

PERFORMANCE EVALUATION OF SOYBEAN CYST NEMATODE RESISTANT ROUND-UP READY SOYBEAN - 2007

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Eight cultivars were evaluated in 2007 for adaptation to Delaware growing conditions and resistance to race 1 of the soybean cyst nematode (SCN). Variety evaluations were conducted at the Research and Education Center near Georgetown in Sussex County. Plots were planted June 6 and followed a previous soybean crop. Plots consisted of five rows, 23 feet long, spaced 15 inches apart. The plots were arranged in a randomized, complete block design with four replications. SCN egg counts were determined by taking soil samples from the middle three rows of each replicate of each variety the day after planting, and taking a 250 cc sample for the sample for each replication. The field was disked before the final soil samples were taken. Those numbers are not included as well as the reproductive index as was intended. Nineteen feet of all five rows of each plot were combine- harvested November 29.

The season was normal at planting but the rest of the season was very hot and dry. Wet weather late in the season delayed harvesting. The site received some irrigation during the season.

Race1. Soybean Cyst Nematode RoundUp Ready Soybean Variety Performance Summary.
Research and Education Center, Sussex County, Georgetown, DE.2007.

Brand	Variety	Yield (bu/A)	Plant height (in.)	Lodging*	SCN egg counts at planting**	SCN Reaction
DeltaPine	J02-11990RR	59	36.4	1.0	1272	R 3,14
DeltaPine	J02-11943RR	52	29.6	1.0	4099	R 3,14
DeltaPine	DP 5634RR	45	32.2	1.0	6581	R 1,3,5
DeltaPine	07- 4950RR	37	27.0	1.0	5861	R 3,14
Unisouth	USG 75M16	36	28.4	1.0	2046	SUS
DeltaPine	DP 5915RR	29	27.4	1.0	4843	R 3,14
DeltaPine	DP 7330RR	21	24.8	1.0	3211	SUS
DeltaPine	DP 6568RR	21	21.6	1.0	4375	R 3,14
DeltaPine	DP 5914RR	12	18.4	1.0	6830	R 3,14
	Average	34.6	27.3	1.0		
	LSD	6.8	1.8			
	%CV	15	5.1			

* Lodging score: 1= all plants erect, 9= all plants lodged

** number of eggs/ 0.5 pt (250 cc) of soil