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Sample Date: 2023-12-12
Sample No.: 003-2312-1308963

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

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

Product: 3736

Test Mode: N9
Feed Type: Hay - Legume
Sub Type: Alfalfa

| | | | |
|-------------------------|--------|------------------|-------------------|
| Moisture | 13.89% | | |
| Dry Matter | 86.11% | | |
| | | Dry Basis | 90% Range* |
| Crude Protein | %DM | 20.34 | 15.4 - 24.0 |
| AD-ICP | %DM | 1.29 | 1.08 - 2.13 |
| ND-ICP w/SS | %DM | 2.81 | 1.63 - 4.06 |
| Protein Sol. | %CP | 41.40 | 27.5 - 47.1 |
| Total Amino Acids | %DM | 15.70 | 11.2 - 20.2 |
| Total Amino Acids | %CP | 77.19 | 66.4 - 89.8 |
| Lysine | %CP | 4.52 | 3.61 - 5.16 |
| Methionine | %CP | 1.62 | 1.42 - 2.11 |
| Isoleucine | %CP | 3.24 | 2.48 - 3.77 |
| Leucine | %CP | 6.34 | 4.88 - 7.39 |
| Histidine | %CP | 1.57 | 1.43 - 1.88 |
| ADF | %DM | 34.15 | 25.5 - 41.8 |
| aNDF | %DM | 42.74 | 31.9 - 51.8 |
| aNDFom | %DM | 41.58 | 29.3 - 48.5 |
| Lignin (Sulfuric Acid) | %DM | 7.66 | 5.84 - 9.64 |
| Lignin | %NDFom | 18.42 | |
| Lignin input (uNDF/2.4) | %DM | 9.67 | |
| NDFD12 | %NDFom | 30.18 | 28.9 - 47.1 |
| NDFD 24 | %NDFom | 37.85 | 28.2 - 45.5 |
| NDFD 30 | %NDFom | 39.06 | 31.3 - 48.1 |
| NDFD 48 | %NDFom | 41.01 | 32.6 - 49.4 |
| NDFD240 | %NDFom | 44.20 | 41.5 - 61.9 |
| uNDFom12 | %DM | 29.03 | 16.6 - 30.2 |
| uNDFom24 | %DM | 25.84 | 17.4 - 31.1 |
| uNDFom30 | %DM | 25.34 | 16.5 - 29.5 |
| uNDFom48 | %DM | 24.53 | 15.6 - 28.6 |
| uNDFom240 | %DM | 23.20 | 13.0 - 27.8 |
| Starch | %DM | 1.05 | 0.28 - 3.74 |
| Fat (EE) | %DM | 2.19 | 1.77 - 3.35 |
| TFA (fat) | %DM | 1.14 | 0.81 - 2.33 |
| 16:0 Palmitic | %TFA | 25.44 | 23.6 - 41.7 |
| 18:0 Stearic | %TFA | 5.26 | 4.46 - 8.70 |
| 18:1 Oleic | %TFA | 6.14 | 3.42 - 11.5 |
| 18:2 Linoleic | %TFA | 18.42 | 12.5 - 22.7 |

| | | | |
|----------------|------|-------|-------------|
| 18:3 Linolenic | %TFA | 42.98 | 20.0 - 47.4 |
| Ash | %DM | 9.38 | 9.15 - 13.8 |
| Calcium | %DM | 1.09 | 1.19 - 1.84 |
| Phosphorus | %DM | 0.36 | 0.23 - 0.39 |
| Magnesium | %DM | 0.29 | 0.25 - 0.41 |
| Potassium | %DM | 3.03 | 1.83 - 3.36 |
| Sulfur | %DM | 0.25 | 0.17 - 0.33 |
| Chloride | %DM | 0.47 | 0.16 - 1.13 |
| Sugar (ESC) | %DM | 5.37 | 2.71 - 9.16 |
| Sugar (WSC) | %DM | 7.63 | 3.32 - 10.2 |

*Alfalfa hay statistics provided for comparison.

Calculations

| | | | | |
|------------------------|----------|------------|--------------|-----------------|
| Adjusted Crude Protein | %DM | 20.34 | | |
| NFC | %DM | 29.37 | | |
| NSC | %DM | 8.68 | | |
| RFV | | 135.71 | | |
| RFQ | | 125.94 | | |
| NDF kd rate Van Amb | %/hr | 4.15 | | |
| NDF kd rate MIR_P1 | %/hr | 7.77 | | |
| | | ADF | OARDC | MLK 2013 |
| TDN | %DM | 62.30 | 58.54 | 59.17 |
| Nel 3x | Mcal/cwt | 64.00 | 59.74 | 60.42 |
| Neg | Mcal/cwt | 34.69 | 35.66 | 36.51 |
| Nem | Mcal/cwt | 60.83 | 61.91 | 62.84 |
| Milk per ton | lbs/ton | | | 2601 |