



agrovista
fruit



Integrated pest management

Control pests, boost pollination,
and improve plant growth and
crop resilience



growing through **innovation**



A guide to Integrated Pest Management

In this short summary you will learn a little about how we have managed to combine the latest in technical innovations along with biological control agents and diligent crop reporting, to help deliver the best results possible both in profitable yields of Class 1 fruit, and environmental stewardship, including:

- **Perfect pollination** with Koppert biological solutions
- **Biocontrols** for soft fruits
- **Soil health** and unlocking your soils potential
- **Application machinery** with the Natutec drive
- **Fruit Insight**, our online pest and disease forecasting service
- **Wignest**, a bioactive refuge



The Agrovista Fruit Team recognises the benefits of regular and thorough crop monitoring, in order to optimise inputs and outputs.

In doing so, Integrated Pest Management (IPM) has been a key component in our joined up approach, and a passion for the team, for which we have gained a nationwide reputation in all fruit crops.

Mark Davies - Head of Fruit



Perfect pollination

Koppert biological solutions

Without pollinators such as bees, there would be no fruit crops in the first place, but sometimes, we need to give nature a helping hand.

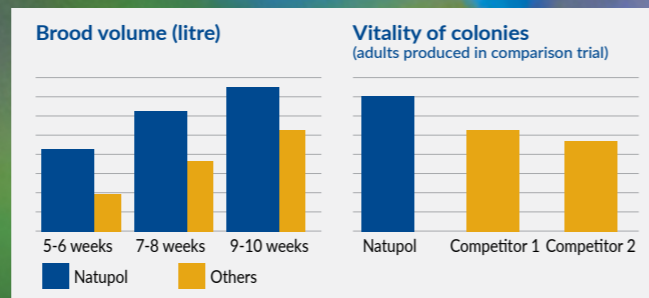
By working with Koppert UK, we provide customers with the highest quality pollinators to supplement natural colonies. This ensures that successful pollination and fruit set is achieved to support indoor and outdoor crop production. We also recommend introductions in pears and cherries too.

Koppert's Natupol *Bombus terrestris audax* colonies are prepared ready for spring flowering, working a range of indoor and outdoor crops. They work by releasing worker bees to pollinate the crop, supported by more workers born in the weeks after their introduction from a strong brood provided within the hive.

The hives are designed based on the way bumblebees see, making them easier for the bees to find and therefore improving productivity.

Natupol: best value for your money!

Koppert's flagship pollination product proven to outperform competitors in this field.



Natupol Excel: high performance pollination

Specifically developed for crops with a high number of flowers per m², crops grown under artificial light, reduced daylight conditions or in warmer environments.



Natupol booster

Developed specifically for outdoor crops requiring high powered supplementary pollination over a short period of time, this audax hive contains super mature colonies for maximum activity, and a life of 4 weeks.

Biocontrols for soft fruit

To help you control common pests in soft fruit

Biocontrol products use natural mechanisms or 'natural enemies' to control pests, minimising the use of traditional chemical intervention methods.

By working with leading global innovators Koppert UK, Agrovista is proud to offer biocontrol options to customers as part of a commitment to practising the principles of Integrated Pest Management (IPM).



Aphiscout - Controlling aphids

This 'one product' solution from Koppert contains five different parasitoid wasps, helping to combat a wide range of aphid species that affect soft fruit crops.

The product works by releasing parasitoids that then identify aphids and impregnate them with parasitoid eggs. This concludes the aphid's lifecycle, resulting in the emergence of the next generation of parasitoids.

Because Aphiscout is a biocontrol product, it reduces the reliance on conventional insecticidal products, and with no post-harvest interval, offers growers improved flexibility for application timing.

Benefits include:

- Reduced risk of resistance
- Reliable and consistent quality
- Quick and easy application

Thripex - Controlling thrips

Effectively controlling thrips is becoming increasingly difficult for British growers due to the lack of suitable chemical control options. Therefore, adopting

an integrated approach is crucial, including the introduction of biocontrol agents.

Thripex by Koppert contains predatory mite *Neoseiulus cucumeris* - the 'backbone' of thrips control. An initial introduction is recommended for early in the season before flowering, with predatory mites then released over a six week period.

Spidex - Two spotted Spider mite control

Two spotted spider mites cause considerable damage - mottled leaves and early leaf loss in strawberry and raspberry crops.

Spidex by Koppert, *Phytoseiulus persimilis*, provides effective control of two spotted spider mites when used preventatively and at the first sign of the pest.

The product works by releasing predatory mites, *Phytoseiulus persimilis*, which then feed on all stages of spider mites. These predatory mites pierce eggs and consume the contents, whilst also attacking adult spider mites.



Biological solutions to help you control common pests on soft fruit crops





Natutec Drive

Application machinery

The Natutec Drive® is Koppert's latest machinery innovation.

This patented system is used to apply **Swirski Mite®**, **Thripex NXT®**, **Andersoni®** and **Spidex®** to polythene tunnel strawberry crops. It is attached to a custom-made vehicle which is driven between the strawberry table-top. The basic system works on a revolving 60 litre drum, which dispenses the predators and carrier material into a hopper, and onwards, via several delivery tubes, to the crop canopy. The application process is controlled from a touch-screen inside the tractor cab, by simply selecting the product name and the rate of application required.

The **Natutec Drive®** is supplied on a lease hire basis.

Soil health

Unlocking your soils potential

As well as integral to the future of our planet, soil health is at the heart of sustainable agriculture - helping plants to achieve their potential, protecting watercourses, and recycling organic matter.

Agrovista Soil Health is for all areas of our portfolio including fruit, and focuses on three key soil properties - chemical, physical, and biological, all of which contribute to the yield potential of a crop.

The service provides a comprehensive soil health report including practical solutions to help growers manage soils for the benefit of farm profitability and soil stability.

Prioritising soil health in this way can have a positive effect on even the most niche of crops.



Wignest

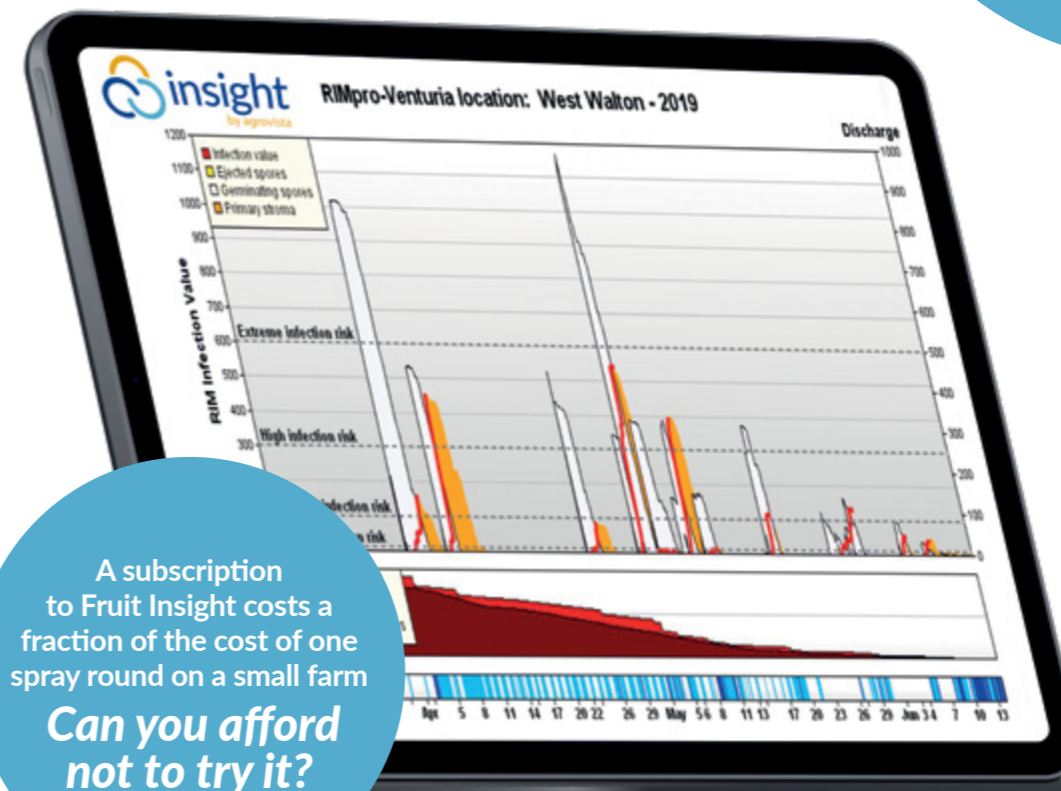
Wignests boost numbers of orchard predators, including earwigs, which are invaluable in pome fruit orchards. They prey upon and significantly reduce numbers of damaging pests, such as the pear sucker, codling moth and woolly apple aphid.



Fruit Insight*

The most comprehensive online pest and disease forecasting service for fruit growers

- ✓ Reduce residues
- ✓ Reduce input costs
- ✓ Time applications to perfection
- ✓ Avoid unnecessary applications
- ✓ Comply with assured produce schemes
- ✓ Maximise product efficacy and efficiency



A subscription to Fruit Insight costs a fraction of the cost of one spray round on a small farm
Can you afford not to try it?



Fruit Insight uses the latest technology to provide live weather data, coupled with Rimpro disease prediction software to gain vital information helping growers take a renewed approach to sustainable crop protection and potential risks.

Available on the Agrovista Insight app. Updated every 30 minutes allowing you to maximise control and minimise your costs.

What makes Fruit Insight different to other subscription services?

- Include text alerts to major events
- Telephone access to an Agrovista agronomist
- Low subscription costs



Fruit Insight, the most comprehensive online pest and disease forecasting service for fruit growers.



Agrovista UK Limited

Rutherford House
Nottingham Science
& Technology Park
University Boulevard
Nottingham
NG7 2PZ

T: 0115 939 0202

E: enquiries@agrovista.co.uk

Follow us on social media:

 [@AgrovistaFruit](https://twitter.com/AgrovistaFruit)

   [@AgrovistaUK](https://www.instagram.com/AgrovistaUK)

www.agrovista.co.uk/fruit

