

# Nufarm Insight



Avadex® Xtra - A new option in pre-emergent grass control

**High use rates of Avadex® Xtra in a No-Till system - a pre-emergent herbicide option for annual ryegrass control**

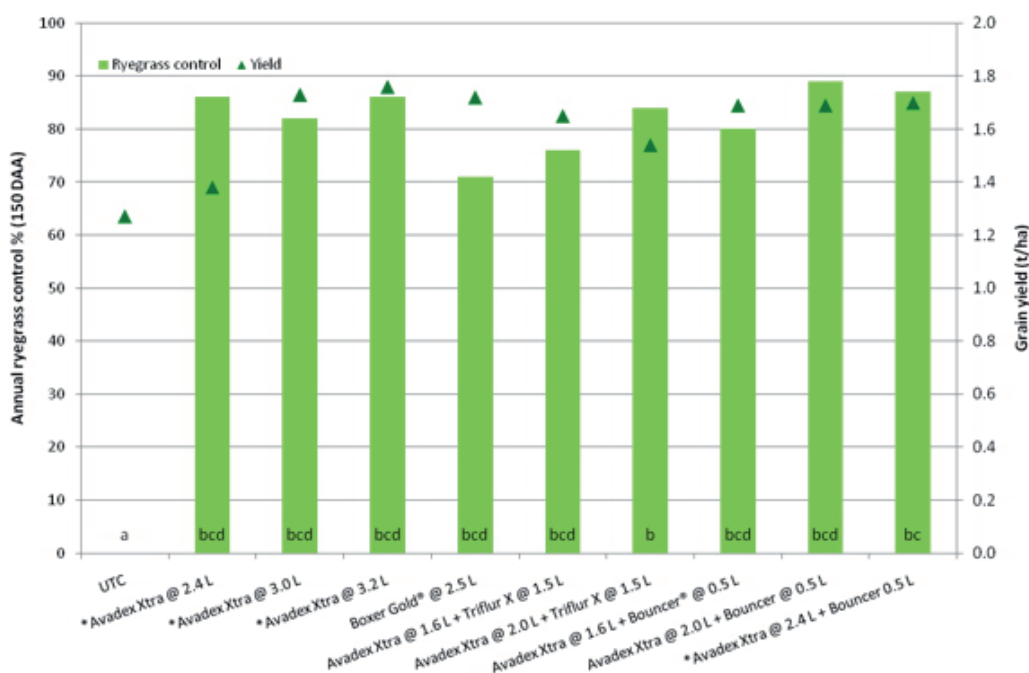
**Replicated Trial Results: Bordertown, South Australia.**

In 2009 Nufarm has conducted a series of replicated field trials across Australia to evaluate the performance of Avadex® Xtra (500 g/L triallate) on annual ryegrass (ARG) in a no-till cropping system. Avadex Xtra was applied standalone, and in tank mixes, at rates greater than the current maximum label rate of 2.0 L/ha.

The aim of the current work is to increase the maximum label rate for Avadex Xtra to offer standalone control, providing another pre-emergent option (Group J) for ARG control; particularly useful for Group D (trifluralin) resistant populations.

A trial was established at Bordertown South Australia on June 25; sown to wheat using a knife point and press wheel system on 180 mm spacings.

**Graph 1: Final ryegrass tiller counts (% control) and yield (t/ha)**



UTC = 610 Ryegrass plants/m<sup>2</sup>

cv = Pugsley, No-till IBS.

Group D Resistance = Low(R). Trial ID: NUSA-09-7.01-H16

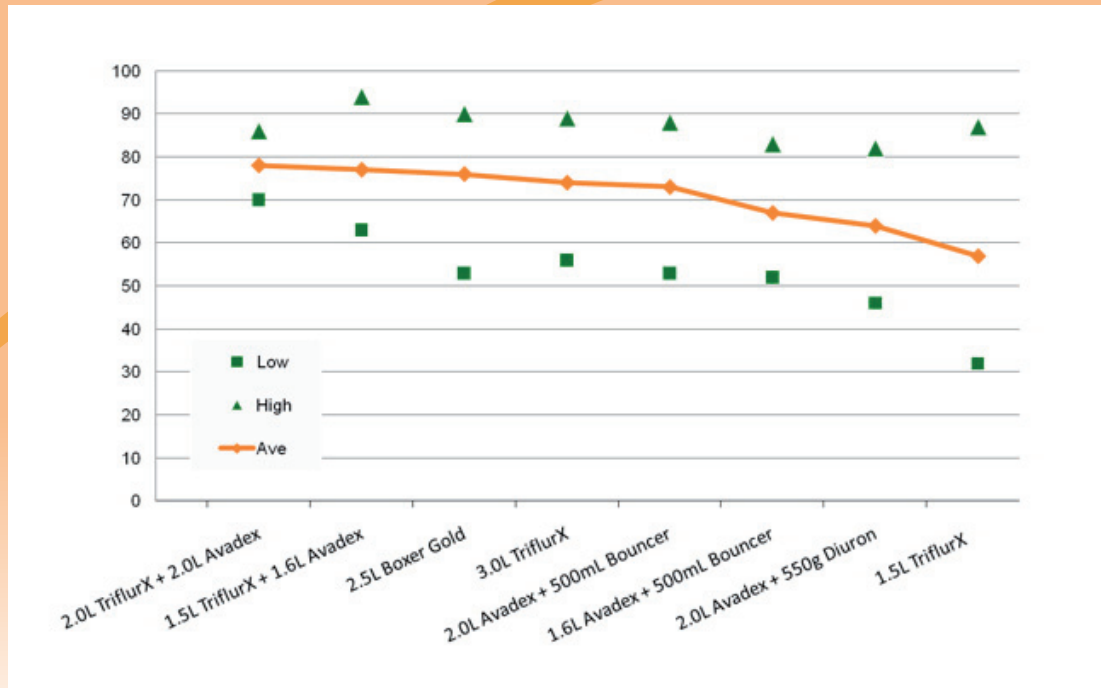
ARG Control followed by the same letter do not significantly differ (P=0.05, Duncan's New Multiple Range Test)

\* These treatments are for research purposes only. Rates of Avadex Xtra >2.0 L/ha are not registered for use.

ARG pressure at the Bordertown site (Graph 1) was high with a final tiller (seed head) count of 562 / m<sup>2</sup> in the untreated. Avadex Xtra displayed a good rate response with an increased level of ARG control as rates of Avadex Xtra increased 2.4 – 3.2 L/ha.

Avadex Xtra in a tank mix with Triflur X provided a high level of ARG control in this trial.

**Graph 2: % ARG Control Summary – Current registered products in no-till. Replicated trial results 2009 (minimum 5 for each treatment). South Australia, Victoria and New South Wales.**



The above graph (Graph 2) summarises the results from the application of registered pre-emergent treatments for wheat in no-till achieved during 2009 from a minimum of five replicated trials for each treatment. These trials were located through Victoria, New South Wales and South Australia. Many of the Annual Ryegrass populations were Group D resistant.

### Summary

Avadex Xtra is displaying excellent annual ryegrass control; either as a standalone application or in a tank mix with another pre-emergent herbicide. The current registered rates of Avadex Xtra and Triflur X for use in no-till is providing consistent results and more than just ryegrass control.

Avadex Xtra (Group J) provides an alternative mode of action for Group D resistant annual ryegrass.

Nufarm is continuing the development and registration process for higher use rates of Avadex Xtra.

Note: Avadex Xtra rates above 2.0 L/ha are not registered for use in cereals.



**A new option in pre-em grass weed control.**

**Further details on this trial can be obtained by contacting your local Nufarm Sales Manager or Adelaide office 08 8444 6300**

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