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Lab No.: 6198 **FEED ANALYSIS REPORT** Date Reported: 10/21/2024

<b>Send To:</b> 33423	SOUTHWEST GRAIN NEW ENGLAND SWG 170 ELEVATOR PO BOX 220 NEW ENGLAND, ND 58647	
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<b>Results For:</b>	BILL GUSSEY	 Hans Burken Lab Manager
<b>Feedstuff Description:</b>	HAY, MIXED	
<b>Sample Identification:</b>	LOT I GRASS-ALFALFA	
<b>Date Received:</b>	10/18/2024	
<b>Invoice No.:</b>	763502	

Feed Analysis Results As Received 100% Dry Matter

Near Infrared Reflectance Spectroscopy (NIRS) Analysis		
Moisture, %	10.0	
Dry Matter, %	90.0	
Crude Protein, %	8.00	8.89
Adjusted Crude Protein, %	7.94	8.82
AD-ICP, %	0.84	0.93
ND-ICP (w/Na2SO3), %	2.50	2.78
Soluble Protein, % CP	27.84	30.93
ADF, % ADF	33.89	37.66
aNDF (w/Na2SO3), % NDF	53.52	59.47
aNDFom, % aNDFom	51.74	57.49
Lignin (Sulfuric Acid), %	5.45	6.06
Lignin % NDF, %	9.49	10.54
uNDFom240, %	20.49	22.77
NDFD240, % NDF	54.35	60.39
Starch, %	1.66	1.84
Fat (EE), %	3.36	3.73

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		1.22	1.36	
Ash, %		9.53	10.59	
Calcium, % Ca		0.35	0.39	
Phosphorus, % P		0.18	0.20	
Magnesium, % Mg		0.16	0.18	
Potassium, % K		1.63	1.81	
Sulfur, % S		0.11	0.12	
Sugar (ESC), %		7.25	8.06	
Sugar (WSC), %		8.96	9.96	
N.F.C., %		21.11	23.45	
RFV,		83.93	93.26	
Chloride, % Cl		0.35	0.39	
		<u>ADF</u>	<u>OARDC</u>	
TDN	%	59.56	54.86	
NEI	Mcal/lb	0.61	0.56	
NEg	Mcal/lb	0.23	0.26	
NEm	Mcal/lb	0.48	0.51	

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Feed Analysis Results As Received 100% Dry Matter

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

<u>QUALITY</u>	<u>RFV</u>	<u>ADF %</u>	<u>NDF %</u>	<u>%CP</u>
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](http://www.ams.usda.gov/market-news/hay-reports)

<u>RFV</u>	<u>SUGGESTED LIVESTOCK USES:</u>
> 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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