

United States Aquafeed Market By Ingredient (Soybean, Fish Meal, Corn, Fish Oil, Additives, Others), By Additives (Amino Acids, Vitamins & Minerals, Prebiotics & Probiotics, Enzymes, Antibiotics, Other), By Species (Fish, Crustaceans, Molluscs, Other), By Form (Dry Form, Wet Form, Moist Form), By Lifecycle (Grower feed, Finisher feed, Starter feed, Brooder feed), By Region, Competition, Forecast & Opportunities, 2019-2029F

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Abstracts

United States Aquafeed Market was valued at USD 1.74 Billion in 2023 and is anticipated to reach USD 2.60 Billion in the forecast period with a CAGR of 7.02% through 2029. Aquafeed, also known as aquatic feed, refers to commercially produced food items specifically designed for aquatic animals, such as fish and shrimp. These feeds are scientifically formulated to provide essential nutrients, promoting health, growth, and overall well-being of the aquatic livestock. Aquafeed plays a significant role in aquaculture industry, with its composition varying based on the dietary requirements of different species.

The Aquafeed Market in the United States represents a substantial segment of the country's aquaculture industry. It consists of various companies that manufacture and distribute specialty feeds designed for a range of aquatic species. The industry is driven by the increasing demand for fish and seafood products and the concurrent growth of the aquaculture sector. Factors such as technological advancements in feed manufacturing, rising awareness about the health benefits of seafood, and the drive towards sustainable aquaculture practices contribute to the expansion of the U.S.

Aquafeed Market. The market includes a variety of products, from basic feed pellets to high-performance feeds designed for specific growth stages or species.

Key Market Drivers

Growing Aquaculture Industry & Seafood Consumption

A primary driver of the United States Aquafeed Market is the increasing demand for aquaculture products due to the growth of the aquaculture industry and rising seafood consumption. As wild fish stocks face challenges such as overfishing and environmental concerns, aquaculture has become a crucial source for meeting the global demand for seafood. This growth in the aquaculture sector directly translates into an increased need for aquafeed. Aquafeed serves as a vital component in the aquaculture value chain, supporting the efficient and sustainable production of fish and shrimp to meet the demands of a seafood-hungry market. With the advancement of aquafeed technology, manufacturers are able to develop specialized formulations that cater to the specific nutritional needs of different aquatic species. These formulations are designed to optimize growth, enhance disease resistance, and improve overall health and well-being.

The success of the aquaculture industry is intrinsically linked to geographic factors that facilitate production. Consequently, certain regions of the U.S. are better suited to aquaculture than others. The South dominates the U.S. in aquaculture production, generating nearly USD 850 million in 2021 in annual sales. This success is largely driven by significant freshwater fish production, particularly catfish, in the Mississippi River watershed, as well as saltwater production in the Gulf of Mexico and the Atlantic Ocean. The West contributes USD 475 million annually in aquaculture sales, with Washington and California leading in shellfish production, while also excelling in the saltwater and freshwater production of species such as trout, tilapia, and salmon.

The increasing focus on sustainable aquaculture practices has led to the development of innovative aquafeed solutions that minimize environmental impact. These solutions aim to reduce the reliance on wild fish stocks as feed ingredients and promote the use of alternative protein sources such as plant proteins and insect meal. By diversifying the ingredients used in aquafeed and implementing responsible sourcing practices, the aquaculture industry can contribute to the conservation of marine resources and reduce the ecological footprint of fish and shrimp production. The United States Aquafeed Market is driven by the growing demand for aquaculture products, fueled by the need to meet the global seafood consumption. The role of aquafeed in supporting sustainable

aquaculture practices and optimizing the production of fish and shrimp cannot be underestimated. As the industry continues to evolve, innovation in aquafeed formulations and sourcing practices will play a vital role in ensuring the long-term viability and environmental sustainability of the aquaculture sector.

Growing Technological Advancements in Aquafeed Formulation

Technological advancements in aquafeed formulation are not only a significant driver but also a game-changer in the United States Aquafeed Market. Feed is one of the most significant cost drivers in aquaculture systems. Kemin AquaScience offers solutions designed to optimize nutrient utilization in feed and enhance feed conversion efficiency. Their nutrient absorption enhancers improve digestion and nutrient uptake, helping to reduce feed waste. Kemin has pioneered the use of lysophospholipids, a modified lecithin product, which enhances micelle formation, lipid hydrolysis, and absorption. Additionally, enzymes are employed to boost digestibility, feed efficiency, and overall performance in fish and shrimp. Kemin's enzyme products are available individually or as a combination with lysophospholipids for enhanced effectiveness. The continuous research and development efforts have paved the way for the creation of innovative feed formulations that go above and beyond in optimizing the nutritional requirements of various aquatic species.

These advanced formulations aim to not only enhance feed efficiency and promote growth, but also to elevate the overall health and quality of aquaculture products to unprecedented levels. This driver is closely tied to the industry's unwavering commitment to sustainable aquaculture practices. By placing a strong emphasis on minimizing environmental impact and maximizing the nutritional value in aquafeed, the industry is not only meeting the growing global demand for seafood but also ensuring a brighter and more sustainable future for aquaculture. With the continuous advancements in aquafeed formulation, the United States Aquafeed Market is poised to flourish and revolutionize the way we approach aquaculture.

Increasing Awareness of Sustainable Aquaculture Practices

The rising awareness of environmental sustainability is a crucial driver influencing the United States Aquafeed Market. In response to the growing concerns of consumers and stakeholders in the aquaculture industry, there is a heightened recognition of the vital role that sustainable practices play in ensuring the long-term viability of seafood production. This shift towards sustainable aquaculture involves not only responsible feed sourcing but also a reduced reliance on wild fish stocks for feed ingredients, as

well as the development of innovative and sustainable alternative protein sources. Aquafeed manufacturers are actively responding to this demand by incorporating and implementing sustainable practices into their production processes, while also actively promoting and advocating for eco-friendly feed solutions. By doing so, they are not only meeting the market demand for sustainable products but also contributing to the conservation and preservation of our aquatic ecosystems.

In partnership with leading U.S. RAS (Recirculating Aquaculture System) producers, top aquaculture scientists are conducting research aimed at addressing key barriers to the expansion of the salmon RAS sector. Aquaculture educators have developed STEM curricula and modules focused on RAS at various educational levels, with an emphasis on meeting the industry's urgent need for a skilled workforce. Aquaculture Extension agents collaborate with the industry to raise public awareness about this innovative farming method, engage with local communities, facilitate the efficient transfer of technology from academia to industry, and ensure both fish health and seafood safety. Recent reports indicate that RAS technology could increase domestic Atlantic salmon production from the current 5% to 35% by 2030, attract substantial foreign investment to the U.S., and create hundreds of new jobs in rural and economically disadvantaged areas.

Expansion of Aquaculture Facilities & Production

The expansion of aquaculture facilities and production capacity serves as a key driver for the United States Aquafeed Market. As the aquaculture industry continues to grow at a rapid pace, driven by increasing demand for seafood and sustainable protein sources, there is an ever-growing need for larger quantities of high-quality aquafeed. This demand arises from the establishment of new aquaculture farms and the intensification of existing facilities, which aim to meet the rising consumer demand for fish and seafood.

The expansion of aquaculture operations not only requires a larger supply of feed products but also necessitates the development of nutritionally optimized feeds. Aquafeed manufacturers play a pivotal role in supporting the industry's expansion by providing feeds that meet the specific dietary requirements of various aquatic species. These nutritionally optimized feeds not only promote healthy growth and development of farmed fish but also contribute to the overall sustainability and economic viability of aquaculture. By continuously improving and innovating their feed formulations, aquafeed manufacturers strive to enhance the efficiency and profitability of aquaculture operations. They work closely with aquaculture farmers, researchers, and industry

experts to develop feeds that maximize nutrient utilization, minimize environmental impact, and ensure optimal health and well-being of the farmed fish.

Key Market Challenges

Raw Material Availability and Price Volatility

One of the primary challenges facing the United States Aquafeed Market is the availability and price volatility of raw materials. Aquafeed formulations typically include a mix of protein and lipid sources, many of which come from marine and agricultural commodities. Fluctuations in the availability and prices of ingredients such as fishmeal and fish oil can significantly impact the cost and formulation of aquafeed. Climate-related events, overfishing concerns, and global market dynamics contribute to the unpredictability of raw material prices, posing challenges for aquafeed manufacturers in maintaining stable production costs.

Regulatory Compliance and Quality Assurance

Stringent regulatory requirements governing feed safety and quality pose significant challenges for the United States Aquafeed Market. Compliance with regulations set by agencies such as the Food and Drug Administration (FDA) is not only essential but also a top priority to ensure the safety of aquaculture products for both aquatic animals and consumers. Meeting these regulatory standards involves a multifaceted approach that includes rigorous testing, meticulous documentation, and stringent quality control measures throughout the entire production process. Aquafeed manufacturers in the United States must invest in state-of-the-art facilities and cutting-edge technology to meet these requirements effectively.

The dynamic nature of regulations adds another layer of complexity to the aquafeed industry. As scientific understanding evolves and new research emerges, manufacturers must stay abreast of the latest developments to ensure their products remain safe and compliant. This necessitates continuous improvement in quality assurance practices, including ongoing training for staff, regular audits, and updated protocols to adapt to changing regulatory landscapes. The challenges faced by aquafeed manufacturers in the United States are not to be underestimated. However, with a steadfast commitment to regulatory compliance, investment in advanced technologies, and a proactive approach to quality assurance, these challenges can be overcome. By prioritizing safety and quality, aquafeed manufacturers can not only meet regulatory requirements but also gain a competitive edge in the market, ensuring the delivery of safe and nutritious

feeds for aquatic animals and consumers alike.

Key Market Trends

Expansion of Plant-Based Aquafeed Solutions

The demand for plant-based aquafeed solutions is rapidly increasing in the United States. As aquafeed manufacturers actively seek alternatives to traditional marine-derived ingredients, plant-based proteins sourced from soy, corn, and canola have emerged as popular choices due to their sustainability and availability. Recent advancements in processing techniques have not only enhanced the nutritional profile but also improved the digestibility of these plant-based ingredients, making them viable options for aquafeed formulations.

This growing trend is fueled by a dual focus on environmental sustainability concerns, such as reducing overfishing and protecting marine ecosystems, as well as the necessity to ensure a consistent and affordable supply of high-quality feed ingredients for the thriving aquaculture industry. The U.S. Soybean Export Council (USSEC), which advocates for U.S. soybean producers, commodity shippers, merchandisers, and allied agribusinesses, highlights that soy has increasingly replaced expensive animal proteins in aquafeeds, playing a vital role in the industry's growth over recent decades. Soybean meal is significantly more affordable than most fish and animal meals, which enhances operational efficiency and contributes to the sustainability of aquaculture. As a result, soy has become a leading protein ingredient in aquafeeds globally. By embracing plant-based aquafeed solutions, we can contribute to a more sustainable future for both our planet and the aquaculture sector.

Segmental Insights

Ingredient Insights

Based on the Ingredient, Corn have emerged as the fastest growing segment in United States Aquafeed Market during the forecast period. This is primarily due to its abundant availability, cost-effectiveness, and high caloric content, which make it an attractive choice for feed manufacturers. Corn's adaptability as a versatile ingredient in various aquafeed formulations, such as pellets, flakes, and extruded feeds, further contributes to its dominance in the market. Corn's nutritional profile sets it apart as a preferred option for aquaculture feed production. Its balanced combination of carbohydrates, proteins, and essential nutrients provides optimal nourishment for different aquatic

species, promoting their growth, health, and overall performance. The digestibility of corn also plays a crucial role, ensuring efficient nutrient absorption and minimizing waste production.

Corn's versatility extends beyond its nutritional benefits. Its natural properties allow for easy processing and formulation, enabling feed manufacturers to create customized aquafeed products tailored to specific species' requirements. Whether it's a floating pellet for surface feeders or a sinking flake for bottom-dwelling species, corn can adapt to various feed formats, optimizing the feeding behavior and preferences of aquatic organisms. Corn's dominance in the aquafeed sector is a result of its abundant supply, cost-effectiveness, high caloric content, nutritional benefits, and compatibility with different aquatic species. As the aquaculture industry continues to expand, corn remains a preferred and reliable choice for feed production, contributing to the sustainable growth and development of this crucial sector.

Additives Insights

Based on the Additives, in the United States Aquafeed Market, Amino Acids have emerged as a dominant and vital segment, playing a crucial role in the growth, development, and overall well-being of aquatic species. These essential nutrients constitute a substantial portion of the aquafeed, providing the necessary building blocks for proteins. Proteins, in turn, are fundamental for promoting better metabolic processes and supporting optimal health and productivity of the aquatic organisms. By ensuring a balanced and nutrient-rich diet, aquafeed enriched with Amino Acids helps to meet the specific nutritional requirements of the aquatic species, ultimately contributing to their overall performance and success in aquaculture. The careful inclusion of Amino Acids in aquafeed formulation ensures that the aquatic organisms receive the precise blend of nutrients they need for healthy growth and vitality. This meticulous attention to their nutritional needs not only enhances their physical development but also boosts their immune system, making them more resilient to diseases and environmental stressors.

The utilization of Amino Acids in aquafeed production aligns with sustainable practices in aquaculture. By optimizing the nutritional value and digestibility of the feed, the industry can minimize waste and improve feed conversion ratios, reducing the environmental impact of aquaculture operations. This holistic approach to aquafeed formulation, incorporating Amino Acids as a key component, underscores the commitment of the industry to ensure the long-term sustainability and success of aquaculture in the United States. Amino Acids have revolutionized the aquafeed industry in the United States, offering a powerful tool for enhancing the growth, health,

and productivity of aquatic species. With their ability to support metabolic processes, promote optimal nutrition, and strengthen immune systems, Amino Acids have become an indispensable component of aquafeed formulations. By prioritizing the specific nutritional requirements of aquatic organisms and embracing sustainable practices, the industry can continue to thrive and contribute to the overall success of aquaculture in the United States.

Regional Insights

The Midwest region of the United States is currently dominating the aquafeed market with its strong foothold. This is mainly attributed to its abundant water resources that provide an ideal environment for aquaculture. The region boasts advanced aquaculture facilities equipped with state-of-the-art technology, ensuring efficient and sustainable production of seafood. The high demand for seafood in the Midwest further fuels its position as a leading player in the aquafeed market.

The presence of key market players and their continuous efforts in research and development activities contribute significantly to the region's thriving aquafeed industry. These ongoing initiatives aim to improve feed formulations, enhance nutritional profiles, and explore innovative solutions for sustainable aquaculture practices. As a result, the Midwest region stands out as a frontrunner in the United States aquafeed market, setting the benchmark for quality, innovation, and growth.

Key Market Players

Archer-Daniels-Midland Company

Ridley USA Inc.

Cargill Animal Nutrition (Cargill, Inc.)

Nutreco USA Inc.

Alltech Inc.

Adisseo USA INC.

Novus International Inc.

Skretting USA

Purina Mills, LLC

C.P. Food Products, Inc.

Report Scope:

In this report, the United States Aquafeed Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

United States Aquafeed Market, By Ingredient:

Soybean

Fish Meal

Corn

Fish Oil

Additives

Others

United States Aquafeed Market, By Additives:

Amino Acids

Vitamins & Minerals

Prebiotics & Probiotics

Enzymes

Antibiotics

Others

United States Aquafeed Market, By Species:

Fish

Crustaceans

Molluscs

Others

United States Aquafeed Market, By Form:

Dry Form

Wet Form

Moist Form

United States Aquafeed Market, By Lifecycle:

Grower feed

Finisher feed

Starter feed

Brooder feed

United States Aquafeed Market, By Region:

Northeast Region

Midwest Region

West Region

South Region

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the United States Aquafeed Market.

Available Customizations:

United States Aquafeed Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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