

Dakota Gold Provides Swine Feeding Value

The unprecedented growth in U.S. ethanol production due to its cost-effective octane and oxygen properties has resulted in a correspondingly phenomenal increase in the volume of dried distiller's grain with solubles (DDGS) now available to the feeding industry.

Dakota Gold brand Distiller's Grain is proving not only its feasibility for the swine industry but also its profitability as an economic feedstuff in swine rations.

Dakota Gold brand products are produced exclusively using Broin Companies processing technology. Recent and new advancements of corn milling technology and product quality control in our plants, makes the quality of Dakota Gold significantly better than DDGS produced in older, more traditional facilities.

Besides improved conditioning and dehydration methods, today's best fermentation technologies can more fully reduce starches during processing, resulting in higher levels of protein, energy, and other nutrients.

With ethanol production expanding at record pace, opportunities for new feeding uses of DDGS are being pursued. This has caught the attention of the swine industry, as cost-conscious integrators look for a competitively priced, quality ingredient in ration formulations.

Supply source makes a difference

Despite new generation processing innovations used by the general industry, particle size, color and nutrient concentrations still vary from one independent ethanol plant to the next. These variations cause large differences in gain, feed intake, and feed efficiencies. However, Dakota Gold™ Dried Distiller's Grains removes that variability.

The second largest ethanol producer in the industry, the Broin Companies market more than 600 million gallons of ethanol annually. Their integrated research, development, and implementation of patented technologies optimize processing through an umbrella of 14 operating ethanol plants, with 5 more facilities currently under construction or development.

Stringent checkpoints are enforced all the way through production before product can be marketed as Dakota Gold. The internal QA/QC program (quality assurance/quality control) provides more end-user support data than any feedstuff commodity or generic DDGS in the industry. This ensures that every batch of Dakota Gold meets the criteria for consistently high levels of digestible amino acids, metabolized energy, available phosphorus, and other nutrients.

Dakota Gold is merchandised through Dakota Gold Marketing, established in 1995 as the marketing arm for the branded DDGS produced by the Broin Companies partner plants. Dakota Gold Marketing, located in Sioux Falls, S.D., is linked via real-time computer networking to each plant, and provides a seamless ordering process for swine feed customers.

Color makes a difference

DDGS has not been widely used in the swine industry in the past because of the Maillard, or browning reaction. Brown or discolored DDGS has undergone non-enzymatic browning, which reduces lysine digestibility, the first limiting amino acid for swine in grain-based diets.

The color of Dakota Gold is the visual cue for product that has *not* undergone the Maillard reaction. Additionally, lysine concentration is higher in Dakota Gold. As a result, color is a good predictor of higher amino acid levels and digestibility in Dakota Gold for swine. Since swine diets are formulated on a digestible lysine basis, the unique nutrient profile indicated by gold color provides greater feed value.

Extensive nutrient profiles available

Previously published ingredient tables used by nutritionists generally list “old” values for DDGS based on product from “old-technology” ethanol sources. Data with more accurate values for product from “new-technology” ethanol plants is desperately needed by the swine industry. Further, extensive testing for more accurate amino acid values has been extremely limited throughout the co-product industry due to the tremendous cost.

Dakota Gold Marketing has set itself apart by compiling an extensive database of means for Dakota Gold nutrients. They are easily accessible to nutritionists—enabling them to more precisely formulate rations with Dakota Gold. Through the compilation of over 300 representative samples, the Dakota Gold Marketing nutrient database accurately provides:

- Proximate analysis (CP, CF, EE, Ash)
- Weende fiber analysis (ADF, NDF)
- Macro and Micro minerals
- Energy values
- Amino acid values

See sidebar for discussion on selected nutrients. A complete listing is available at www.dakotagoldmarketing.com/nutrition or by calling toll-free at 888-327-8799.

Research provides answers for the industry

The Dakota Gold Research Association (DGRA) was established in 2002 to promote the use of Dakota Gold products by supporting independent and University research trials.

DGRA is addressing issues specific to swine producers by strategic support of research including amino acid digestibility, energy availability, phosphorus metabolism, and recommended feeding levels for optimum performance in sows and grow-finish pigs.

“We proceed by finding out from swine producers what issues and concerns there are about distiller’s grain,” explains DGRA Executive Director Dr. Matt Gibson. “Then we implement trials that will answer industry questions using non-biased, independent researchers. The results aren’t what we say it is; the results are what objective, scientific data proves it is.”

Research results are available at www.dakotagoldmarketing.com/research or by calling Dakota Gold Marketing at 888-327-8799. The conclusion of research now completed proves that the nutritive value of Dakota Gold is higher than commodity DDGS and has a sharply higher economic value for pork producers.

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