

## WIU/Allison Organic Research Farm (2015 Oat Yields Summary)

Field #	Rep	Treatment ID #	Grain Weight (lbs)	Test Weight (lbs)	% Moisture	Plot Length (ft.)	Area (acre)	Yield (Bu/A)
2BW	1	Control	580	N/A	14.5	491	0.23	79.9
2BW	1	C Nitrate*	634	N/A	15	491	0.23	86.9
2BW	2	Control	542	30.6	14.8	491	0.23	74.4
2BW	2	C Nitrate*	634	31.3	16	491	0.23	85.8
2A	1	N/A	2,478	31.8	15.8	905.5	0.80	94.7
1A	1	N/A	3,134	33.0	13	1,193	1.05	94.0

	Average Yield
Control	77.2
C Nitrate*	86.4
<i>Difference</i>	9.2 bu

Only 2 reps, so no statistics

Results presented above are for test plots based on weigh wagon weights

### Notes:

#### Field 1A

Shelby 427 drilled 3/30/15 @ (131 lbs/A) into soybean stubble  
 JD 8200 10' conventional drill w/ 7" row spacing  
 No fertilizer or litter was applied, minimal lodging  
 Moderate to thick infestation of field pennycress, very few other weeds  
 Harvested 7/24/15 with a IH 1666 Axial Flow Combine with 20' head

#### Field 2A

Shelby 427 drilled 3/30/15 @ (64 lbs/A) & (109 lbs/A) into soybean stubble  
 JD 8200 10' conventional drill w/ 7" row spacing  
 Turkey litter was applied on 40' swaths with a Chandler litter spreader (~2,200 lbs/A) on 4/1/2015  
 Heavy but non-uniform infestation with broadleaf weeds (lambquarters, smartweed, waterhemp...)  
 Weeds were thickest in middle of litter swaths, lodging was also most severe in these areas  
 Harvested 7/24/15 with a IH 1666 Axial Flow Combine with 20' head

#### Field 2B-west

Shelby 427 drilled 3/31/15 @ (94 lbs/A) into corn stalks  
 JD 8200 10' conventional drill w/ 7" row spacing  
 \*Allganic Nitrogen (16-0-0) (Chilean nitrate fertilizer) applied to 2 x 40' wide plots while planting (77 lbs/A) using the drill's small seed box  
 Turkey litter (fertilizer) applied 4/1/15 @ (950 lbs/A) with a Chandler litter spreader across all plots  
 High, relatively uniform weed pressure (less than field 2A), minimal lodging  
 Harvested 7/24/15 with a IH 1666 Axial Flow Combine with 20' grain head

Turkey litter analysis and application rates			
manure results		Field 2A	Field 2B-west
Total N =	3.1%*	68 lbs/A*	29 lbs/A*
Total P=	4.10%	90 lbs/A	39 lbs/A
Total K=	3.10%	68 lbs/A	29 lbs/A

\*not all available first year

Total oats harvested for all fields 53,920 lbs = 1,667 bu* *Plus about 15 bushels of purged oats.
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