How Much Corn Is Passing Through My Cows?

Larry Chase, Cornell University

Corn silage harvested in 1995 was highly variable in both maturity and yield. In many areas of the Northeast, corn silage was ready for harvest 1-3 weeks earlier than normal.

The dry down rate was also more rapid. The end result was often a corn silage that was

	Stage of Maturity	
	Dent	Black-line
Com silage (CS) DM, %	36	42
% grain in CS	26.4	41.1
% corn in ration from CS	9.8	15.2
lbs corn in ration from CS	4.5	6.7*
% corn in feces, % of DM	3.0	9.0*
lbs corn in feces	.5	1.3*
% fecal loss, % of intake com	10	20*
Dry matter intake, lbs	45.6	44.4
Dry matter intake, % of BW	3.04	3.01
Milk, lbs/day	47.1	44.2*
Milk fat, %	3.68	3.91*
Milk fat, lbs	1.67	1.69
Milk protein, %	3.49	3.54
Milk protein, lbs	1.63	1.54
Dry matter digestibility, %	66.7	66.4

drier and more mature.

low.

Kernels are hard and fre-

How much of this corn is

quently smaller than normal.

The percent grain may also be

passing through the cow? A

recent study conducted by Dr.

Joe Harrison at Washington

State University provides some

initial information. The same

corn silage hybrid was

*Significant difference between treatments (p=.05 or less)

harvested at either ½ to ¾ milk line or at back-layer. The silage was then used in rations for mid to late lactation cows in a digestion trail study. Corn silage comprised 40 percent of the total ration on a dry matter basis. The preliminary results of this study are:

The more mature corn silage contained more grain and had a⁷⁷ higher fecal loss than the earlier harvested corn silage. Actual daily grain intake from the more mature corn silage was still higher even after accounting for fecal loss.

The lower milk production observed when feeding the more mature corn silage fits with field observations. Dry matter digestibility was not different between the two maturities.

This may seem confusing at first. As corn silage matures, stover digestibility is expected to decrease. At the same time, there is a higher level of grain and starch in the more mature corn silage. The final report should contain additional information to permit us to sort out differences in digestibility of the various chemical components of the two corn silages. This information will be valuable in

explaining the milk production response observed in this trail.

Just think: how much difference might there have been in milk production if this trial had been conducted with early lactation cows?



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