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FORAGE/FEEDSTUFF  
 ANALYSIS REPORT  
 [A Vital Key to Today's Agriculture]  
 www.holmeslab.com  
 Test Performed: AGW

Customer: Andy Groeschl-2012

Joyful Journey Alpacas, LLC  
 13920 W. State Rd. 77  
 Hayward, WI 54843

Date Reported: 05/31/2012  
 Lab Number: 12-2364  
 SAMPLE I.D.: Grass Hay  
 1st Cut Wiley Field

Item	Units	As Sampled	Basis	Dry Matter Basis
Moisture	%	18.78		
Dry Matter	%	81.22		
Crude Protein	%	9.33		11.49
Available Protein	%			
Adjusted Crude Protein	%			
A.D.F. Protein	%			
N.D.F. Protein	%			
Soluble Protein	%			
Protein Solubility	%			
Lignin	%			
Acid Detergent Fiber	%	22.60		27.83
Neutral Detergent Fiber	%	41.93		51.62
N.D.F. (Protein Free)	%			
NFC (Non-Fiber Carbohydrate)	%	22.00		27.09
Sugar	%	7.81		9.61
Starch	%	.29		.36
NSC = Starch + Sugar	%	8.10		9.97
Crude Fat	%			
TDN	%	52.81		65.02
NEl	Mcal/lb.	.543		.668
NEm	Mcal/lb.	.543		.669
NEg	Mcal/lb.	.326		.401
Ash	%			
Lignin Insoluble Ash	%			
Calcium (Ca)	%	.26		.32
Phosphorus (P)	%	.27		.33
Magnesium (Mg)	%	.19		.24
Potassium (K)	%	1.19		1.47
Sulfur (S)	%			
Sodium (Na)	%	.054		.067
Chloride (Cl)	%			
Copper (Cu)	ppm	2		3
Manganese (Mn)	ppm	91		112
Zinc (Zn)	ppm	13		16
Iron (Fe)	ppm	94		116
Molybdenum (Mo)	ppm			
Aluminum (Al)	ppm			
Nitrate (NO3)	%			
pH				
RFV (Relative Feed Value)				121
Horse DE	Mcal/lb.			
Horse TDN	%			
Crude Fiber	%			
DCAD	meq./100g DM			
DCAD	meq./1 lb.DM			