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Sample Date: 2024-04-08
Sample No.: 003-2404-1419175

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

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

Product: 4158

Test Mode: N8
Feed Type: Hay - Legume
Sub Type: Alfalfa

| | | | |
|------------------------|--------|------------------|-------------------|
| Moisture | 14.79% | | |
| Dry Matter | 85.21% | | |
| | | Dry Basis | 90% Range* |
| Crude Protein | %DM | 19.20 | 15.4 - 24.0 |
| AD-ICP | %DM | 1.32 | 1.08 - 2.13 |
| ND-ICP w/SS | %DM | 2.38 | 1.63 - 4.06 |
| Protein Sol. | %CP | 39.06 | 27.5 - 47.1 |
| ADF | %DM | 36.17 | 25.5 - 41.8 |
| aNDF | %DM | 43.91 | 31.9 - 51.8 |
| aNDFom | %DM | 42.64 | 29.3 - 48.5 |
| Lignin (Sulfuric Acid) | %DM | 7.42 | 5.84 - 9.64 |
| Lignin | %NDFom | 17.40 | |
| NDFD 30 | %NDFom | 39.31 | 31.3 - 48.1 |
| NDFD240 | %NDFom | 45.05 | 41.5 - 61.9 |
| uNDFom30 | %DM | 25.88 | 16.5 - 29.5 |
| uNDFom240 | %DM | 23.43 | 13.0 - 27.8 |
| Starch | %DM | 1.37 | 0.28 - 3.74 |
| Fat (EE) | %DM | 2.22 | 1.77 - 3.35 |
| TFA (fat) | %DM | 0.83 | 0.81 - 2.33 |
| Ash | %DM | 10.05 | 9.15 - 13.8 |
| Calcium | %DM | 1.89 | 1.19 - 1.84 |
| Phosphorus | %DM | 0.27 | 0.23 - 0.39 |
| Magnesium | %DM | 0.39 | 0.25 - 0.41 |
| Potassium | %DM | 1.70 | 1.83 - 3.36 |
| Sulfur | %DM | 0.26 | 0.17 - 0.33 |
| Chloride | %DM | 0.15 | 0.16 - 1.13 |
| Sugar (ESC) | %DM | 4.89 | 2.71 - 9.16 |
| Sugar (WSC) | %DM | 7.29 | 3.32 - 10.2 |

| | | | | |
|--------------------|----------|------------|--------------|-----------------|
| NDF kd rate MIR_P1 | %/hr | 6.98 | | |
| | | ADF | OARDC | MLK 2013 |
| TDN | | 60.72 | 57.23 | 56.51 |
| Nel 3x | Mcal/cwt | 62.24 | 58.28 | 59.07 |
| Neg | Mcal/cwt | 33.79 | 33.44 | 32.56 |
| Nem | Mcal/cwt | 59.85 | 59.46 | 58.50 |
| Milk per ton | lbs/ton | | | 2529 |

*Alfalfa hay statistics provided for comparison.

Calculations

| | | |
|------------------------|------|--------|
| Adjusted Crude Protein | %DM | 19.20 |
| NFC | %DM | 28.66 |
| NSC | %DM | 8.66 |
| RFV | | 128.50 |
| RFQ | | 116.67 |
| NDF kd rate Van Amb | %/hr | 3.29 |