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Lab No.: 6190		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 ALFALFA HAY LOT A 1ST CUTTING ALF 10/18/2024			
Invoice No.:	763502			 Hans Burken Lab Manager
Feed Analysis Results As Received 100% Dry Matter				
Near Infrared Reflectance Spectroscopy (NIRS) Analysis				
Moisture, %	13.0			
Dry Matter, %	87.0			
Crude Protein, %	14.27	16.41		
Adjusted Crude Protein, %	14.27	16.41		
AD-ICP, %	0.97	1.12		
ND-ICP (w/Na2SO3), %	2.26	2.60		
Soluble Protein, % CP	30.85	35.47		
ADF, % ADF	30.94	35.57		
aNDF (w/Na2SO3), % NDF	40.53	46.60		
aNDFom, % aNDFom	39.12	44.98		
Lignin (Sulfuric Acid), %	5.89	6.77		
Lignin % NDF, %	13.09	15.05		
uNDFom240, %	18.48	21.25		
NDFD240, % NDF	45.89	52.76		
Starch, %	0.56	0.64		
Fat (EE), %	2.46	2.83		

The reported analytical results apply only to the sample as it was supplied.
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Feed Analysis Results		As Received	100% Dry Matter	
Total Fatty Acid (TFA), % TFA		0.99	1.14	
Ash, %		10.39	11.95	
Calcium, % Ca		1.06	1.22	
Phosphorus, % P		0.24	0.28	
Magnesium, % Mg		0.31	0.36	
Potassium, % K		2.21	2.54	
Sulfur, % S		0.23	0.27	
Sugar (ESC), %		6.36	7.31	
Sugar (WSC), %		8.09	9.30	
N.F.C., %		23.59	27.12	
RFV,		106.45	122.38	
Chloride, % Cl		0.61	0.70	
		<u>ADF</u>	<u>OARDC</u>	
TDN	%	61.19	56.03	
NEI	Mcal/lb	0.63	0.57	
NEg	Mcal/lb	0.32	0.31	
NEm	Mcal/lb	0.58	0.57	

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Lab No.: 6190 **FEED ANALYSIS REPORT** Date Reported: 10/21/2024

Feed Analysis Results As Received 100% Dry Matter

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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