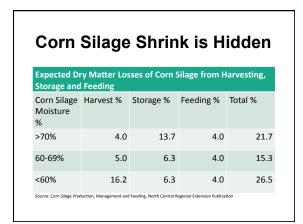
## 10th Mid-Atlantic Dairy Grazing Conference

**Economics of Integrating Corn Silage into Pasture-Based Dairies** 









2015 Corn Silage Production Costs					
Operating Expenses	2015 Costs (\$/Acre)	\$/Ton (18 Ton Yield			
Seed	\$78.00				
Fertilizer	\$177.78				
Crop Protection	\$60.00				
Custom Hire	\$82.00				
Machinery Fuel	\$27.84				
Machinery Repairs	\$16.45				
Labor	\$25.02				
Other	\$15.05				
Total Operating Costs	\$482.14	\$26.79			

2015 Corn Silage I Costs	Touc	101101
Ownership Expenses	2015 Costs (\$/Acre)	\$/Ton
Farm Business overhead	\$4.00	
Machinery overhead	\$25.25	
Machinery depreciation	\$31.39	
Real estate charge (rent ~ 3.33% of \$4,800/A land)	\$160.00	
Total Ownership Costs Per Acre	\$220.64	\$12.26

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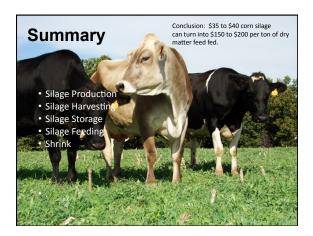
## **Economics of Integrating Corn Silage into Pasture-Based Dairies**

Corr	Silage Cost	ts Per Ton at	: Different Y	ields
Category	Production Costs at different yields (as fed)			
	12 Tons/	18 Tons/	24 Tons/	30 Tons/
	Acre	Acre	Acre with 12" irrigation	Acre with 12" irrigation
Operating Cost/ton	\$ 35.48	\$ 26.79	\$ 31.48	\$ 27.86
Ownership Costs/ton	\$ 25.72	\$ 12.26	\$ 12.86	\$ 10.29
Total Costs/ ton	\$ 61.20	\$ 39.04	\$ 44.34	\$ 38.15

Silage Sto	orage C	Costs	
	Bunker Silo	Drive over pile	Plastic Bags
Annualized cost per ton for land & structure	\$ 8.98	\$ 2.75	\$ 2.44
Estimated Storage Dry Matter Loss	17%	18%	8%
Estimate Feedout Dry Matter Loss	3%	4%	3%
Total DM Loss	20%	22%	11%
Total \$/Ton silage coming out of storage	\$ 64.21	\$ 57.87	\$ 53.62
Total \$/D.M. Ton silage coming out of storage	\$183.47	\$165.36	\$153.21

## 

Costs per Ton to Feed Corn Silage					
Minutes to Feed	Tons of Corn Silage Delivered to Cows Per Feeding				
	4 tons/ feeding	6 tons/ feeding	8 tons/ feeding	10 tons/ feeding	12 tons/ feeding
15 minutes	\$3.64	\$2.43	\$1.82	\$1.46	\$1.21
30 minutes	\$7.29	\$4.86	\$3.64	\$2.92	\$2.43
45 minutes	\$10.93	\$7.29	\$5.47	\$4.37	\$3.64
60 minutes	\$14.58	\$9.72	\$7.29	\$5.83	\$4.86
75 minutes	\$18.22	\$12.15	\$9.11	\$7.29	\$6.07
90 minutes	\$21.87	\$14.58	\$10.93	\$8.75	\$7.29



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