



OPTIMISING GROWTH AND YIELD IN SUGAR BEET

The season so far

- Wet March and April has delayed drilling and establishment
- Potential for yield impact on late drilled crops
- Early aphid migration into backward crops could increase virus infection

Agronomic advice

- Assess crops at higher risk of virus infection
- Reduce crop stress to ensure continuous crop growth
- Optimise disease control to retain green leaf area and yield building throughout the season

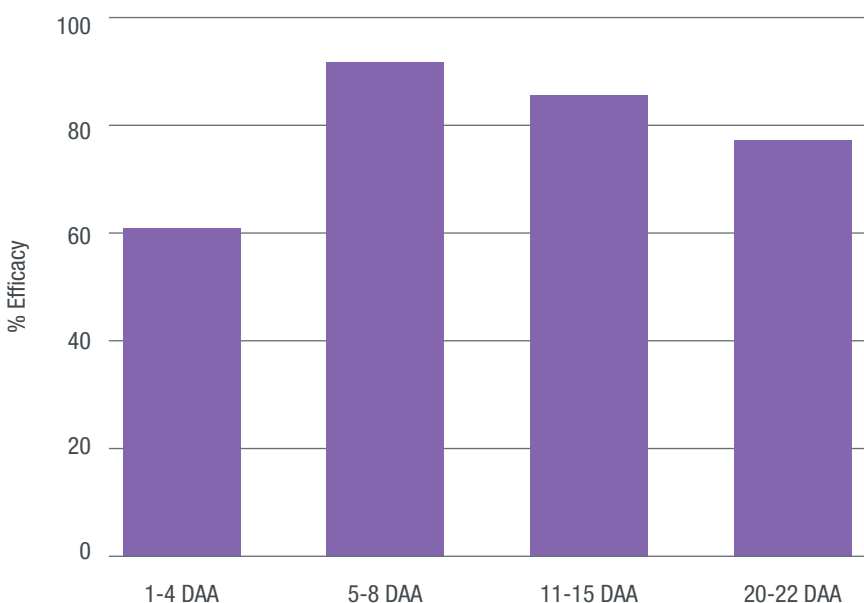
Virus yellows and aphid control

Viruses have the potential to reduce crop yields by up to 40% with early infection having the biggest impact. Rothamsted Insect Survey shows that Peach potato aphid migration started in mid-April putting newly emerged crops at high risk.

- Crops treated with CRUISER® SB under Emergency Authorisation, will have protection for up to 8 weeks and should therefore not require further aphicide if beyond the 12 leaf stage. If treatment is needed the first aphicide should be from another mode of action (MOA) such as AFINTO®
- Crops not treated with CRUISER SB could be at risk very soon. Apply AFINTO when wingless aphids are found. AFINTO will give control of resistant Peach potato aphid

Peach potato aphid control

Average of 6 trials in 2022 (DE, FR, UK)



MAPP No: 19622

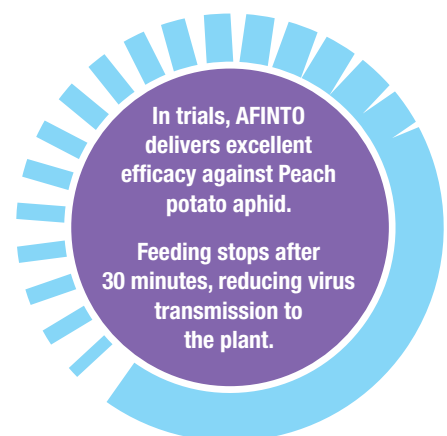
Active ingredient: 500 g/kg flonicamid

Crops: Sugar beet and fodder beet

Rate or use: 0.14 kg/ha

Number or applications: 1 application

Latest application timing: 60 days before harvest



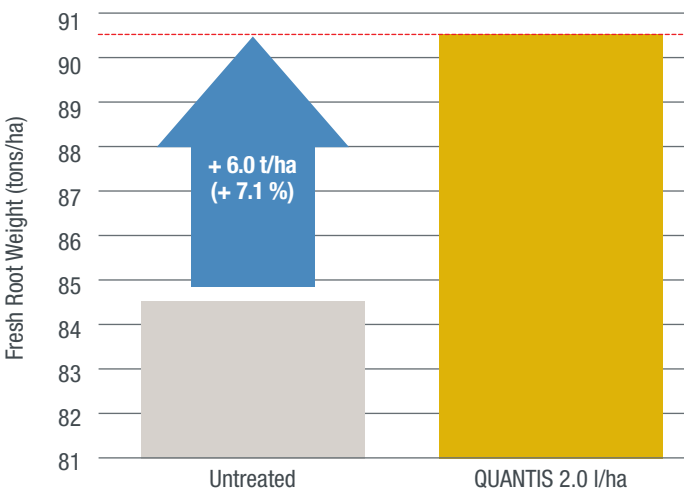
QUANTIS™ – reduce crop stress, maintain growth and build optimum yield

Independent research has shown QUANTIS can counter the effects of crop stress that can reduce yield and sugar content. Heat stress can stop crops growing, reducing yield and potential. Using QUANTIS before high temperatures are forecast will minimise the effect of stress and get your crop growing again. For optimum timing use the QUANTIS heat stress tool.



Priming sugar beet with QUANTIS before stress event improves final yield

Average of 6 trials



Trials conducted: 2021 & 2022.

Contractors: 2x GCI, 1x RAA, 1x Armstrong Agriculture, 1x Syngenta, 1x BBRO



Quantis™

To reduce effects of abiotic stress in sugar beet

Crops treated: Sugar beet

Rate of use: 2.0 l/ha

Number of applications: Up to 3 applications, when stress periods occur

Treatment timing:

- Ahead of first heat stress event
- Use the Syngenta Heat Stress Event forecast to time applications
- Repeat application before further heat stress events

Tank mix: with fungicides if applicable

Crops: Potatoes, Cereals, Maize and Vegetable crops

Visit www.syngenta.co.uk/quantis

When to use QUANTIS?

New research for 2022 revealed highest returns of yield and sugar content with an application of QUANTIS before the first heat stress event. Maintain applications as repeated stress events occur.

Applications in sugar beet from the time of crop cover (GS31), when the tap root begins to expand, have been shown to be effective at reducing the effects of stress and enabling sugars to be better transported to roots.

Apply QUANTIS at the rate of 2.0 l/ha prior to a stress event.

Register for the Syngenta Heat Stress Event Forecast to receive up to 14 days advance warning of local heat stress events and crop risks.

Visit www.syngenta.co.uk/quantis

Syngenta's **NEW** heat stress app
COMING SOON!







PRIORI® Gold – first choice for sugar beet disease control

With late drilled crops in 2023, don't let green leaf area loss and disease reduce your yield potential. Apply PRIORI Gold at first signs of disease to maintain a healthy canopy and ensure your crop keeps bulking for as long as possible.

Disease control + green leaf retention

Combination of strobilurin + triazole actives in one, for better disease control + built-in resistance management.

PRIORI Gold is effective on all UK diseases - rust, powdery mildew, *Cercospora* and *Ramularia*.

Rust	Powdery mildew	<i>Cercospora</i>	<i>Ramularia</i>
			
When: July onwards	When: July to early autumn	When: Mid July to October	When: Mid to late autumn
Risk: Damp conditions and temperatures between 15–22°C. Varietal susceptibility	Risk: Mild winters, dry and warm conditions. Varietal susceptibility	Risk: Warm wet weather, with temperatures above 25°C. No resistant varieties	Risk: Cooler temperatures (17–20°C) and wet conditions
Severity: Up to 10–14% yield reduction	Severity: Early infections can reduce yields by up to 20%	Severity: Increasing problem in the UK. Losses can exceed 50%	Severity: Usually very low
PRIORI GOLD STAR RATING			
*****	*****	***	*****



For control of foliar diseases in sugar beet

MAPP No: 19226

Active ingredients: 125 g/l azoxystrobin + 125 g/l difenoconazole

Crops: Sugar beet, fodder beet

Rate of use: 1.0 l/ha

Number of applications:

2 applications, minimum of 21-day intervals

Latest application timing:

No less than 35 days prior to harvest



Spray Assist

Optimise PRIORI Gold

- Apply preventatively before disease symptoms appear
- Assess disease risk conditions to time applications
- Treat disease susceptible varieties first
- Use as part of a season-long fungicide programme
- Download our Spray Assist App for optimum application www.syngenta.co.uk/spray-assist

Unleash the crop's green leaf potential to drive yield



Untreated



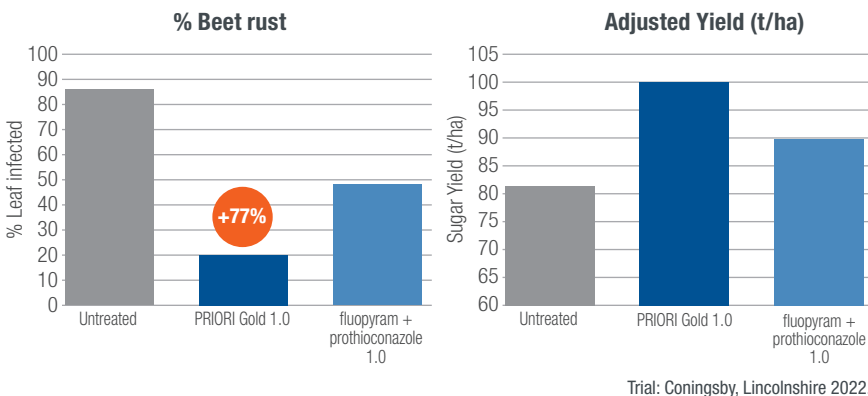
PRIORI Gold

Trial: Coningsby, Lincolnshire 2022.
Pictured eight weeks after treatment

Autumn growth can account for up to 40% of yield potential, so foliar disease control is critical to maximise grower return.

Source: British Sugar

Outstanding performer in 2022 over 75% control of rust – the best available



PRIORI Gold provides:

- Protection against all key sugar beet diseases
- Built-in resistance management
- Increased yield and sugar content
- Early-season disease control
- Performance proven year-on-year

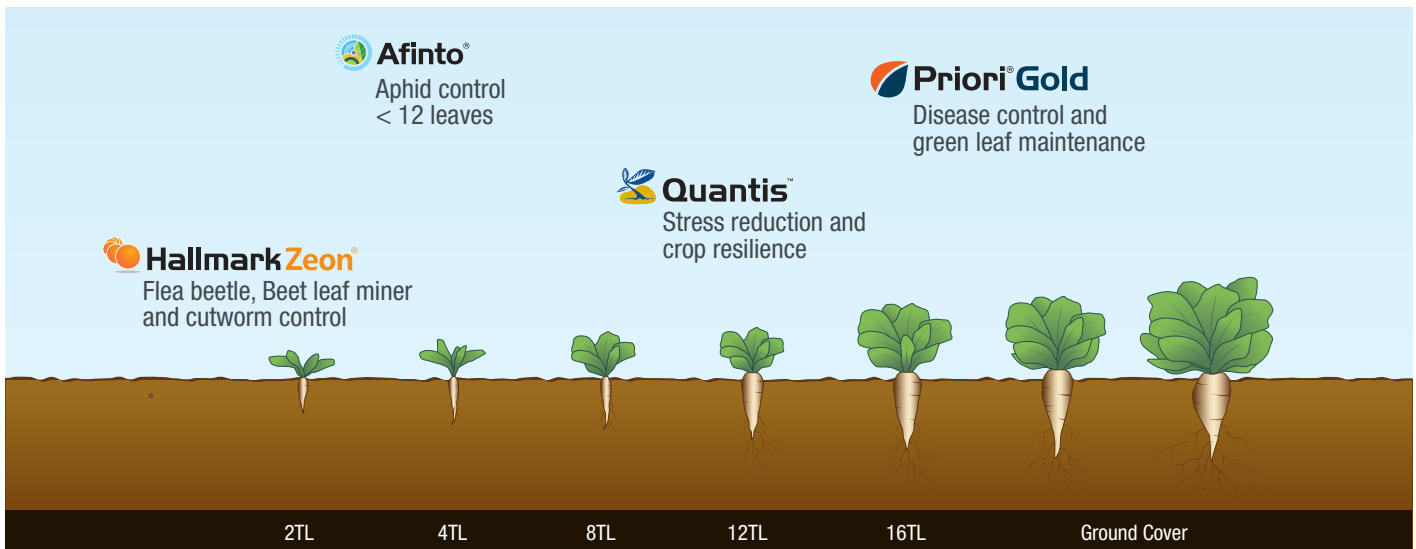


Fungicide application in sugar beet. Inset: Twin angled nozzles

Application advice

- For early applications (up to 8-12 true leaves), use angled nozzles with a medium to coarse droplet pattern, applying 100 l/ha water volume.
- With later applications targeting the green leaf canopy, use a coarse droplet nozzle and apply at 200 l/ha water volume to improve foliage penetration and coverage of lower leaves and crown.
- The use of 90% drift reduction 3D ninety nozzles has been shown to reduce risk of drift and, for sugar beet foliar applications, could deliver more spray to the lower leaves in the canopy. Fit nozzles facing forwards and backwards along the sprayer boom to alternate the angled spray pattern.
- The angled body of the Syngenta 3D ninety nozzle optimises targeting throughout the canopy, with the very coarse droplet spectrum giving more effective penetration to the crown.
- Drift reduction nozzles improve the stability of the spray pattern to deliver more consistent leaf coverage of the complete canopy, particularly in sub optimal conditions.

Product application timeline



Beet moth

Last year growers saw major issues with Beet moth in some areas. The larva of this pest burrows into the growing point of the plant, seriously reducing canopy and root growth. First egg lay has been observed in late May/early June, with further generations 30 to 40 days thereafter in dry and warm weather. It's thought that heavy irrigation or rainfall will reduce activity.

Use scouting and pheromone traps to help time the control of this difficult pest.



MAPP No: 12629

Active ingredient: lambda-cyhalothrin

Crops: Sugar beet

Pests controlled: Flea beetles, Beet leaf miner and cutworm

Rate of use: 75 ml/ha

Number of applications: 2

Latest application timing:
8 weeks prior to harvest

syngenta®