

Title Response of the parasitoids of stored-product moths, *Habrobracon hebetor*, *Trichogramma evanescens* and *Venturia canescens* (Hymenoptera: Braconidae, Trichogrammatidae, Ichneumonidae), towards three types of funnel traps.

Authors Scholler, M. and Prozell, S.

Citation Advances in stored product protection. Proceedings of the 8th International Working Conference on Stored Product Protection, York, UK, 22-26 July 2002 (2003); 325-329

Abstract

The response of the parasitoids of stored-product moths, *H. hebetor* [Bracon hebetor], *Trichogramma evanescens* and *Venturia canescens*, towards funnel traps was tested under semi-field conditions. Three types of differently coloured traps were tested: dark green traps; traps with a green top, yellow funnel and white cup; and traps with a green top, green funnel and transparent cup. The spectral reflection of the colours of the traps was determined. The traps were baited with the synthetic main component of the female sex pheromone, ZETA. In additional trials conducted with *V. canescens*, traps were provided exclusively with ZETA (i.e. without water) or exclusively with water (i.e. without ZETA). Most individuals of *T. evanescens* and *V. canescens* were caught with the yellow/white funnel/cup combination followed by the green/transparent combination. The fewest parasitoids were caught with the green traps. Traps baited exclusively with water and those with water and ZETA caught about the same number of parasitoids (32%). The present study suggested that the colour of the funnel traps is responsible for the attractiveness towards the tested parasitoids. Depending on the colour of the traps, they can be used to trap both moth pests and naturally occurring parasitoids. Moreover, funnel traps were identified that attract the moths, but not the beneficial organisms. Monitoring can therefore be integrated with mass releases of parasitoids.