

SOYBEAN (*Glycine max*, 'NK X243RR')

R. P. Mulrooney, Extension Plant Pathologist
 Dept of Plant and Soil Sciences
 University of Delaware
 Newark, DE 19716-2170

Damping-off (*Pythium* sp., and *Rhizoctonia solani*)

Evaluation of seed treatments to improve stands of early planted soybean, 2003: Soybeans were planted early on April 22 in a loamy sand soil at the Research and Education Center near Georgetown, DE. The previous crop was soybeans and the field was planted with a Monosem air planter, set to plant 7.5 seeds /ft. Plots were four rows 20 ft long spaced 30 in. apart. Plots were arranged in a randomized complete block design with four replications. Stand counts were taken twice, June 3 (42 DAP) and at harvest October 16 by counting the number of plants from the center 10 feet from the two center rows of each plot. The center two rows of each plot were combine harvested on October 16 and yields adjusted to 13% moisture.

The weather was cool and wet, emergence was slow, and took place over a long period of time. The stand counts at both dates were not significantly different but Apron Maxx RFC FS 1.5 fl. oz + CGA301940 L 0.4 fl. oz was the lowest stand count at the early rating and was significantly lower in yield compared to the untreated control which may indicate some phytotoxicity. Yields were not increased significantly compared to the untreated control.

Treatment and rate product / cwt. seed	Stand counts		Yield (bu/A)
	Early 3 Jun	Harvest 16 Oct	
Untreated	57.2 NS*	93.0 NS	53.4 a**
Apron Maxx RTA ES 5.0 fl. oz.	85.7	103.7	42.6 ab
Apron Maxx RFC FS 1.5 fl. oz.	62.7	99.5	47.0 ab
Apron Maxx RFC FS 1.5 fl. oz + CGA301940 L 0.1 fl. oz	72.2	99.0	47.5 ab
Apron Maxx RFC FS 1.5 fl. oz + CGA301940 L 0.2 fl. oz	74.0	96.0	50.8 ab
Apron Maxx RFC FS 1.5 fl. oz + CGA301940 L 0.4 fl. oz	59.7	101.0	47.0 ab
Apron Maxx RFC FS 1.5 fl. oz + CGA301940 L 0.7 fl. oz	49.0	102.0	38.5 b
CGA301940 L 0.1 fl. oz	74.0	101.5	45.9 ab
CGA301940 L 0.2 fl. oz	71.0	102.7	47.4 ab
CGA301940 L 0.4 fl. oz	79.0	102.7	52.6 a
CGA301940 L 0.7 fl. oz	75.5	101.7	46.3 ab
Soyguard 35 WS 0.3 fl. oz	84.0	107.5	46.8 ab

* NS= Not significant

** Means followed by the same letter are not statistically different from each other (Fisher's Protected LSD, P=0.05).