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

Customer: Jeff Groeschl

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

Date Reported: 08/09/2013
 Lab Number: 13-2784
 SAMPLE I.D.: Mixed Hay
 Andy Field/2nd Cut

Item	Units	As Sampled Basis	Dry Matter Basis
Moisture	%	10.11	
Dry Matter	%	89.89	
Crude Protein	%	11.34	12.61
Available Protein	%		
Adjusted Crude Protein	%		
A.D.F. Protein	%		
N.D.F. Protein	%		
Soluble Protein	%		
Protein Solubility	%		
Lignin	%		
Acid Detergent Fiber	%	30.99	34.48
Neutral Detergent Fiber	%	53.30	59.29
NFC (Non-Fiber Carbohydrate)	%	15.19	16.90
Sugar	%		
Starch	%		
NSC = Starch + Sugar	%		
Crude Fat	%		
TDN	%	52.30	58.18
NEl	Mcal/lb.	.532	.592
NEm	Mcal/lb.	.509	.566
NEg	Mcal/lb.	.278	.309
Ash	%		
Lignin Insoluble Ash	%		
Calcium (Ca)	%	.26	.29
Phosphorus (P)	%	.28	.31
Magnesium (Mg)	%	.22	.25
Potassium (K)	%	2.84	3.16
Sulfur (S)	%		
Sodium (Na)	%	.054	.060
Chloride (Cl)	%		
Copper (Cu)	ppm	4	4
Manganese (Mn)	ppm	102	113
Zinc (Zn)	ppm	12	13
Iron (Fe)	ppm	38	42
Molybdenum (Mo)	ppm		
Aluminum (Al)	ppm		
Nitrate (NO3)	%		
pH			
RFV (Relative Feed Value)			97
Horse DE	Mcal/lb.		
Horse TDN	%		
Crude Fiber	%		
DCAD	meq./100g DM		
DCAD	meq./1 lb.DM		