

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	Soil Test:	pH 6.8, P 23 ppm
Location:	OSU Unger Farm		K 124 ppm
County:	Crawford	Wheat Planting Date:	Oct. 17, 2011
Soil Type:	Blount (Silt Loam)	Wheat Variety:	Marion
Drainage:	Systematic	Row width:	10 inches
Previous Crop:	Soybeans	Fall Fertilizer:	18-46-60
Tillage:	No-tillage	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)

Treatment	Ave. Moisture	Ave. Yield (bu/A)
Tilt @ 4 ounces	12.0	92
Control	11.9	97

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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