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Sample Date: 2024-04-09
Sample No.: 003-2404-1419926

To: Steffes Auctioneers
 24400 MN Hwy 22 South
 Litchfield, MN 55355

Account No.: 953 (0)
Sampled By: Steffes Auctioneers
Sampled For: STEFFES AUCTION

Product: 4177

Test Mode: N8
Feed Type: Hay - Grass
Sub Type: Mixed

| | | | |
|------------------------|--------|------------------|-------------------|
| Moisture | 11.34% | | |
| Dry Matter | 88.66% | | |
| | | Dry Basis | 90% Range* |
| Crude Protein | %DM | 13.36 | 4.95 - 16.5 |
| AD-ICP | %DM | 0.85 | 0.62 - 1.79 |
| ND-ICP w/SS | %DM | 4.05 | 1.29 - 4.68 |
| Protein Sol. | %CP | 29.42 | 8.61 - 48.9 |
| ADF | %DM | 37.50 | 31.8 - 50.2 |
| aNDF | %DM | 57.11 | 48.2 - 72.7 |
| aNDFom | %DM | 55.02 | 43.0 - 68.9 |
| Lignin (Sulfuric Acid) | %DM | 4.58 | 3.94 - 9.40 |
| Lignin | %NDFom | 8.32 | |
| NDFD 30 | %NDFom | 50.76 | 36.2 - 65.5 |
| NDFD240 | %NDFom | 68.87 | 52.4 - 80.6 |
| uNDFom30 | %DM | 27.09 | 14.7 - 40.9 |
| uNDFom240 | %DM | 17.13 | 10.3 - 30.4 |
| Starch | %DM | 1.27 | 0.25 - 7.32 |
| Fat (EE) | %DM | 2.68 | 1.58 - 3.71 |
| TFA (fat) | %DM | 1.21 | 0.49 - 2.17 |
| Ash | %DM | 9.19 | 6.12 - 13.0 |
| Calcium | %DM | 0.51 | 0.25 - 1.15 |
| Phosphorus | %DM | 0.29 | 0.11 - 0.35 |
| Magnesium | %DM | 0.26 | 0.12 - 0.33 |
| Potassium | %DM | 2.45 | 0.69 - 3.03 |
| Sulfur | %DM | 0.23 | 0.07 - 0.25 |
| Chloride | %DM | 0.69 | 0.07 - 0.89 |
| Sugar (ESC) | %DM | 7.85 | 2.16 - 10.4 |
| Sugar (WSC) | %DM | 10.49 | 3.29 - 12.9 |

| | | | | |
|--------------------|----------|------------|--------------|-----------------|
| NDF kd rate MIR_P1 | %/hr | 4.53 | | |
| | | ADF | OARDC | MLK 2013 |
| TDN | | 59.69 | 59.62 | 55.85 |
| Nel 3x | Mcal/cwt | 61.09 | 60.94 | 62.23 |
| Neg | Mcal/cwt | 29.03 | 34.27 | 29.32 |
| Nem | Mcal/cwt | 54.64 | 60.37 | 54.95 |
| Milk per ton | lbs/ton | | | 2727 |

*Mixed grass hay statistics provided for comparison.

Calculations

| | | |
|------------------------|------|--------|
| Adjusted Crude Protein | %DM | 13.36 |
| NFC | %DM | 24.27 |
| NSC | %DM | 11.76 |
| RFV | | 97.17 |
| RFQ | | 128.97 |
| NDF kd rate Van Amb | %/hr | 3.07 |