

SUMMARY :

Field work was conducted over the 1988/89 and 1989/90 cotton growing seasons in the Central Highlands of Queensland. Pheromone dispensers, specially formulated for P. scutigera, were obtained from Shin-Etsu Chemical Company Ltd, Japan. In 1989/90 the P. gossypiella pheromone formulation was trialed, and in 1988/89 a microencapsulated formulation produced by Allied Colloids (Australia Pty Ltd) was also trialed. Experiments were generally conducted in large fields (2.7 - 18.3 ha) and dispensers applied at a rate of 1,000/ha (78 mg (AI) (Z,Z)- and (Z,E)- isomers of 7,11 hexadecadienyl acetate mixed in a 9:1 ratio). Effects of treatments were assayed using pheromone traps (both years), regular fruit samples (usually 100 per time, both years), mating table trials (year 2) and dissection of females caught in light traps, (to determine mated status, year 2).