



Trial summary 2020/21 season

sakura[®]

The start of your grass weed control
strategy in wheat* & triticale.



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*Not durum wheat

Sakura – trial summary 2020/21 season

In 2020/21 Bayer conducted two field trials in South Canterbury, at Orari and St Andrews, to investigate the control of annual ryegrass.



TRIAL INFORMATION

Site	Orari	St Andrews
Resistance status Group B	Sensitive	Partial resistance
Pre-sowing, pre-emergent herbicide	23/4/20	23/4/20
Planting date	24/4/20	25/4/20
Sakura applied post-sowing, pre-emergence	30/4/20	30/4/20
Post-emergent Othello OD herbicide applied	31/7/20	5/8/2020
Harvest date	2/3/21	Not harvested, silaged
Bayer trial number	HP21NZL060JS01	HP21NZL060JS02

At Orari, % control figures are based on panicle counts. At St Andrews, because the paddock was taken for a fodder crop prior to panicle emergence, the data provided is based on a visual assessment of plant control. When considering the data below it should be noted that to deplete the soil ryegrass seedbank control of 95% or greater is required. Images were taken at Orari 24/11/20.

Orari. April-July Rainfall 2020

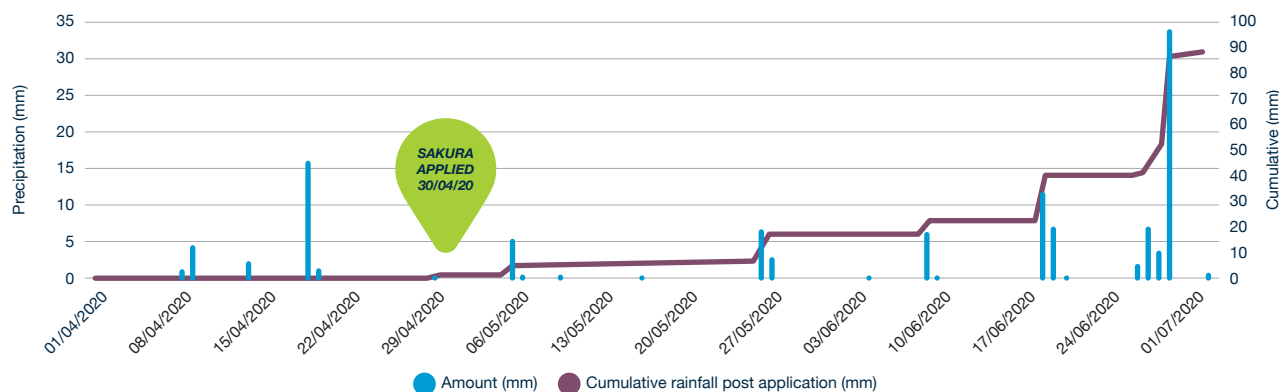


Table 1. Ryegrass control – benefit of a programme incorporating Othello OD

SITE	SAKURA 125 g/ha	SAKURA 150 g/ha	SAKURA 125 g/ha FB OTHELLO OD 1.0 L/ha	SAKURA 150 g/ha FB OTHELLO OD 1.0 L/ha	OTHELLO OD 1.0 L/ha
Orari	73%	83%	100%	100%	99%
St Andrews	77%	85%	89%	91%	68%

Across both sites Sakura gave control of ryegrass in the range on 73-85% in a season where dry conditions were experienced after application. Increasing the dose rate from 125 g/ha to 150 g/ha increased ryegrass control by 7-10%.

The benefit of using a Sakura/Othello OD programme was apparent at both sites but especially at Orari where it is likely ryegrass is susceptible to group B herbicides. (See right column in the Table 1).



Table 2. Ryegrass control – benefit of a pre-sowing herbicide

SITE	SAKURA 125 g/ha	SAKURA 150 g/ha	PRE-SOWING HERBICIDE FB SAKURA 125 g/ha	PRE-SOWING HERBICIDE FB SAKURA 150 g/ha
Orari	73%	83%	95%	96%
St Andrews	77%	85%	89%	95%

The benefit of using a pre-sowing herbicide followed by Sakura was apparent at both sites and at both Sakura dose rates (illustrated right).

The use of Sakura 150 g/ha appeared to bring greater consistency.

As illustrated in the table below the most effective and consistent control of ryegrass came from using a three spray herbicide programme based on a pre-sowing herbicide, Sakura applied pre-emergence and Othello OD applied late winter. However, the focus for ryegrass control should be the autumn with the pre-sowing and pre-emergence applications. This provides the greatest insurance against dry autumn conditions.

Using both pre-sowing and Sakura herbicides followed by Othello OD in late winter ensures only one Group B herbicide application is required in the spring.



Table 3. Ryegrass control - benefit of a full programme (pre-sowing herbicide/Sakura/Othello OD)

SITE	SAKURA 125 g/ha	SAKURA 150 g/ha	PRE-SOWING HERBICIDE FB SAKURA 125 g/ha FB OTHELLO OD 1.0 L/ha	PRE-SOWING HERBICIDE FB SAKURA 125 g/ha FB OTHELLO OD 1.0 L/ha
Orari	73%	83%	100%	100%
St Andrews	77%	85%	94%	95%

The benefit of using a comprehensive herbicide programme incorporating pre-sowing herbicide followed by Sakura and Othello OD was apparent at both sites and at both Sakura dose rates. By using this programme, control to the level required to stabilise or reduce the ryegrass seed bank was achieved. It also appeared this could be achieved using Sakura 125 g/ha.

Pre-sowing herbicide used was AVADEX XTRA 2.8 L/ha. This was used for experimental purposes only as AVADEX XTRA is only registered for the control of wild oats.

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We're with you in the field

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