



Agriculture & Horticulture  
DEVELOPMENT BOARD



# New Project

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## FV 389

Combining biopesticides and other  
treatments to increase pest control

**Project Number:** FV 389

**Title:** Combining biopesticides and other treatments to increase pest control

**Start and end dates:** 1st April 2011 to 31st March 2013

**Project Leader:** Dr R H Collier, Warwick Crop Centre

**Industry Representative:** Matt Rawson, Pasture Farm

**Location:** Main site: Warwick Crop Centre, Wellesbourne (laboratory testing)

**HDC Cost:** £23,137

### **Project Summary:**

There is much interest in identifying effective treatments for pests whilst reducing reliance on synthetic pesticides. One way to achieve this may be by 'combining' treatments to improve efficacy. Whilst this is done routinely with pesticide mixtures and with pesticide/adjuvant combinations, there may be other improvements that could be achieved through, for example, combining insecticides or biopesticides with a treatment that modifies pest activity (and thereby pesticide uptake) or pest susceptibility.

The aim of this project is to undertake a series of small-scale laboratory tests with pest insects that can be obtained easily from cultures to evaluate the potential of a range of treatments by comparing their activity separately and in combination. The results of this project will indicate which combinations of treatments may be worth exploring in more detail in future in trials on specific crop/pest combinations.

### **Aims & Objectives:**

#### *(i) Project aim:*

The aim of the project is to determine whether combinations of biopesticide treatments or biopesticide/insecticide treatments improve pest control compared with using such treatments independently. The term 'biopesticide' is used in the broadest sense, so could include biocontrol agents, botanicals, semio-chemicals.

#### *(ii) Project objectives:*

1. Identify combinations of biopesticides/pesticides/behaviour modifiers that can be tested in combination.
2. Determine the effect of combinations of treatments identified in 1) on control of key groups of pest insect.

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