

# Field Trial Report

## 2010 Fungicide and Insecticide Evaluation: Combined Results



**Conducted by:** Del Voight, Greg Roth

**County Locations:** Lancaster, Lebanon, York, Franklin, Fayette, Berks

**Collaborators:** Glenn Krall, Bill Beam, Bob Dorazio, Dan Wolf, Leslie Bowman, Ralph Mc Neal

**Research Objective:** To assess the impact of fungicide and insecticide applications on soybean yield.

**Background:** Yield responses to fungicides and soybeans have been variable. The objective of these studies was to document responses under Pennsylvania conditions.

**Study Description:**

Replicated strip trials were utilized to evaluate the products under production conditions. Fields were planted and managed by the cooperators. Four treatments were evaluated in this study containing either BASF or Syngenta products.

Syngenta

- 2. Endigo 3.5 oz./acre R3 timing
- 3. Quadris 6.2 oz. /acre + NIS .25% v/v R 3 timing
- 4. Endigo 3.5 oz./acre + Quadris 6.2 oz./acre + NIS .25% v/v

BASF

- 2. Respect 4 ounce/acre BASF
- 3. Headline 6 ounce/acre
- 4. Headline 6 oz/a +Respect 4 oz/a

**RESULTS**

Yield responses to fungicide and insecticide applications in 2010 were small, probably due to the lack of aphid pressure at all locations and also due to the lack of disease development at most locations. Our typical average response to a fungicide in other trials has been 3-4 bu/acre. Insecticide responses have varied depending on insect pressure from 0-10 bu/acre.

Treatment	Bradford	Fayette	Franklin	Lancaster	Lebanon	York	Mean
				Bu/ac			
Control	71	56	44	-	67	56	59
Insecticide	72	56	45	80	69	62	61
Fungicide	75	53	45	84	67	61	60
Insect/Fung.	74	56	45	86	68	64*	61
Mean	73	55	45	84	68	61	60
Significant	NS	NS	NS	NS	NS	*	NS

\*Significant Difference (P=0.05) from check