

D-46 Identification of pest susceptible and pest resistant lima-bean to legume pod borer *Maruca testulalis* Geyer (Lepidoptera:Pyralidae) on lima-bean (*Vigna cylindrica* Skeels) in Sri Lanka

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The legume pod borer *Maruca testulalis* Geyer is a serious pest of legumes in Sri Lanka. Investigations were carried out on the identification of pest

susceptible and pest resistant lima-bean to *M.testulalis* on 4 cultivars of lima-bean. The larvae of *M.testulalis* showed variable performance on different host food plants. The lima-bean cultivar 'Bushita' was identified as relatively resistant by the greatest first instar larval mortality, the lowest final body weight of larvae, low number of eggs and the smallest body size in emerging adults resulting in the depression of mean larval Relative Growth Rate. In contrast, the highest larval survival with maximum number of eggs, the highest Relative Growth Rate and the largest body size was identified as on the relatively susceptible lima-bean cultivar 'Polon-maa'. The characters measured all related to resistance by Antibiosis and Antixenosis.