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Soybean Fungicide Demonstration at the Northwest Research Farm

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Abstract

Four different fungicide treatments were evaluated at the Northwest Research Farm in 2007. The fungicides were evaluated because of the threat of Asian soybean rust and the potential yield benefit that fungicides may provide without the presence of leaf disease. Each fungicide treatment was also evaluated in combination with Warrior insecticide. The Warrior insecticide was included because of the presence of soybean aphid.

Disciplines

Agricultural Science | Agriculture

Soybean Fungicide Demonstration at the Northwest Research Farm

Paul Kassel, extension field agronomist

Introduction

Four different fungicide treatments were evaluated at the Northwest Research Farm in 2007. The fungicides were evaluated because of the threat of Asian soybean rust and the potential yield benefit that fungicides may provide without the presence of leaf disease. Each fungicide treatment was also evaluated in combination with Warrior insecticide. The Warrior insecticide was included because of the presence of soybean aphid.

Materials and Methods

Treatments were applied July 27, 2007 to R3 and R4 (beginning pod stage to full pod stage) soybeans. Treatments were applied with flat fan nozzles, 20 gallons/acre of carrier volume and at 40 psi pressure. There were 200 soybean aphids/plant on July 27. No further soybean aphid counts were taken.

Results and Discussion

There were very low levels of leaf disease in this plot. Some brown spot and bacterial blight were present, but at very low levels. Observations in late September showed that the Warrior treated plots were delayed in their maturity by two to three days.

The average of the four fungicide treatments was 44.2 bushels/acre compared with the check yield of 41.6 bushels/acre. The average of the fungicide plus Warrior treatments was 57.0 bushels/acre compared with the Warrior alone treatment of 56.1 bushels/acre. The Warrior

treatment produced similar yield results whether alone or in combination with the fungicide treatments. Therefore, this trial showed little benefit from the fungicide treatments and a sizeable benefit from controlling soybean aphids with Warrior insecticide.

Acknowledgements

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Table 1. 2007 yields of soybeans treated with fungicide and insecticide.

Variety	Warrior	Replications			Avg.
		I	II	III	
----bushels/acre@13%----					
Headline,	No	43.8	48.7	46.6	46.4
6.0 oz/a	Yes	57.3	54.4	53.8	55.2
Stratego,	No	48.3	42.3	47.4	46.0
7.0 oz/a	Yes	59.6	56.9	56.4	57.6
Quilt,	No	41.5	38.7	43.7	41.3
14.0 oz/a	Yes	58.5	61.1	57.8	59.1
Caramba,	No	43.9	41.1	44.1	43.0
8.2 oz/a	Yes	55.6	62.4	50.7	56.2
Warrior,	--	56.3	54.3	57.8	56.1
2.5 oz/a					
Untreated check	--	42.6	39.9	42.4	41.6