



## ESN Demonstration

<b>Crop:</b>	Corn	<b>Producer:</b>	Keith Woolverton
<b>Location:</b>	Pollard	<b>GPS:</b>	36.45288, -90.28466
<b>Soil Type:</b>	Falaya Silt Loam	<b>Row Width:</b>	30 inches (1200 feet long)
<b>Previous Crop:</b>	Soybean	<b>Planting Rate:</b>	34,000
<b>Planting Date:</b>	4/12/2017	<b>Harvest Date:</b>	9/15/17
<b>Irrigation:</b>	Furrow		
<b>Variety</b>	DEKALB DKC66-87		

Pesticide Rate per Acre and Product	Fertilizer (N-P-K-S-Zn)	
Dual 1.5 pt., Atrazine 2.5 lb., Glyphosate 25 oz	Pre	39-83-108-24-0
	Sidedress	34-0-0-12-0
	Sidedress	42 gallons 32%

Treatment	Yield (Bu/Acre) <sup>1</sup>	% Moisture at Harvest	Test Weight	Total N
Standard Practice	244.50	17	56.8	221.6
ESN (180 units ppi)	233.12	17	56.0	252.5
ESN (66 units ppi fb 32%)	227.93	17	56.6	251.5
ESN (136 units ppi fb pre tassel)	246.42	17	56.8	254.9

<sup>1</sup> Yield adjusted to 15.5% moisture

<b>Notes:</b>	<p>Treatment 1 Standard Practice = 39 units N preplant incorporated. 50 lbs urea + 50 lbs Ammonium Sulfate sidedress (V4- V6) followed by 42 gallons of 32% (V4-V6)</p> <p>Treatment 2 ESN=66 units ESN preplant incorporated fb 32 gallons of 32% sidedress</p> <p>Treatment 3 ESN=180 units preplant incorporated</p> <p>Treatment 4 ESN=136 units preplant incorporated fb 46 units of N pre tassel</p>
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**Moisture, Test Weight and Adjusted Yield of each Replication**

Treatment	Replication	Moisture	Test Weight Lbs/bu	Adjusted Yield <sup>1</sup> Bu/ac
1	1	17%	56.8	244.5
2	1	16.6%	56.8	226.15
3	1	17%	58.4	230.79
4	1	16.9%	56.8	246.37
2	2	17.5%	56.5	229.72
3	2	17.5%	53.7	235.44
4	2	17.4%	56.6	246.47

### Average Yield of Treatments

Treatment	Average Adjusted Yield Bu/ac	Total N Applied lb/ac
1	244.5	221.6
2	227.9	251.5
3	233.1	252.5
4	246.4	254.9

