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Progress Report - Work undertaken in Israel

(Aug. 1987 - Feb. 1988)

Project No. C₅-020

936-1844-5-00-6088-00

Project Title: Use of Sex Pheromones for Monitoring and Control of Heliothis armigera populations in Cotton

Work undertaken in Israel

A. Heliothis armigera

- I. Chemical studies for identification of all pheromonal components
- II. Wind tunnel experiments for determining the role of pheromonal components in attracting male moths
- III. Field tests with methylene analogs as attractant
- IV. Nocturnal activity (night observations)
- V. Behavioral studies
 - (1) Mating of H. armigera (time, effect of age)
- VI. Effect of pheromone application as mating disruptant
 - (1) When evaporated in closed spacings
 - (2) When evaporated in outdoor small screened cages (30x30x30 cm)
 - (3) When evaporated in large screened cages (15x5x3.5m)

B. Heliothis peltigera

- (1) Mass rearing
- (2) Beginning of Chemical Studies for identification of pheromone components
- (3) Wind tunnel experiments
- (4) Field tests for determining role of pheromonal components for male attraction
- (5) Mating behavior

APR '88

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Progress Report (THAI/USAID)

Project No. : C₅ - 020

Project Title : Use of Sex Pheromone for Monitoring and Control
of Heliothis armigera Population in Cotton

Activities :

1) Meeting with Israeli investigator in Thailand

Period : November 1, - November 17, 1987

Name : Dr. M. Kehat

Result

1) the details of technical work plan of the project had been discussed between Thai Team and Dr. M. Kehat

2) the laboratory and field work had been done and discussed on

- mass rearing of insects
- behavioral test
- night observation

2) work undertaken in Thailand

- the wind tunnel was set in the control temperature room
- the mass rearing room controlling temperature and light was constructed
- night observation in the treated and control field (with pheromone traps and no traps) once a week between September 10 - December 16, 1987 for 14 weeks
- mass rearing H. armigera and H. assulta and extracted pheromone from the pheromone gland in different ages of female moths

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