



Distillers Grains: Production, Properties, and Utilization

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In recent years, there has been a dramatic increase in grain-based fuel ethanol production in North America and around the world. Whether such production will result in a net energy gain or whether this is sustainable in the long term is under debate, but undoubtedly millions of tons of non-fermented residues are now produced annually for global trade in the form of distillers dried grains with solubles (DDGS). Consequently, in a short period of time a tremendous amount of research has been conducted to determine the suitability of ethanol coproducts for various end uses.

Distillers Grains: Production, Properties and Utilization is the first book of its kind to provide in-depth, and up-to-date coverage of

- Historical and current status of the fuel ethanol industry in the U.S.
Processing methods, scientific principles, and innovations for making fuel ethanol using grains as feedstock
- Physical and chemical properties of DDGS, assay methodologies for compositional analyses, and mycotoxin occurrence in DDGS
- Changes during processing (from grains to DDGS) and analysis of factors causing variations in compositional, nutritional, and physical values
- Various traditional, new, and emerging uses for DDGS (including feed for cattle, swine, poultry, fish, and other animals, feedstocks for cellulosic ethanol, biodiesel, and other bioenergy production, and substrates for food and industrial uses)

Appealing to all who have an interest in fuel ethanol production, distillers grains, and their uses, this comprehensive reference sharpens the readers' understanding of distillers grains and will promote better utilization of ethanol coproducts. Animal and food scientists, feed and food technologists, ethanol plant managers and technicians, nutritionists, academic and governmental professionals, and college students will find the book most useful.

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