

Sakura® 850 WG herbicide- 2011 commercial evaluation

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11WMG01

Purpose:	To demonstrate Sakura's commercial fit for efficacy on barley grass and yield compared to the grower's standard treatment in wheat.
Location:	Badgingarra
Soil Type:	Sandy loam
Soil Results:	pH 5.4
Rotation:	2010 Pasture, 2009 Wheat
GSR:	433mm

BACKGROUND

Sakura 850WG is now registered for use in wheat and triticale for the control of annual ryegrass, barley grass, silver grass, annual phalaris and toad rush.

Barley grass can be difficult to control with current pre-emergent herbicides and a good knockdown is generally the best measure to reduce numbers. Post-emergent herbicides have been relied upon to control barley grass historically although their control can be hit and miss depending on conditions. Sakura sets a new benchmark in barley grass control from a pre-emergent herbicide.

TRIAL DESIGN

Plot size: 9.45 ha

Crop details: Calingiri @ 100kg/ha on 3 June 2011

Stubble Residue: 0-20% and 20-50% across demo area

Fertiliser: **At seeding:** DAP @ 75 kg/ha with Intake, MOP @ 25 kg/ha

Post: Urea top dressed @ 60 kg/ha, 50 kg/ha and 50 kg/ha

Herbicide **Pre:** Sakura @ 118 g/ha or Trifluralin @ 1.5 L/ha

Post: Velocity @ 1 L/ha, LVE MCPA @ 500 mL/ha, Hasten 1% v/v

Sprayer: Boom width: 24 m Hardi boom

Water Rate & Speed: 60 L/ha, 13 km/h

Nozzle type & pressure: Airmix 11002's @ 180 kPa

RESULTS & DISCUSSION

Comments on application and weed control

- Grower noted that Sakura mixed well in the tank and was easy to spray.
- Sakura reduced the numbers of barley grass across the site compared to the grower's treatment. This was also evident down by the Summit trial where Sakura applied pre-emergent adjacent to the trial was giving better control of barley grass than Trifluralin 2 L/ha with a post-emergent application of Monza® 25 g/ha.

Crop Effects

- Sakura was safe to Calingiri wheat in this commercial trial.

Yield

Table 1: Yield t/ha and return on investment (\$ROI) from Calingiri wheat, December 2011.

	Cost/ha	Yield t/ha	\$ Gross Margin /ha	\$ ROI /ha	\$ ROI above growers treatment
Trifluralin 2 L/ha	\$10.20	2.90	\$632.20	\$617.00	
Sakura 118 g/ha	\$35.40	3.11	\$677.98	\$637.58	\$20.58
Application cost	\$5.00				

**Pricing based on AWB contract pricing delivered to Fremantle port zone, ASW1 = \$218 16/11/2011*

- The yields presented were taken from close to the northern contour bank where there was higher numbers of barley grass in the crop to represent a good efficacy comparison.
- Based on this the Sakura treatment recorded a 110 kg/ha yield increase over the grower's Trifluralin at 2 L/ha.
- This equals a \$20.58 ROI above the grower's program once herbicide and application costs were removed.

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REVIEWED: Craig White, Technical advisor southern WA, Bayer CropScience

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