

**UPDATED SUMMARY OF RESISTANCE / SUSCEPTIBILITY OF ROTATION CROP CULTIVARS 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



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 <i>Meloidogyne</i>	
			<i>M. incognita</i>	<i>M. javanica</i>
Barley	<i>Hordeum vulgare</i>	Dictator	Moderately susceptible	Moderately susceptible
Barley	<i>Hordeum vulgare</i>	Harpoon	Moderately susceptible	Moderately susceptible
Barley	<i>Hordeum vulgare</i>	Moby	Moderately susceptible	Moderately susceptible
Barley	<i>Hordeum vulgare</i>	Shepherd	Moderately susceptible	Moderately susceptible
Brassica/Radish	<i>Sinapis alba</i> (White mustard)/ <i>Raphanus sativus</i> (Doublet oilseed radish)	Biofum	Moderately susceptible	Moderately susceptible
Brassica	<i>Brassica nigra</i>	black		Moderately susceptible
Brassica/Radish	<i>Raphanus sativus</i>	Black Jack	Highly resistant	Moderately susceptible
Brassica/Radish	<i>Brassica nigra</i> (Black mustard)/ <i>Brassica carinata</i> (Ethiopian mustard (cv. Cappuccino))	BQ Mulch	Moderately susceptible	Moderately susceptible
Brassica/Radish	<i>Brassica juncea</i>	Caliente	Moderately susceptible	Highly susceptible
Brassica/Radish	<i>Brassica carinata</i>	Cappuccino	Moderately susceptible	Moderately susceptible
Brassica/Radish	<i>Brassica carinata</i> (Ethiopian mustard (cv. Cappuccino))/ <i>Raphanus sativus</i> (Terranova oilseed radish)	FungiSol	Slightly susceptible	Moderately susceptible
Brassica/Radish	<i>Brassica juncea</i>	Mustclean	Highly susceptible	Highly susceptible
Brassica/Radish	<i>Raphanus sativus</i> (Terranova radish)/ <i>Eruca sativa</i> (Nemat)	Nemasol	Slightly susceptible	Moderately susceptible
Brassica/Radish	<i>Eruca sativa</i>	Nemat	Slightly susceptible	Slightly susceptible
Brassica/Radish	<i>Brassica napus</i>	Nemclear	Highly susceptible	Highly susceptible
Brassica/Radish	<i>Brassica napus</i>	Nemcon	Moderately susceptible	Highly susceptible
Brassica/Radish	<i>Raphanus sativus</i>	Terranova	Resistant	Moderately susceptible
Brassica/Radish	<i>Raphanus sativus</i>	Tillage Radish	Moderately susceptible	Moderately susceptible
buckwheat	<i>Fagopyrum esculentum</i>		Moderately susceptible	Highly susceptible
burgundy bean	<i>Macroptilium bracteatum</i>		Highly susceptible	Highly susceptible
butterfly pea	<i>Clitoria ternatea</i>		Resistant	Slightly susceptible
carpet grass, narrowleaf	<i>Axonopus fissifolius</i>		Moderately susceptible	Resistant

clover, crimson			Highly susceptible	Highly susceptible
Couch, green	<i>Cynodon dactylon</i>		Slightly susceptible	Slightly susceptible
cowpea	<i>Vigna unguiculata</i>	Caloona	Slightly susceptible	Highly susceptible
cowpea	<i>Vigna unguiculata</i>	Ebony	Moderately susceptible	Highly susceptible
cowpea	<i>Vigna unguiculata</i>	Red Caloona	Slightly susceptible	Highly susceptible
chicory	<i>Cichorium intybus</i>	Commander	Moderately susceptible	Highly susceptible
groundnut, peanut	<i>Arachis hypogaea</i>	Alloway	Highly resistant	Highly resistant
groundnut, peanut	<i>Arachis hypogaea</i>	A237	Highly resistant	Highly resistant
groundnut, peanut	<i>Arachis hypogaea</i>	Holt	Highly resistant	Highly resistant
groundnut, peanut	<i>Arachis hypogaea</i>	Kairi	Highly resistant	Highly resistant
groundnut, peanut	<i>Arachis hypogaea</i>	P85	Resistant	Highly resistant
groundnut, peanut	<i>Arachis hypogaea</i>	Wheller	Highly resistant	Highly resistant
lucerne	<i>Medicago sativa</i>	Alfacut	Moderately susceptible	Highly susceptible
lupins	<i>Lupinus albus</i>	Luxor	Moderately susceptible	Highly susceptible
maize	<i>Zea mays</i>	Monsoon8	Highly susceptible	Resistant
medic, snail	<i>Medicago scutellata</i>		Highly susceptible	Moderately susceptible
millet	<i>Echinochloa esculenta</i>	Japanese	Moderately susceptible	Moderately susceptible
millet	<i>Echinochloa esculenta</i>	Shirohie	Moderately susceptible	Moderately susceptible
millet	<i>Panicum miliaceum</i>	White French	Moderately susceptible	Moderately susceptible
millet	<i>Pennisetum glaucum</i>	Maxa millet	Moderately susceptible	Moderately susceptible
oats	<i>Avena sativa</i>	Algerian		Slightly susceptible
oats	<i>Avena sativa</i>	Austin	Highly resistant	Slightly susceptible
oats	<i>Avena sativa</i>	Bannister	Slightly susceptible	Moderately susceptible
oats	<i>Avena sativa</i>	Carrolup	Resistant	Slightly susceptible
oats	<i>Avena sativa</i>	Comet	Resistant	Slightly susceptible
oats	<i>Avena sativa</i>	Culgoa II	Moderately susceptible	Moderately susceptible
oats	<i>Avena sativa</i>	Euro	Moderately susceptible	Moderately susceptible
oats	<i>Avena sativa</i>	Eurrabbie	Resistant	Slightly susceptible
oats	<i>Avena sativa</i>	Genie	Slightly susceptible	Moderately susceptible
oats	<i>Avena sativa</i>	Kojonup	Moderately susceptible	Highly susceptible
oats	<i>Avena sativa</i>	Swan	Highly resistant	Highly resistant
oats	<i>Avena sativa</i>	Williams	Resistant	Highly resistant
oats	<i>Avena strigosa</i>	Saia	Moderately susceptible	Resistant

pigeon pea	<i>Cajanus cajan</i>		Highly resistant	Resistant
ryecorn	<i>Secale cereale</i>		Moderately susceptible	Highly susceptible
ryegrass	<i>Lolium rigidum</i>		Moderately susceptible	Moderately susceptible
sabi grass	<i>Urochloa mosambicensis</i>		Resistant	Highly resistant
signal grass	<i>Urochloa decumbens</i>		Highly resistant	Resistant
sorghum	<i>Sorghum</i> spp.	BMR Octane	Slightly susceptible	Moderately susceptible
sorghum	<i>Sorghum</i> spp.	BMR Rocket	Moderately susceptible	Resistant
sorghum	<i>Sorghum</i> spp.	Dyna Dan	Resistant	Slightly susceptible
sorghum	<i>Sorghum</i> spp.	Dyna Powa	Resistant	Resistant
sorghum	<i>Sorghum</i> spp.	Jumbo	Highly resistant	Highly resistant
sorghum	<i>Sorghum</i> spp.	Lush	Slightly susceptible	Highly resistant
sorghum	<i>Sorghum</i> spp.	Scavenger	Moderately susceptible	Resistant
sorghum	<i>Sorghum</i> spp.	Sprint	Moderately susceptible	Slightly susceptible
sorghum	<i>Sorghum</i> spp.	Sugargraze	Highly susceptible	Moderately susceptible
sorghum	<i>Sorghum</i> spp.	Sweet Jumbo LPA	Resistant	Resistant
sorghum	<i>Sorghum</i> spp.	Banker	Moderately susceptible	Slightly susceptible
sorghum	<i>Sorghum</i> spp.	Lantern	Highly susceptible	Moderately susceptible
sorghum, grain	<i>Sorghum</i> spp.	Mr 43	Moderately susceptible	Moderately susceptible
sorghum, grain	<i>Sorghum</i> spp.	Mr Buster	Moderately susceptible	Slightly susceptible
sorghum, grain	<i>Sorghum</i> spp.	Mr Taurus	Moderately susceptible	Slightly susceptible
soybean	<i>Glycine max</i>	A6785	Resistant	Moderately susceptible
soybean	<i>Glycine max</i>	Bunya	Moderately susceptible	Moderately susceptible
soybean	<i>Glycine max</i>	Fernside	Slightly susceptible	Resistant
soybean	<i>Glycine max</i>	Hayman	Moderately susceptible	Moderately susceptible
soybean	<i>Glycine max</i>	Kuranda HB1	Highly resistant	Moderately susceptible
soybean	<i>Glycine max</i>	Moonbie	Slightly susceptible	Moderately susceptible
soybean	<i>Glycine max</i>	Mossman	Slightly susceptible	Slightly susceptible
soybean	<i>Glycine max</i>	New Bunya	Highly susceptible	Moderately susceptible
soybean	<i>Glycine max</i>	Soy 791	Slightly susceptible	Moderately susceptible
soybean	<i>Glycine max</i>	Stuart	Slightly susceptible	Moderately susceptible
soybean	<i>Glycine max</i>	T013 - 3	Slightly susceptible	Slightly susceptible
soybean	<i>Glycine max</i>	T013 - 5	Slightly susceptible	Resistant
sunflower	<i>Helianthus annuus</i>	Greystripe	Highly susceptible	Highly susceptible

sunh hemp	<i>Crotolaria juncea</i>		Resistant	Resistant
sweetcorn	<i>Zea mays</i>	Acceleration	Highly susceptible	Moderately susceptible
sweetcorn	<i>Zea mays</i>	Inception	Highly susceptible	Highly susceptible
sweetcorn	<i>Zea mays</i>	Messenger	Highly susceptible	Highly susceptible
sweetcorn	<i>Zea mays</i>	SV1446SD	Highly susceptible	Highly susceptible
sweet smother grass	<i>Dactyloctenium australe</i>		Highly resistant	Highly resistant
triticale	<i>X Triticosecale</i>		Moderately susceptible	Moderately susceptible
triticale	<i>X Triticosecale</i>	Crackerjack2	Moderately susceptible	Moderately susceptible
vetch	<i>Vicia faba</i>	Popany	Moderately susceptible	Moderately susceptible
wheat	<i>Triticum aestivum</i>	Bennett	Slightly susceptible	Highly susceptible
wheat	<i>Triticum aestivum</i>	Brennan	Moderately susceptible	Moderately susceptible
wheat	<i>Triticum aestivum</i>	Elmore	Slightly susceptible	Moderately susceptible
wheat	<i>Triticum aestivum</i>	Illabo	Moderately susceptible	Moderately susceptible
wheat	<i>Triticum aestivum</i>	Naparoo	Moderately susceptible	Moderately susceptible
zoysia grass	<i>Zoysia tenuifolia</i>		Moderately susceptible	Moderately susceptible