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Lab No.: 6204		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: Invoice No.:	BILL GUSSEY HAY, MIXED LOT O OATS KOCHIA 10/18/2024 763502			 Hans Burken Lab Manager
Feed Analysis Results		As Received	100% Dry Matter	
Nitrate Nitrogen, mg/kg NO3-N		2380		
Near Infrared Reflectance Spectroscopy (NIRS) Analysis				
Moisture, %	12.2			
Dry Matter, %	87.8			
Crude Protein, %	13.88	15.80		
Adjusted Crude Protein, %	13.88	15.80		
AD-ICP, %	0.72	0.82		
ND-ICP (w/Na2SO3), %	2.93	3.34		
Soluble Protein, % CP	35.96	40.95		
ADF, % ADF	31.61	35.99		
aNDF (w/Na2SO3), % NDF	46.67	53.14		
aNDFom, % aNDFom	44.94	51.17		
Lignin (Sulfuric Acid), %	3.67	4.18		
Lignin % NDF, %	7.17	8.17		
uNDFom240, %	11.97	13.63		
NDFD240, % NDF	64.42	73.36		
Starch, %	1.10	1.25		

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Fat (EE), %		2.87	3.27	
Total Fatty Acid (TFA), % TFA		1.26	1.43	
Ash, %		10.98	12.50	
Calcium, % Ca		0.60	0.68	
Phosphorus, % P		0.31	0.35	
Magnesium, % Mg		0.26	0.30	
Potassium, % K		3.02	3.44	
Sulfur, % S		0.26	0.30	
Sugar (ESC), %		5.56	6.33	
Sugar (WSC), %		7.05	8.03	
N.F.C., %		18.83	21.44	
RFV,		93.63	106.62	
Chloride, % Cl		0.79	0.90	
		ADF	OARDC	
TDN	%	60.86	58.27	
NEI	Mcal/lb	0.62	0.59	
NEg	Mcal/lb	0.31	0.34	
NEm	Mcal/lb	0.57	0.60	

NITRATE: HIGH (2101 - 2800 mg/kg NO3-N): Suggest limiting this feedstuff to about 1/3 to 1/2 of the total dry matter intake in diets for non-pregnant ruminants. Not advised for use with 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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