

**CHATHAM PLANT**

**Corn Distillers' Dried Grains with Solubles**

**DESCRIPTION:**

Corn Distillers' Dried Grains consist of the portion of corn or grain mixture in which corn predominates, the yeast that remains after yeast fermentation and the ethyl alcohol distillation of the mash. The product is moderately coarse, friable and golden to brownish in colour. Fermentation of the starch, which is 2/3 of the weight of cereal grains, results in a 3 fold concentration of non starches such as proteins, fats, minerals, vitamins and growth factors and add other nutrients to the fermented corn residue.

**TYPICAL RESULTS:** (Dry matter basis)

Dry Matter, %	89.9
Crude Protein, %	31.7
Crude Protein, % (as is)	28.6
Acid Detergent Insoluble Crude Protein, %	5.9
Neutral Detergent Insoluble Crude Protein, %	10.4
Soluble Crude Protein, %	19.7
Crude Fibre, %	7.4
Crude Fibre, % (as is)	6.7
Acid Detergent Fibre, %	17.2
Neutral Detergent Fibre, %	32.8
Lignin, %	4.6
Fat, %	14.4
Fat, % (as fed)	13
Non Fibre Carbohydrates, %	26.2
Total Digestive Nutrients, %	87
Net Energy for Lactation, M cal/lb	0.99
M cal/kg	2.2
Net Energy for Gain, M cal/lb	0.73
M cal/kg	1.6
Net Energy for Maintenance, M cal/lb	1.05
M cal/kg	2.3

Calcium, %	0.03
Phosphorous, %	0.8
Magnesium, %	0.31
Potassium, %	0.94
Sodium, %	0.07
Sulphur, %	0.79
Iron, ppm	71
Zinc, ppm	62
Copper, ppm	3
Manganese, ppm	13
Starch, %	3.9
Simple Sugars, %, Ethanol Soluble Carbohydrates	6.1
Ash, %	5.2
Lysine, %	1.2
Available Lysine, %	1.1
<b>Particle Size, %</b>	
> 2.00 mm	12
1.40 mm	19
1.00 mm	22
850 µm	11
500 µm	22
425 µm	7
250 µm	6
< 250 µm	1

**FEEDING SUGGESTIONS:**

Corn Distillers' Dried Grains with Solubles (Maximum levels)  
(Corn Distillers' Dried Grains are a good source of energy, protein, and many other essential nutrients and fermentation factors)

>dairy: 20 %	>beef: 40 %	>sheep: 20 %
>poultry:	>swine:	
>broilers: 10 %	>nursery pigs (>15 pounds); 25 %	
>layers: 15 %	>grower – finisher: 20 %	
>turkeys: 10 %	>gestation sows: 40 %	
>starter chicks: 5 %	>lactation sows: 20%	

**REFERENCES:**

Distillers' Grains Technology Council ([www.distillersgrains.org](http://www.distillersgrains.org))  
National Corn Growers' Association ([www.ncga.com](http://www.ncga.com))

FM7.5.5 –103 Rev 1  
July 1, 2008