



Resistant Ryegrass Trials (3 Apr 2017)

**New research conclusively shows product choice is critical in fight against glyphosate resistance**

The use of a superior glyphosate product and commitment to Integrated Weed Management has the potential to delay the onset of glyphosate resistance on farms across Australia.

In a trial conducted by Plant Science Consulting, of Adelaide, South Australia, there was a clear difference between the efficacy of two different glyphosate formulations applied to susceptible and glyphosate resistant annual ryegrass biotypes.

Dr Peter Boutsalis, who conducted the experiment, pitted Roundup Ultra® MAX against a glyphosate 540g/L formulation.

Each formulation was applied to three annual ryegrass biotypes which included one susceptible and two that were resistant to glyphosate (one with weak resistance and one with strong resistance)

“Roundup Ultra MAX exhibited superior control at lower to intermediate rates on susceptible and glyphosate resistant biotypes compared to the Glyphosate 540g/L formulation,” Dr Boutsalis concluded.

The trial measured herbicide damage (biomass reduction) and survival of annual ryegrass plants sprayed with herbicide at a three-leaf growth stage.

Of particular note was the ability of Roundup Ultra MAX to control ryegrass with weaker glyphosate resistance at rates that were relatively low.

Roundup Ultra MAX produced 100 percent biomass reduction and 100 percent control at a rate of 800 g ai/ha compared to the Glyphosate 540g/L formulation which needed a rate of 1995 g ai/ha to achieve the same result.

“These results suggest that on ryegrass with weak resistance, common in the initial stages of resistance development, using a product such as Roundup Ultra MAX with the unique Transorb II surfactant technology can result in greater control and therefore delay the onset of resistance,” Dr Boutsalis reported.

As could be expected, both herbicide options were unable to completely control the ryegrass with the stronger glyphosate resistance, although there were some significant differences in the amount of control that was achieved.

Dr Boutsalis’s research showed superior results from Roundup Ultra MAX, particularly when the rates were increased to 1995 g ai/ha and 2850 g ai/ha.

“Roundup Ultra MAX caused significantly greater biomass reduction and improved control compared to the generic Glyphosate 540g/L product at equivalent rates,” he said.

Of particular interest was the percentage of biomass reduction and control between the two herbicide options on ryegrass biotypes that were susceptible to glyphosate.

Roundup Ultra MAX achieved 100 percent biomass reduction and control at a lower rate than the 540g/L Glyphosate formulation.

**\*We have ROUND UP ULTRAMAX in STOCK at Carrs’ Seeds\***

**\*NODULOID INOCULANT IN STOCK!\***



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Trading Hours:

MON-FRI 8:30-5:30

# ANIMAL HEALTH



## Key Product Benefits of Viper:

- Highly potent, second generation neonicotinoid chemistry
- 4 weeks' protection when applied within 24 hours of shearing
- Flexible off-shears application – up to 7 days



Olsson's Ewe Little Beauty Pre Lambing is a high energy block that supplies glucose to the ewe, assisting in prevention of pregnancy toxaemia.



Purchase 2 x 20 L EXTINOSAD™ POUR-ON or 4 x 20 L VIPER™ POUR-ON before 05/04/24 and receive a \$100 *Prezzie* card or 128 Elanco Rewards points and a 6 months off-shears lice-free guarantee!

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## Viper™ Pour-On

Viper™ contains thiacloprid which has a unique mode of action that provides rapid knockdown control of lice.

Viper continues to kill adult lice and emerging nymphs for 4 weeks after treatment when applied within 24 hours of shearing.

Viper can be applied up to 7 days after shearing or to unshorn lambs from two weeks to two months of age.

Elanco offer a 6 month off shears lice free guarantee

## eID for Productivity and Profitability Workshop

Tuesday 9 April 2024, 8.00am - 2.30pm  
Kyancutta Community Club

### Presentations include:

- Using eID for profit and productivity – Mark Ferguson (neXtgen Agri)
- Selecting the right eID equipment for your enterprise – Michelle Cousins (Cousins Merino Services)
- Farmer case studies
- Developing a breeding plan – Michelle Cousins and Mark Ferguson
- Data management – Michelle Cousins
- PIRSA update on eID program
- Q & A with producers, Mark Ferguson and Michelle Cousins

### Trade displays invited include:

- eID equipment providers
- eID tag manufacturers

### Register

To assist with catering please register via website or QR code:  
<https://events.humanitix.com/eid-kyancutta>  
Breakfast (from 7.30am) and lunch provided



### Contact

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### Event supported by



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