotspots
- 3.5 Industry Threats and Risk Assessment
- 3.6 Technology and Innovation Landscape
- 3.7 Emerging and High-Growth Markets
- 3.8 Regulatory and Policy Environment
- 3.9 Impact of COVID-19 and Recovery Outlook

4 COMPETITIVE AND STRATEGIC ASSESSMENT

- 4.1 Porter's Five Forces Analysis
 - 4.1.1 Supplier Bargaining Power
 - 4.1.2 Buyer Bargaining Power
 - 4.1.3 Threat of Substitutes
 - 4.1.4 Threat of New Entrants

- 4.1.5 Competitive Rivalry
- 4.2 Market Share Analysis of Key Players
- 4.3 Product Benchmarking and Performance Comparison

5 GLOBAL INSECT-BASED PET FOOD MARKET, BY INSECT TYPE

- 5.1 Black Soldier Fly Larvae
- 5.2 Mealworms
- 5.3 Crickets
- 5.4 Silkworms
- 5.5 Grasshoppers
- 5.6 Beetles
- 5.7 Other Insect Types

6 GLOBAL INSECT-BASED PET FOOD MARKET, BY PRODUCT TYPE

- 6.1 Dry Pet Food
- 6.2 Wet Pet Food
- 6.3 Treats & Snacks
- 6.4 Functional Pet Food
- 6.5 Supplements
- 6.6 Raw & Freeze-Dried Food
- 6.7 Other Product Types

7 GLOBAL INSECT-BASED PET FOOD MARKET, BY FORM

- 7.1 Powder
- 7.2 Pellets
- 7.3 Kibble
- 7.4 Paste
- 7.5 Liquid
- 7.6 Fresh
- 7.7 Other Forms

8 GLOBAL INSECT-BASED PET FOOD MARKET, BY APPLICATION

- 8.1 Dogs
- 8.2 Cats
- 8.3 Birds

8.4 Fish

8.5 Small Mammals

8.6 Reptiles

8.7 Other Applications

9 GLOBAL INSECT-BASED PET FOOD MARKET, BY END USER

9.1 Pet Owners

9.2 Pet Food Manufacturers

9.3 Veterinary Clinics

9.4 Pet Specialty Stores

9.5 Online Retailers

9.6 Breeders

9.7 Other End Users

10 GLOBAL INSECT-BASED PET FOOD MARKET, BY GEOGRAPHY

10.1 North America

10.1.1 United States

10.1.2 Canada

10.1.3 Mexico

10.2 Europe

10.2.1 United Kingdom

10.2.2 Germany

10.2.3 France

10.2.4 Italy

10.2.5 Spain

10.2.6 Netherlands

10.2.7 Belgium

10.2.8 Sweden

10.2.9 Switzerland

10.2.10 Poland

10.2.11 Rest of Europe

10.3 Asia Pacific

10.3.1 China

10.3.2 Japan

10.3.3 India

10.3.4 South Korea

10.3.5 Australia

- 10.3.6 Indonesia
- 10.3.7 Thailand
- 10.3.8 Malaysia
- 10.3.9 Singapore
- 10.3.10 Vietnam
- 10.3.11 Rest of Asia Pacific
- 10.4 South America
 - 10.4.1 Brazil
 - 10.4.2 Argentina
 - 10.4.3 Colombia
 - 10.4.4 Chile
 - 10.4.5 Peru
 - 10.4.6 Rest of South America
- 10.5 Rest of the World (RoW)
 - 10.5.1 Middle East
 - 10.5.1.1 Saudi Arabia
 - 10.5.1.2 United Arab Emirates
 - 10.5.1.3 Qatar
 - 10.5.1.4 Israel
 - 10.5.1.5 Rest of Middle East
 - 10.5.2 Africa
 - 10.5.2.1 South Africa
 - 10.5.2.2 Egypt
 - 10.5.2.3 Morocco
 - 10.5.2.4 Rest of Africa

11 STRATEGIC MARKET INTELLIGENCE

- 11.1 Industry Value Network and Supply Chain Assessment
- 11.2 White-Space and Opportunity Mapping
- 11.3 Product Evolution and Market Life Cycle Analysis
- 11.4 Channel, Distributor, and Go-to-Market Assessment

12 INDUSTRY DEVELOPMENTS AND STRATEGIC INITIATIVES

- 12.1 Mergers and Acquisitions
- 12.2 Partnerships, Alliances, and Joint Ventures
- 12.3 New Product Launches and Certifications
- 12.4 Capacity Expansion and Investments

12.5 Other Strategic Initiatives

13 COMPANY PROFILES

13.1 Yora Pet Foods

13.2 InnovaFeed

13.3 Protix B.V.

13.4 Entomo Farms

13.5 Jiminy's LLC

13.6 EnviroFlight

13.7 Ynsect

13.8 Natural Pet Food Group

13.9 Tiny Farms

13.10 NextProtein

13.11 AgriProtein

13.12 Chapul Farms

13.13 Protenga

13.14 BioflyTech

13.15 Hexafly

List Of Tables

LIST OF TABLES

- Table 1 Global Insect-based Pet Food Market Outlook, By Region (2023-2034) (\$MN)
- Table 2 Global Insect-based Pet Food Market, By Insect Type (2023–2034) (\$MN)
- Table 3 Global Insect-based Pet Food Market, By Black Soldier Fly Larvae (2023–2034) (\$MN)
- Table 4 Global Insect-based Pet Food Market, By Mealworms (2023–2034) (\$MN)
- Table 5 Global Insect-based Pet Food Market, By Crickets (2023–2034) (\$MN)
- Table 6 Global Insect-based Pet Food Market, By Silkworms (2023–2034) (\$MN)
- Table 7 Global Insect-based Pet Food Market, By Grasshoppers (2023–2034) (\$MN)
- Table 8 Global Insect-based Pet Food Market, By Beetles (2023–2034) (\$MN)
- Table 9 Global Insect-based Pet Food Market, By Other Insect Types (2023–2034) (\$MN)
- Table 10 Global Insect-based Pet Food Market, By Product Type (2023–2034) (\$MN)
- Table 11 Global Insect-based Pet Food Market, By Dry Pet Food (2023–2034) (\$MN)
- Table 12 Global Insect-based Pet Food Market, By Wet Pet Food (2023–2034) (\$MN)
- Table 13 Global Insect-based Pet Food Market, By Treats & Snacks (2023–2034) (\$MN)
- Table 14 Global Insect-based Pet Food Market, By Functional Pet Food (2023–2034) (\$MN)
- Table 15 Global Insect-based Pet Food Market, By Supplements (2023–2034) (\$MN)
- Table 16 Global Insect-based Pet Food Market, By Raw & Freeze-Dried Food (2023–2034) (\$MN)
- Table 17 Global Insect-based Pet Food Market, By Other Product Types (2023–2034) (\$MN)
- Table 18 Global Insect-based Pet Food Market, By Form (2023–2034) (\$MN)
- Table 19 Global Insect-based Pet Food Market, By Powder (2023–2034) (\$MN)
- Table 20 Global Insect-based Pet Food Market, By Pellets (2023–2034) (\$MN)
- Table 21 Global Insect-based Pet Food Market, By Kibble (2023–2034) (\$MN)
- Table 22 Global Insect-based Pet Food Market, By Paste (2023–2034) (\$MN)
- Table 23 Global Insect-based Pet Food Market, By Liquid (2023–2034) (\$MN)
- Table 24 Global Insect-based Pet Food Market, By Fresh (2023–2034) (\$MN)
- Table 25 Global Insect-based Pet Food Market, By Other Forms (2023–2034) (\$MN)
- Table 26 Global Insect-based Pet Food Market, By Application (2023–2034) (\$MN)
- Table 27 Global Insect-based Pet Food Market, By Dogs (2023–2034) (\$MN)
- Table 28 Global Insect-based Pet Food Market, By Cats (2023–2034) (\$MN)
- Table 29 Global Insect-based Pet Food Market, By Birds (2023–2034) (\$MN)

- Table 30 Global Insect-based Pet Food Market, By Fish (2023–2034) (\$MN)
- Table 31 Global Insect-based Pet Food Market, By Small Mammals (2023–2034) (\$MN)
- Table 32 Global Insect-based Pet Food Market, By Reptiles (2023–2034) (\$MN)
- Table 33 Global Insect-based Pet Food Market, By Other Applications (2023–2034) (\$MN)
- Table 34 Global Insect-based Pet Food Market, By End User (2023–2034) (\$MN)
- Table 35 Global Insect-based Pet Food Market, By Pet Owners (2023–2034) (\$MN)
- Table 36 Global Insect-based Pet Food Market, By Pet Food Manufacturers (2023–2034) (\$MN)
- Table 37 Global Insect-based Pet Food Market, By Veterinary Clinics (2023–2034) (\$MN)
- Table 38 Global Insect-based Pet Food Market, By Pet Specialty Stores (2023–2034) (\$MN)
- Table 39 Global Insect-based Pet Food Market, By Online Retailers (2023–2034) (\$MN)
- Table 40 Global Insect-based Pet Food Market, By Breeders (2023–2034) (\$MN)
- Table 41 Global Insect-based Pet Food Market, By Other End Users (2023–2034) (\$MN)

Note: Tables for North America, Europe, APAC, South America, and Rest of the World (RoW) are also represented in the same manner as above.

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