

EAMU now
approved on
parsnips



VELUM
PRIME

Velum Prime

New for 2021

The new and innovative nematicide option for carrot growers





Introducing Velum Prime

It's now easier to protect carrot crops thanks to Velum Prime.

The new authorisation allows for broadcast and incorporation application, offering carrot growers an easy-to-use and alternative nematicide option to granules.

Velum Prime is a liquid formulation of the SDHI Fluopyram, offering a new approach to reducing the impact of typical root damage symptoms such as fanging and stubbing associated with free-living nematodes (FLN) and root-knot nematodes.

Velum Prime has a favourable environmental and residue profile (making it of strong interest to food retailers) and also has an incidental effect on *Sclerotinia* control*.

Velum Prime – the benefits

Velum Prime can help with the successful management of your carrot crop and has many benefits that make it an effective nematicide option for growers.



 <p>1 Velum Prime offers a new mode of action for controlling cyst, free-living and root-knot nematodes</p>	 <p>5 Co-application with Serenade for additional fungicidal effect and plant health benefits</p>
 <p>2 Matches the performance of granular nematicides but offers many additional benefits</p>	 <p>6 Flexible application: broadcast spray/ incorporation treatment at or before drilling**</p>
 <p>3 Easy to use: simple overall spray using existing kit and a low dose rate of 0.625 L/ha saves filling time and reduces costs</p>	 <p>7 Favourable beneficial, environmental and residue profile</p>
<p>32%↓ 4 Contribution to <i>Sclerotinia</i> control* (32% reduction over untreated)</p>	 <p>8 Reduces crop protection chemical load contributing to sustainable farm management</p>

How does it work?

Velum Prime is highly active in protecting carrot crops from nematodes:

- Its liquid formulation, containing 250 g/ha of Fluopyram with a low dose rate of 0.625 L/ha, is active against free-living and root-knot nematodes and has an incidental effect on *Sclerotinia* control*
- It works by inhibiting Adenosine Triphosphate (ATP) production in mitochondria, causing paralysis then death of juvenile nematodes



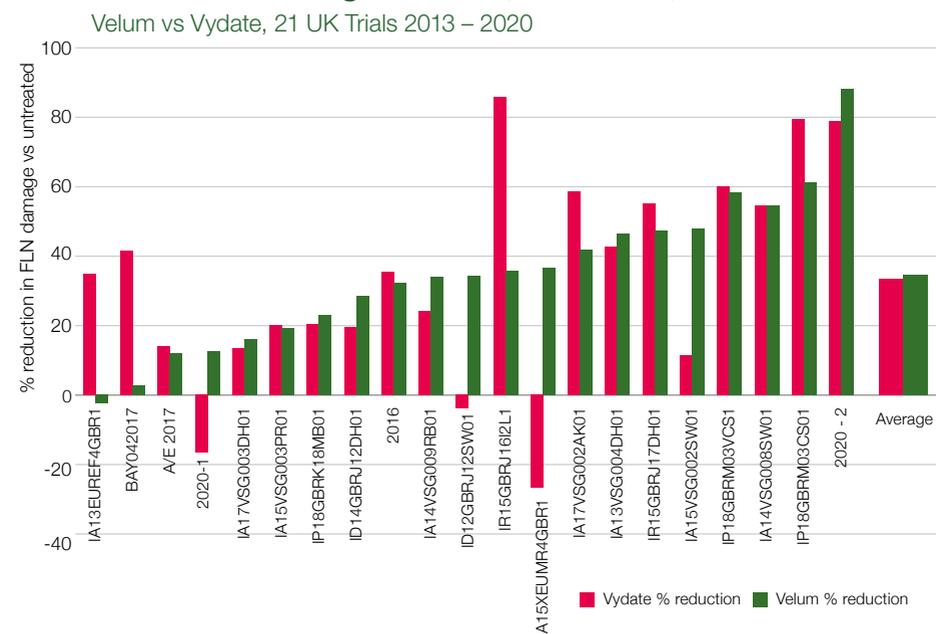
Images from grower strip trial, Norfolk 2020

Velum Prime in field trials

Offering both nematicidal and incidental fungicidal control in carrots, a variety of UK trials have revealed that Velum Prime:

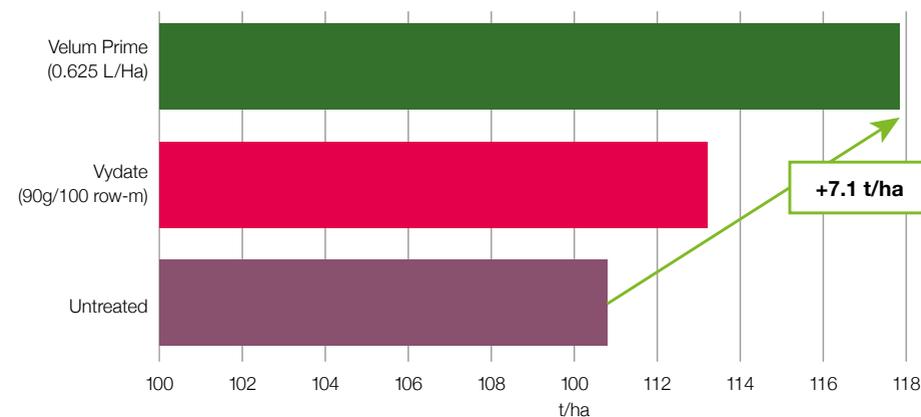
- Reduced FLN damage compared to untreated plots, by an average of 35% across 21 UK trials
- Delivered an increase in total yield of 7.1 t/ha with a marketable yield increase of 7.5% over the untreated
- Has an incidental effect on the reduction in *Sclerotinia* – 10 UK trials revealed a soil application of Velum Prime, with no foliar fungicides applied, resulted in an average 32% reduction over untreated. (Where Velum Prime has been applied the first foliar fungicide application made to the crop must not be a member of the SDHI group.)

% Reduction in damage vs UTC (FLN associated)



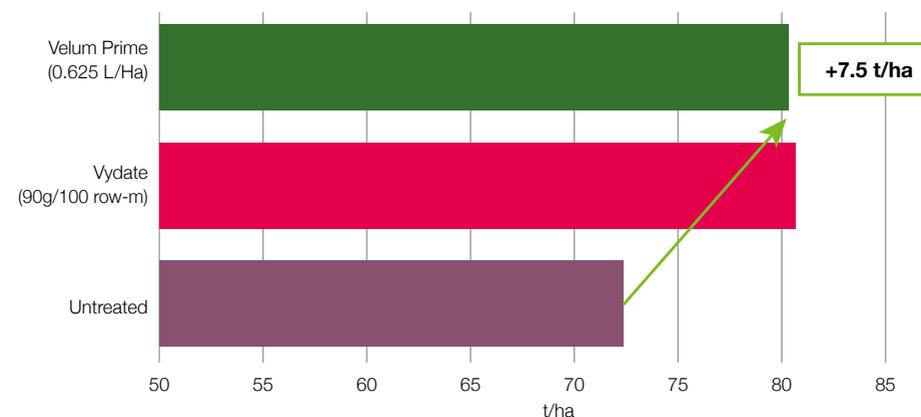
Velum Prime increases total yield (t/ha)

15 UK replicated trials (average), 2012 – 2018



Velum Prime increases marketable yield (t/ha)

15 UK replicated trials (average), 2012 – 2018



Application options



1 Farm horizontal boom sprayer

The Velum Prime application can be made to the flat soil following primary cultivations, ridged beds (where there is no requirement for destoning) or destoned beds.

The product must then be incorporated with rotary cultivation, such as a bed former, to a minimum depth of 10-20 cm ahead of planting.



2 Liquid applicator fitted to cultivation equipment

The Velum Prime application can be made to either the ridged beds (where there is no requirement for destoning) or to destoned beds from a liquid application system fitted to your cultivation equipment, such as a bed former. The product would then be immediately incorporated to a minimum depth of 10-20 cm in one pass and then the field planted. Liquid applicators can be fitted to existing rotary cultivation equipment, for enquires please contact a relevant machinery company.



Important application considerations

- Destoned beds must be level/even prior to application or there is a risk of uneven distribution of Velum Prime throughout the soil profile
- The drill alone does not provide sufficient incorporation to a minimum depth of 10-20 cm

Careful cultivation

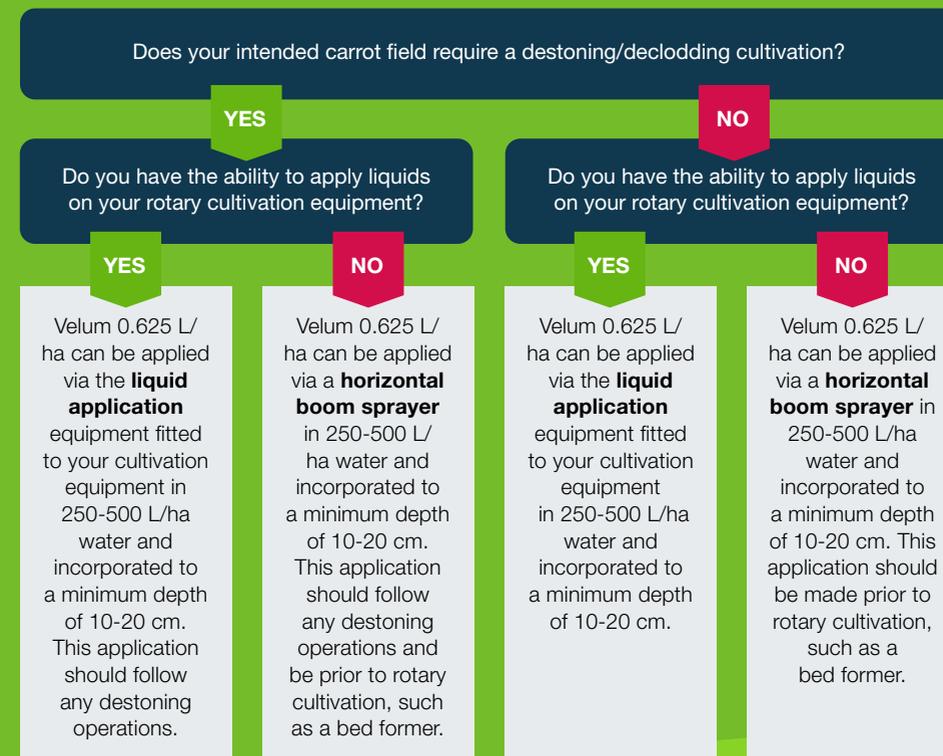
It is essential that any pre-drilling cultivations thoroughly incorporate Velum Prime evenly through the bed profile, to a minimum depth of 10-20 cm – particularly when more than 90% of carrot land requires destoning.

If you are in any doubt about which pre-drilling cultivation methods should be employed, then please contact your agronomist or local Bayer Commercial Technical Manager.

Broadcast and incorporate method: example cultivation sequences	
High stone/clod soil content DESTONING REQUIREMENT	Low stone/clod soil content NO DESTONING REQUIREMENT
Deep ridging → destoning → Velum Prime application → incorporation via bed former → drilling	Primary cultivations/deep ridging → Velum Prime application → bed former → drilling
Velum Prime should only be applied after destoning operations have been carried out. Such operations can move soil from 30-40 cm depth, leading to a risk of dilution and banding of the product.	Application positioning will be made on a case-by-case basis. Velum Prime may be applied to the flat soil following primary cultivations or to ridged beds ahead of rotary incorporation and drilling.
Thorough incorporation of Velum Prime should be made by a rotavator or bed forming cultivation and must be to a minimum depth of 10-20 cm	

Flexibility of application

There are different options for Velum Prime application and our Decision Support Tool can help you to determine the most appropriate route.



Getting the most out of Velum Prime: when and how to apply



Label specifics	
Maximum individual dose	0.625 L/ha in 250-500 L/ha water – MEDIUM or COARSE spray quality (as defined by BCPC) is recommended
Maximum number of applications	1 every 2 years via broadcast spray
Timing	February to June Up to a maximum of 72 hours prior to drilling
Depth	Soil incorporation must be to a minimum depth of 10-20 cm

Over to you

If you are interested in finding out about Velum Prime in carrots, please visit cropscience.bayer.co.uk/velum or contact your local Bayer Commercial Technical Manager for further information.



Velum Prime contains Fluopyram. Velum Prime is a registered Trade Mark of Bayer. Use plant protection products safely. Always read the label and product information before use. Pay attention to the risk indications and follow the safety precautions on the label.

The use of Velum Prime on parsnips is permitted under EAMU 0288/2021. Users are required to be in possession of the relevant Extension of Use.

This can be obtained from the Chemicals Regulation Division (CRD) website. Neither the efficacy nor the phytotoxicity of the product for which this extension of authorisation has been granted has been assessed and, as such, the user bears the risk in respect of failures concerning its efficacy and phytotoxicity. For further information, including contact details, visit www.cropscience.bayer.co.uk or call 0808 1969522. © Bayer CropScience Limited 2021

