



# Dairy One

Forage Laboratory

## April 2015 Newsletter

### In This Issue

#### Blog

[What have we seen for aNDF & aNDFom?](#)

[Measurement to Management Farm Tour](#)



[Click here to check out the Dairy One blog!](#)

Read the latest posting:

[Spring Meeting Review](#)

The introductory price of \$25.00/sample will now be the formal price of the new **NIR Pro** package featuring the aNDFom and uNDFom analyses.

### What have we seen for aNDF and aNDFom?

Since the release of the aNDFom analysis and our Forage NIR Pro package, we have analyzed more than 2,600 samples of corn silage, legume haylage, and grass haylage. The aNDFom analysis was added for the correction of ash content in samples. Over the years, we have seen the ash content and variation of legume and grass silages increase, which can lead to overestimation of NDF and fiber content of diets.

Table 1. Silage Ash Analysis in 2000-2001 and 2013-2014 in the Dairy One Forage Lab

Silage	2000 – 2001		2013 – 2014	
	Ash, % DM	Standard Deviation	Ash, % DM	Standard Deviation
Corn	4.3	1.1	4.2	1.4
Legume	10.7	1.9	11.9	2.3
Grass	8.5	2.2	9.9	2.9

Similar to ash analysis comparisons between 2000 to 2001 and 2013 to 2014, corn silage was lower in ash and deviation than the legume or grass silages (Table 1 and Table 2). Ash values are lower in corn silage because elevated ash levels in corn silage are related to late-season flooded corn or corn that has lodged or fallen down prior to chopping.

The ash content of the legume and the grass silage was higher than in the corn silage, but the difference in the aNDF and aNDFom was similar to the corn silage (Table 2). The higher ash values in legume and grass silages is related harvest techniques. Lower cutting heights (less than 4 inches), amount of raking after cutting, merging practices, larger equipment, and dry or very dry soil conditions all contribute to the ash content of the forage.

Table 2. aNDF, aNDFom, and Ash Comparison for Corn Silage, Legume Silage, and Grass Silage

	aNDF, % DM	aNDFom, % DM	Difference (aNDF – aNDFom)	Ash, % DM
<b>Corn Silage</b>				
N	1171	1171	1171	1171
Mean	44.93	43.23	1.70	3.94
Standard Deviation	5.87	6.00	1.29	1.18
Min	28.65	25.46	0.00	0.20
Max	79.24	78.34	10.75	11.15
<b>Legume Silage</b>				
N	419	419	419	419
Mean	47.33	45.66	1.68	10.46
Standard Deviation	5.24	5.23	0.95	1.55
Min	35.27	32.48	0.02	6.34
Max	65.96	63.57	6.16	18.64
<b>Grass Silage</b>				
N	1083	1083	1083	1083
Mean	57.42	55.10	2.32	9.05
Standard Deviation	7.16	7.36	1.61	2.21
Min	38.87	34.05	0.00	3.78
Max	85.74	84.24	21.29	25.98

Plan now to visit a site near you and see how Dairy One services make a difference for members.

What does it mean to "Measure it so you can manage it" ? We will show you how the following areas of our business do just that on real farms and get real results.

- \* DHIA Records Services
- \* Forage Laboratory
- \* Agro One Soils Laboratory
- \* Animal Health Diagnostic Laboratory
- \* Agricultural Management Resources
- \* Agricultural Consulting Services

Dairy One staff are excited to be working with 6 member farms this summer and will be available at each site. We will spend the morning touring the farm facility and addressing just how we measure it so you can manage it. This is a new event for Dairy One and we look forward to seeing you there!

**Tour Dates and Locations:**

Tuesday, June 9th - Lauden Farms - Halifax, PA. The farm is currently milking about 580 cows.

Thursday, June 11th - Knoxland Farm - Hillsboro, NH and Bradford, VT. The farm is using alternative manure application methods.

Tuesday, June 16th - Green Acres Farm - Lewes, DE. Has a great ice cream business at the farm and milks 500 cows.

Thursday, June 18th - Post Dairy Farm - Oakfield, NY. The farm is currently milking about 380 cows.

Tuesday, July 21st - Bergen Farms - Odessa, NY. The farm is currently milking about 2600 cows.

Thursday, July 23rd - Hidden View Farm - Champlain, NY. The farm is moving into new dry cow and calving facilities this summer.

Pre-registration is strongly encouraged so we can anticipate the number of visitors for each site.

If you are interested in attending, please contact Kayla Turcsik at Dairy One by phone 800-344-2697, or e-mail [kayla.turcsik@dairyone.com](mailto:kayla.turcsik@dairyone.com). Include the site and number of people attending.

Like us on Facebook 

Dairy One - Forage Laboratory  
730 Warren Road ~ Ithaca, NY ~ 14850  
Phone: 1-800-344-2697 Ext. 2172

[www.dairyone.com](http://www.dairyone.com) ~ [www.facebook.com/DairyOne](http://www.facebook.com/DairyOne)