

Title Efficacy of chamomile, sweet almond and coconut oils as post-harvest grain protectants of stored wheat against *Rhyzopertha dominica* (F.) (Coleoptera: Bostrychidae)

Author Nikpay Amin

Citation Journal of Asia-Pacific Entomology, 9(4) p. 369-373, 2006.

Keywords Seed viability; *rhyzopertha dominica*; Plant oils; Tropical zones

Abstract

The lesser grain borer, *Rhyzopertha dominica* is a major insect pests of stored grain in the tropics. Vegetable oils (Chamomile, Sweet almond and Coconut) at 2.5, 3.5, 5, 7 and 10 ml/kg were tested against *Rhyzopertha dominica* (F.) in wheat grain. All bioassays were conducted at 30C. Treatments with vegetable oils at high dose (10 ml/kg) achieving over 95% control within 24 h of exposure to freshly treated grain. There was a little difference between the three oils in their effect. Persistence of oils in grains were tested at short-term storage time (48, 72 and 96h) and intermediate-term (10, 20 and 30 days) after treatments.