

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: 9W

Customer: Groeschl Ag

Groeschl Ag Service-A.Groeschl  
 13920 W State Rd.77  
 Hayward, WI 54843

Date Reported: 08/19/2016  
 Lab Number: 16-1838  
 SAMPLE I.D.: Grass Hay  
 Andy's 2nd Orch.Grass

Item	Units	As Sampled Basis	Dry Matter Basis
Moisture	%	12.18	
Dry Matter	%	87.82	
Crude Protein	%	9.11	10.37
Available Protein	%	8.68	9.88
Adjusted Crude Protein	%	9.11	10.37
A.D.F. Protein	%	.43	.49
N.D.F. Protein	%	2.81	3.20
Soluble Protein	%		
Protein Solubility	%		
Lignin	%	2.91	3.31
Acid Detergent Fiber	%	32.37	36.86
Neutral Detergent Fiber	%	54.86	62.47
NFC (Non-Fiber Carbohydrate)	%	15.61	17.77
Sugar	%	3.18	3.62
Starch	%	2.73	3.11
NSC = Starch + Sugar	%	5.91	6.73
Crude Fat	%	3.38	3.85
TDN	%	55.12	62.77
NEl	Mcal/lb.	.565	.643
NEm	Mcal/lb.	.558	.635
NEg	Mcal/lb.	.326	.371
Ash	%	7.36	8.38
Lignin Insoluble Ash	%	2.55	2.90
Calcium (Ca)	%	.43	.49
Phosphorus (P)	%	.17	.19
Magnesium (Mg)	%	.19	.22
Potassium (K)	%	1.86	2.12
Sulfur (S)	%	.16	.18
Sodium (Na)	%	.010	.011
Chloride (Cl)	%		
Copper (Cu)	ppm	3	3
Manganese (Mn)	ppm	68	78
Zinc (Zn)	ppm	11	12
Iron (Fe)	ppm	22	25
Molybdenum (Mo)	ppm		
Aluminum (Al)	ppm		
Nitrate (NO3)	%		Negative
pH			
RFV (Relative Feed Value)			90
Horse DE	Mcal/lb.		
Horse TDN	%		
Crude Fiber	%		
DCAD	meq./100g DM		
DCAD	meq./1 lb.DM		