

Nufarm Insight

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



Brome grass control with pre-emergent herbicides in a no-till system 2010 trial results; Swan Hill, Victoria.

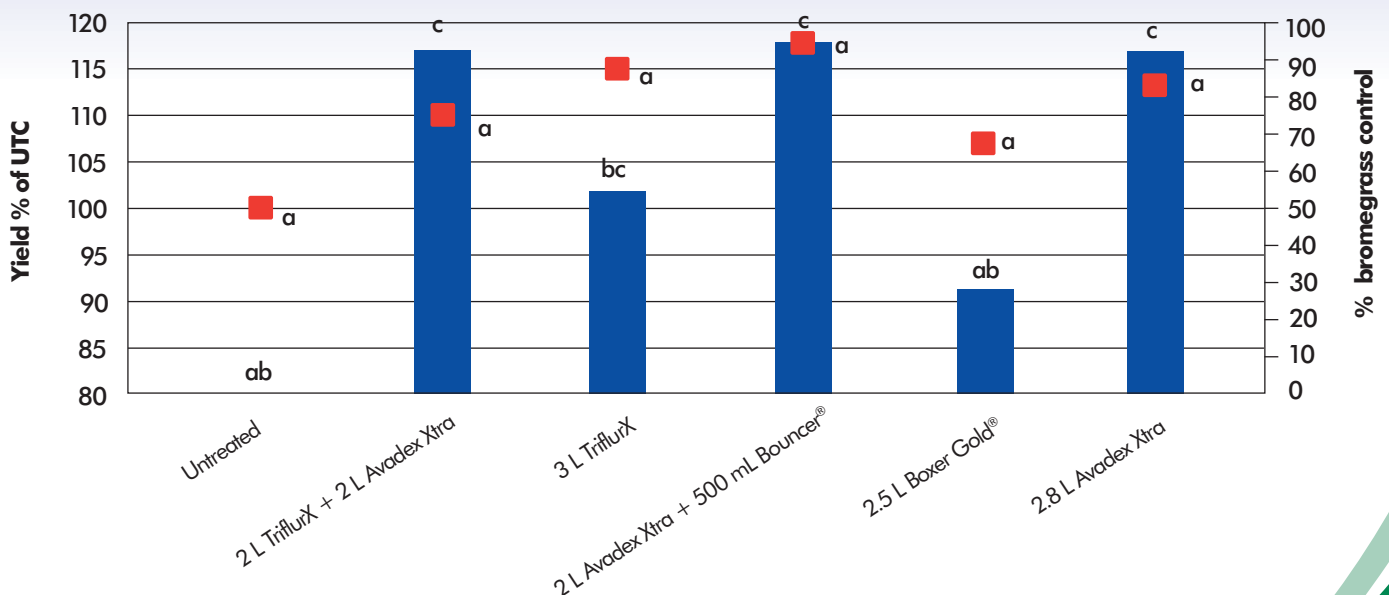
In 2010 Nufarm conducted a series of replicated field trials across Australia to evaluate the performance of Avadex Xtra® and TriflurX® on grass weed control in a no-till cropping system. Avadex Xtra was applied standalone and in tank mixes at rates greater than the current maximum label rate of 2.0 L/ha.

The aim of this work was 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 Swan Hill, in Victoria's Mallee, on 6 May 2010. It was sown to wheat using a knife point and press wheel system on 300 mm spacings.

Graph 1: Final brome grass panicle counts (% control) and yield (% of untreated control)

Brome grass control with pre-emergent herbicides Swan Hill, VIC 2010



■ % brome grass
■ Yield (% of UTC)

UTC = 416 brome grass panicles/m²
UTC = 3.56 t/ha

Brome grass control or yield followed by the same letter do not significantly differ (P=0.05, Duncan's New Multiple Range Test)
Nufarm trial reference: NUVc-10-7.01-H10

There was a high weed pressure of brome grass (*Bromus diandrus*) at the site with untreated plots averaging 445 plants/m² at the first assessment (four weeks after sowing).

There was no significant difference in grain yield between treatments; although there was a trend for all herbicide treatments to yield higher than the untreated control (3.56 t/ha). Growing season rainfall (BOM Swan Hill April – October) of 230mm was classed as a decile 9 and contributed to the above average yield.

2010 was the first year the paddock had been sown with no-till equipment. In these situations it is important to recognise that weed seeds will be located at various depths in the soil profile due to previous cultivation. This is a key strength of the Avadex Xtra/TriflurX tank mix due to the predominant root activity of TriflurX and shoot activity of Avadex Xtra.

Summary

The registered tank mix of Avadex Xtra @ 2.0 L/ha + TriflurX @ 2.0 L/ha offers no-till growers robust weed control on a range of key grass weeds including annual ryegrass, brome grass and wild oats as well as assisting with volunteer cereal control and numerous broadleaf weeds. This tank mix is also forms part of a sound strategy to combat growing levels of Group D resistant annual ryegrass.

The trial also demonstrated the excellent efficacy of the standalone rate of Avadex Xtra @ 2.8 L/ha (not currently registered). Permit pending for season 2011.

**PHOTO 1: UNTREATED
8 WEEKS AFTER SOWING.**



**PHOTO 2: AVADEX XTRA @ 2.0 L/ha
+ TRIFLURX @ 2.0 L/ha**



Photos: Campbell Bryan

AVADEX XTRA

A new option in pre-em grass weed control.

Call in the
Xperts

**Further details on this trial can be obtained by
contacting your local Nufarm Sales Manager**



Mark Slatter
Nufarm Research and Development Officer
Victoria
Ph: 0438 064 845
Email: mark.slatter@au.nufarm.com

This publication is a guide only and no substitute for professional or expert advice. The product label should be consulted before use of any of the products referred to in this publication. Nufarm Australia Limited shall not be liable for any results, loss or damage whatsoever, whether consequential or otherwise through the use or application of products and/or materials referred to herein.

® Avadex is a registered trademark of Nufarm Technologies USA Pty Ltd. TriflurX and Bouncer are registered trademarks of Nufarm Australia Limited. Boxer Gold is a registered trademark of Syngenta Participations AG

© Copyright 2011 Nufarm Australia Limited A.C.N. 004 377 780

