



CUMBERLAND VALLEY ANALYTICAL SERVICES

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

Farm:
Desc:
Sub:
Account: L

Copies to:

Lab ID: **18822 021**
Sampled: **09/07/2015**
Arrived: **09/14/2015**
Completed: **09/15/2015**
Reported: **09/15/2015**

2015 RYE SILAGE

SAMPLE INFORMATION

Lab ID: 18822 021 Version: 1.0
Crop Year: 2015 Series:
Feed Type: RYE FORAGE Cutting#: 1
Package: BASIC NIR

NIR ANALYSIS RESULTS

Moisture 63.2
Dry Matter 36.8

PROTEINS

| | % SP | % CP | % DM |
|-------------------------|------|------|------|
| Crude Protein | | | 9.5 |
| Adjusted Protein | | 99.0 | 9.4 |
| Soluble Protein | | 65.6 | 6.2 |
| Ammonia | 13.8 | 9.0 | 0.86 |
| ADF Protein (ADICP) | | 11.0 | 1.05 |
| NDF Protein (NDICP) | | 11.6 | 1.10 |
| NDR Protein (NDRCP) | | | |
| Rumen Degr. Protein | | 82.8 | 7.9 |
| Rumen Deg. CP (Strep.G) | | | |

FIBER

| | % NDF | % DM |
|----------------------------|-------|------|
| ADF | 62.8 | 31.0 |
| aNDF | | 49.3 |
| aNDFom | | 48.5 |
| NDR (NDF w/o sulfite) | | |
| peNDF | | |
| Crude Fiber | | |
| Lignin | 10.9 | 5.38 |
| 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 |
|-----------------------------|----------|-------|------|
| Silage Acids | | | |
| Ethanol Soluble CHO (Sugar) | | 7.0 | 2.4 |
| Water Soluble CHO (Sugar) | | | |
| Starch | | 36.9 | 12.9 |
| Soluble Fiber | | | |
| Starch Dig. (7 hr, 4 mm) | | | |
| Fatty Acids, Total | | | |
| Fatty Acids (%Fat) | | | 60.6 |
| Crude Fat | | | 2.31 |

MINERALS

| | |
|-------------------|------|
| Ash (%DM) | 5.08 |
| Calcium (%DM) | 0.25 |
| Phosphorus (%DM) | 0.29 |
| Magnesium (%DM) | 0.13 |
| Potassium (%DM) | 2.07 |
| Sulfur (%DM) | 0.17 |
| Sodium (%DM) | |
| Chloride (%DM) | |
| Iron (PPM) | |
| Manganese (PPM) | |
| Zinc (PPM) | |
| Copper (PPM) | |
| Nitrate Ion (%DM) | |
| Selenium (PPM) | |
| Molybdenum (PPM) | |

ENERGY & INDEX CALCULATIONS

| | |
|--|------|
| pH | 4.18 |
| TDN (%DM) | 64.3 |
| Net Energy Lactation (mcal/lb) | 0.65 |
| Net Energy Maintenance (mcal/lb) | 0.64 |
| Net Energy Gain (mcal/lb) | 0.38 |
| 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) | 122 |
| Relative Feed Quality (RFQ) | |
| Milk per Ton (lbs/ton) | |
| Dig. Organic Matter Index (lbs/ton) | |
| Non Fiber Carbohydrates (%DM) | 33.9 |
| Non Structural Carbohydrates (%DM) | 15.3 |
| 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



Powered by Cumberland Valley Analytical Services



14515 Industry Drive, Hagerstown, MD 21742
www.foragelab.com | mail@foragelab.com | 301-790-1980 | 800-CVAS-LAB

