New Project

FV 365a

The time of infection of overwintered cauliflower and Brussels sprout by Turnip yellows virus (TuYV) and the potential of insecticides to control the virus.

Project Number:	FV 365a
Title:	The time of infection of overwintered cauliflower and Brussels sprout by Turnip yellows virus (TuYV) and the potential of insecticides to control the virus.
Start and end dates:	1st April 2011 to 31st May 2012
Project Leader:	John A. Walsh, University of Warwick
Industry Representative:	Dick Evenden
Location:	The main site is the University of Warwick, Wellesbourne campus. The virus testing, development of the glasshouse assay for determining the efficacy of insecticides and the subsequent insecticide evaluation will be carried out here. The crop sampling and field experiments will be co-ordinated and managed by Allium and Brassica Agronomy. Growers' holdings in Kent and Lincolnshire will be utilised for carrying out the time of infection experiments. The growers will be selected by Allium and Brassica Agronomy
HDC Cost:	£58,104

Project Summary:

Identifying the **time** at which overwintered cauliflowers and overwintered brussels sprouts become infected by tuyv will inform growers when the crops are most at risk and when to most effectively target insecticide sprays. This would boost yields and reduce spraying costs and residues.

Discovering which insecticides are best at protecting plants from virus infection in the early stages of development will inform and **improve virus control** and potentially reduce insecticide usage and residues whilst increasing the yield and quality of crops.

Aims & Objectives:

- The time of natural infection of cauliflower and Brussels sprout by TuYV in commercial crops in Lincolnshire and the time of natural infection of cauliflower in Kent) will be determined over one growing season.
- A glasshouse assay for determining the efficacy of insecticides in controlling TuYV over the period from germination to four weeks post-germination will be developed.
- The efficacy of insecticides in controlling TuYV over the period from germination to four weeks post-germination will be determined using the glasshouse assay.

Further information

Email the HDC office (hdc@hdc.ahdb.org.uk), quoting your HDC number, alternatively contact the HDC at the address below:

HDC
AHDB
Stoneleigh Park
Kenilworth
Warwickshire
CV8 2TL

Tel – 0247 669 2051