

## Greenhouse Ratings for Resistance to Three Species of Root-knot Nematode and Soybean Cyst Nematode, 2005

Company or Brand Name	Variety	Root-knot nematode			Cyst nematode	
		Southern <sup>1</sup>	Peanut <sup>2</sup>	Javanese <sup>3</sup>	Race 3 <sup>4</sup>	Race 14 <sup>5</sup>
		----- rating <sup>6</sup> -----			---- reaction <sup>7</sup> ----	
AgSouth	AGS533RR	5.0	4.3	2.5	S	S
AgSouth	AGS568RR	1.5	4.5	4.0	R	R
AgSouth	AGS 751	1.3	5.0	4.8	S	S
AgSouth	AGS 758RR	1.0	1.5	1.0	R	S
AgSouth	AGS 825RR	1.0	5.0	4.3	R	S
AgSouth	AGS BoggsRR	1.0	2.8	1.0	R	S
AgSouth	Benning	1.0	3.6	1.0	R	S
AgSouth	Haskell	1.4	2.0	1.2	S	S
AgSouth	Prichard	1.2	4.4	3.6	R	R
AgSouth	Prichard RR	1.0	4.5	3.5	R	R
Asgrow	AG5905	5.0	5.0	5.0	R	R
Asgrow	AG6702	2.0	5.0	5.0	R	R/M
Asgrow	AG7601	5.0	5.0	5.0	S	S
DeKalb	H7242RR	1.0	5.0	3.0	R	S
DPL	DP5634RR	2.5	4.8	4.0	R	S
DPL	DP5915RR	5.0	5.0	4.0	R	R
DPL	DP6215RR	1.3	4.3	4.0	S	S
DPL	DP6880RR	4.5	5.0	5.0	S	S
DPL	DP7220RR	5.0	4.8	5.0	R	R
DPL	DP7870RR	5.0	5.0	5.0	S	S
DPL	DPX6568RR	4.5	4.5	5.0	R	R
DPL	DPXC00-73303RR	1.0	3.3	3.3	S	S
DynaGro	34J71	5.0	4.5	5.0	S	S
DynaGro	36N57	5.0	4.3	2.3	S	S
Garst	6333RR/N	1.3	4.3	4.8	R	S
Garst	6612RR/N	1.3	3.8	3.3	R	S
Hornbeck	HBK R5924	4.5	4.0	4.8	R	R
Hornbeck	S010689R	5.0	4.8	3.8	R	R
Hornbeck	S010816R	1.5	2.0	3.5	R	R
Hornbeck	S010825R	5.0	4.3	3.0	R	R
NARO	L-Star	1.5	5.0	5.0	S	S
NK	S76-L9	2.8	1.8	3.0	R	R
NK	X577R	1.0	5.0	4.8	R	R
Pioneer	95M81	2.0	4.8	4.3	S	S
Pioneer	96M60	3.0	4.5	4.3	S	S
Pioneer	97B52	5.0	5.0	5.0	R	R
Public Variety	Caviness	5.0	4.8	4.5	R	R
Public Variety	CavinessRR	5.0	4.8	5.0	R	R
Public Variety	Desha	5.0	5.0	5.0	S	S
Public Variety	Hutcheson	5.0	5.0	5.0	S	S
Public Variety	Kuell	1.0	4.5	3.3	R	R
Public Variety	Lonoke	5.0	2.0	1.5	R	R
Public Variety	Motte	2.5	3.0	2.8	R	S
Public Variety	Musen	2.5	4.8	2.8	M	R/M
Public Variety	N7001	5.0	5.0	5.0	S	S

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Public Variety	NC Raleigh	4.5	5.0	5.0	S	S
Public Variety	NC Roy	5.0	4.5	4.8	S	S
Public Variety	Ozarks	5.0	5.0	5.0	S	S
Public Variety	R97-1634	1.5	3.5	1.3	S	S
Public Variety	Santee	3.8	5.0	5.0	R	S
Public Variety	SC01-783	1.3	4.8	4.0	R	R
Public Variety	SC01-803	1.5	4.5	1.8	R	S
Public Variety	SC01-819	2.3	4.8	4.3	R	S
Public Variety	Stonewall	5.0	5.0	5.0	R	S
Public Variety	Tyrone	4.8	5.0	5.0	S	S
Public Variety	UA4805	5.0	2.5	2.0	S	S
Public Variety	UARK5896	5.0	4.5	3.8	R	S
SS	RT5450N	5.0	4.5	5.0	R	R
SS	RT5540N	5.0	5.0	4.5	R	R
SS	RT5651N	5.0	4.8	4.8	R	S
SS	RT5730N	5.0	4.0	2.8	R/M	S
SS	RT5930N	5.0	5.0	4.5	R	R
SS	RT5951N	5.0	4.3	5.0	R	R
SS	RT5999N	5.0	4.3	1.8	R	R
SS	RT6202N	5.0	5.0	5.0	R	R
SS	RT6451N	3.3	3.8	5.0	R	S
SS	RT6630N	5.0	4.3	4.8	R	R
SS	RT7355N	5.0	5.0	4.5	S	S
SS	RT7499N	4.0	5.0	3.8	S	S
Terral	TV56R12	5.0	3.8	2.8	R	R
Terral	TV56R45	5.0	5.0	4.8	R	R
UGA	G00-3209	1.0	3.5	3.3	R	S
UGA	G00-3213	2.0	1.3	2.5	R	S
UGA	G00-3322	1.0	2.0	1.0	R	S
UGA	G00-3364	1.0	1.8	1.8	R	S
UGA	G00-3880	1.0	2.8	1.3	R	S
UGA	G00-4071	1.0	3.0	4.8	R	R
UGA	G03-364	1.0	2.5	1.0	R	R
UGA	G03-695	1.0	4.5	3.3	R	S
UGA	G03-926	1.0	3.0	2.0	R	S
UGA	G03-952	1.0	4.0	2.3	R	S
UGA	G04-G2261	1.0	4.8	4.5	R	S
USG	620NRR	4.5	5.0	4.8	R	R
USG	7635nRR	4.8	3.0	1.3	R	S
USG	7732nRR	2.5	1.8	1.8	S	S
USG	7743nRR	1.0	4.8	5.0	R	R
USG	USG 7582nRR	5.0	4.8	4.3	R	R
Vigoro	V622NRR	5.0	5.0	4.8	R	R
Vigoro	V67N6RR	2.8	4.5	4.5	R	R
Vigoro	V71N4RR	5.0	5.0	5.0	S	S

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Vigoro	V74N4RR	3.5	4.5	5.0	R	R
Virginia Tech	Teejay	5.0	5.0	5.0	S	S
Woodruff	XI.59336	5.0	5.0	5.0	S	S
Woodruff	XI.61353	5.0	4.5	3.8	R	S
USDA	8GH61-1-1GPL	5.0	5.0	5.0	S	S
<u>CHECK VARIETIES</u>	Benning	1.0	3.6	1.0	R	S
	Boggs	1.0	2.5	1.3	R	S
	Bossier	5.0	3.5	4.5	S	S
	CNS	5.0	5.0	5.0	S	S
	Cook	2.5	4.3	3.3	S	S
	G93-9009	1.0	1.8	1.0	R	R
	G93-9106	1.0	1.0	1.0	R	R
	GaSoy 17	5.0	5.0	5.0	S	S
	Hagood	1.0	4.5	4.3	R	S
	Hartwig	1.5	4.8	3.0	R	R
	Haskell	1.4	2.0	1.2	S	S
	Prichard	1.2	4.4	3.6	R	R
	LSD (0.10)	0.6	0.8	0.8		

1. *Meloidogyne incognita*.

2. *Meloidogyne arenaria*.

3. *Meloidogyne javanica*.

4. The cyst indices on the differentials were: Peking = 0(-), Pickett = 0(-), PI88788 = 0(-), PI90763 = 0(-).

5. The cyst indices on the differentials were: Peking = 33(+), Pickett = 56(+), PI88788 = 8(-), PI90763 = 0(-).

6. Rating: 1(few galls) to 5 (many galls).

7. Reaction: R = Resistant (generally < 5 white females or cysts per plant).

S = Susceptible (generally > 5 white females or cysts per plant).

M = Mixed reaction.

Ratings for soybean cyst nematode and root-knot nematode provided by S. L. Finnerty, R. S. Hussey, G. B. Rowan, E. D. Wood, and H. R. Boerma.