

Sustaining a Plant Protection Product Toolbox for UK Growers of Ornamental Plants

Jo McTigue

Presented by HCP Ltd CEO Simon Conway

A Look back into recent History

AHDB Compulsory Grower Levy ~£7.6m p/a

Ornamentals share of that was £1.4m p/a

AHDB Horticulture wound-up April 2023



HCP was formed as a voluntary funded model, owned by its member associations

Ornamentals share of HCP running costs £89k + Application costs x 20 ~ £35k

10% of the AHDB levy costs = Crop protection work for Ornamentals

HCP Team



Simon Conway

CEO



Jo McTigue

Ornamentals
Hops & Grapes

Risk registers
Worker exposure



Kim Parker

Field veg
Leafy salads
Herbs

Residue Trials
Seed treatments



Carlos Duarte

Pome fruit
Stone Fruit
Soft fruit



Grace Emeny

Protected ...
Fruiting Veg
Leafy Salads
Mushrooms



Sandra Hey

Legumes
Outdoor cucurbits
Sweetcorn
Asparagus
Cereals &
Oilseeds



Lindsey Daniel

Administrative support

Ornamental Sector Input to HCP

- Two Ornamentals Directors on the HCP Board

Charles Carr: Hilliers

Stefan Atanasov: Coletta and Tyson

- Newly formed 'Over Arching Committee' to **green-light** priority applications
- £154k of AHDB levy funds returned to Ornamentals to spend on Crop protection (first project approved)

First Ornamentals' Project to Utilise Returned Levy Funds

R&D grant secured for new herbicide testing
on container-grown nursery stock



£51,000 project

Alastair Hazell from Darby Nursery Stock Ltd, commented:

“We’re looking forward to being involved in the herbicide phytotoxicity trial. Our business has hosted AHDB-funded trials in the past, so we know how important they are in generating practical information which benefits the whole sector.

“There has been a lack of new relevant herbicides for use on container-grown nursery stock over the years, and many herbicides are being revoked on a regular basis, so we hope this trial will highlight new products that provide robust, economic weed control”.

Call to Arms for the Ornamentals sector

>70% of Plant Protection Products for Ornamentals are on an Extension Authorisation for Minor USE (EAMU)



HortWeek

HCP plea for growers to share plant protection products EAMU costs

Since its creation in 2023, Horticulture Crop Protection has been focused on updating the information it holds concerning the current issues facing the horticulture industry via the various pest, disease, and weed risk registers it maintains for each sector, and pursuing EAMUs and Emergency Authorisations requested by growers for their crops.

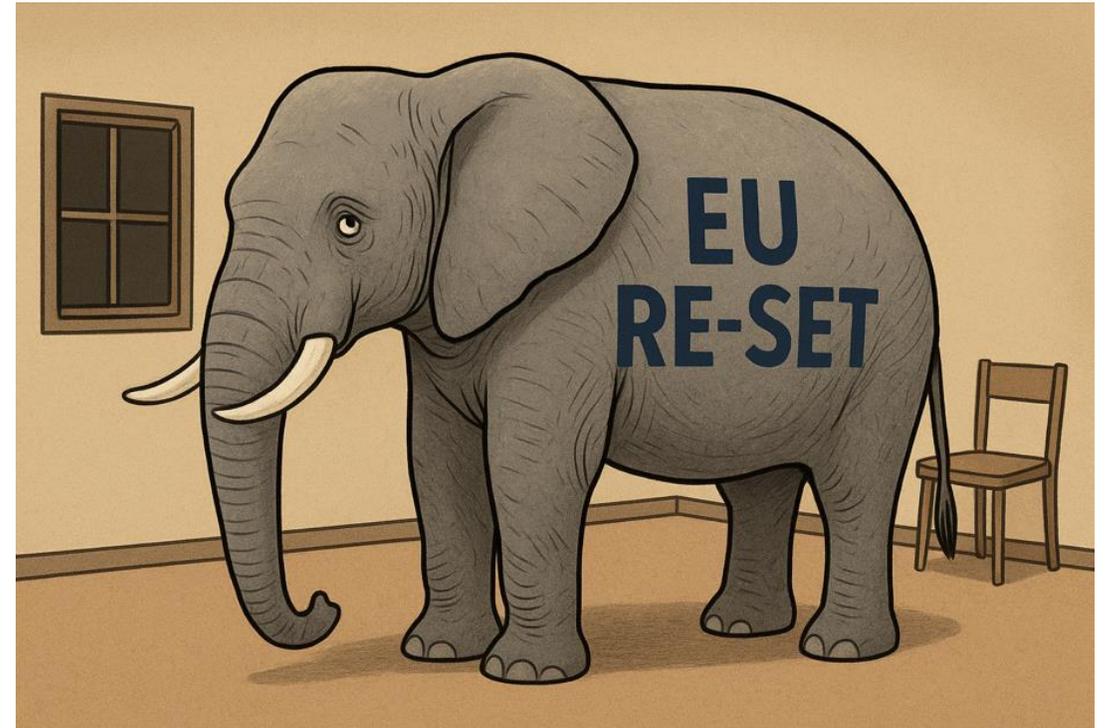
Sign up now. Show your support.
www.hta.org.uk/hcp/scheme-particulars

2027 is a pivotal year.....SPS EU agreement

18 actives in GB already lost in EU

10 authorised for Ornamentals

Dynamic alignment of MRL'S and Actives



Ornamental Sectors



- ❖ Pot and bedding Plants – BOA / HTA
- ❖ Cut flowers and bulbs – Cut flowers sub-group BOA / HTA
- ❖ Narcissus – Narcissus group / BOA / HTA
- ❖ Hardy nursery stock – HTA
- ❖ Trees and hedging – HTA
- ❖ Christmas trees – BCTGA
- ❖ Forest nursery trees – HTA
- ❖ Fruit nursery trees – HTA / Fruit associations

Overheads are split between HTA / BOA / BCTGA (~£80,000 in total)
EAMUs / Emergencies / Trials are paid for as required

Signing Off on EAMUs



£1768 per EAMU

3 EAMUs needed to cover all ornamental growing situations:

- ❖ protected / outdoor low crops / outdoor tree crops

- Crop Association determine which products are needed
 - ❖ Technical committee discussions
 - ❖ New products and renewals on existing products

- Overarching committee agrees EAMU choices across sectors and prioritises workload

- Formal email sign off process
 - Go ahead for HCP to make submission
 - Agreement to fund (Company also asked to contribute)

1 year evaluation with HSE before authorisation

Authorisation not guaranteed



HCP Liaison



HCP meet regularly with:

- Crop Associations
- AgChem companies
- Biocontrol companies
- Regulator - HSE (CRD)
- Defra / Daera
- Agronomy companies
- NFU
- EU MUCF
- Research Organisations

Overview of HCP Ornamental EAMUs

| EAMU status for Ornamentals | Totals |
|-----------------------------|--------|
| New EAMUs 2024 | 15 |
| New EAMUs 2025 | 10 |
| Withdrawn EAMUs 2025 | 3 |
| EAMUs with CRD | 15 |
| EAMUs for submission 24/25 | 4 |
| EAMU amendments | 1 |
| Potential EAMUs 25/26 | 20 |



New insecticide: Kanemite

Kanemite (acequinocyl), Contact miticide

2025 2234 – outdoor low growing ornamentals (inc. forest nursery)

2025 2235 – outdoor high growing ornamentals (inc. forest nursery)

Note: Still waiting on protected use authorisation

1 application of 0.9 L/ha

DO NOT HANDLE TREATED CROPS for 4 days after treatment

Workers must wear suitable protective gloves when handling treated crops within 3 weeks after treatment

Application must only be made between 1st March to 31st October

Uses against:

- Fruit tree red mite (*Panonychus citri*)
- Conifer spinning / Spruce spider mite (*Oligonychus ununguis*)
- Two-spotted spider mite (*Tetranychus urticae*)

KANEMITE®

An acaricide for the control of two spotted spider mite and red spider mite

- An acaricide for the UK market containing acequinocyl (164g/l)
- Activity against a range of mites, providing season long protection
- Rapid knockdown within 1 hour and mortality within 8 hours
- Excellent on all stages, including **eggs**
- Contact and ingestion mode of action from a brand new **IRAC20B** group
- Safe to the key mite predators - an excellent fit in an Integrated Pest Management system
- No cross resistance to other acaricides

Excellent IPM Profile

| Beneficial species | Group | Effects observed |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------|
| <i>Amblyseius andersoni</i> , <i>Amblyseius swirski</i> , <i>Euseius stipulatus</i> , <i>Phytoseiulus persimilis</i> , <i>Typhlodromus pyri</i> , <i>Typhlodromus occidentalis</i> | Predatory mite | non-toxic |
| <i>Chrysoperla carnea</i> , <i>Nesidiocoris tenuis</i> , | Predator | non-toxic |
| <i>Anthocoris nemoralis</i> | Predator | slightly harmful to nymphs |
| <i>Cryptolaemus montrouzieri</i> , <i>Harmonia</i> | Predatory beetle | non-toxic |
| <i>Aleochara bilineata</i> | Predatory rove beetle | non-toxic |
| <i>Aphidius rhopalosiphii</i> , <i>Encarsia formosa</i> | Parasitic wasp | non-toxic |

Application Best Practice

- Apply as soon as mites are seen on crop - especially when motile stages are first seen
- Use the max concentration per crop
- Fill spray tank with 2/3 water and agitate prior to adding Kanemite
- Avoid sulphur and copper products in tank mixes
- Either avoid fosetyl based products in tank mixes or dissolve Kanemite in the water first
- Use of adjuvants can improve efficacy
- Avoid use on rust and gall mite species

New biofungicide: Vintec

Vintec (*Trichoderma atroviridae* strain SC1)

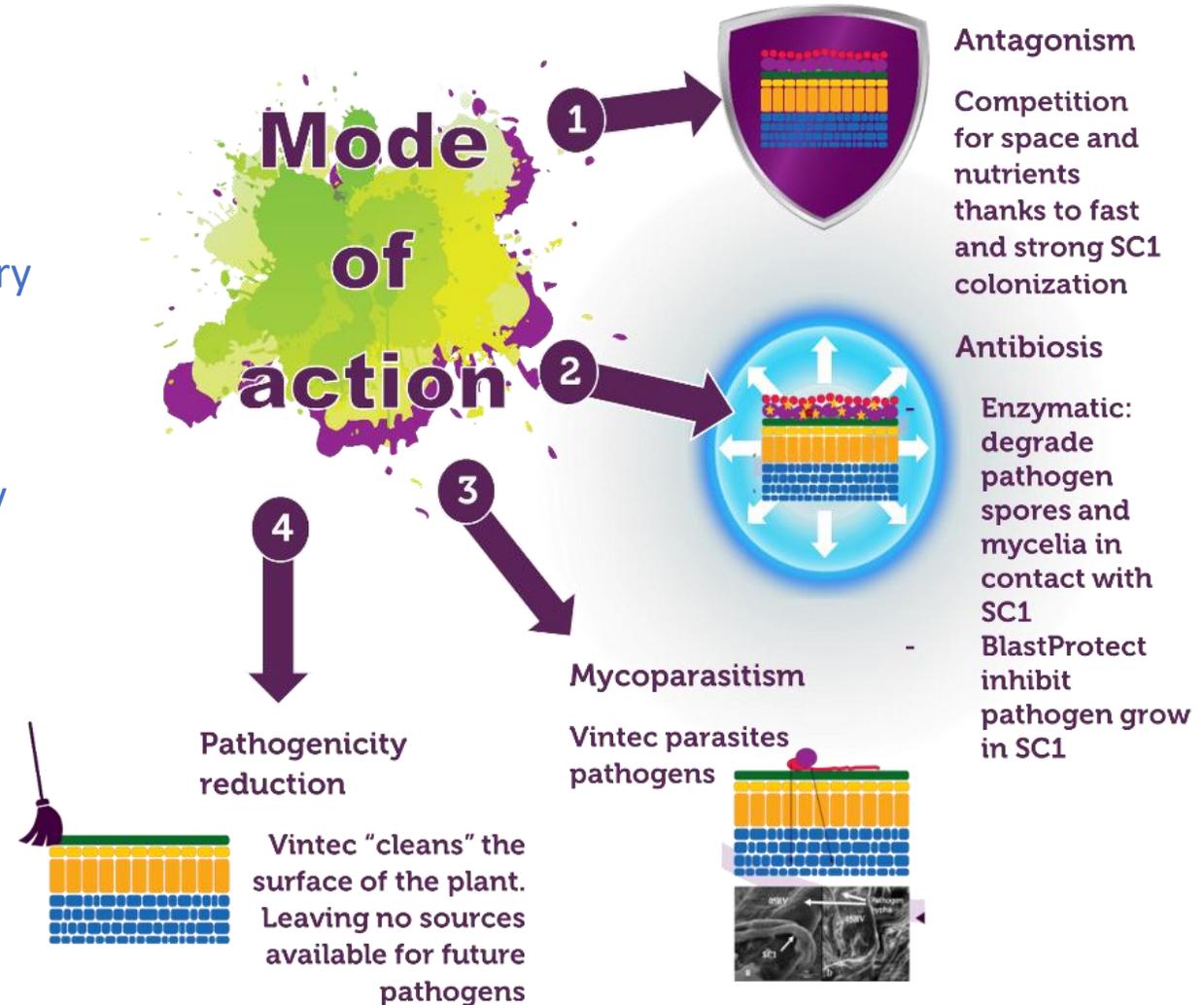
2025 2276 - Application by handheld or horizontal / variable geometry boom

Protected crops of ornamental plant production and fruit nursery

2025 2277 - Application by handheld or horizontal / variable geometry boom / broadcast air assisted sprayer

Outdoor crops of ornamental plant production and fruit nursery

Target diseases are fungal foliar diseases including botrytis, leaf blights and stem dieback, and canker.



Upgraded Fungicide

| Product | Active | Crop | Target | Comments | Application costs |
|-------------------------|----------------|--------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|-------------------|
| Vivid 200 MAPP 17295 | Pyraclostrobin | Ornamental Plant Production | Botrytis Powdery mildew Fungal leaf spots Rust (White mould & smoulder) | Protected November to May use only | AHDB |
| | | | | Outdoor November to May use only | |

2024 1692a (outdoor) / 1693a (protected) - CRD correction of authorised rate from 1L/ha to 1.25L/ha

Moved outdoor ornamental uses from Vivid to Vivid 200.

- **Addition of protected uses - previously refused at transfer from LTAEU.**
- Reduction from 2 sprays to 1 spray

New MAPP imminent

EAMUs submitted for new Vivid 200 MAPP – BASF funded



New herbicide: Broadway Star

Broadway Star (florasulam + pyroxsulam), contact herbicide

2025 1118 – 1 application at 265g/ha

For Field-grown ornamentals, application is limited to once per year between March and May (except for Narcissus which can have one application between October and May).

Workers must wear suitable protective clothing (in which arms, body and legs are fully covered) when re-entering protected treated areas, handling treated crops or contaminated surfaces for 2 weeks post-treatment.

Wide range of broad-leaved weeds controlled including poppy, cleavers, brassica weeds, cranesbill, groundsel, speedwells, pansy, chickweed, mayweeds. Grass control of ryegrasses, bromes, wild oats

How to make the most of Broadway Star:

1. Leading product for Ryegrass, Brome, Oats and Broad-leaved weeds
2. Use as part of a programme
3. Use with a residual partner
4. Apply to a small target weed (optimally 1-3 leaf)
5. Apply to active growth (2-3 days either side of application)
6. Soil temperature ideally 8°C (minimum of 6°C)
7. Ensure optimal application techniques are followed:
Pre tillering: 130-150 L/ha, Fine-medium spray quality, CFF, VPFF, Defy nozzles
Tillering: 150 L/ha, Medium spray quality, CFF, VPFF, twin fluid nozzles

Key considerations: Active growth; size of (grass) weeds; mix with a residual; attention to detail when spraying; avoid stressed crops.

Broadway[®] Star

HERBICIDE

Note: Corteva funded admin application to also put this EAMU use on identical product Palio EAMU 2025 2497

New Herbicide: Emerger

Emerger (aclonifen)

2025 3341 – outdoor ornamentals

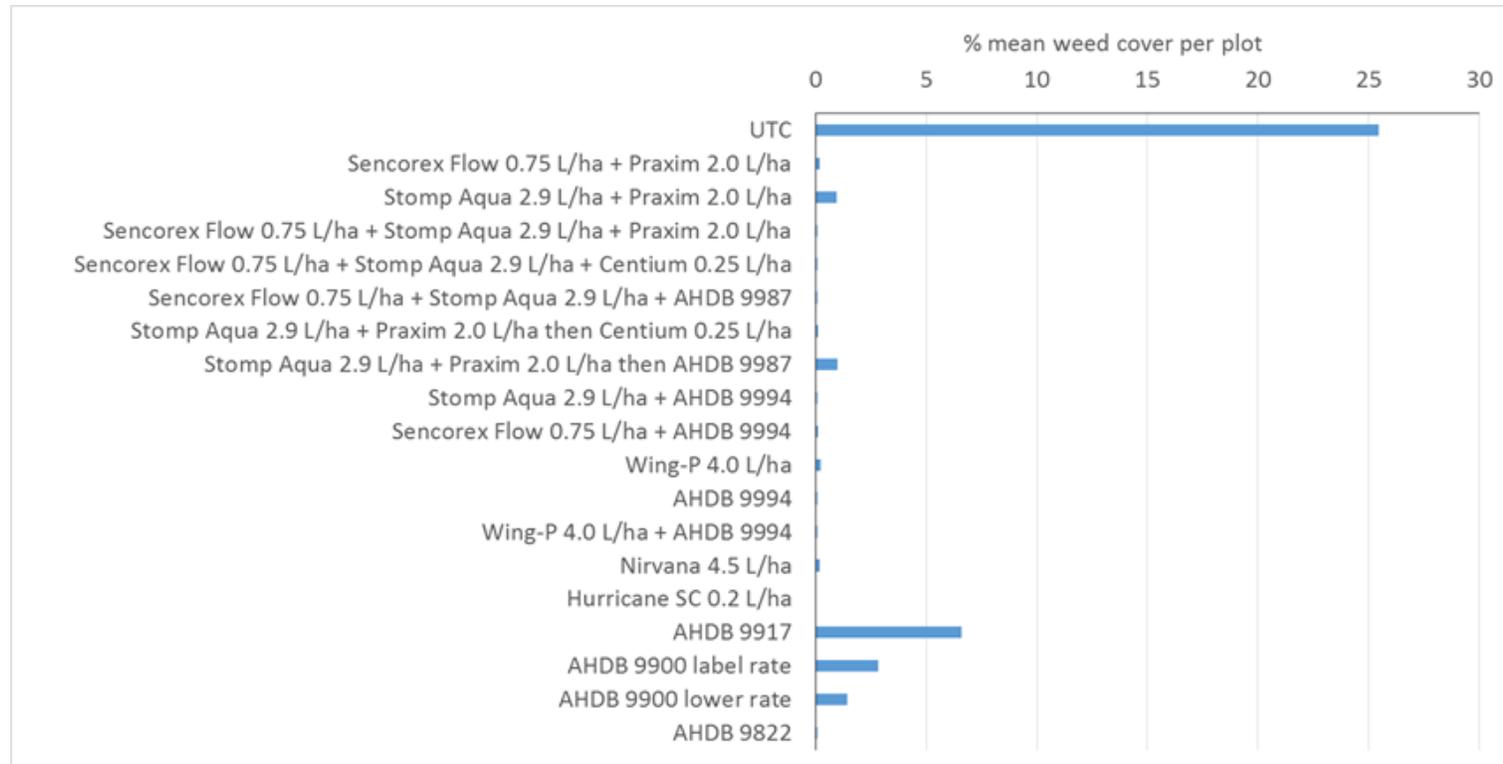
2025 3340 – protected ornamentals

AHDB trialled Emerger in SceptrePlus (SP18) dormant narcissus herbicide screen

Emerger (AHDB 9994) significantly reduced the overall weed cover in every assessment ($p > 0.05$) with no significant effect on mean leaf height, number of buds per meter, or flower quality and size.

Emerger would be a useful addition for shepherds purse, annual meadow grass and small nettle control.

Application between October and April



Renewal EAMU: Microthiol Special

Microthiol Special – New MAPP 20705

Renewal EAMU authorised for outdoor and protected ornamental plant production and forest nursery. And then corrected to remove 'permanent protection' restriction

- (2) Treatment must only be made under 'permanent protection' situations which provide full enclosure (including continuous top and side barriers down to below ground level) and which are present and maintained over a number of years.



Priority Targets for Ornamentals

| | Pest | Disease | Weed |
|-----------------------|------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------|
| HNS container | Mealybug Aphid Vine weevil | Bacterial Canker / Leaf spots Downy mildew Root rot Fungal leaf spot | Bittercress Willowherb |
| HNS field | Capsid bugs Beetles | Bacterial Canker/ Leaf spots Root rots /replant disease Fungal Leaf spots / Blights | Marestail |
| Pot plants | Aphids Thrips Whiteflies Vine weevil | Downy mildew Botrytis Powdery mildew | |
| Bedding | Aphid | Downy mildew Botrytis Powdery mildew | |
| Narcissus | Stem nematodes Slugs Large narcissus fly | Fusarium basal & neck rot White mould Smoulder Leaf scorch | Broad leaf weeds Moss Annual grasses |
| Cut flowers and bulbs | Thrips | Downy mildew Rust Sclerotinia Fusarium | Thistles Broad leaf weeds |

Risk registers for each sector score likelihood of occurrence and severity of crop damage to identify concerns and prioritise HCP activity



Ornamental EAMUs submitted

| Product | Active | protected | outdoor low | outdoor high | Target | Submitted | Cost to Association |
|--------------|--------------------------------|-----------|-------------|--------------|----------------------------------------------------|---------------------------------------|---------------------|
| Arizona | folpet | | | | downy mildew, leaf spots | July 24 | £5,304 |
| Vivid 200 | pyraclostrobin | | | | powdery mildew, fungal leaf spots, rusts, botrytis | Oct 24. BASF fully funded | £0 |
| Belanty | Revysol mefentrifenconazole | | | | powdery mildew, fungal leaf spots, rusts | April 25 | £5,304 |
| Talius | Proquinazid | | | | powdery mildew | October 25 | £5,304 |
| Kanemite | Acequinocyl | | New EAMU | New EAMU | mites | August 24. Certis 50% contribution | £2,652 |
| Goltix 70 SC | metamitron | | | | weeds | April 25 | £0 |

EAMU Possibilities for Glasshouse Crops 25/26

- Topas amend – try and remove 21-day long clothing requirements for workers in protected situations
- Downy mildew products – one LTAEU, and one new (Percos replacement with ametoctradin)
- Drench uses
 - Black root rot – new GB active (US have drench uses)
 - Sciarid – Microbial products (Beauveria & Metarhizium)
- Caterpillar product – EAMU for protected use on new ornamental insecticide with outdoor uses on-label
- Aphid / Whitefly product
 - Recently authorised for outdoor uses
 - HCP to try for glasshouse uses on EAMU at both lower aphid rate and higher whitefly rate



Figure 1. Glasshouse whitefly adult holds its wings flat when at rest



Figure 2. Tobacco whitefly adult holds its wings in a tent-like shape and slightly apart, showing its yellow body colour



HCP Communications



Latest EAMUs and emergency authorisations

Access the latest EAMUs (extension of authorisation for minor use) and EAs (emergency authorisations) for UK horticulture crop protection.



Crop protection

Concise intro linking to main page.



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Website

www.hcpltd.org

Links to new EAMU and Emergency authorisations

Information on HCP board, membership,

Detail on HCP services, trial management, non-dietary exposure calculations

Linked In

New EAMUs, Emergencies, Amendments, Corrections

Both HCP applications and others

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