

FODDER BEET

USER GUIDE

Escolta

Control foliar diseases
and drive higher yields



ESCOLTA



Maximise the potential of your crop – powerful control of foliar diseases in fodder beet crops.

Fodder beet and sugar beet are an increasingly popular choice among New Zealand farmers because of their heavy yields and high, energy rich dry matter content. Maintaining leaf quality and retaining green leaf area on beet crops maximises the nutritional value for animals. While the bulbs provide an important source of carbohydrate, the crop leaves deliver a valuable source of protein. The large area of fodder beet now grown in New Zealand is under increasing threat from disease infection. Apart from being unsightly, foliar diseases will reduce the palatability of leaves and diminish yields. Escolta, a powerful co-formulation containing two active ingredients (a triazole and a strobilurin), controls the four most common foliar diseases in beet crops; powdery mildew, rust, Cercospora and Ramularia leaf spot. By controlling these diseases, Escolta maximises green leaf retention and provides physiological benefits, delivering improved crop greening and yield benefits (*see overleaf for yield trial results*).



Beet rust



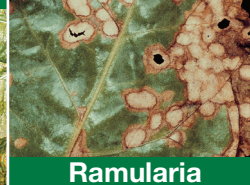
Cercospora



Powdery mildew



Ramularia



Technical update: In 2018/19, Cercospora resistance to QoI fungicides was found in beet crops in a small number of NZ locations. If Cercospora resistance is present in your crop, and conditions favour disease development, Escolta may not always provide control, but it will continue to control other important diseases, leading to profitable yield increases.

For more information, go to www.cropscience.bayer.co.nz/escolta

Visual disease control and greening effect



Untreated control



Escolta x 1



Escolta x 2

For more information on driving yield and using Escolta go to www.cropscience.bayer.co.nz/escolta



Escolta increases yield!

During the 2016/17 season, Bayer Crop Science undertook 18 block trials in commercially grown farmer beet crops from the lower North Island, Canterbury, Otago and Southland.

Average 18 Trials

Average Tonnes DM/ha



These trials included an untreated, 1 application of Escolta and 2 applications of Escolta treatments. Some trials included untreated and 2 Escolta treatments only. These trials were undertaken to demonstrate disease control, crop greening effects and measure yield benefits.

All crops were assessed by independent crop assessment companies using their industry standard assessment methods. Yields are an average of the combination leaf and bulb measurements expressed in Tonnes of dry matter per hectare.

As an average across all 18 trials, the Escolta treatments resulted in outstanding yield benefits (+15%). The \$ value was calculated using a value of 20c/kg for dry matter. Across the majority of trials the Escolta treatments were clearly obvious, with minimal disease present and increased crop greening.

Untreated

Escolta x 2

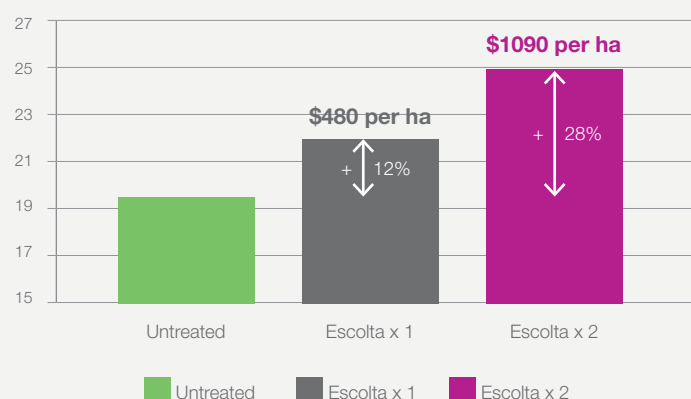
Wairarapa



Escolta Demo - Wairarapa

Assessment: May 2017

Average Tonnes DM/ha



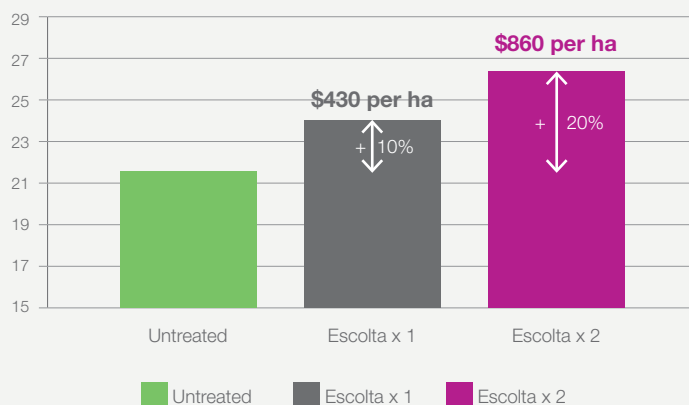
Culverden, North Canterbury



Escolta Demos - Culverden

Assessment: May 2017

Average Tonnes DM/ha



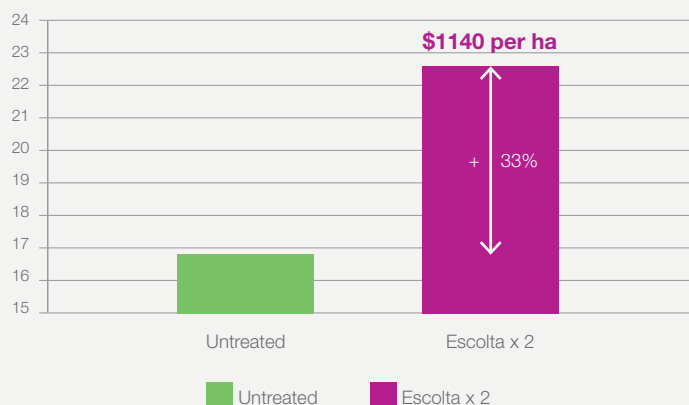
Swannanoa, Canterbury



Escolta Demo - Swannanoa, North Canterbury

Assessment: June 2017

Average Tonnes DM/ha



Escolta Demos - Ashburton

Assessment: June 2017

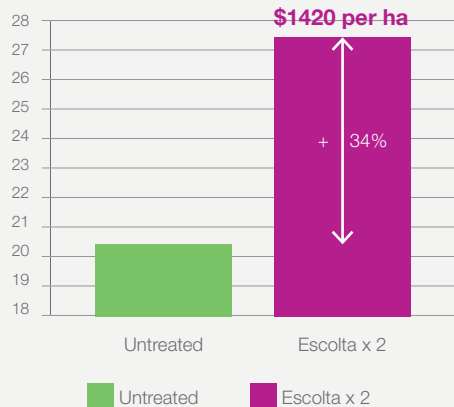
Average Tonnes DM/ha



Escolta Demos - Geraldine

Assessment: June 2017

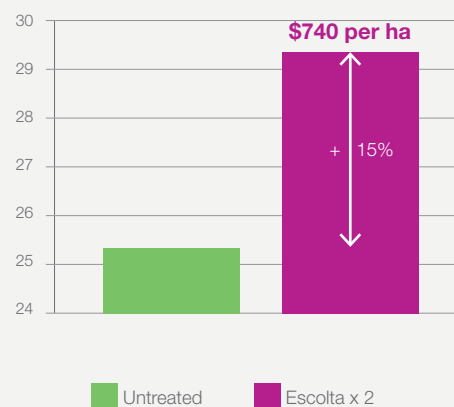
Average Tonnes DM/ha



Escolta Demos - Southland

Assessment: June 2017

Average Tonnes DM/ha



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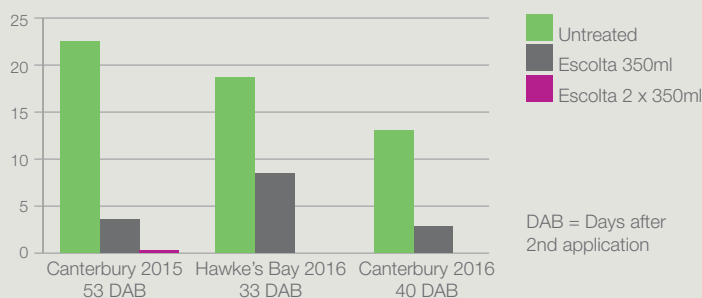
QUICK GUIDE: USING ESCOLTA

CROPS	Fodder and sugar beet.
DISEASES CONTROLLED	Rust, powdery mildew, Cercospora and Ramularia leaf spot.
RATE	350 ml/ha.
NUMBER OF APPLICATIONS	Maximum of 2 applications per season.
SPRAY TIMING	Make the first application when disease is first seen in the crop and before disease becomes established. Make a second application 3-4 weeks later. Ensure a minimum of 21 days between applications.
WATER RATE	Ground application – use 200 litres of water per ha. Aerial application – use 80 L/ha.
COMPATIBILITY	Escolta can be safely tank mixed with YaraVita Betatrel, YaraVita Croplift K, YaraVita Molybor, Headland Vanir, Headland Boron and Gromore Brassica.
WITHHOLDING PERIOD	42 days.
PACK SIZE	5 litre plastic bottle. Agrecovery compatible.

Trials Results 2015-2016

– powdery mildew

% diseased leaf area

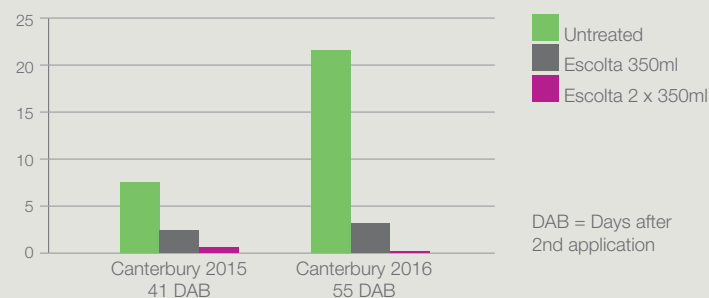


Trials in New Zealand (as shown above) have demonstrated the effectiveness of Escolta in controlling powdery mildew and rust. In these trials two applications of Escolta were applied, the first

Trials Results 2015-2016

– beet rust

% diseased leaf area



shortly after row closure and the second 3-4 weeks later. The trials demonstrate the efficacy advantage of two applications versus one application.

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Insist on Escolta from Bayer.

www.cropscience.bayer.co.nz/escolta



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