






1602 Park West Dr. • PO Box 169 • Hastings, NE 68902
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| Lab No.: 6203 | | FEED ANALYSIS REPORT | | Date Reported: 10/21/2024 |
|--|---|----------------------|-----------------|---|
| Send To: 33423 | SOUTHWEST GRAIN NEW ENGLAND SWG 170 ELEVATOR PO BOX 220 NEW ENGLAND, ND 58647 | | |   |
| Results For: Feedstuff Description: Sample Identification: Date Received: | BILL GUSSEY HAY, MIXED LOT N OATS KOCHIA 10/18/2024 | | |  Hans Burken Lab Manager |
| Invoice No.: | 763502 | | | |
| Feed Analysis Results | | As Received | 100% Dry Matter | |
| Nitrate Nitrogen, mg/kg NO3-N | | 1990 | | |
| Near Infrared Reflectance Spectroscopy (NIRS) Analysis | | | | |
| Moisture, % | 11.2 | | | |
| Dry Matter, % | 88.8 | | | |
| Crude Protein, % | 12.22 | 13.77 | | |
| Adjusted Crude Protein, % | 12.22 | 13.77 | | |
| AD-ICP, % | 0.67 | 0.75 | | |
| ND-ICP (w/Na2SO3), % | 2.19 | 2.47 | | |
| Soluble Protein, % CP | 35.84 | 40.38 | | |
| ADF, % ADF | 31.65 | 35.66 | | |
| aNDF (w/Na2SO3), % NDF | 47.66 | 53.70 | | |
| aNDFom, % aNDFom | 45.92 | 51.74 | | |
| Lignin (Sulfuric Acid), % | 5.21 | 5.87 | | |
| Lignin % NDF, % | 10.07 | 11.35 | | |
| uNDFom240, % | 16.58 | 18.68 | | |
| NDFD240, % NDF | 56.71 | 63.90 | | |
| Starch, % | 2.35 | 2.65 | | |

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| Lab No.: 6203 | | FEED ANALYSIS REPORT | | Date Reported: 10/21/2024 |
|-------------------------------|---------|-----------------------------|-----------------|---------------------------|
| Feed Analysis Results | | As Received | 100% Dry Matter | |
| Fat (EE), % | | 2.47 | 2.78 | |
| Total Fatty Acid (TFA), % TFA | | 1.15 | 1.30 | |
| Ash, % | | 9.23 | 10.40 | |
| Calcium, % Ca | | 0.88 | 0.99 | |
| Phosphorus, % P | | 0.25 | 0.28 | |
| Magnesium, % Mg | | 0.34 | 0.38 | |
| Potassium, % K | | 2.61 | 2.94 | |
| Sulfur, % S | | 0.28 | 0.31 | |
| Sugar (ESC), % | | 6.98 | 7.86 | |
| Sugar (WSC), % | | 8.41 | 9.48 | |
| N.F.C., % | | 21.53 | 24.26 | |
| RFV, | | 93.77 | 105.66 | |
| Chloride, % Cl | | 0.80 | 0.90 | |
| | | <u>ADF</u> | <u>OARDC</u> | |
| TDN | % | 61.12 | 57.18 | |
| NEI | Mcal/lb | 0.63 | 0.58 | |
| NEg | Mcal/lb | 0.31 | 0.31 | |
| NEm | Mcal/lb | 0.56 | 0.57 | |

NITRATE: MEDIUM (1401 - 2100 mg/kg NO3-N): Suggest limiting this feedstuff to about 1/4 to 1/2 of the total dry matter intake in diets for pregnant ruminants. Suggest limiting this feedstuff to about 1/2 to 2/3 of the total dry matter intake in diets for non-pregnant ruminants. Considered safe for horses.

Feeding forages with potentially high nitrate levels requires careful management and observation. Limit access to the high nitrate forage, as necessary, especially if livestock are hungry. Avoid overconsumption by introducing livestock gradually to rations including high nitrate forages. Dilute high nitrate forages with low nitrate feedstuffs as described above to help avoid a toxic dose of nitrate. Feed a balanced ration with adequate energy.

Nitrate levels in standing forages can change between sampling and harvest. Retest harvested and cured forage before feeding to livestock.

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Feed Analysis Results As Received 100% Dry Matter

NITRATE TOXICITY POTENTIAL: ServiTech reports these values as "mg/kg NO3-N" (milligram per kilogram nitrate-nitrogen). Other sources may report toxicity potential differently.

| Rating | NO3-N mg/kg | Comments | NO3 ppm | KNO3 ppm | NO3 % |
|----------------|-------------|-------------------|-----------------|-----------------|-------------|
| Very Low | 0 - 700 | Safe | 0 - 3000 | 0 - 5000 | 0.00 - 0.31 |
| Low | 700 - 1400 | Usually safe | 3000 - 6000 | 5000 - 10,000 | 0.31 - 0.62 |
| Medium | 1400 - 2100 | Potentially toxic | 6000 - 9500 | 10,000 - 15,000 | 0.62 - 0.93 |
| High | 2100 - 2800 | Very toxic | 9500 - 12,500 | 15,000 - 20,000 | 0.93 - 1.24 |
| Very High | 2800 - 3500 | Highly toxic | 12,500 - 15,500 | 20,000 - 25,000 | 1.24 - 1.55 |
| Extremely High | Over 3500 | Highly toxic | Over 15,000 | Over 25,000 | Over 1.55 |

(Note: "mg/kg" and "ppm" are equivalent units; % = mg/kg x 0.0001)

USDA HAY QUALITY GUIDELINES: ALFALFA, ALFALFA/MIX (100% dry matter)

| QUALITY | RFV | ADF % | NDF % | %CP |
|---------|---------|-------|-------|-------|
| Supreme | > 185 | < 27 | < 34 | > 22 |
| Premium | 170-185 | 27-29 | 34-36 | 20-22 |
| Good | 150-170 | 29-32 | 36-40 | 18-20 |
| Fair | 130-150 | 32-35 | 40-44 | 16-18 |
| Utility | < 130 | > 35 | > 44 | < 18 |

These **USDA marketing guidelines** are based primarily on alfalfa or alfalfa-grass mix for dairy cattle use. Suggested guidelines for other forages and other livestock uses are given below. Crude protein, visual appearance, intent of sale, end use, and other factors may influence final hay price. Regional pricing information is available from USDA Hay Marketing Service - Hay Reports at: www.ams.usda.gov/market-news/hay-reports

| RFV | SUGGESTED LIVESTOCK USES: |
|-----------|--|
| > 150 | Prime dairy cows; fresh and high producers |
| 125 - 150 | Good dairy cows; young heifers; backgrounding |
| 105 - 125 | Good beef cattle; older heifers; marginal for dairy cows |
| 87 - 105 | Maintenance of beef and dairy cows |
| 75 - 87 | May require supplementation |
| < 75 | Will require supplementation |

NIRs analysis performed utilizing Feedstuff Equations developed by Dairyland Labs, Inc.

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