

Greenhouse Ratings for Resistance to Three Species of Root-knot Nematode and Soybean Cyst Nematode, 2006

Company or Brand Name	Variety	Root-knot nematode			Cyst nematode	
		Southern ¹	Peanut ²	Javanese ³	Race 3 ⁴	Race 14 ⁵
		----- rating ⁶ -----			---- reaction ⁷ ----	
AgSouth	AGS 568 RR	1.3	4.5	5.0	R	R
AgSouth	AGS 758 RR	1.0	2.3	1.3	R	S
AgSouth	Boggs RR	1.0	2.8	1.0	R	S
AgSouth	Prichard RR	5.3	4.3	4.0	R	R
Asgrow	AG5702	5.0	3.5	1.8	R	R
Asgrow	AG5905	5.0	5.0	5.0	R	R
Asgrow	AG6301	2.0	5.0	5.0	S	S
Asgrow	AG6702	1.8	5.0	5.0	R	R/M
Asgrow	AG7601	4.8	4.8	4.5	S	S
DPL	DP 5115 RR/S	4.8	5.0	5.0	S	S
DPL	DP 5634 RR	2.5	4.5	4.5	R	S
DPL	DP 5915 RR	5.0	4.3	4.5	R	R/M
DPL	DP 6568 RR	3.0	4.3	5.0	R	R
DPL	DP 6880 RR	2.0	4.8	4.5	S	S
DPL	DP 7220 RR	5.0	5.0	5.0	R	R
DPL	DP7330RR	1.0	5.0	4.5	S	S
DPL	DP 7870 RR	5.0	4.8	5.0	S	S
DPL	DPX5914RR	5.0	4.5	5.0	R	R/M
DeKalb	DKB64-51	1.5	2.8	4.0	R	S
DeKalb	H7242RR	1.0	4.8	3.8	R	S
Hornbeck	HBK R4924	4.5	5.0	4.0	R	R/M
Hornbeck	HBK R5924	4.8	4.5	4.8	R	R
NK	S68-D4	1.0	4.8	3.8	R	R/M
NK	S78-G6	2.3	3.8	4.8	R	R/M
NK	S80-P2	3.5	4.5	4.5	R	S
Pioneer	96M60	2.8	4.0	4.8	S	S
Pioneer	97B52	4.8	4.8	5.0	R	R
Pioneer	P97M50	1.0	4.8	4.0	R	S
Public Variety	Caviness	5.0	4.8	4.8	R	R
Public Variety	Fowler	5.0	4.5	5.0	R	R
Plantation Seed	495RC	5.0	4.3	3.3	R	R
Public Variety	Hutcheson	5.0	4.8	5.0	S	S
Public Variety	Kuell	1.0	3.8	3.8	R	R
Public Variety	Motte	2.5	3.0	3.0	R	S
Public Variety	Musen	2.5	4.5	3.5	R	S
Public Variety	NC Raleigh	4.8	5.0	5.0	S	S
Public Variety	NC Roy	5.0	4.3	5.0	S	S
Public Variety	Ozark	5.0	5.0	5.0	S	S
Public Variety	Santee	4.0	4.8	5.0	R	S
Public Variety	SC01-796	1.5	4.3	4.5	R	S
Public Variety	SC01-803	2.0	4.5	5.0	R	S
Public Variety	SC01-819	2.3	4.3	4.5	R	S
Public Variety	Stonewall	5.0	5.0	5.0	R	S
Public Variety	Teejay	5.0	5.0	5.0	S	S
Public Variety	UA 4805	5.0	3.5	2.8	S	S

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		----- rating ⁶ -----			---- reaction ⁷ ----	
Public Variety	UARK5896	5.0	4.8	5.0	R	S
Southern States	RT 5540N	5.0	4.3	4.5	R	R
Southern States	RT 5760N	3.3	3.5	1.5	R	R/M
Southern States	RT 5930N	5.0	5.0	4.8	R	R
Southern States	RT 5951N	4.8	4.3	5.0	R	R
Southern States	RT 5960N	2.5	4.8	3.0	R	R/M
Southern States	RT 6202N	5.0	4.8	3.8	R	R
Southern States	RT 6451N	1.0	4.0	5.0	R	S
Southern States	RT 6600N	3.8	4.8	5.0	R	R
Southern States	RT 7499N	3.5	4.8	4.5	S	S
Southern States	RT 7655N	5.0	4.8	4.8	S	S
Southern States	RT 7999N	3.3	4.5	5.0	R	R/M
Terral	TV55R15	3.5	4.8	4.8	S	S
Terral	TV57R16	4.0	3.5	4.8	S	S
Terral	TV59R16	5.0	5.0	4.8	S	S
UGA	G00-3209	1.0	4.5	3.8	R	S
UGA	G00-3213	1.0	2.5	2.0	R	S
UGA	G00-3364	1.0	2.0	1.3	R	S
UGA	G03-1668	1.0	3.3	4.8	R	S
UGA	G03-2148	1.0	2.8	1.5	R	S
UGA	G03-2282	1.3	2.3	1.8	R	S
UGA	G03-364	1.0	1.8	1.5	R	S
UGA	G03-680	1.0	2.8	3.3	R	S
UGA	G03-821	1.0	4.0	4.3	R	S
UGA	G03-825	1.0	2.5	4.3	R	S
UGA	G03-889	1.0	4.5	4.0	R	S
UGA	G03-899	1.0	3.8	3.8	R	S
UGA	G03-952	1.0	4.0	4.0	R	S
USG	620nRR	4.8	4.8	4.5	R	R
USG	7582nRR	4.5	4.8	5.0	R	R
USG	7635nRR	4.3	3.5	1.5	R	R
USG	7732nRR	2.0	1.8	2.3	S	S
USG	Allen	3.5	4.8	4.8	S	S
<u>CHECK VARIETIES</u>	Benning	1.0	3.8	1.0	R	S
	Boggs	1.0	2.3	1.0	R	S
	Bossier	5.0	4.3	4.0	S	S
	CNS	5.0	4.8	5.0	S	S
	Cook	2.3	4.0	2.0	S	S
	G93-9009	1.0	1.0	1.0	R	R
	G93-9106	1.0	1.0	1.5	R	R
	GaSoy 17	5.0	4.8	4.5	S	S
	Hagood	1.0	4.3	4.8	R	S
	Hartwig	1.8	4.3	3.8	R	R
	Haskell	2.0	2.0	2.5	S	S
	Prichard	1.3	4.3	3.8	R	R
	LSD (0.10)	0.8	0.9	0.8		

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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 = 32(+), Pickett = 44(+), PI88788 = 1(-), 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.