

Pesticidal Potential of Some Selected Tropical Plant Extracts against *Callosobruchus maculatus* (F) and *Callosobruchus chinensis* (L) (Coleoptera: Bruchidae)

RHS Rajapakse and D Ratnasekera

Department of Agricultural Biology, Faculty of Agriculture, University of Ruhuna, Mapalana, Kamburupitiya, Sri Lanka

Abstract

Plant oils obtained from leaves and other parts of 20 different plant species were bioassayed under laboratory conditions for their ability to protect stored legumes from damage by cowpea weevil (*Callosobruchus maculatus*) and adzuki bean seed weevil (*Callosobruchus chinensis*). Three plant oil extracts showed some bioactivity, nine plant oil extracts caused significant adult mortality in both species and eight had none. Six plant oil extracts, black pepper, lemon grass, clove seeds, neem, custard apple, and sacred basil inflicted between 41 to 100% egg mortality in both species in the order of 60, 60-67, 70, 90, 91 and 100% respectively.