

## Application of TRIPHERON-Pheromontraps in Biological Production

Edmund. Hummel  
Trifolio-M GmbH  
Sonnenstr. 22  
D-6335 Lahnau 2

### SUMMARY:

The newly developed trap system TRIPHERON (containing highly specific insect pheromones as the attracting principle) was used for *monitoring* and *micromonitoring* of Codling moth (*Cydia pomonella*), Plum fruit moth (*Grapholitha funebrana*) and *Ephestia kuchniella*, especially. The results indicate that pheromone traps may very advantageously be included in environmentally sound plant protection concepts.

For an efficient application of biological means of plant protection the knowledge of the fluctuation of the population of the different pest in space and time is a necessary prerequisite. We call investigation on this four-dimensional population-dynamics: micromonitoring. First results in apple or plum orchards indicate that the fluctuation of different pests in time may be monitored very efficiently.

Comparison of the attractivity of traps containing two dispensers for *Cydia pomonella* and *Grapholitha funebrana* with the respective results of traps containing only one dispenser show that the application of traps with one dispenser is more efficient in this case.

Thus the informations obtained may contribute considerably to a reduction of expenses for pest control measures.