

HOLMES LABORATORY INC.  
 3559 US 62  
 Millersburg, OH 44654  
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FORAGE/FEEDSTUFF  
 ANALYSIS REPORT  
 [A Vital Key to Today's Agriculture]  
 (330) 893-2933 \* www.holmeslab.com  
 Test Performed: 5

Customer: Groeschl Ag Service

Groeschl Ag Service-A.Groeschl  
 10271 N. County Rd. K  
 Hayward, WI 54843

Date Reported: 08/11/2017  
 Lab Number: 17-1986  
 SAMPLE I.D.: Grass Hay  
 27 Day 2nd Cut Grass

Item	Units	As Sampled Basis	Dry Matter Basis
Moisture	%	10.67	
Dry Matter	%	89.33	
Crude Protein	%	14.78	16.54
Available Protein	%	14.41	16.13
Adjusted Crude Protein	%	14.78	16.54
A.D.F. Protein	%	.37	.41
N.D.F. Protein	%	4.96	5.55
Soluble Protein	%		
Protein Solubility	%		
Lignin	%	1.32	1.48
Acid Detergent Fiber	%	26.63	29.81
Neutral Detergent Fiber	%	47.37	53.03
NFC (Non-Fiber Carbohydrate)	%	22.18	24.83
Sugar	%		
Starch	%		
NSC = Starch + Sugar	%		
Crude Fat (est.)	%	2.14	2.40
TDN	%	51.73	57.91
NEl	Mcal/lb.	.526	.589
NEm	Mcal/lb.	.502	.562
NEg	Mcal/lb.	.272	.305
Ash	%	7.36	8.24
Lignin Insoluble Ash	%	1.13	1.27
Calcium (Ca)	%	.37	.41
Phosphorus (P)	%	.35	.39
Magnesium (Mg)	%	.29	.32
Potassium (K)	%	2.28	2.55
Sulfur (S)	%	.12	.13
Sodium (Na)	%	.021	.024
Chloride (Cl)	%	.84	.94
Copper (Cu)	ppm	4	5
Manganese (Mn)	ppm	58	65
Zinc (Zn)	ppm	17	19
Iron (Fe)	ppm	38	43
Molybdenum (Mo)	ppm	4.3	4.8
Nitrate (NO3)	%		Negative
pH			
RFV (Relative Feed Value)			115
Horse DE	Mcal/lb.	1.02	1.14
Horse TDN	%	50.75	56.81
Crude Fiber	%		
DCAD	meq./100g DM		31.8
DCAD	meq./1 lb.DM		144.4