



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm: HUBKA FARMS LTD
Desc: 18A470 GREENFEED
Submitter: HUBKA, CALE
Account: HUBKA FARMS LTD

Copies to: WHITTLE, CHRIS

Lab ID: 25395 032
Sampled: 12/03/2018
Arrived: 12/06/2018
Completed: 12/10/2018
Reported: 12/10/2018

18A470 GREENFEED

SAMPLE INFORMATION

Lab ID: 25395 032 Version: 1.0
Crop Year: 2018 Series:
Feed Type: OAT FORAGE Cutting#:
Package: NIR Wet Minerals

NIR ANALYSIS RESULTS

Moisture 23.3
Dry Matter 76.7

PROTEINS

| | % SP | % CP | % DM |
|-------------------------|------|------|------|
| Crude Protein | | | 15.2 |
| Adjusted Protein | | | |
| Soluble Protein | | 41.0 | 6.3 |
| Ammonia (CPE) | 9.1 | 3.7 | 0.57 |
| ADF Protein (ADICP) | | 5.9 | 0.90 |
| NDF Protein (NDICP) | | 19.5 | 2.97 |
| NDR Protein (NDRCP) | | | |
| Rumen Degr. Protein | | 70.5 | 10.7 |
| Rumen Deg. CP (Strep.G) | | | |

FIBER

| | % NDFom | NDFom %DM | % NDF | % DM |
|----------------------------|---------|-----------|-------|------|
| ADF | | | 60.2 | 26.9 |
| aNDF | | 43.8 | | 44.7 |
| NDR (NDF w/o sulfite) | | | | |
| peNDF | | | | |
| Crude Fiber | | | | |
| Lignin | | | 4.99 | 2.23 |
| NDF Digestibility (12 hr) | | | | |
| NDF Digestibility (24 hr) | | | | |
| NDF Digestibility (30 hr) | 71.4 | 31.3 | 69.9 | 31.3 |
| NDF Digestibility (48 hr) | | | | |
| NDF Digestibility (120 hr) | 79.7 | 34.9 | 78.0 | 34.9 |
| NDF Digestibility (240 hr) | 83.8 | 36.7 | 82.1 | 36.7 |
| uNDF (30 hr) | 28.6 | 12.5 | 30.1 | 13.4 |
| uNDF (120 hr) | 20.3 | 8.9 | 22.0 | 9.8 |
| uNDF (240 hr) | 16.2 | 7.1 | 17.9 | 8.0 |

CARBOHYDRATES

| | % Starch | % NFC | % DM |
|-----------------------------|----------|-------|------|
| Silage Acids | | | |
| Ethanol Soluble CHO (Sugar) | | 54.7 | 15.9 |
| Water Soluble CHO (Sugar) | | | 17.0 |
| Starch | | 5.7 | 1.7 |
| Soluble Fiber | | | |
| Starch Dig. (7 hr, 4 mm) | | | |
| Fatty Acids, Total | | | 1.30 |
| Fatty Acids (%Fat) | | | 52.8 |
| Crude Fat | | | 2.46 |

MINERALS

| | |
|-------------------------|-------------|
| Ash (%DM) | 11.5 |
| Calcium (%DM) | 0.46 |
| Phosphorus (%DM) | 0.40 |
| Magnesium (%DM) | 0.25 |
| Potassium (%DM) | 3.74 |
| Sulfur (%DM) | |
| Sodium (%DM) | 0.54 |
| Chloride (%DM) | |
| Iron (PPM) | 208 |
| Manganese (PPM) | 88 |
| Zinc (PPM) | 28 |
| Copper (PPM) | 6 |
| Nitrate Ion (%DM) | |
| Selenium (PPM) | |
| Molybdenum (PPM) | |

QUALITATIVE

| | |
|--------------------------------|---------------------------------|
| Total VFA (%DM) | |
| Lactic Acid (%DM) | |
| Lactic as % of Total VFA | |
| Acetic Acid (%DM) | |
| Butyric Acid (%DM) | |
| 1, 2 Propanediol (%DM) | |
| Soil Contamination Probability | Probable low to none |
| Nitrate Probability | Probable moderate nitrate level |
| NIR Statistical Confidence | Excellent prediction potential |

ENERGY & INDEX CALCULATIONS

| | |
|--|-------|
| pH | |
| TDN (%DM) | 65.5 |
| Net Energy Lactation (Mcal/lb) | 0.67 |
| Net Energy Maintenance (Mcal/lb) | 0.66 |
| Net Energy Gain (Mcal/lb) | 0.39 |
| NDF Dig. Rate (Kd, %HR, Van Amburgh, Lignin*2.4) | 4.77 |
| NDF Dig. Rate (Kd, %HR, uNDF) | 5.3 |
| Starch Dig. Rate (Kd, %HR, Mertens) | |
| Relative Feed Value (RFV) | 141 |
| Relative Forage Quality (RFQ) | 196 |
| Milk per Ton (lbs/ton) | 3220 |
| Dig. Organic Matter Index (lbs/ton) | 1151 |
| Non Fiber Carbohydrates (%DM) | 29.00 |
| Non Structural Carbohydrates (%DM) | 17.6 |
| DCAD (meq/100gdm) | |
| CNCPS / CPM Lignin Factor | 3.3 |
| 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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