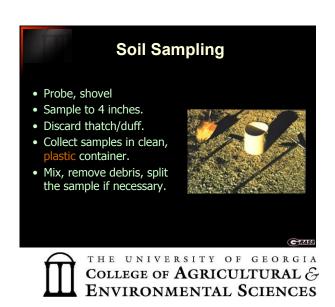


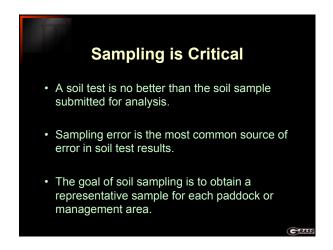


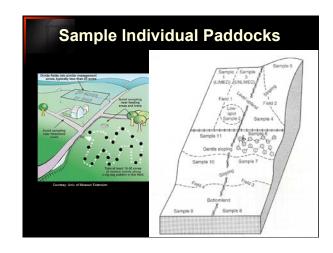


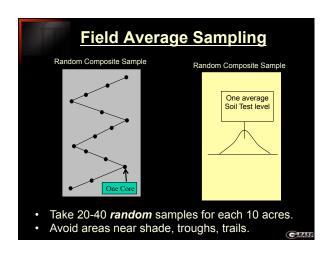
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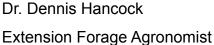


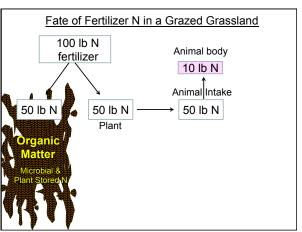




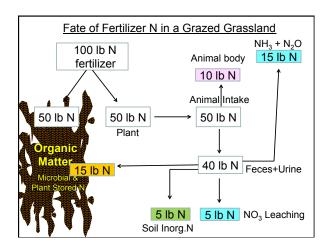






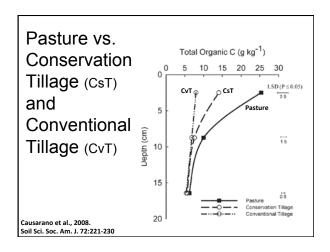






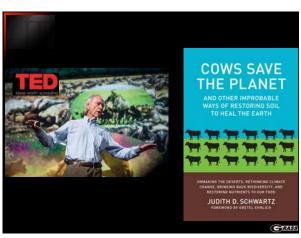
Organic N accumulation rate in upper 12 inches of soil during 12 years of haying or grazing with a yearly application of 220 lb N/acre as $\mathrm{NH_4NO_3}$.				
Treatment	Management	Organic N accumulation		
		lb N/acre/year		
Hayed	Monthly cuts to 2 inches	51 (23%)		
High Grazing Pressure	Maintained at 1300 lb/acre	92 (42%)		
Low Grazing Pressure	Maintained at 2600 lb/acre	122 (56%)		
Franzluebbers and Stuedemann (2009)				

Organic N accumulation rate in upper 12 inches of soil during 12 years of haying or grazing with a yearly applications of 230 lb N/acre as broiler litter.				
Treatment	Management	Organic N Accumulation		
		lb N/acre/year		
Hayed	Monthly cuts to 2 inches	78 (34%)		
High Grazing Pressure	Maintained at 1300 lb/acre	174 (76%)		
Low Grazing Pressure	Maintained at 2600 lb/acre	182 (79%)		
Franzluebbers and Stuedemann (2009)				



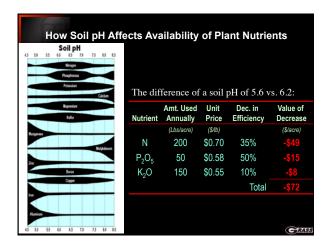
Paddock	Initial	1 year	2 years	3 years
	Soil Organic Matter, %			
P4	1.08	1.15	1.25	2.20
P8	1.01	1.17	1.59	2.18
P14	1.14	1.63	1.86	2.00
Avg.	1.07	1.32	1.57	2.13

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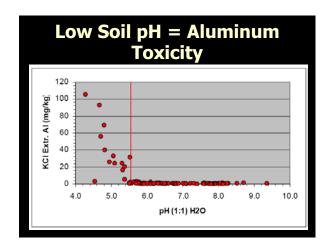






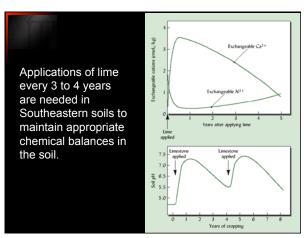






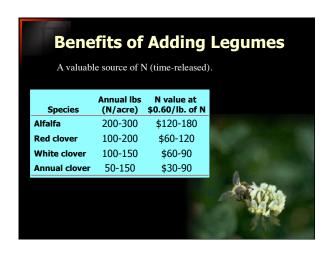
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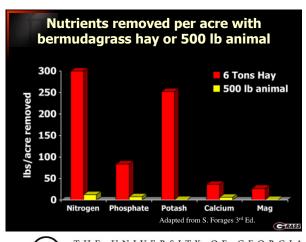






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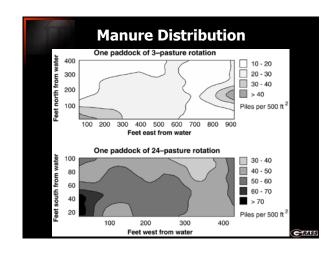
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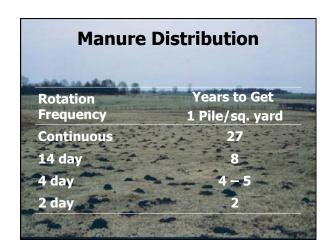


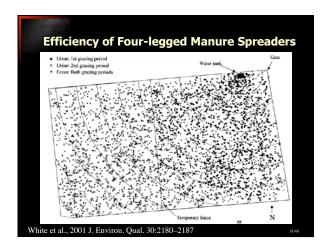


Soil fertility and nutrient cycling in grazing systems









Management						
	Time	Defecations	Urinations			
Location	(% of Total)	(%)	(%)			
Paddock	86.1	84.7	84.1			
Feed Area	7.3	9.1	12.3			
Lanes	2.6	1.3	0.0			
Holding	1.7	4.4	3.4			
Parlor	1.7	0.4	0.2			
		4.8	<u>3.6</u>			

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