ROTATION CROP CULTIVARS RESISTANT OR HIGHLY RESISTANT TO TWO SPECIES OF ROOT-KNOT NEMATODES (*Meloidogyne incognita* and *M. javanica*) June 2022

Prepared by J. Cobon, W. O'Neill and T. Shuey. DAF, Ecosciences Precinct, Brisbane

Queensland Government

Resistance categories applied according to reproduction factors

Reproduction factor	Resistance Rating
> 100	Highly Susceptible (HS)
10 - 100	Moderately Susceptible (MS)
1 - < 10	Slightly Susceptible (SS)
0.1 - < 1	**Resistant (R)**
< 0.1	**Highly Resistant (HR)**

Cudgen fields are predominately *M. incognita*, while fields in Bundaberg and Rockhampton are predominately *M. javanica*, but the best advice is to use a rotation crop that is resistant or highly resistant to both species of *Meloidogyne.*

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Common name	**Species**	**Cultivar**	**Species of *Meloidogyne***	
			M. incognita	***M. javanica***
Brassica/Radish	*Raphanus sativus*	Black Jack	**Highly resistant**	Moderately susceptible
Brassica/Radish	*Raphanus sativus*	Terranova	**Resistant**	Moderately susceptible
butterfly pea	*Clitoria ternatea*		**Resistant**	Slightly susceptible
carpet grass, narrowleaf	*Axonopus fissifolius*		Moderately susceptible	**Resistant**
groundnut, peanut	*Arachis hypogaea*	Alloway	**Highly resistant**	**Highly resistant**
groundnut, peanut	*Arachis hypogaea*	A237	**Highly resistant**	**Highly resistant**
groundnut, peanut	*Arachis hypogaea*	Holt	**Highly resistant**	**Highly resistant**
groundnut, peanut	*Arachis hypogaea*	Kairi	**Highly resistant**	**Highly resistant**
groundnut, peanut	*Arachis hypogaea*	P85	**Resistant**	**Highly resistant**
groundnut, peanut	*Arachis hypogaea*	Wheller	**Highly resistant**	**Highly resistant**
maize	*Zea mays*	Monsoon8	Highly susceptible	**Resistant**
oats	*Avena sativa*	Algerian	**Resistant**	Slightly susceptible
oats	*Avena sativa*	Austin	**Highly resistant**	Slightly susceptible
oats	*Avena sativa*	Carrolup	**Resistant**	Slightly susceptible
oats	*Avena sativa*	Comet	**Resistant**	Slightly susceptible
oats	*Avena sativa*	Eurrabbie	**Resistant**	Slightly susceptible
oats	*Avena sativa*	Swan	**Highly resistant**	**Highly resistant**
oats	*Avena sativa*	Williams	**Resistant**	**Highly resistant**
oats	*Avena strigosa*	Saia	Moderately susceptible	**Resistant**
pigeon pea	*Cajanus cajan*		**Highly resistant**	**Resistant**
sabi grass	*Urochloa mosambicensis*		**Resistant**	**Highly resistant**
signal grass	*Urochloa decumbens*		**Highly resistant**	**Resistant**
sorghum	*Sorghum* spp.	BMR Octane	Slightly susceptible	Moderately susceptible

sorghum	*Sorghum* spp.	BMR Rocket	Moderately susceptible	**Resistant**
sorghum	*Sorghum* spp.	Dyna Dan	**Resistant**	Slightly susceptible
sorghum	*Sorghum* spp.	Dyna Powa	**Resistant**	**Resistant**
sorghum	*Sorghum* spp.	Jumbo	**Highly resistant**	**Highly resistant**
sorghum	*Sorghum* spp.	Lush	Slightly susceptible	**Highly resistant**
sorghum	*Sorghum* spp.	Scavenger	Moderately susceptible	**Resistant**
sorghum	*Sorghum* spp.	Sweet Jumbo LPA	**Resistant**	**Resistant**
soybean	*Glycine max*	A6785	**Resistant**	Moderately susceptible
soybean	*Glycine max*	Fernside	Slightly susceptible	**Resistant**
soybean	*Glycine max*	Kuranda HB1	**Highly resistant**	Moderately susceptible
soybean	*Glycine max*	T013 - 5	Slightly susceptible	**Resistant**
sunn hemp	*Crotolaria juncea*		**Resistant**	**Resistant**
sweet smother grass	*Dactyloctenium australe*		**Highly resistant**	**Highly resistant**