

FOOD EXPORT ASSOCIATION OF THE MIDWEST USA AND FOOD EXPORT USA - NORTHEAST

U.S. Feedlink

A publication highlighting information about the U.S. animal feed and pet food ingredients and additives industries

Feeding the Future: Advancing Pork Nutrition and Global Trade Through Innovation

As the global demand for pork continues to rise, the U.S. pork industry is embracing innovative feed technologies and international trade opportunities to meet this challenge sustainably. The Midwest is perfectly poised to meet these demands thanks to its rich agricultural base, advanced feed manufacturing infrastructure, and deep expertise in swine nutrition.

Advancements in Pork Feed Ingredients

Feed is the highest cost in hog and pig production. It typically constitutes up to 70% of the total cost, according to the USDA and National Pork Board (NPB), making efficiency and sustainability in feed formulation critical. Recent innovations are transforming traditional feeding practices:

ALTERNATIVE PROTEIN SOURCES: Reducing reliance on conventional ingredients, producers are turning to alternative proteins that offer more sustainable and economical solutions for swine diets. Products, such as PurePro[®] Soy Protein Concentrate, produced by **Bunge Creative Solutions Center** based out of Missouri, continue to gain popularity as an alternative protein source.

Other plant-based options, such as oilseed byproducts like those offered by **RVPL Trading**, and legumes are also increasingly popular, while insect meal, microalgae, and fishmeal provide valuable animal-based and aquatic protein sources.

These alternatives deliver high nutritional value with a lower environmental footprint, supporting both production efficiency and sustainability.

ENZYMES AND ADDITIVES: Enzymes and feed additives have become essential tools in modern swine nutrition to enhance production efficiency and animal health.

- Enzymes improve nutrient digestibility by breaking down components like fiber, phytic acid, and proteins that pigs cannot efficiently digest. This increases the availability of energy, amino acids, and minerals, and reports show that it also reduces feed costs and nutrient waste.¹

The US is known for developing innovative feed solutions, such as the applications and formulations of enzymes, like those developed by **Enzyme Development Corp.**

- Additives such as probiotics, amino acids, essential oils, and yeast products further support gut health, bolster immune function, and enhance growth performance.

Dr. Larry Roth, now the VP of Nutrition for **Agrarian Solutions**, has studied and worked in animal nutrition for over 30 years. Based in Indiana, Agrarian Solutions is a world leader in enhancing health, performance, and reproductive efficiency in domestic livestock and poultry. Dr. Roth shares, "Supplementing probiotic bacteria and plant actives to swine diets enhances digestive tract integrity, and research suggests, resolves mycotoxin-related inflammation."

(continued on page 6)



Food
Export
Midwest USA



Food
Export USA
Northeast

featured products



For more information about these or other featured products please email: feedlink@foodexport.org



Agrarian Solutions Nappanee, Indiana

Convert Day One Calf Gel

The CONVERT Calf Program bolsters calf health from birth to better enable calves to reach their genetic potential.

- Improved Health and Survivability for the young calf
- Improved Daily Gain: Supports healthier growth, contributing to better weaning weights and faster time to maturity.
- Contains 5 billion CFU of beneficial bacteria (E. faecium, L. acidophilus and B. longum) and egg-based, pathogen-focused proteins to dominate the digestive microflora, reducing inflammation and enhancing antibody production.
- ROI of 4:1: Reduces treatment costs and enhances productivity, delivering substantial returns for calf producers.



Bunge Creative Solutions Center Chesterfield, Missouri

Bunge's PurePro® Soy Protein Concentrate is a U.S.-based, cost-effective, and sustainable source of nutrition tailor-made for young animals. At 69% minimum protein on a dry basis, they provide all essential amino acids and are highly digestible with low anti-nutritional factors to help support growth and health. It has versatile physical properties to ease mixing and reduce dusting.



Dairy Products Incorporated

Eden Prairie, Minnesota

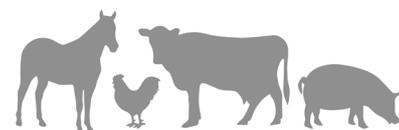
Whey Permeate is manufactured by removal of protein and other solids from whey, resulting in a product with a high concentration of lactose. Whey Permeate may be used as replacement for other milk solids in various feed applications. Whey Permeate can be a good source of lactose and minerals required for the development of nutritional formulations for the feed sector, especially for baby animals.



Nutech Biosciences Inc.

Oneida, New York

Mineralate-Cr is a Chromium Propionate that can safely be used in animal feed as a source of supplemental chromium for all classes of swine, cattle (diary and Beef), poultry and adult horses for feed and manufacturing formulations. The purpose is to improve glucose metabolism and potentially enhancing growth performance and carcass traits.



UNIVERSAL PROBIOTICS



Universal Probiotics

Linwood, Kansas

Our Poultry Symbiotic will establish and additional layer of protection in the microbiome during the early stages of life. As the chicks mature and grow the stable microbiome that has been established will help feed conversion and overall health.

4 of the top 5
swine-producing
states are in the
Midwest

due to the abundance of
corn and soybeans produced
there – the primary feed
sources for pigs.



Iowa is the
#1 pork producing
state
with 5,127 pig farms



5 of the top 5
soybean- and
corn-producing
states are in the
Midwest

supplier directory

For more information about these or other companies please email: feedlink@foodexport.org

Agrarian Solutions

Nappanee, Indiana

agrariansolutions.com

Agrarian Solutions delivers innovative L-Form bacterial technology to protect livestock from mycotoxins, boost immunity, and enhance performance. Our proven microbial solutions ensure healthier animals and greater profitability. With over 20 years of global success, we provide innovative, research-backed products that empower producers to achieve peak efficiency and sustainability.

American Pharmaceutical Innovations Company (AmPharma)

Darien, Illinois

americanpharma.net

AmPharma is a manufacturer and distributor of top-quality veterinary health products. AmPharma is a one-stop solution for all veterinary health products including enzymes, probiotics, toxin binders, anti-stress, growth promoters, acidifiers, vitamin mixes, amino acids, chelated minerals and trace elements, herbal products and feed additives both in powder and, liquid forms, AmPharma Products are focused on enhanced immunity less disease, better feed-utilization, and higher growth rate and production which leads to an outstanding return on investment.

Bunge Creative Solutions Center

Chesterfield, Missouri

<https://www.bungeproducts.com/products?category=technologies-animal-feed-nutrition>

Bunge's PurePro soy protein concentrate is a US-based, cost-effective, and sustainable source of nutrition tailored-made for young animals. At 69% minimum protein on a dry basis, they provide all essential amino acids and are highly digestible with low anti-nutritional factors to help support animal growth and health. It has versatile physical properties to ease mixing and reduce dusting.

CJ Stengel Inc. dba Stengel Oils

Milbank, South Dakota

www.stengeloils.com

Premium flaxseed oil products, sourced in the USA, and carefully produced for optimum health benefits for pets, poultry, and horses. Stengel Oils offers a variety of packaging options for its Flaxseed Oil, from retail bottles for pets, gallons with pumps for horses, 5-gallon cubes, 55-gallon barrows and totes. Omega-3 fatty acids are the hot, new pet food terminology grabbing pet owner's attention today. Sammy's Shiny Coat, manufactured by Stengel Oils, is a dietary supplement containing NO FILLERS or ADDITIVES. It is cold-pressed from flax seed rich in Omega-3s.

Dairy Products Incorporated

Eden Prairie, Minnesota

dairyproductsinc.com

We at Dairy Products Incorporated, take nothing for granted—not our 29-year position as the industry's unrivaled leader and not your desire to get the very best and most for your investment.

From dairy ingredients of the highest quality to innovative specialty services to peace-of-mind risk management programs, DPI keeps you far ahead of the herd.

Enzyme Development Corporation

New York, New York

enzymedevelopment.com

EDC has been providing a wide range of enzymes for the animal feed industries for 70 years. EDC is the only producer of Papain and Ficin in the western hemisphere and offers an OMRI-certified papain for organic Feed.

Iowa

STATE FEATURE

30M

acres operated

86.7K

farms operated in the state

\$16.5B

in agricultural exports – USTR

25M

acres of grains/feed

TOP FEED INGREDIENTS



Corn (Maize)



Soybeans (Soybean Meal)



Hay & Haylage, Alfalfa



Food Export States

Iowa

Sources: USDA, US Trade Representative, Iowa Farm Bureau

Great Lakes Bio Systems, Inc.

Sturtevant Wisconsin

greatlakesbio.com

LAA1000 is a highly-concentrated, highly versatile amino acid formula. It is designed as an additive for feed milling, or for the enrichment of standard aquatic feed. This formula is particularly beneficial for high-density farming and is attractive for its cost-effectiveness.

LAA1000 optimizes digestive capability, and super-charges the efficient uptake of proteins, lipids, phosphorous and carbohydrates from the feed to achieve higher growth rates, and increased ability to fend off disease.

Nutech Biosciences Inc.

Oneida, New York

nutechbiosciences.com

"Better Nutrition through Biotechnology" defines our company. The concept of biotechnology in nutrition is to understand the biology of an animal, the functioning of its biological systems, and the mechanisms of how they function.

RVPL Trading

New Jersey

www.rvpltrading.com

RVPL Trading is a trader of grains, oilseeds, pulses and speciality ingredients for the food & feed markets.

SCD Probiotics

Kansas City, Missouri

<http://www.SCDProbiotics.com>

Elevate your livestock management with SCD BioLivestock. Wielding the power of science in every drop, our liquid probiotic feed and water additive optimizes nutrient absorption, gut balance and immune functions. And the best part is that BioLivestock works for your whole farm. Simple to administer to all your animals as a feed or water additive. This probiotic for chickens ducks, geese and turkey is also a probiotic for large animals like horses, cows, pigs, sheep and goats.

Universal Probiotics

Linwood, Kansas

universalprobiotics.com

Universal Probiotics is the producer and owner of a Direct Feed Microbial Symbiotic feed supplement for companion animals and livestock. The product is a granular animal feed supplement. It is privately controlled and confidential beneficial bacteria culture combined with various nutrients including pre-biotic ingredients which enhances the effectiveness of the supplement.

Vesta Nutra

Indianapolis, Indiana

vestanutra.com

At Vesta® Nutra, we aim to revolutionize supplements with top-tier health and wellness products. We prioritize high-quality, eco-friendly ingredients and encourage innovative formulations. Our research team continually explores new data to create groundbreaking dietary supplements, surpassing expectations and benefiting global health and well-being.

New York

STATE FEATURE

6.5M

acres operated

30.5K

farms operated
in the state

\$2.0B

in agricultural
exports – USTR

5M

acres of
grains/feed

TOP FEED INGREDIENTS



Corn



Hay



Soybeans



Food Export States

Iowa

Source: USDA



How AI is Transforming Swine Feed and Nutrition

Artificial Intelligence (AI) is revolutionizing the swine feed and feed ingredient industry, bringing about significant advancements in efficiency, sustainability, and animal welfare. Here's how AI is making a difference:

Precision Feed Formulation

AI algorithms are now capable of analyzing vast datasets to optimize feed recipes tailored to specific growth stages, health statuses, and environmental conditions. By integrating data on nutrient digestibility and ingredient availability, AI ensures that pigs receive balanced diets, enhancing feed efficiency and reducing waste. For instance, AI can adjust feed formulations based on real-time data, leading to cost savings and improved animal performance.

Real-Time Monitoring and Behavior Analysis

Companies can now leverage AI-powered computer vision to monitor pig behavior continuously. Their systems can detect feeding patterns, health issues, and stress indicators, allowing for timely interventions. This real-time monitoring enhances animal welfare and reduces labor costs associated with manual observations.

Supply Chain Optimization

AI is streamlining the feed ingredient supply chain by predicting feed consumption patterns and automating inventory management. Tools like sensors monitor feed levels with high accuracy, enabling AI systems to schedule deliveries and prevent feed shortages. This automation minimizes human error and ensures consistent feed availability.

Genetic Advancements

In swine genetics, AI is being utilized to analyze complex data sets, aiding in the selection of desirable traits and improving breeding programs. By identifying genetic markers associated with feed efficiency and disease resistance, AI contributes to the development of healthier and more productive herds.

Future Outlook

As AI technology continues to evolve, its integration into the swine feed industry is expected to deepen. From personalized nutrition plans to predictive health monitoring, AI offers tools that can lead to more sustainable and profitable swine production. Embracing these technologies will be crucial for producers aiming to meet the growing global demand for pork while maintaining high animal welfare and environmental stewardship standards.

industry spotlight

Dairy-Derived Ingredients for Animal Nutrition

Dairy Products Inc. (DPI), based in Eden Prairie, Minnesota, has been a trusted source of high-quality dairy-derived ingredients for human and animal nutrition for 30 years. DPI offers food and feed-grade products such as milk powders, whey powders, lactose, and permeates – key ingredients that support healthy growth and performance in livestock. With decades of industry experience, what sets DPI apart is its consistent product quality, outstanding customer service, requirements and documentation compliance, supply reliability, and deep understanding of both the dairy and animal feed sectors. Their knowledgeable team works closely with agricultural professionals to ensure nutritional needs are met efficiently and cost-effectively. Elizabeth Perez, director of international sales shares, “At DPI, we continue delivering ingredients of excellence!” For farmers and ranchers looking to enhance their feed programs with dependable dairy-based ingredients, DPI is a proven partner. Learn more at www.dairyproductsinc.com.



TRADE LEADS HIGHLIGHT

Your Gateway to Global Sales Starts with Trade Leads

Food Export's Trade Leads program is a powerful resource designed to connect international buyers to qualified U.S. suppliers of U.S. food and agricultural products. Through partnerships with the USDA's Foreign Agricultural Service (FAS) and its network of offices around the world, Food Export receives direct inquiries from buyers and distributors.

These real-time leads are carefully vetted and then shared with suppliers who have matching products and capabilities, providing a streamlined way to grow international sales without the heavy legwork of finding suppliers independently.

Trade leads offer international buyers an opportunity to efficiently connect with U.S. suppliers. Whether sourcing bulk ingredients, additives, or specialty products when meeting emerging demand in their local market, Trade Leads make it easier than ever for international buyers to identify reliable suppliers and start meaningful trade relationships with confidence.

Learn more about how to access and take advantage of these valuable Trade Leads at <https://www.foodexport.org/import-from-the-us/>.

Feeding the Future *(continued)*

The strategic use of enzymes and functional additives has been found to lead to better feed conversion ratios, faster growth rates, and improved overall profitability for swine operations.

SUSTAINABLE SOURCING AND PROCESSING:

Sustainable sourcing and processing of swine feed are critical for improving production efficiency and meeting consumer and regulatory demands. Using sustainably grown ingredients helps reduce pork's environmental footprint while maintaining nutrition.²

Precision agriculture and energy-efficient processing improve soil health, conserve resources, and enhance feed digestibility. These strategies also boost feed conversion, support pig health, and improve long-term profitability.³

Additionally, processing innovations like energy-efficient milling, enzymatic treatment, and fermentation enhance the nutritional value of feed ingredients, improving digestibility and animal performance while reducing waste.⁴

LOW-PROTEIN DIETS: Implementing low-protein diets in swine production is an increasingly effective strategy to enhance sustainability, reduce costs, and maintain animal performance.² One study found that supplementing free amino acids in low-protein diets allows for reduced protein ingredient use, lower nitrogen excretion, and potential cost savings without negatively impacting growth performance.⁵

Join Us As We Bring Global Markets and U.S. Producers Together

Serving as a pivotal platform for showcasing

these advancements and fostering global partnerships is the World Pork Expo taking place on June 4–5, 2025, in Des Moines, Iowa. It is the world's largest pork-specific trade show, attracting thousands of producers, suppliers, and industry professionals from around the globe.

In addition to expo favorites such as exhibitors and educational courses, the expo will feature Food Export Midwest's Buyers mission, bridging the gap between global markets and U.S. producers. The Value-Added Feed Ingredients Buyers Mission on June 4, 2025, will connect international buyers seeking high-quality products from around the world with Midwest and Northeast suppliers of feed ingredients and additives. Buyers will have the opportunity to engage directly with suppliers, gain valuable market insights, and leverage Food Export's Midwest and Northeast networks.

Embracing a Sustainable and Global Future

The convergence of innovative feed technologies and proactive trade initiatives positions the U.S. pork industry to meet global demands responsibly. Events like the World Pork Expo 2025 and programs such as **Food Export Midwest's Buyers Mission** play crucial roles in ensuring that U.S. feed ingredients remain competitive and sustainable on the world stage.

1 University of Minnesota Extension

2 National Pork Board

3 Oxford Academic

4 Iowa State University Animal Industry Report

5 National Institutes of Health (NIH)

“For us, the Buyers Mission was very productive because it helped me see the potential for developing new products and business with Midwest and Northeast U.S. suppliers.”

Natalia Rodriguez Arzola, Supply Chain Operations Manager | Indikern-VIDARA



events

- **World Pork Expo 2025 & Buyers Mission**
Des Moines, Iowa | June 4-5, 2025
- **World Dairy Expo & Buyers Mission**
Madison, Wisconsin
Sept. 30 – Oct. 3, 2025
- **Focused Trade Mission to Kenya & South Africa**
Aug. 3 – 8, 2025

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