Effect of Tilt Fungicide on Wheat Yield

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Objective
To evaluate yield response of wheat to Tilt fungicide applied at wheat flag leaf emergence

Background
Crop Year: 2012
Location: OSU Unger Farm
County: Crawford
Soil Type: Blount (Silt Loam)
Drainage: Systematic
Previous Crop: Soybeans
Tillage: No-tillage
Soil Test: pH 6.8, P 23 ppm
K 124 ppm
Wheat Planting Date: Oct. 17. 2011
Wheat Variety: Marion
Fall Fertilizer: 18-46-60
Spring fertilizer: 78-0-0
Wheat Seeding Rate: 1.3 million seeds /acre
Wheat Harvest Date: June 26, 2012

Methods
Marion soft red winter wheat was planted Oct. 17, 2011 in 10 inch rows with a Great Plains drill (with coulter cart) at a rate of 1.3 million seeds per acre. This study used a randomized complete block design with two treatments replicated 4 times to compare the treatment yield effect of Tilt fungicide @ 4ozt/acre and a control. Plots were treated on April 18, 2013 when wheat was Feekes Growth Sage 8 (flagleaf emergence). Each plot was sprayed with a CO2 small plot sprayer calibrated to deliver 15 gallons per acre at 40 PSI. Plot size was 5 feet wide by 40 feet long. There were not any visible signs of wheat disease at the time of treatment. A small plot combine was used to harvest plots (5 by 40 feet) on June 26, 2012.

Treatments
1) Tilt applied at 4 ounces / acre
   2) Control

Results

Table 1. Moisture and Yield of Wheat (adjusted to 13.5% moisture)

<table>
<thead>
<tr>
<th>Treatment</th>
<th>Ave. Moisture</th>
<th>Ave. Yield (bu/A)</th>
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</thead>
<tbody>
<tr>
<td>Tilt @ 4 ounces</td>
<td>12.0</td>
<td>92</td>
</tr>
<tr>
<td>Control</td>
<td>11.9</td>
<td>97</td>
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F=9.0; P=.055, Not significant at P<.05, CV =3.0
Summary
There was not a significant difference in yield between wheat treated with Tilt fungicide at Feekes growth stage 8 (flagleaf emergence) and the control. Weather conditions were very dry during this stage of wheat growth in 2012.

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