



CUMBERLAND VALLEY ANALYTICAL SERVICES

Laboratory services for agriculture ... from the field to the feed bunk.

Farm: HUBKA FARMS LTD.
Desc: 17A578 RYE GRASS STRAW
Submitter: HUBKA, CALE
Account: HUBKA FARMS LTD

Copies to: WHITTLE, CHRIS

Lab ID: 22998 049
Sampled: 10/20/2017
Arrived: 10/23/2017
Completed: 10/25/2017
Reported: 10/25/2017

17A578 RYE GRASS STRAW

SAMPLE INFORMATION

Lab ID: 22998 049 Version: 1.0
Crop Year: 2017 Series:
Feed Type: RYE FORAGE Cutting#: 1
Package: NIR Wet Minerals

NIR ANALYSIS RESULTS

Moisture 10.3
Dry Matter 89.7

PROTEINS

	% SP	% CP	% DM
Crude Protein			10.2
Adjusted Protein		99.8	10.1
Soluble Protein		49.7	5.1
Ammonia (CPE)			
ADF Protein (ADICP)		10.2	1.04
NDF Protein (NDICP)		17.2	1.75
NDR Protein (NDRCP)			
Rumen Degr. Protein		74.9	7.6
Rumen Deg. CP (Strep.G)			

FIBER

	% NDF	% DM
ADF	64.2	39.8
aNDF		61.9
aNDFom		61.0
NDR (NDF w/o sulfite)		
peNDF		
Crude Fiber		
Lignin	9.25	5.73
NDF Digestibility (12 hr)		
NDF Digestibility (24 hr)		
NDF Digestibility (30 hr)		
NDF Digestibility (48 hr)		
NDF Digestibility (120 hr)		
NDF Digestibility (240 hr)		
uNDF (30 hr)		
uNDF (120 hr)		
uNDF (240 hr)		

CARBOHYDRATES

	% Starch	% NFC	% DM
Ethanol Soluble CHO (Sugar)		39.8	8.3
Water Soluble CHO (Sugar)			
Starch		11.1	2.3
Soluble Fiber			
Starch Dig. (7 hr, 4 mm)			
Fatty Acids, Total			
Fatty Acids (%Fat)			
Crude Fat			1.90

MINERALS

Ash (%DM)	6.88
Calcium (%DM)	0.45
Phosphorus (%DM)	0.13
Magnesium (%DM)	0.25
Potassium (%DM)	2.06
Sulfur (%DM)	0.21
Sodium (%DM)	0.07
Chloride (%DM)	
Iron (PPM)	83
Manganese (PPM)	78
Zinc (PPM)	13
Copper (PPM)	6
Nitrate Ion (%DM)	
Selenium (PPM)	
Molybdenum (PPM)	

ENERGY & INDEX CALCULATIONS

pH	
TDN (%DM)	58.0
Net Energy Lactation (Mcal/lb)	0.58
Net Energy Maintenance (Mcal/lb)	0.55
Net Energy Gain (Mcal/lb)	0.29
NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4)	
NDF Dig. Rate (Kd, %HR, uNDF)	
Starch Dig. Rate (Kd, %HR, Mertens)	
Relative Feed Value (RFV)	87
Relative Feed Quality (RFQ)	
Milk per Ton (lbs/ton)	
Dig. Organic Matter Index (lbs/ton)	
Non Fiber Carbohydrates (%DM)	20.9
Non Structural Carbohydrates (%DM)	10.6
DCAD (meq/100gdm)	
CNCPS / CPM Lignin Factor	
Summative Index % (Mass Balance)	
Additional sample information, source and lab pictures	



Values in bold were analyzed by wet chemistry methods.

Definitions and explanation of report terms



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