



Horticulture
Crop Protection

The role of HCP
in securing crop protection solutions
for protected ornamental crops

Jo McTigue

Why the need for HCP?



Most horticulture crops rely on EAMUs (Extension of Authorisation for Minor Use) for crop protection. On-label product uses tend to be major* crops. Less company resource is available to 'Minor Crops'.



Following the 'no' vote in the AHDB ballot a subscription-based model for achieving EAMU product authorisations was favoured.



A centralised, specialist team was the preferred option to ensure consistent quality of applications, benefit of shared knowledge and access to products, and efficiencies in time and resource.



In April 2023 HCP commenced operations. HCP is grower owned, not-for-profit, and all decisions on spend are made by member associations

*Major UK crops: grassland, barley, forage maize, oats, wheat, dry harvested field beans, oilseed rape, sugar beet and potatoes (other than seed). All other basic crops are considered minor and may be considered for an EAMU

HCP membership

Vining Crops	Vegetables	Fruit
Cucumber and Pepper Growers Association	Asparagus Growers Association	British Apples and Pears
Tomato Growers Association	Beetroot Association	British Stone Fruit
British Hops Association	Celeriac and Fennel	Cider Apple Growers Association
GB wine	Brassica Growers Association	Blackcurrant Growers
Ornamental Crops	British Carrot Growers Association	British Berry Growers
British Protected Ornamentals Association	British Leafy Salads Association	Rhubarb Growers Association
Horticulture Trades Association	British Herbs Association	Other
British Christmas Tree Growers Association	British Onion Producers Association	Mushroom Growers Association
(Narcissus) Bulb Growers Association	Leek Growers Association	Minor Crop Group (Cereals & Oilseeds)
Cut Flowers Association	Outdoor Cucurbits	Plant Propagators Ltd
	Pea and Bean Growers Association	
	Sweetcorn Growers Association	
	Seed Potatoes	

Governance- HCP Board Members

Ali Capper:	Chair British Apples and Pears
Jack Ward:	Company Secretary - British Growers Assoc.
Simon Conway	CEO
Rob James:	Protected Edibles
Rob Parker:	Leafy Salads
Robin Squance:	Protected Ornamentals
Charles Carr:	HTA
Louise Sutherland:	Berries
Derek Wilkinson:	Field Vegetables
Keston Williams:	Field Vegetables/Cucurbits/Sweetcorn
Sam Rix:	Onions
Tim Lacey	Technical Advisor

HCP Team



Simon Conway

CEO (part-time)

Joanna McTigue

Vining crops
Ornamentals
Mushrooms

Risk registers
Worker exposure
Biologicals

Kim Parker

Field veg
Leafy salads
Herbs

Residue Trials
Seed treatments

Carlos Duarte

Soft fruit
Top fruit
Rhubarb

Grace Emeny /
Sandra Hey

Legumes
Outdoor cucurbits
Sweetcorn
Asparagus
Cereals &
Oilseeds

Lindsey Daniel

Administrative
support

Activity since April 15th 2023

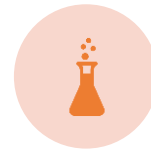


Budget agreed & Associations invoiced.

5 new member Associations



28 EAMUs granted plus 12 Emergency authorisations



~80 applications in review with HSE.

2 residue trials in preparation



15+ AgChem meetings convened

Plus AIC and IBMA



Meetings with agronomy organisations



European MUCF forum.

BCPC conference



24+ association technical mtgs / conferences.

Site visits



Liaison with NFU, DEFRA, DAERA, HSE.

Training with HSE

EAMU Process

‘A year in the making’



Risk register

- Pest / Weed / Disease targets assigned risk scores by growers / agronomists:
 - Likelihood of occurrence x Severity of crop damage / loss if present
 - Scores impacted by availability of actives and modes of action / resistance / other risk mitigation measures / changes to pest population

Risk Outcome		
Low	1-2	No action needed/Long term priorities
Moderate	3-6	Monitor/Long term priorities
Significant	8-12	Action/ Medium term priorities
High	15-16	Action / Short term priorities
Urgent	20-25	Urgent Action Access Reserves

		Crop loss (Percentage of yield decrease)				
		Insignificant	Minor	Moderate	Major	Catastrophic
		(0-5%)	(5-10%)	(10-20%)	(20-50%)	(50-100%)
Likelihood of pest or disease	Score	1	2	3	4	5
Almost Certain	5	5	10	15	20	25
Likely	4	4	8	12	16	20
Possible	3	3	6	9	12	15
Unlikely	2	2	4	6	8	10
Rare	1	1	2	3	4	5

Priority Targets for Ornamentals

	Pest	Disease	Weed
HNS container	Mealybug	Bacterial Canker / Leaf spots Downy mildew Root rot Fungal leaf spot	Bittercress Willowherb
HNS field	Capsid bugs	Bacterial Canker/Leaf spots Verticillium Box blight	Marestail
Pot plants	Aphids Thrips Vine weevil	Downy mildew Botrytis Powdery mildew	
Bedding	Whitefly Aphid	Downy mildew Botrytis Powdery mildew	
Narcissus		Fusarium basal rot Fusarium neck rot White mould Smoulder	Broad leaf weeds
Cut flowers and bulbs	Thrips	Rust Petal blight Sclerotinia Fusarium	Thistles Broad leaf weeds

Ornamental Groupings



Pot and bedding Plants – BPOA / HTA

Cut flowers and bulbs – BPOA sub group / HTA

Narcissus – CABGA / HTA

Hardy nursery stock – HTA

Trees and hedging – HTA

Christmas trees – BCTGA

Forest nursery trees – HTA

Fruit nursery trees – HTA / Fruit associations

Overheads to be split between Associations

EAMUs / Emergencies / Trials to be paid for as required

Overarching committee

New EAMUs in 2022/23

Product	Active	Bedding & potplants	HNS (container)	Cut flowers	PPFE	Temp Protected	Target	Comments
Taegro	Bacillus amyloliquefaciens FZB24	x	x	x	x	x	botrytis, powdery mildew	EAMU 2022 2404
T34	Trichoderma asperellum strain T34	x	x		x		fusarium, pythium	On label amendment from peat to organic media. AHDB confirmed possibility with CRD, Fargro submitted.
Decis Protech	Deltamethrin	x	x	x	x	x	Aphids, whitefly (TRIAVA), caterpillars, thrips, capsids, scale insects, mealy bugs	Replace Decis Forte Handheld uses only under protection, Higer rate under protection 2022 3553
Boxer	Florasulam		x	x		x	Weeds	New MAPP Complete EAMU TBC
Centurion Max	Clethodim		x	x		x	grass weeds	LTAEU replacement. Application between March & June/September depending on rate used. 2022 2336
Thiopron	Sulphur	x	x	x	x	x	Black spot, powdery mildew, rust & gall mite, scab	Liquid formulation, more uniform coverage, better efficacy 2023 2028 (MAPP 19147) & 2023 2029 (MAPP 20671)
Starane XL	Fluroxypyr + florasulam	x	x	x		x	Broadleaved weeds (inc. cleavers, brassicas, mayweed, groundsel, and vOSR)	Renewal at lower rate. 2023 2516

Upcoming EAMUs for Protected Ornamentals

	With CRD	Agreed for 2024	Pipeline for 2024
Fungicides	7	5 (+1 renewal)	4
Insecticides	0	1	1
Herbicides	4		

Horizon scans completed

Downy mildew

Drench use against root aphid / sciarid fly

Mealybug

New proposals for horizon scans

Whitefly

Bacterial diseases

Signing Off on EAMUs



£1768 each

Formal sign off necessary before EAMU submission

- Agreement in Crop Association biannually on products
- Formal email sign off process
 - Go ahead for HCP to make application
 - Agreement to fund

Invoiced following CRD invoice to HCP – pre-evaluation

1 year evaluation before authorisation

Authorisation not guaranteed

Regulatory Change

Three EAMUs required, previously just one:

Submissions now split according to environmental risk assessment

- Glasshouse (PPFE – permanent protection with full enclosure)
- Field crops (including tunnels) – application downwards
- Orchard crops – application upwards

Impact:

- 3x cost
- Single GAP per EAMU (application rates, number, timings, etc)
- Better tailored to crop group – more practical EAMU
- PPE requirements separate rather than worst case

EAMU clarification



Protected - 'Any crop grown under a permanent or temporary cover'.

- Temporary cover includes:
 - Tunnels with open sides
 - Rain covers
 - Plastic Mulches / Cloches / Fleece or Polythene covers, nets

PPFE – Permanent Protection with Full Enclosure

1. 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.
2. Reasonable precautions must be taken to prevent access of birds, wild mammals and honey bees to treated crops.
3. To minimise airborne environmental exposure, vents, doors and other openings must be closed during and after application until the applied product has fully settled.

EAMU clarification



PPE

'Workers must wear suitable protective clothing in which arms, body and legs are fully covered and suitable protective gloves when re-entering treated areas or handling treated x crops or contaminated surfaces within y days or z weeks after treatment.'*

In clarification of the worker exposure phrase above, which appears on some PPP authorisations, 'treated area' refers to the immediate vicinity of a treated crop rather than a whole protected structure of which only part accommodates a treated crop. It is not a condition of the authorisation that workers must wear workwear when entering the structure to undertake activities on other crops not treated or other activities not related to the treated crops.

*Contaminated surfaces are considered under protection

EAMU clarification



New Inspection and Irrigation only option

Non dietary exposure modelling previously assumed worker exposure for 8 hrs per day.

This new option assumes just 2hrs of entry.

Exclusion periods:

DO NOT ENTER [TREATED CROPS] for [X days/weeks] after treatment

DO NOT HANDLE [TREATED CROPS OR CONTAMINATED SURFACES] for [X days/weeks] after treatment.

DO NOT ENTER / HANDLE [TREATED CROPS] EXCEPT FOR IRRIGATION OR INSPECTION for [X days/weeks] after treatment.

Further clarifications:

PHI on authorisation – meaning for ornamentals?

To note

Treated seed

Seed that has been treated with a product authorised for that purpose in an EU member state will continue to be traded and used in Great Britain from 1 January 2024. After that, treated seed can continue to be used in Great Britain if it has been treated with a product authorised for that purpose in Great Britain.

Parallel trade

HSE has issued parallel trade permits with a final submission date of 30 June 2023 and new permits will be issued from 1 January 2024.

Where appropriate, parallel trade permits for Northern Ireland only will be considered for importation into Great Britain.

A new statutory Instrument (SI) is coming into force on 31 December 2023 extending the expiry dates for importation of treated seed and allowing HSE to accept applications for the temporary re-instatement of parallel trade permits in GB.

The expiry date for the importation of treated seed was 31 December 2023. This will be extended; interested parties will be able to continue to import, place on the market and use treated seed until 1 July 2027, this applies to seed treated in the EU and imported into GB.

Previously held GB parallel trade permits, that were in place on 31 December 2022, can be re-instated from January 2024. Permits will be issued by 30 June 2024 with an expiry date of no more than two years, or less if the reference product expires earlier. There will be an additional grace period of 18 months for sale, supply, use and storage

Help us to help you...



- Participate in BPOA Technical groups
- Take part in surveys:
 - What are your pest concerns?
 - Are there EAMUs that aren't practical to use?
 - Are there products you need (specific or activity)?
- Host site visits for HSE
- Keep in touch with HCP

Communications



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

Direct

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