

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

Mitigating Weather Impacts Utilizing Feed Ingredients

Unpredictable weather patterns have significantly influenced feed usage, production, and crop yields across the U.S. this year. With extreme temperature fluctuations, prolonged droughts, and unexpected rainfall, the agricultural sector has faced numerous challenges in maintaining stable production levels and ensuring consistent feed quality.

Droughts stunt grain growth, reducing yields and making it difficult to meet demands for animal feed. Similarly, excessive rainfall can lead to mudslides and waterlogged fields, causing crop damage and delays in harvesting.

These weather conditions can cause variability in crop growth, directly impacting feed availability and quality. Crops such as corn and soybeans, key components of livestock feed, are regularly adversely affected by such conditions.

Weather-related challenges force farmers to adjust feeding strategies, often resorting to alternative feed ingredients or ration adjustments to compensate for the reduced availability of traditional feed crops. This has created the need for more resilient feed management practices to avoid an increase in the cost of production.

Feed Ingredients as a Solution

Innovative feed ingredients have played a crucial role in mitigating the impact of weather on feed usage. By incorporating alternative feed ingredients into livestock diets, farmers can reduce their dependence on weather-sensitive crops.

Farmers and feed ingredient producers in the Midwest have long worked closely together to find or develop solutions to these challenges. For instance, after integrating by-products rich in nutrients from food processing industries into animal feed, the final product was less susceptible to weather fluctuations, providing a consistent and cost-effective solution for livestock nutrition.

In addition to by-products, the inclusion of synthetic amino acids, vitamins, and minerals in feed formulations helps to optimize the nutritional value of the diet, even when traditional feed crops are in short supply. This approach not only ensures that livestock receive the necessary nutrients but also reduces the overall feed intake, thereby lowering the demand for weather-sensitive crops.

Feed additives such as enzymes and probiotics have proven effective in enhancing feed efficiency and nutrient absorption, further reducing the impact of weather-induced feed variability. These additives help to break down complex feed components, improving digestibility and allowing animals to extract more nutrients from their diet, even when feed quality is compromised due to adverse weather conditions.

With the Midwest's dense concentration of farms and livestock, it's no surprise that the region also excels in the production and availability of feed additives. The region's strong agricultural infrastructure and proximity to raw materials allow feed additive production to thrive, ensuring a steady supply to meet high demand. (continued on back)



featured products



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



Agrarian Solutions

Nappanee, Indiana

DTX Concentrate utilizes unique L-form bacteria to combat mold-related feed issues, improving immune response, feed intake, milk production, and reproductive health.



American Pharmaceutical Innovations Company (AmPharma)

Darien, Illinois

Amphi-ELEC PWR is a water-soluble electrolyte concentrate for poultry, designed to prevent and correct dehydration and acid-base imbalances caused by stress. It combines chelated minerals and amino acids to enhance bioavailability and support immune function. It addresses stress-related conditions like heat, overcrowding, and infections, promoting health and egg production.



Dairy Products Incorporated

Eden Prairie, Minnesota

Why Procream is manufactured from sweet dairy whey using cold microfiltration membrane technology. The product is then gently spray dried into a fine, free-flowing powder. The process results in an undenatured whey protein that is highly soluble over a wide pH range and has a very clean, bland flavor. It provides an excellent nutritive value protein for a variety of applications.



Great Lakes Bio Systems

Sturtevant, Wisconsin

LAA1000 is a liquid amino acid complex designed for the enrichment of aquaculture feed.



ME-PRO
FOR BETTER AQUACULTURE



Houdek Manufacturing

Brookings, South Dakota

Launched in 2024, Protéger is a fermented, plant-based protein ingredient. Protéger is produced utilizing sustainably, and traceably produced plant meals. The result is a 70+% protein that also provides pet diets with isoflavones, prebiotics, postbiotics, and with low allergenicity. Though Protéger is highly digestible in a variety of species, our particular focus is in companion animals; dogs and cats.



Enzyme Development Corporation

New York, New York

Papain is a purified food grade proteolytic enzyme product specially processed from the dried latex of the fruit of Carica papaya. The papaya latex has been processed without the addition of sodium metabisulfite, resulting in a papain with substantially reduced levels of SO₂ and suitable for use in Organic Pet Food and Feed.

BUNGE



Bunge Creative Solutions Center

Chesterfield, Missouri

Bunge soy protein concentrate powders and textures deliver high-quality protein with nine essential amino acids for growth and lower anti-nutritional factors to support easier digestion for poultry, piglets, calves, pet and aqua. The textured options provide excellent craveable "meaty bite" and "chew". They are sustainably made to support your carbon goals.

featured products



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Milk Specialties Global Eden Prairie, Minnesota

With over 30 years of research and proven performance, Energy Booster is the high-quality, made-in-the-USA fat source that you can trust to always provide the best outcomes for your cows, for your bottom line, and for all the people in your organization that count on you to deliver without fail.



Nutech Biosciences Inc. Oneida, New York

Our amino acid chelates are engineered by reacting trace minerals to specific amino acids in a minimum molar ratio of 1:1. This creates a closed ring formation with both ends of the amino acid bound to the trace mineral, resulting in a molecule that is extremely stable and bioavailable.



SCD Probiotics Kansas City, Missouri

SCD BioLivestock is a patented combination of live, multi-strain, beneficial probiotics plus their bio-fermented post-biotics that equip your animals with the best internal system to optimize their food's nutritional content and defend against stress and disease. OMRI-listed for use in organic production, SCD BioLivestock is a super concentrate that can be added to feed or water.



Universal Probiotics Linwood, Kansas

Universal Probiotics all-natural Canine Supplement is specifically formulated to benefit both well animal health and vitality. Over time the as the microbiome improves the canine will see improved health conditions with less allergies, digestive problems, and skin irritations.



Vesta Nutra Indianapolis, Indiana

Although Beta Glucan 1, 3 D can be derived from various sources, its effectiveness in enhancing animal health is significantly higher due to its specific 1,3 glycosidic link backbone. This structure makes Beta Glucan 1,3 D more potent compared to the less effective 1,6 Beta D Glucan found in other animal supplements. To maximize health benefits for animals, Vesta Ingredients provides high-quality animal supplements through advanced manufacturing techniques that ensures unmatched purity and quality.



Midwest Powerhouse: Fueling the Nation's Feed Supply

The Midwest is a prime region for feed ingredients and additives due to its rich agricultural resources and ideal growing conditions. It produces a significant portion of the nation's corn and soybeans, key components in animal feed.

The region's fertile soil, abundant water supply, and favorable climate create optimal conditions for growing high-quality crops. Additionally, the Midwest has a strong infrastructure for processing and distributing feed additives, making it a hub for innovation and efficiency in the feed industry. This combination of abundant resources and advanced processing capabilities ensures a consistent and reliable supply of feed ingredients, supporting the livestock industry nationwide.

supplier directory

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

Agrarian Solutions

Nappanee, Indiana
agrariansolutions.com

Global leader in beneficial cell-wall deficient (L-Form) bacteria-based technologies that enhance health, performance, and reproductive efficiency of livestock and poultry. Our proprietary, research supported, L-form bacteria products fortify animals' defense mechanisms against environmental challenges such as mycotoxins and ensure peak health and performance.

American Pharmaceutical Innovations Company

Downers Grove, Illinois
americanpharma.net

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
bunge.com

Bunge's PurePro conventional textured soy protein concentrates and soy protein concentrates are a cost-effective and high-quality source of nutrition for piglets, calves, and fish and pets. At 69% minimum protein on a dry basis, they provide all nine essential amino acids and are highly digestible. Additionally, PurePro soy protein concentrates are low in anti-nutritional factors such as oligosaccharides, trypsin inhibitors, and antigens to help support get health and immunity.

Dairy Products Inc.

Eden Prairie, Minnesota
dairyproductsinc.com

We 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. At DPI, it's our job to diminish the risk, lessen the stress and maximize your profits. Our Risk Management and Specialty Programs offer our partners the opportunity to forecast and flourish, while sleeping a bit sounder. The dairy ingredients we offer are fresh, functional, and naturally healthy for human consumption, all made in the U.S. Featured items: Whey Powders.

Enzyme Development Corp.

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.

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 supercharges the efficient uptake of proteins, lipids, phosphorous and carbohydrates from the feed to achieve higher growth rates, and increased ability to fend off disease.

Ohio

STATE FEATURE

9.5M+

crop acres harvested

~75,000

farms in Ohio

51%

of soybeans grown in OH are exported

TOP FEED INGREDIENTS



Soybeans



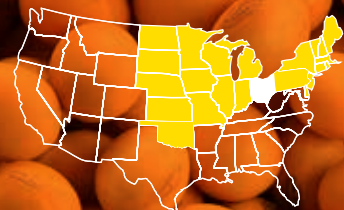
Corn



Hay & Haylage



Wheat



Food Export States

Ohio

Sources: USDA, Ohio Secy. of State, Grow Next Gen

Houdek Manufacturing

Volga, South Dakota
houdeknature.com

Meeting the world's needs for sustainable, traceable, high performance protein is in our nature! We're Houdek – leading the world in leveraging the power of fermentation to produce extraordinary plant-based proteins for use in aqua and animal feeds (especially pets!). Our signature products are ME-PRO® for shrimp and fish feeds and Protéger, for pet diets.

Milk Specialties Global

Eden Prairie, Minnesota
milkspecialties.com

MSG is also a leading manufacturer of animal feed products. The company has been manufacturing finished milk replacer products and milk replacer ingredients for nearly 80 years. In addition, Energy Booster® rumen bypass fats supplements and RPMet™ amino acid supplements are category leading products for high performing dairy cows.

Nutech Biosciences Inc.

Oneida, New York
nutechbiosciences.com

Nutech Biosciences Inc is a science-based company leading the industry in providing innovative solutions for the Animal Nutrition industry. We believe in keeping your animals productive, healthy and our customers profitable, so our team is dedicated in achieving these everyday solutions for a better future.

SCD Probiotics

Kansas City, MO
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 Probiotic products include a unique and proprietary blend of Probiotic Bacteria, yeasts and molds combined with Prebiotics. This encourages and creates a more favorable microbiome in the digestive system of the animal ingesting it.

Vesta Nutra

Indianapolis, Indiana
vestanutra.com

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.

Indiana

STATE FEATURE

14.6M

acres in farmland

\$35.1B

ag's contribution to
Indiana's economy

\$7.4B

in ag exports

TOP FEED INGREDIENTS



Soybeans



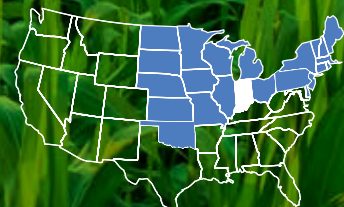
Corn



Hay & Haylage



Wheat



■ Food Export States
■ Indiana

Source: USDA, IN State Dept. of Ag

Mitigating Weather Impacts Utilizing Feed Ingredients *(continued from cover)*

Weather-Resilient Crops and Feed Production

Another strategy used to mitigate weather impact in the Midwest involves the development and use of weather-resilient crops. Through research, selective breeding, and biotechnology at Midwest laboratories, researchers have developed more tolerant crop varieties. These resilient crops are more stable and reliable in the face of drought, heat, and flooding, reducing the risks associated with weather variability.

Furthermore, adopting advanced farming practices, such as precision agriculture, helps optimize crop production under challenging weather conditions. Using data-driven technologies, many Midwest farmers make informed decisions on irrigation, fertilization,

and crop management, minimizing the adverse effects of unpredictable weather on feed crops.

The impact of weather on feed usage, production, and crops in the US this year has been profound, challenging the agricultural sector to adapt and innovate. The robust infrastructure within the Midwest has been key in making them readily available.

By leveraging regional strengths, the Midwest continues to play a vital role in supporting the nation's feed industry, ensuring that production and distribution remain resilient. These strategies not only ensure the sustainability of livestock operations but also contribute to a more resilient and adaptable agricultural industry.

“Participating in the IPPE Buyer’s Mission was an indescribable opportunity. For us, it was a great learning experience, exchange of experiences, and way to make new contacts. We’re already reaping the benefits.”

Sergio Fermino, Junior Director | Polinutri Alimentos SA, Brazil

Food Export offers several programs designed to help buyers reach the right suppliers and succeed in importing from the U.S. Learn more at <https://www.foodexport.org/import-from-the-us/>.

FEED SHOW PLUS! leverages industry relationships and local market expertise to connect you with reputable and reliable Midwest USA suppliers.

BUYERS MISSIONS bring together qualified suppliers with international buyers interested in U.S. products for one-on-one meetings.

FOCUSED TRADE MISSIONS

organize events where buyers/importers meet with U.S. suppliers during prearranged meetings in your country.

TRADE LEADS are vital to growing your business. Our network of In-Market Representatives (IMRs) and the USDA Foreign Agricultural Service (FAS) offices work with qualified buyers year-round and send leads to Food Export so we can help identify U.S. suppliers for you.

Contact feedlink@foodexport.org for more information.

- Value-Added Feed Ingredients Buyers Mission at World Dairy Expo
Madison, Wisconsin | Sep./Oct. 2025
- Feed Show PLUS! at VIV Asia
Bangkok, Thailand | March 2025
- Feed Show PLUS! at ILDEX
Ho Chi Minh City, Vietnam | Sept. 2025

events

2024

- Value-Added Feed Ingredients Buyers Mission at World Dairy Expo
Madison, Wisconsin | October 2024

2025

- Value-Added Feed Ingredients Buyers Mission at IPPE
Atlanta, Georgia | January 2025
- Value-Added Feed Ingredients Buyers Mission at World Pork Expo
Des Moines, Iowa | June 2025

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