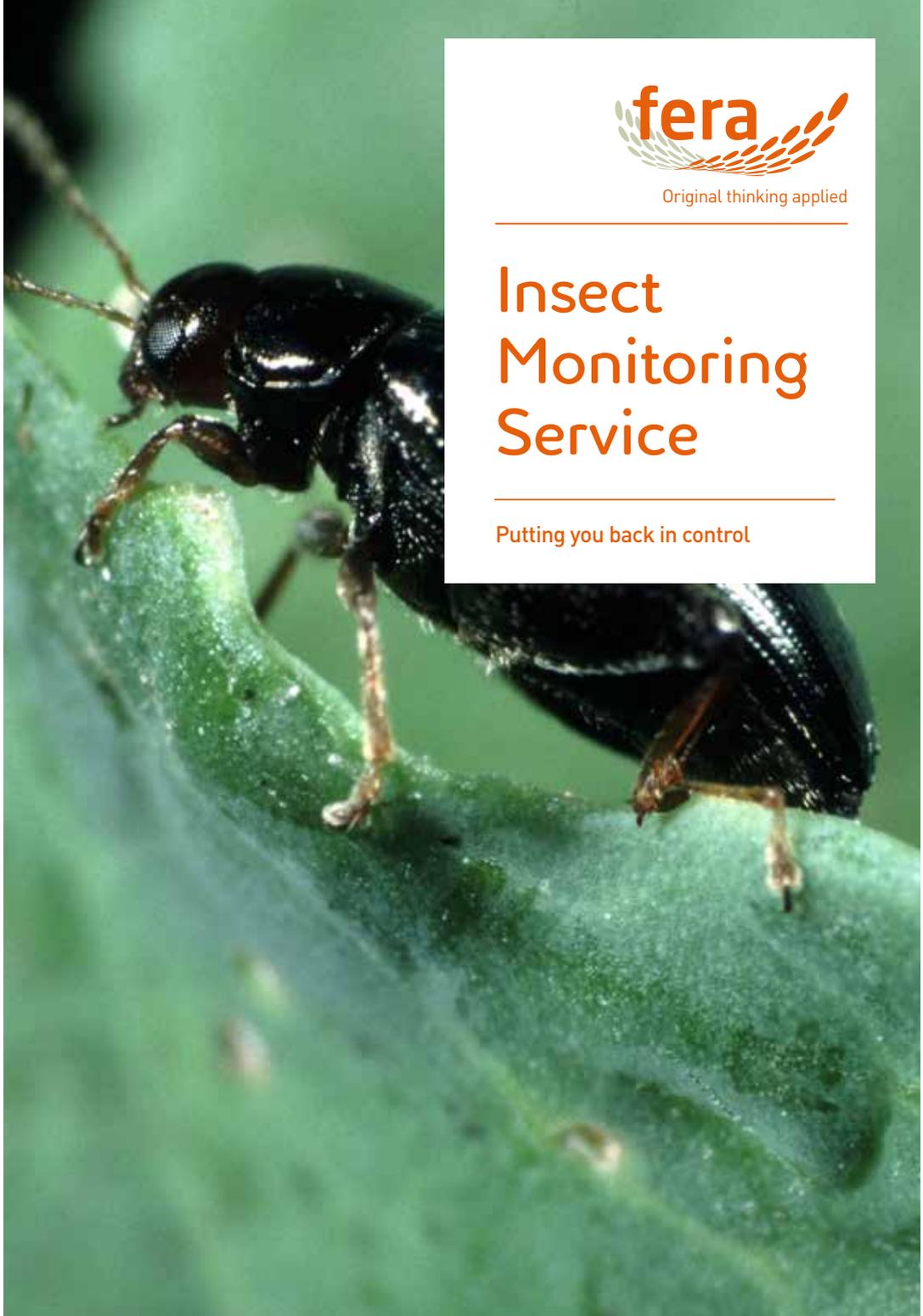




Original thinking applied

Insect Monitoring Service

Putting you back in control



Protect your reputation and increase your yield - find out what's in your crops

Insects can cause significant damage to crop production through feeding damage or by the transmission of viruses which can cost the industry millions each year. As the restrictions placed on pesticides and insecticides continues to increase it is crucial to understand the risks to your crops and to utilise a targeted approach to pest management. Fera's Insect Monitoring Service can provide you with the knowledge you require to make informed treatment decisions, allowing you to increase your yield and quality, ultimately maximising your profits. Seed potato, carrot, oil seed rape and salad growers in the UK and Europe are benefiting from our service year after year by making decisions based on results for their own fields.

Our Insect Monitoring Service provides you with all the equipment that is needed, including water traps, sample pots and return envelopes. It takes just a few minutes to collect the sample and your results are sent to you by email the same day that we receive it.





Rodger Hobson

Managing Director, Hobson Farming Ltd

“The main advantage is the speed of turnaround of samples. I sent in samples in the morning and had my results by 12pm. The aphid monitoring service allows us to minimise applications of aphicide and target application timing as specifically as is possible.”



Salad - can you afford not to know what's in your leaves!

In the UK, salads can be affected by several viruses which are transmitted by aphids, they are also susceptible to feeding damage and growers can face complaints from customers if the final product contains insects. This can have a significant impact on the industry, as highlighted by the inclusion of the control of insect pests in the AHDB Leafy Salads strategy. If your products are on shelves and are found to contain insects this can cause reputation damage and potentially lost contracts in this era of consumers demanding perfection from the fruit and vegetables.

Fera's Insect Monitoring Service can help lettuce, watercress and spinach growers to identify the risk to their crops by identifying the species of aphids and also which viruses may be present, whilst highlighting where further visual investigations are required to identify infestations.



Carrot viruses - quality concerns cost £20m pa

Damage to carrots caused by viruses is one of the biggest quality issues costing the industry roughly £20M per annum. In the UK virus damage to carrots can be caused by Carrot Yellow Leaf virus (CaTV), Parsnip Yellow Fleck virus (PYFV) and Carrot Motley Dwarf Complex (CMD) which can all be transferred by aphids. Carrots affected by these viruses can display root symptoms such as kipping, black spotting and internal browning.

Fera's Insect Monitoring Service can identify the aphid species that transmit these viruses allowing growers to more targeted in their application of insecticide sprays improving useable yield, quality and reducing cost of materials.



Seed potato viruses cost the industry millions

Potato viruses, such as Potato Virus Y (PVY) and Potato Virus A (PVA) are transmitted by aphids and can have a significant impact on potato yield costing the industry millions annually. These viruses can remain dormant in seed potatoes, so for growers intending on growing next year's crop from home saved seed it is vital that you are aware of the risks to your crop.

About 40 different aphid species transmit PVY and PVA to potato crops at different efficiencies making it vitally important that you know what species are present in your field. Armed with this knowledge you can make informed decisions on the need for insecticide treatments, allowing you to be targeted and manage pesticide resistance over time. Fera's Insect Monitoring Service can also help you decide when the best time to burn down crop is to maximise yield and reduce risk.



Winter oil seed rape - ensure the yield and quality of your oil

Cabbage Stem Flea Beetles (CSFB, *Psylliodes chrysocephala*) damage oil seed rape (OSR) crops as adults chew holes in the leaves. A large egg-laying population will cause further crop damage when the larvae hatch in the autumn and feed inside the plants through winter. Further damage is then caused by diseases infecting the plant where the insect damage has occurred. Every year between 67% and 76% of oil seed rape crop is affected in some way by CSFB damage (AHDB) with the cost associated with this reaching over £9.5 million annually (Nicholls, 2014).

OSR can also be damaged by Turnip Yellow Virus (TuYV) which is transmitted by peach-potato aphids (*Myzus persicae*) which can reduce yield by up to 26% and reduce oil quality. Fera's Insect Monitoring Service allows you to identify the risk to your crop and identifies when this risk occurs, allowing you to target your insecticide applications more effectively.



Informed decision making

Fera's Insect Monitoring Service can help you make pest control decisions:

- Save time and money reducing and targeting pesticide applications, increasing yield and quality
- Target your crop management by understanding the virus transmission risk specifically for your field
- Demonstrate good quality and environmental management practice to your customers

Why Fera?

- More than 100 years' experience of delivering pest and disease identification services to a wide range of commercial growers and Government departments, both in the UK and overseas
- We are the UK's largest Plant Clinic handling in excess of 40,000 samples a year, offering the most comprehensive range of testing services for all sectors throughout the supply chain

100+

YEARS OF DEDICATED
EXPERIENCE

40,000

SAMPLES A YEAR





Original thinking applied

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