

Validation of traditional seed protectants against *Rhizopertha dominica* (Fab.) in wheat

S.K. Verma, R.B. Singh, P.K. Gupta and Vimal Kumar Singh

Received January 2, 2014 and Accepted March 30, 2014

ABSTRACT : The lesser grain borer *Rhizopertha dominica* (Fab.) is most common storage insect pest causing considerable damage to wheat grain by affecting the quality, quantity and germination of grain. In present investigation eight seed protectant including check (Deltamethrin 2.5 wp @ 40 mg/kg seed) viz., gram leaf powder, hing, neem leaf powder, neem cake powder, brick furnace ash, behya leaf powder and mustard cack powder were validated in laboratory of Seed Science & Technology, Kumarganj, Faizabad. All the protectants were found effective over control upto 6 month of storage. Brick furnace ash @10 g/kg was found most effective seed protectant the grain against *R. dominica* (Fab.) in wheat upto 6 month of storage. Besides the neem cake powder @10 g/kg seed and neem leaf powder @10 g/kg seed were also showed effective seed protectant.

Key Words: Wheat, traditional practices, *Rhizopertha dominica* Fab.