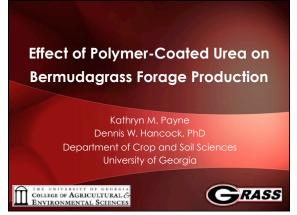
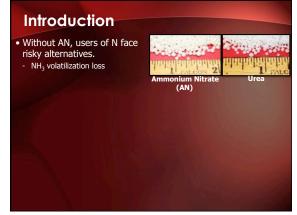
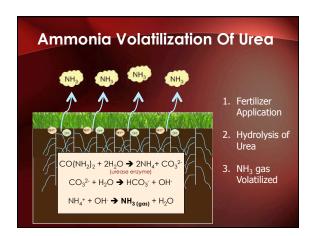
Effect of Polymer-Coated Urea on Bermudagrass Forage Production



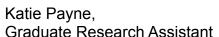


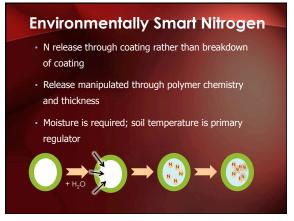








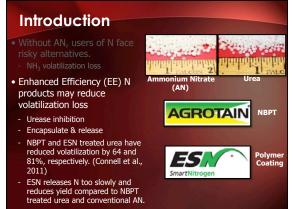


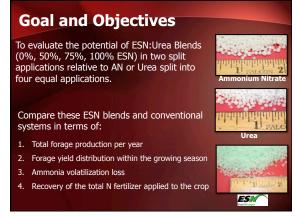


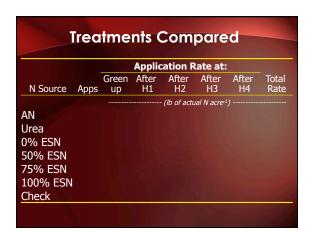


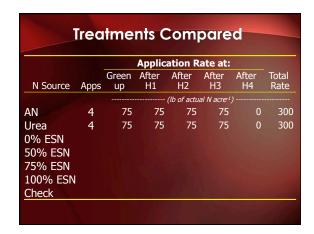
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15.75	Application Rate at:										
N Source	Apps	Green up	After H1	After H2	After H3	After H4	Total Rate				
	(lb of actual N acre ⁻¹)										
AN	4	75	75	75	75	0	300				
Urea	4	75	75	75	75	0	300				
0% ESN	2	150	0	150	0	0	300				
50% ESN											
75% ESN											
100% ESN											
Check											

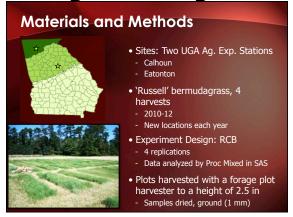
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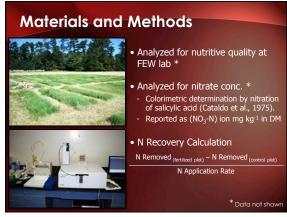
Treatments Compared											
10.000	Application Rate at:										
N Source	Apps	Green up	After H1	After H2	After H3	After H4	Total Rate				
EN THE LAND	(lb of actual N acre ⁻¹)										
AN	4	75	75	75	75	0	300				
Urea	4	75	75	75	75	0	300				
0% ESN	2	150	0	150	0	0	300				
50% ESN	2	150	0	150	0	0	300				
75% ESN	2	150	0	150	0	0	300				
100% ESN	2	150	0	150	0	0	300				
Check	0	0	0	0	0	0	0				



Effect of Polymer-Coated Urea on Bermudagrass Forage Production

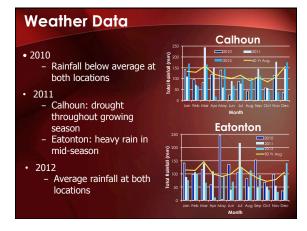












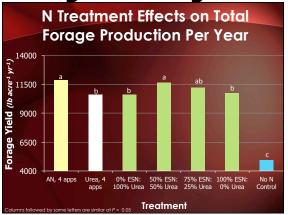
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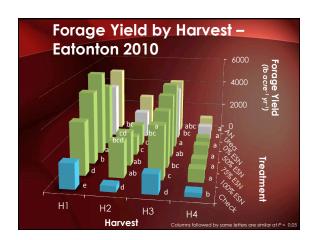


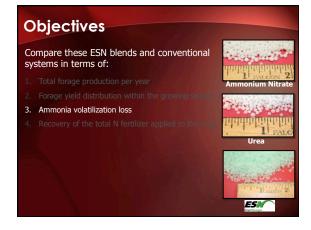
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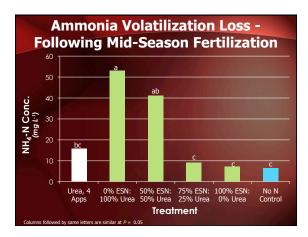












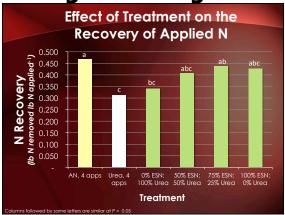
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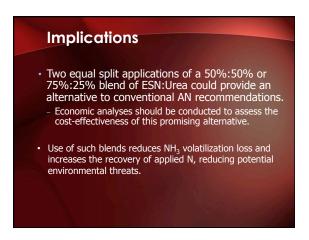
Effect of Polymer-Coated Urea on Bermudagrass Forage Production





Total yield of the 50 and 75% ESN blends were similar to that of AN. Throughout the growing season, 50 and 75% ESN blends achieved slow release of N without erratic forage distribution. ESN blends reduced the amount of ammonia volatilization/trapped.

ESN blend applications split twice per season recovered similar amounts of applied N as conventional AN, applied four times. The nutritive value of the ESN blends were generally similar to AN (data not shown). Nitrate levels in ESN blends of 50 and 75% were lower than AN (data not shown).



			В	as	ic (Cc	st	An	alys	is			
Trt.	lb N	lb as urea	\$ as urea	lb as ESN	\$ as ESN	trips	\$ trips	Total	Yield (lb/A/yr)	Forage Cost		net revenue	
100 Urea x 4	300	300	\$210	0	\$-	4	\$20	\$530	9461	0.0560	\$1,324.50	\$794.50	
100 Urea x 2	300	300	\$210	0	\$-	2	\$10	\$520	9483	0.0548	\$1,327.63	\$807.63	
50 Urea: 50 ESN	300	150	\$105	150	\$115.50	2	\$10	\$530.50	10426	0.0509	\$1,459.63	\$929.13	
25 Urea: 75 ESN	300	225	\$157	75	\$57.75	2	\$10	\$525.25	10035	0.0523	\$1,404.88	\$879.63	
100 ESN	300	0	\$-	300	\$231	2	\$10	\$541	9606	0.0563	\$1,344.88	\$803.88	
Values Determined Assuming													
Urea Price: \$0.70/ lb N							Forage Cost: Total Cost / Yield						
ESN Price: \$0.77/ lb N						50 lb DM @ \$7/bale: \$0.14/ lb DM							
1 trip across the field: \$5						Forage Value: Yield x \$0.14/lb DM							
Total Cost: \$300 + fert \$ + trip \$							Net Revenue: Forage Value – Total Cost						

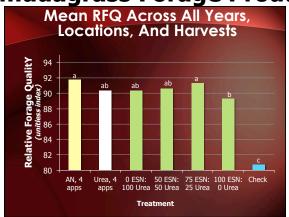
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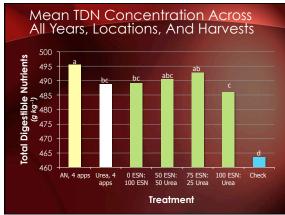


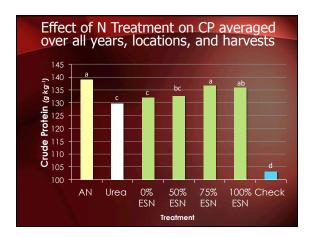


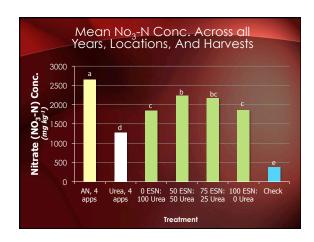
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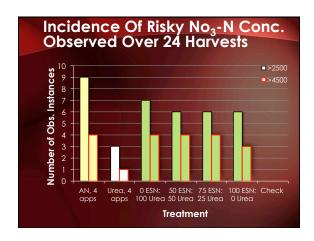












Katie Payne, Graduate Research Assistant

