

Summary

Field site location:
Southern Italy

Study leader:
Dr Pauline Romeyer, Senior Scientific Project
Manager

Crop:
Pepper plants

Outcome:
Significant reduction in thrips infestation



Our experience

Arctech Innovation has extensive experience designing and delivering semi-field and field efficacy trials for biopesticides in collaboration with our international network of partner sites across Europe and the US.

Our studies target a wide range of agricultural pests, including thrips and nematodes, across diverse vegetable and ornamental crops. These trials provide our clients with high-quality efficacy data under realistic growing conditions to support regulatory submissions and product development decisions.

Case study

Arctech Innovation conducted a semi-field efficacy study in Southern Italy to evaluate the performance of a thrips pheromone lure used in combination with a biopesticide on pepper plants.

The trial was carried out in a large glasshouse representative of protected vegetable production systems with three formulations tested. Pepper plants were treated weekly for four weeks using a knapsack sprayer, with pest populations monitored on randomly selected flowers.

Results showed a significant reduction in thrips numbers and infested flowers in all treated plots from seven days after the first application. As a result, small yield improvements were also recorded.

This study demonstrated the strong potential of pheromone-biopesticide combinations for integrated thrips management to our client, a global manufacturer of integrated plant health products.

