

Pathogenicity of *Meloidogyne incognita* and *Meloidogyne javanica* on Tomato (*Solanum lycopersicum* L.)

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ABSTRACT : Two different pot experiments were conducted at Department of Nematology, B. A. College of Agriculture, Anand Agricultural University, Anand to study Pathogenicity of *Meloidogyne incognita* and *M. javanica*. The results showed that an inoculum level of 1000 juveniles (J_2)/plant/pot of *M. incognita* and *M. javanica* were found detrimental to the growth and development of tomato. Total nematode population for both *Meloidogyne* spp. /plant increased progressively with an increase in inoculum levels from 10 to 10,000 J_2 /plant. Nematode reproduction rate decreased with an increase in inoculum level of 10 J_2 /plant and minimum in 10,000 J_2 /plant for *M. incognita* and *M. javanica*.

Key Words : Tomato (*Solanum lycopersicum* L.), pathogenicity, *M. incognita*, *M. javanica*.