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

Customer: Andy Groeschl

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

Date Reported: 08/22/2012
 Lab Number: 12-3477
 SAMPLE I.D.: Grass Hay
 2nd Cut Hamblin Flds

Item	Units	As Sampled Basis	Dry Matter Basis
Moisture	%	13.36	
Dry Matter	%	86.64	
Crude Protein	%	11.52	13.30
Available Protein	%		
Adjusted Crude Protein	%		
A.D.F. Protein	%		
N.D.F. Protein	%		
Soluble Protein	%		
Protein Solubility	%		
Lignin	%		
Acid Detergent Fiber	%	31.26	36.08
Neutral Detergent Fiber	%	52.69	60.82
N.D.F.(Protein Free)	%		
NFC (Non-Fiber Carbohydrate)	%	13.93	16.08
Sugar	%		
Starch (est.)	%	2.09	2.41
Crude Fat	%		
TDN	%	46.66	53.86
NEl	Mcal/lb.	.471	.544
NEm	Mcal/lb.	.433	.500
NEg	Mcal/lb.	.214	.247
Ash	%		
Lignin Insoluble Ash	%		
Calcium (Ca)	%	.33	.38
Phosphorus (P)	%	.23	.26
Magnesium (Mg)	%	.25	.29
Potassium (K)	%	2.34	2.70
Sulfur (S)	%		
Sodium (Na)	%	.005	.006
Chloride (Cl)	%		
Copper (Cu)	ppm	4	5
Manganese (Mn)	ppm	55	64
Zinc (Zn)	ppm	14	16
Iron (Fe)	ppm	38	44
Molybdenum (Mo)	ppm		
Aluminum (Al)	ppm		
Nitrate (NO3)	%		
pH			
RFV (Relative Feed Value)			93
Horse DE	Mcal/lb.		
Horse TDN	%		
Crude Fiber	%		
DCAD	meq./100g DM		
DCAD	meq./1 lb.DM		