

UPDATED SUMMARY OF RESISTANCE / SUSCEPTIBILITY OF ROTATION CROP CULTIVARS TO ROTYLENCHULUS RENIFORM (Reniform nematode) July 2022

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



Resistance to reniform nematode

Possible rotation crops can be distinguished into two groups.

Susceptible crops can support the development of *R. reniformis* populations, with a reproduction factor greater than 1.

The reproductive factors of *R. reniformis* in roots of **Resistant** crops were less than 1 indicating that the final populations densities of *R. reniformis* decreased. (Marwoto, B. 2010)

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Common name	Species	Cultivar	<i>Rotylenchulus reniformis</i>
maize	<i>Zea mays</i>	Monsoon 8	Resistant
millet	<i>Pennisetum glaucum</i>	Maxa	Resistant
peanut	<i>Arachis hypogaea</i>	Alloway	Resistant
Rhodes grass	<i>Chloris gayana</i>	Callide	Resistant
sorghum	<i>Sorghum</i> spp.	Jumbo	Resistant
soybean	<i>Glycine max</i>	A6785	Susceptible
sunn hemp	<i>Crotalaria juncea</i>	sunn hemp	Resistant
tomato	<i>Solanum lycopersicum</i>	Tiny Tim	Susceptible

Marwoto B. (2010) Study on host range of reniform nematode (*Rotylenchulus reniformis*) Indonesian Journal of Agriculture. 3 (1), 210:26-31