

# 2010 MSU Agricultural Expo Demonstration Plot

## 46-0-0 vs. Biosolids



<p><b>Crop:</b> Field Corn  <b>Variety:</b> Pioneer 38M60  <b>Planting Date:</b> May 4, 2010  <b>Planting Population:</b> 34,000  <b>Harvest Date:</b> September 23, 2010</p>	
<b>Fertilizer Plot</b>	<b>Biosolids Plot</b>
<p><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%</p>	<p><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%</p>
<p><b>Fertilizer (46-0-0)</b>                  Date Applied: May 4, 2010                  Rate: 360 lbs/acre  <u>PAN<sup>2</sup> applied: 165 lbs/acre</u></p>	<p><b>Biosolids<sup>1</sup></b>                  Date Applied: April 30, 2010                  Rate: 2.9 Dry Tons/Acre  <u>PAN<sup>2</sup> applied: 165 lbs/acre</u></p>
<b>Yield: 124 bushels/acre</b>	<b>Yield: 138 bushels/acre</b>
<b>Moisture: 16.8%</b>	<b>Moisture: 17.8%</b>
<b>Test Weight: 57 lbs/bushel</b>	<b>Test Weight: 57.7 lbs/bushel</b>

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

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