

REPRODUCTION OF *Meloidogyne enterolobii* ON WEEDS FOUND IN BRAZIL.

Reprodução de *Meloidogyne enterolobii* em plantas daninhas encontradas no Brasil. Bellé, C.¹; Ramos, R. F.¹; Balardin, R. R.¹; Antonioli, Z. I.¹. ¹Universidade Federal de Santa Maria, Santa Maria, Rio Grande do Sul, Brasil. E-mail: crbelle@gmail.com. Apoio: CNPq.

Weeds host of root-knot nematodes (*Meloidogyne* spp.), a parasite of important crop plants in mainly tropical and subtropical regions, enable the nematode to maintain itself or increase in abundance in soils. To evaluate the host status of 31 weed species that typically compete with crops, we experimentally inoculated the weed species with 5,000 eggs and second-stage juveniles (J2) of *Meloidogyne enterolobii*. Sixty days after inoculation, we measured several important parameters related to infestation ability, including gall index (GI), number of eggs/g root, and reproduction factor (RF). About 77.4% (n = 24) of the weed species we assessed were susceptible (RF \geq 1.0) to *M. enterolobii* infestation: *Acanthospermum australe*, *Amaranthus deflexus*, *Amaranthus hybridus*, *Amaranthus spinosus*, *Amaranthus viridis*, *Bidens pilosa*, *Bidens subalternans*, *Cardiospermum halicacabum*, *Commelina benghalensis*, *Euphorbia heterophylla*, *Galinsoga parviflora*, *Ipomoea grandifolia*, *Ipomoea nil*, *Ipomoea purpurea*, *Leonurus sibiricus*, *Nicandra physaloides*, *Polygonum hydropiperoides*, *Portulaca oleracea*, *Rhynchelytrum repens*, *Sida rhombifolia*, *Solanum americanum*, *Solanum sisymbriifolium*, *Solanum pseudocapsicum*, and *Talinum paniculatum*. In contrast, seven species were resistant (RF < 1.0) to *M. enterolobii* infestation: *Conyza bonariensis*, *Cyperus rotundus*, *Digitaria horizontalis*, *Digitaria insularis*, *Eleusine indica*, *Raphanus raphanistrum*, and *Senecio brasiliensis*. Management strategies to control *M. enterolobii* should identify susceptible weeds in crop fields and control these important alternate hosts of the parasitic nematode.