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Assessment of residual toxicity of seed protectants (insecticides) in stored pigeonpea seed

■ R.B. SINGH¹, M.K. YADAV¹, R.D.S. YADAV*, R.K. CHAUDHERY, S.P. GIRI², D.K. VERMA² AND SAURABH VERMA²

Seed Technology Section, N.D. University of Agriculture and Technology, Kumarganj, FAIZABAD (U.P.) INDIA ¹Department of Entomology, N.D. University of Agriculture and Technology, Kumarganj, FAIZABAD (U.P.) INDIA ²Crop Research Station (N.D.U.A. and T.), Masodha, FAIZABAD (U.P.) INDIA

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ABSTRACT

Seed protectants have an important role in enhancing the storability of the legume seed by protecting the legume seeds for long time against pulse beetle, *Callosobruchus chinensis* during storage. But some seed protectants fail to protect seed due to short residual effect. Due to short persistency on seed, the bruchids can survive and breed easily and maintain their population on stored even treated legumes, later on seed damage badly. Considering this point in view the residual toxicity of eight seed protectants (insecticides) were assessed in stored seed of pigeonpea at different storage periods under ambient condition N.D. University of Agriculture and Technology, Kumarganj, Faizabad. Novaluron 10 EC@ 0.05ml/kg seed had longer persistency on stored pigeonpea seed with maximum toxicity against bruchids upto nine month of storage followed by emamectin benzoate (Proclaim 5SG) @2ppm (40.0 mg/kg seed), indoxacarb (Avaunt 14.5 SC) @2ppm (13.8 mg/kg seed), profenofos (Curacron 50 EC) @2ppm (0.004ml/kg seed) and spinosad (Tracer 45 SC) @2ppm (4.4 mg/kg seed).

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*Corresponding author: