



**Litchfield Analytical Services**

P.O. Box 457  
535 Marshall Street  
Litchfield, MI 49252

Voice: 517-542-2915  
Fax: 517-542-2014  
Web Page: www.litchlab.com  
e-mail: litchlab@qcnet.net

Feeds Forages Mycotoxins Soils Plant Tissues Manure Fertilizers Lime Water

**Sample Number:** 5,701 **Date Processed:** 10/02/07  
**Sample Type:** TMR-(Forage & Grain) **Date Received:** 10/03/07  
**Grower ID:** Joe's Cattle Ranch  
**Sample ID:** **Cust#:** A1  
Crop Service Professionals, Inc. Phone: 517-555-5555  
P.O. Box 457 Fax: 517-555-5555  
500 South Main Street  
Decker MI 49999 Email:  
Attn: Joe Andrews

**Penn State University Particle Size Analysis**

Percentage of Particles > 0.75"	=	4.84%
Percentage of Particles 0.31" to 0.75"	=	47.41%
Percentage of Partices < 0.31"	=	47.75%
Total	=	100.00%

**Table 1. Recommended forage and TMR particle sizes for the Penn State Separator**

Particle Size	Corn Silage	Haylage	TMR
* Upper Sieve <sup>1</sup> (> 0.75")	2.0 to 4.0% if not sole forage  10.0 to 15.0% if chopped & rolled	10.0 to 15.0% in sealed silo  15.0 to 25.0% bunker silo, wetter mixture	6.0 to 10.0% or more  3.0 to 6.0% focus on TNDF & FNDF
* Middle Sieve <sup>1</sup> (0.31 to 0.75")	40.0 to 50.0%	30.0 to 40.0%	30.0 to 50.0%
* Bottom Pan <sup>1</sup> (< 0.31")	40.0 to 50.0%	40.0 to 50.0%	40.0 to 60.0%

1) Portion remaining on screen