

## Influence of In-Furrow Insecticide Combinations on Cotton Yield

Eugene Burris

Northeast Research Station/St. Joseph Location

2006

**Methods:** Stoneville 5599 BR cotton seed were planted on a Commerce silt loam soil on 2 Jun. Plot size was four rows (40 inch centers) by 50 feet. Treatments were replicated four times in a randomized complete block design. Granular in-furrow insecticide treatments (Temik 15G 0.5 lb AI/acre) were applied with the granular pesticide applicators on a John Deere 1700 row crop planter on 2 Jun. In-furrow spray treatments (Orthene 90S 1.0 lb AI/acre) were applied with a CO<sub>2</sub> charged spray system attached to the planter calibrated to deliver 5 gpa through TeeJet 2502 flat fan nozzles (1/row) into the open seed furrow. The center two rows of each plot were mechanically harvested using a spindle type harvester on 10 Oct. Yields were converted to lb seedcotton/acre.

**Comments:** No significant interaction between in-furrow granular treatments and in-furrow spray treatments for seedcotton yield. Also, no significant differences among in-furrow granular treatments or in-furrow spray treatments were observed for seedcotton yield.

Table 1. Influence of in-furrow insecticide combinations on seedcotton yield.

In-Furrow Granular Treatment	In-Furrow Spray Treatment	Seedcotton Yield (lb/acre)
Non-Treated	Non-Treated	2,714
Non-Treated G	Orthene 90S	2,716
Temik 15G	Non-Treated	3,038
Temik 15G	Orthene 90S	2,725
<i>P&gt;F</i>		0.49

Means within columns followed by a common letter are not significantly different (FPLSD, P=0.05).

Table 2. Main effects of in-furrow insecticides on seedcotton yield.

	Seedcotton Yield (lb/acre)
In-Furrow Granular Treatment	
Temik 15G	2,882
Non-Treated	2,715
<i>P&gt;F</i>	0.30
In-Furrow Spray Treatment	
Orthene 90S	2,720
Non-Treated	2,876
<i>P&gt;F</i>	0.49

Means within columns followed by a common letter are not significantly different (FPLSD, P=0.05).