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COOPERATIVE EXTENSION
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Bucky Badger

Account: 555901
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PROUDLY USING
NIRSC EQUATIONS

Results also available on-line at http://uwlab.soils.wisc.edu/reports
lab number: 54322 access code: i8ku

UW Grain Evaluation

***Report Number:** 54322 **Lab Number:** 54322 **Sample Description:** dry corn*
***Material:** Shelled or Ear Corn (dry)*

Item	*Abbreviation*	*Unit*	*Result*	*Method*[1]
Dry Matter	**DM**	**% as fed**	**88.28**	**WC**
Moisture		**% as fed**	**11.72**	**C**
Protein Fractions				
Crude Protein	**CP**	**% DM**	**8.73**	**WC**
Prolamin Protein		**% DM**	**4.48**	**WC**
Prolamin Protein		**% of starch**	**6.77**	**C**
Fiber Fractions				
Neutral Detergent Fiber	**aNDF**	**% DM**	**11.75**	**WC**
Starch				
Starch		**% DM**	**66.19**	**WC**
Mean Particle Size*	**MPS**	**microns**	**1,000**	**WC**
Processing Classification			**Fine Grind**	**C**
Relative Grain Quality	**RGQ**		**146**	**C**
Carbohydrates and Fats				
Non Fiber Carbohydrate	**NFC**	**% DM**	**74.02**	**C**
Non Starch NFC, Sugars + VFAs		**% DM**	**7.83**	**C**
Fat		**% DM**	**4.20**	**T**
Energy Calculations: 2001 NRC				
Total Digestible Nutrients, 1X	**TDN**	**% DM**	**87.58**	**C**
Net Energy, Lactation, 3X	**NeI**	**Mcals/lb**	**0.88**	**C**
Net Energy, Maintenance	**NEm**	**Mcals/lb**	**0.95**	**C**
Net Energy, Gain	**NEg**	**Mcals/lb**	**0.64**	**C**
Metabolizable Energy, 3X	**ME**	**Mcals/lb**	**1.38**	**C**

Macro Minerals				Micro Minerals				
Phosphorus	**P**	**% DM**	**NR**	**Iron**	**Fe**		**ppm**	**NR**
Calcium	**Ca**	**% DM**	**NR**	**Manganese**	**Mn**		**ppm**	**NR**
Potassium	**K**	**% DM**	**NR**	**Zinc**	**Zn**		**ppm**	**NR**
Magnesium	**Mg**	**% DM**	**NR**	**Copper**	**Cu**		**ppm**	**NR**
Sodium	**Na**	**% DM**	**NR**					
Chloride	**Cl**	**% DM**	**NR**	**Ash**		**2.00**	**% DM**	**T**
Sulfur	**S**	**% DM**	**NR**					

[1] **WC = wet chemistry**
NIR = near infrared spectroscopy
NR = not requested
NA = not available
C = calculated
T = tabular value

*** Whole corns are assumed to be ground to a mean particle size of 1000 microns.**

Methods used for these analyses can be found at http://uwlab.soils.wisc.edu/procedures.htm

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