

# 2011 MSU Agricultural Expo Demonstration Plot

## 46-0-0 vs. Biosolids



<b>Crop:</b> Oats <b>Variety:</b> Ida PVP94 <b>Planting Date:</b> May 5, 2011 <b>Seeding Rate:</b> 4 Bu./Acre <b>Yield Goal:</b> 80 bu/acre <b>Harvest Date:</b> July 21, 2011	
<b>Fertilizer Plot</b>	<b>Biosolids Plot</b>
<b>Soil Test Results</b> Bray P1: 124 lbs/acre Potassium: 284 lbs/acre Calcium: 5340 lbs/acre Magnesium: 426 lbs/acre Zinc: 8.7 ppm Manganese: 70.2 ppm pH: 7.8 CEC: 15.5 meq/100g Organic Matter: 4.9%	<b>Soil Test Results</b> Bray P1: 166 lbs/acre Potassium: 274 lbs/acre Calcium: 5860 lbs/acre Magnesium: 432 lbs/acre Zinc: 17.7 ppm Manganese: 73.0 ppm pH: 7.9 CEC: 16.8 meq/100g Organic Matter: 6.0%
<b>Fertilizer (46-0-0)</b> Date Applied: May 4, 2011 Rate: 65 lbs/acre <u>PAN<sup>2</sup> applied: 30 lbs/acre</u>	<b>Biosolids<sup>1</sup></b> Date Applied: May 4, 2011 Rate: 2.24 Dry Tons/Acre <u>PAN<sup>2</sup> applied: 30 lbs/acre</u>
<b>Yield: 41 bu/acre</b>	<b>Yield: 43 bu/acre</b>
<b>Moisture: 12.9%</b>	<b>Moisture: 9.4%</b>
<b>Test Weight: 26.8 lbs/bushel</b>	<b>Test Weight: 28.51 lbs/bushel</b>

<sup>1</sup> Source: Delta Township Wastewater Treatment Facility

<sup>2</sup> PAN = Plant Available Nitrogen