

CS28L Executive Summary

Summary

CS28L - Sex Pheromones of two

Cotton Pests (short title) \$13 753

ORGANISATION: CSIRO Division of Entomology

PERIOD: JULY 1986 - JUNE 1987, Field tests 1988

COMMENCED: JULY 1986

LOCALITY: Black Mountain Laboratories, Canberra

PROJECT SUPERVISOR: C.P. Whittle

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OBJECTIVES: To identify the sex pheromones of two cotton pests, the cotton tipworm Crociosema plebejana, and the pink spotted bollworm Pectinophora scutigera, and to test candidate synthetic blends in the field.

PROGRESS: Candidate pheromones have been determined for Crociosema plebejana (the cotton tipworm) and Pectinophora scutigera (the pink spotted bollworm). The analytical results for P. scutigera have been compared with those also obtained for two other closely related species (P. gossypiella and P. endema) in order to assess the possible importance of minor components and component ratios. Synthetic mixtures based on the analytical data have been tested as attractants in the field. The presence of additional components in the P. scutigera blend failed to increase the potency of the attractant.

A candidate synthetic pheromone for C. plebejana has failed to attract moths at Narrabri and further tests are being carried out at Biloela.