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FORAGE/FEEDSTUFF
 ANALYSIS REPORT

Web Site: www.holmeslab.com
 Date Reported: 09/16/2010
 Customer: Joyful Journey

Alpacas
 [A Vital Key to Today's Agriculture]

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

Lab Number: 10-5758
 SAMPLE I.D.: Grass Hay
 Orchard Gr. 3rd

Item	Units	As Sampled Basis	Dry Matter Basis
Moisture	%	12.49	
Dry Matter	%	87.51	
Crude Protein	%	8.97	10.25
Available Protein	%		
Adjusted Crude Protein	%		
A.D.F. Protein	%		
N.D.F. Protein	%		
Soluble Protein	%		
Protein Solubility	%		
Lignin	%		
Acid Detergent Fiber	%	29.60	33.83
Neutral Detergent Fiber	%	49.40	56.45
N.D.F. (Protein Free)	%		
NFC (Non-Fiber Carbohydrate)	%	20.56	23.50
Sugar	%		
Starch (est.)	%	3.09	3.53
Crude Fat	%		
TDN	%	49.81	56.92
NEl	Mcal/lb.	.506	.578
NE _m	Mcal/lb.	.479	.547
NE _g	Mcal/lb.	.255	.291
Ash	%		
Lignin Insoluble Ash	%		
Calcium (Ca)	%	.09	.10
Phosphorus (P)	%	.07	.08
Magnesium (Mg)	%	.07	.08
Potassium (K)	%	.37	.42
Sulfur (S)	%		
Sodium (Na)	%	.021	.024
Chloride (Cl)	%		
Copper (Cu)	ppm	4	4
Manganese (Mn)	ppm	83	95
Zinc (Zn)	ppm	12	14
Iron (Fe)	ppm	39	45
Molybdenum (Mo)	ppm		
Aluminum (Al)	ppm		
Nitrate (NO ₃)	%		
pH			
RFV (Relative Feed Value)			103
Horse DE	Mcal/lb.		
Horse TDN	%		
Crude Fiber	%		