

Greenhouse Ratings for Resistance to Three Species of Root-knot Nematode and Soybean Cyst Nematode, 2009

Company or Brand Name	Variety	Root-knot nematode			Cyst nematode	
		Southern ¹	Peanut ²	Javanese ³	Race 3 ⁴	Race 9 ⁵
		----- rating ⁶ -----			---- reaction ⁷ ----	
AgSouth	AGS 568 RR	2.0	4.5	5.0	R	R
AgSouth	AGS 606RR	4.5	5.0	4.5	R	S
AgSouth	AGS 747RR	1.5	4.8	3.0	R	S
AgSouth	AGS 758 RR	1.0	2.3	1.5	R	S
AgSouth	AGS Prichard RR	1.0	5.0	3.8	R	R
AgSouth	AGS Woodruff	2.8	4.8	4.0	R	S
AR	R01-2346	1.5	3.0	1.8	S	S
AR	R01-327	5.0	4.5	5.0	R	R
AR	R03-1232	5.0	2.5	3.0	S	S
AR	R04-357	5.0	5.0	3.5	S	S
Asgrow	AG5905	5.0	5.0	5.0	R	R
Asgrow	AG6301	1.0	5.0	5.0	S	S
Asgrow	AG6702	3.8	4.8	4.8	R	R
Asgrow	AG7501	2.8	5.0	4.8	R	S
Asgrow	AG7502	1.3	4.8	4.8	S	S
Asgrow	H7242 RR	1.3	3.8	2.0	R	S
Asgrow	DP5915RR	4.8	5.0	4.3	R	R
Asgrow	DP7330RR	1.0	4.0	4.3	S	S
Asgrow	DP7870RR	5.0	4.8	5.0	S	S
AU	Au02-2814	1.8	4.8	3.5	S	S
DynaGro	32B57	1.8	5.0	3.3	R	R
DynaGro	33C59	5.0	4.8	4.8	R	S
DynaGro	33X55	2.3	5.0	5.0	R	R
DynaGro	35F55	4.5	5.0	5.0	S	S
DynaGro	35K73	5.0	5.0	4.5	S	S
DynaGro	SX09667	2.3	4.5	4.8	S	S
DynaGro	V622NRR	4.8	5.0	4.3	R	R
DynaGro	V76N9RR	4.8	3.5	5.0	R	R
NK	S61-Q2	1.8	4.8	4.5	R	R
NK	S74-W6	4.5	3.3	3.3	R	R
NK	S78-G6	1.5	4.5	4.8	R	R
NK	S80-P2	3.0	4.5	3.8	R	R
Pioneer	95Y20	1.3	3.8	5.0	R	R
Pioneer	95Y70	1.3	4.3	5.0	S	S
Pioneer	97M50	1.5	4.8	4.8	R	S
Progeny	P5622RR	5.0	5.0	5.0	R	R
Progeny	P5650RR	3.8	5.0	5.0	R	R
Progeny	P5706RR	4.5	5.0	5.0	R	R
Progeny	P6208RR	5.0	4.8	3.3	R	R
Progeny	P6708RR	4.0	4.0	4.5	R	S
Progeny	P7208RR	5.0	3.5	2.8	S	S
Public Variety	Desha	5.0	3.5	5.0	S	S
Public Variety	Motte	2.0	3.8	2.5	R	S
Public Variety	Musen	1.8	5.0	5.0	R	R
Public Variety	NC Raleigh	4.8	5.0	5.0	S	S

Greenhouse Ratings for Resistance to Three Species of Root-knot Nematode and Soybean Cyst Nematode, 2009 (Continued)

Company or Brand Name	Variety	Root-knot nematode			Cyst nematode	
		Southern ¹	Peanut ²	Javanese ³	Race 3 ⁴	Race 9 ⁵
		----- rating ⁶ -----			---- reaction ⁷ ----	
Public Variety	NC Roy	4.8	4.8	5.0	S	S
Public Variety	OSAGE	5.0	4.5	1.5	S	S
Public	Santee	2.8	5.0	5.0	R	S
SC	SC02-011	4.8	5.0	4.8	R	S
SC	SC02-200	1.3	5.0	4.5	R	S
Schillinger	5440.R	4.8	4.3	5.0	R	S
Schillinger	557.RC	2.8	3.8	2.5	R	R
Southern States	LL 511 N	5.0	4.0	3.8	S	S
Southern States	LL 595 N	5.0	5.0	3.3	S	S
Southern States	RT 5160 N	4.8	5.0	4.8	R	R
Southern States	RT 5471 N	5.0	5.0	4.0	R	R
Southern States	RT 5760 N	3.0	3.3	2.0	R	R
Southern States	RT 5930 N	5.0	5.0	5.0	R	R
Southern States	RT 5951 N	5.0	5.0	5.0	R	R
Southern States	RT 5960 N	2.3	4.0	2.8	R	R
Southern States	RT 6207 N	4.3	5.0	5.0	R	R
Southern States	RT 6451 N	1.5	4.8	4.5	R	S
Southern States	RT 6988 N	5.0	3.3	1.8	S	S
Southern States	RT 7270 N	5.0	5.0	3.5	R	S
Southern States	RT 7999 N	1.3	5.0	4.8	R	R
Terral	TV47R18	4.3	2.5	4.8	S	S
Terral	TV49R17	5.0	3.8	4.8	S	S
Terral	TV49R19	5.0	4.8	5.0	S	S
Terral	TV54R28	3.0	4.5	5.0	S	S
Terral	TV55R15	3.3	4.8	5.0	S	S
UGA	G03-1187RR	1.3	1.5	1.0	R	S
UGA	G04-1618 RR	1.3	3.8	4.8	R	R
UGA	G04-2215 RR	1.0	4.8	3.5	R	S
UGA	G04-2414 RR	1.0	4.5	3.5	R	S
UGA	G04-3248 RR	1.5	2.5	2.5	R	S
UGA	G05-1102 RR	1.0	2.3	2.5	R	S
UGA	G05-1200 RR	1.3	3.3	3.8	R	S
UGA	G05-1209 RR	1.0	2.5	2.3	R	S
UGA	G05-1481 RR	1.0	3.5	5.0	R	S
UGA	G05-2324 RR	1.0	3.8	2.0	R	S
UGA	G05-2468 RR	1.3	3.3	4.5	R	R
UGA	G05-2505 RR	1.8	3.3	3.5	R	S
UGA	G05-3758 RR	1.0	4.0	5.0	R	R
UGA	G05-4237 RR	1.3	3.0	4.3	R	R
UGA	G07PR-443	1.8	2.0	1.3	S	S
UGA	G-Has(4)PHY-1	1.5	3.5	1.3	S	S
US Seeds	HALO 4:94	5.0	4.3	2.0	S	S
US Seeds	HALO 5:65	5.0	5.0	4.8	S	S
US Seeds	HALO 4:65	5.0	5.0	2.8	R	R
US Seeds	HALO 5:25	5.0	2.8	3.5	R	S

Greenhouse Ratings for Resistance to Three Species of Root-knot Nematode and Soybean Cyst Nematode, 2009 (Continued)

Company or Brand Name	Variety	Root-knot nematode			Cyst nematode	
		Southern ¹	Peanut ²	Javanese ³	Race 3 ⁴	Race 9 ⁵
		----- rating ⁶ -----			---- reaction ⁷ ----	
USG	620nRR	4.8	5.0	5.0	R	R
USG	75Z98	4.8	4.5	5.0	S	S
USG	7635nRR	2.5	3.5	1.3	R	R
USG	76S17	5.0	4.8	5.0	R	R
USG	76S79	2.3	4.5	2.8	S	S
USG	7732nRR	1.5	1.8	2.0	S	S
USG	77S09	5.0	4.3	2.5	S	S
USG	77U28	5.0	2.5	1.5	S	S
USG	Allen	3.0	4.8	5.0	S	S
<u>CHECK VARIETIES</u>						
	AGS Benning	1.0	3.3	2.0	R	S
	Boggs	1.0	2.5	1.0	R	S
	Bossier	5.0	3.8	2.8	S	S
	CNS	5.0	5.0	5.0	S	S
	Cook	3.3	4.8	4.8	S	S
	G93-9009	1.0	1.0	1.0	R	R
	G93-9106	1.0	1.0	1.0	R	R
	GaSoy17	5.0	5.0	5.0	S	S
	Hagood	1.5	4.8	4.8	R	S
	Hartwig	1.8	4.5	3.5	R	R
	Haskell	1.8	2.5	2.3	S	S
	Prichard	1.0	4.8	4.5	R	R
	LSD (0.10)	0.7	0.6	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 = 66(+), Pickett = 70(+), PI88788 = 0(-), PI90763 = 1(-).

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

7. Reaction: R = Resistant (generally < 3 white females or cysts per plant).

S = Susceptible (generally ≥ 3 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.E. Bishop, E.D. Wood, and H.R. Boerma.