

Edible Insect Protein Market Forecasts to 2032 – Global Analysis By Insect Type (Crickets, Mealworms, Grasshoppers, Black Soldier Flies, and Locusts), Form, Packaging Type, Application, Distribution Channel, and By Geography.

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Abstracts

According to Statistics MRC, the Global Edible Insect Protein Market is accounted for \$1.8 billion in 2025 and is expected to reach \$14.3 billion by 2032 growing at a CAGR of 33.2% during the forecast period. Edible Insect Protein is a sustainable and highly nutritious food source derived from various insect species like crickets and mealworms. These insects are farmed and processed into high-protein flours, powders, or whole snacks. They offer a complete amino acid profile and require significantly less land, water, and feed than traditional livestock, presenting an eco-friendly alternative to conventional animal and plant proteins.

According to the European Food Safety Authority (EFSA), companies are developing advanced processing techniques like extrusion and fermentation to create insect protein powders and textured proteins that are more palatable and versatile for use in Western food products.

Market Dynamics:

Driver:

Increasing demand for sustainable protein sources

Increasing demand for sustainable protein sources is fueling the growth of the edible insect protein market. Rising consumer awareness regarding environmental

sustainability and the need for low-carbon-footprint protein alternatives are encouraging a shift from traditional livestock-based protein. Additionally, the nutritional benefits of insects, such as high protein, vitamins, and minerals, are driving adoption. Fueled by the global focus on climate change mitigation and sustainable food systems, manufacturers are increasingly incorporating insect proteins into diverse food products, snacks, and animal feed, strengthening market traction.

Restraint:

Cultural acceptance and taste preferences

Cultural acceptance and taste preferences remain key restraints limiting the growth of the edible insect protein market. In several regions, traditional dietary habits and reluctance to try insect-based foods hinder consumer adoption. Negative perceptions related to the “yuck factor” and unfamiliarity with insects as a food source slow market penetration. Moreover, inconsistent consumer education and limited marketing awareness impede mainstream acceptance. Overcoming deep-rooted cultural barriers is crucial for market expansion, especially in Western countries where entomophagy is less prevalent, affecting market scalability.

Opportunity:

Expansion into processed and snack products

Expansion into processed and snack products presents significant opportunities for the edible insect protein market. Manufacturers are increasingly integrating insect proteins into protein bars, chips, bakery products, and ready-to-eat meals, enhancing convenience and consumer appeal. Spurred by growing health-consciousness and demand for high-protein, low-fat snacks, this trend offers room for product diversification. Additionally, partnerships with functional food brands and development of innovative flavor profiles can attract new demographics. The expansion into snacks and processed foods creates a strong platform for long-term market growth.

Threat:

Stringent food safety regulations

Stringent food safety regulations pose a major threat to the edible insect protein market. Compliance with hygiene, processing, and labeling standards varies across regions,

increasing operational complexity. Uncertainties regarding regulatory approvals for novel foods can delay product launches and escalate costs. Additionally, potential risks related to allergens and microbial contamination create liability concerns for manufacturers. Market players must invest in quality assurance and traceability measures to mitigate risks. These regulatory hurdles may restrict rapid commercialization, particularly in North America and Europe, limiting short-term market expansion.

Covid-19 Impact:

The Covid-19 pandemic impacted the edible insect protein market by disrupting supply chains and delaying production. Lockdowns and transportation restrictions affected the sourcing of raw insects and delayed product deliveries, creating temporary shortages. However, the pandemic also heightened consumer focus on protein-rich and immunity-boosting foods, opening new avenues for insect-based products. Online retail platforms gained prominence, facilitating direct-to-consumer sales. Post-pandemic recovery is expected to stabilize supply chains, enhance market penetration, and drive consumer awareness about sustainable and alternative protein sources, benefiting the overall market trajectory.

The crickets segment is expected to be the largest during the forecast period

The crickets segment is expected to account for the largest market share during the forecast period, resulting from high consumer acceptance and nutritional benefits. Crickets are rich in protein, essential amino acids, and micronutrients, making them a preferred choice for human consumption and animal feed. Additionally, cricket farming requires less land and water, aligning with sustainability trends. Innovations in processing methods and product formats, such as powders and snacks, further contribute to market dominance. Growing awareness of their environmental and health advantages continues to propel demand globally.

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

Over the forecast period, the whole insects segment is predicted to witness the highest growth rate, propelled by increased incorporation in ready-to-eat meals, processed foods, and culinary applications. Whole insects offer a more authentic eating experience, appealing to adventurous consumers and gourmet markets. Additionally, advances in packaging, flavoring, and preparation methods reduce barriers to

consumption. Expanding applications in pet food and animal feed also enhance growth potential. Rising interest from sustainability-focused consumers in North America and Europe further accelerates adoption, positioning the whole insects segment as a high-growth area.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share, attributed to traditional acceptance of edible insects as a protein source. Countries such as Thailand, China, and Vietnam have long-standing entomophagy practices, providing a ready consumer base. High population density, growing protein demand, and cost-effective insect farming contribute to market dominance. Additionally, supportive government policies, local entrepreneurship, and increasing product innovations further strengthen market penetration. The Asia Pacific market remains a key revenue contributor, driven by cultural familiarity and sustainable food initiatives.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR associated with rising consumer awareness of alternative proteins and sustainability. Increasing health consciousness, environmental concerns, and interest in novel food products fuel adoption. Startups and established food brands are actively launching cricket-based and whole insect products to meet demand. E-commerce platforms and food-tech innovation hubs also enhance market reach. Growing investments in research, product development, and marketing campaigns targeting adventurous and health-focused consumers are expected to drive significant CAGR in North America.

Key players in the market

Some of the key players in Edible Insect Protein Market include Insect, Aspire Food Group, Entomo Farms, Chapul, Cricket Lab, Jimini's, Entis, Crik Nutrition, Eat Grub, Six Foods, Bitty Foods, C-fu Foods, Insecteo, Kreca and Thailand Unique.

Key Developments:

In August 2025, Aspire Food Group began commercial production at its fully automated cricket protein facility in Ontario, Canada. The plant is one of the largest globally and supports Aspire's expansion into protein bars, pet food, and nutraceuticals across

North America.

In July 2025, Insect announced a strategic partnership with Agronutris to co-develop insect-based feed and food ingredients. The collaboration focuses on scaling mealworm protein production and integrating sustainable farming practices across Europe.

In June 2025, Entomo Farms launched its new organic cricket flour line for use in baking and protein supplements. The product is certified organic and targets health-conscious consumers through online and specialty retail channels in Canada and the U.S.

Insect Types Covered:

Crickets

Mealworms

Grasshoppers

Black Soldier Flies

Locusts

Forms Covered:

Whole Insects

Insect Powder

Insect Protein Bars

Insect-Based Snacks

Packaging Types Covered:

Pouches & Sachets

Cans & Jars

Bars & Snack Packs

Bulk Industrial Packaging

Applications Covered:

Food & Beverages

Nutraceuticals

Animal Feed

Aquaculture Feed

Distribution Channels Covered:

Online Retailers

Supermarkets & Hypermarkets

Specialty Health Stores

Direct-to-Consumer Brands

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 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

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