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Effect of Agrochemicals used Commonly in Rice Ecosystem on Meloidogyne graminicola

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Abstract

The effect of 14 insecticides, 6 fungicides and 6 herbicides used commonly in a rice ecosystem on mortality of infective stage juveniles (J2) of the rice root-knot nematode Meloidogyne graminicola, is reported in-vitro bioassays. Among the insecticides studied more than 50 per cent mortality was recorded with cartap hydrochloride, monocrotophos, chlorpyrifos and azadirachtin with a mean juvenile mortality of 100.00, 84.50, 70.50 and 80.00 per cent, respectively at 96 h post-exposure. Among the fungicides, more than 50 per cent mortality of J2 was observed with propiconazole (81.43%) and mancozeb (57.14%) at 96 h after exposure. Among herbicides, bispyribac sodium and pendimethalin resulted in 95.72 and 67.86 per cent mortality of J2 at 96 h of incubation. The insecticide cartap hydrochloride (50% SP) caused 100 per cent mortality of J2 within 24 h of exposure.

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Keywords

Insecticides, fungicides, herbicides, toxicity, rice root-knot nematode, Meloidogyne graminicola, rice.

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