

The Advantages of Using Corn Distillers Dried Grains with Solubles in Poultry Diets

- **An Economical Addition to Poultry Diets:**

Corn Distillers Dried Grains with Solubles (CDDGS) contributes energy, protein, amino acids and phosphorus to poultry diets. When the product is priced between \$75-110 per ton, least cost formulation will allow up to 20% CDDGS depending on cost of other ingredients – corn, soybean meal, fat, L-lysine HCl and dicalcium phosphorus.

- **High Quality Product is Available:**

As a source of energy:

When formulating poultry diets containing CDDGS, use a value of 1250 kcal/lb. for metabolizable energy (ME). Values of 1300 kcal/lb. have been used in feeding trials with turkeys without effect on feed conversion and values of 1350 kcal/lb. in chicken layer and broiler studies.

As a source of protein:

Recent research results have shown that the nutrient levels and digestibility of CDDGS is much improved over past nutrient listings. Digestible lysine content can be as high as 83% as compared to NRC (Nutrient Recommendations for Poultry, 1994) value of 65%.

As a source of phosphorus:

CDDGS are quite high in phosphorus (.65-.78%) and research indicates that the phosphorus is at least 50% bioavailable.

- **Maximum Dietary Inclusion Levels:**

Broilers	10%
Turkeys (grow/finish)	10%
Chicken Layers	15%

Higher levels may be added but will require more careful adjustments of amino acid and energy levels.

- **Keys to CDDGS Use in Poultry Diets:**

Obtain complete, current nutrient profile from the source of the CDDGS. Individual plants are producing a relatively consistent product, however, there are some differences in nutrient levels.

Formulate diets on a digestible amino acid basis especially for lysine, methionine, cystine and threonine.

Formulate diets by setting minimums for tryptophan and arginine due to the potentially limiting nature of these amino acids in CDDGS protein.

Use a higher ME value for CDDGS than the 1130 kcal/lb. recommended by NRC (1994). As most high quality CDDGS has a fat content which exceeds 10% ME value should be at least in the range of 1200-1250 kcal/lb.

Contact:

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