

**AVADEX XTRA.
THE MIX PARTNER OF
CHOICE FOR ANNUAL
RYEGRASS CONTROL
IN THE WEST.**

Nufarm
AVAdex[®] XTRA



Nufarm

Grow a better tomorrow.

AVADEX XTRA. THE MIX PARTNER OF CHOICE FOR ANNUAL RYEGRASS CONTROL IN THE WEST.

Avadex[®] Xtra contains the herbicide tri-allate which is a member of the thiocarbamate group (Group J) of herbicides that inhibit fat synthesis. Avadex Xtra is registered for use in wheat, barley, canola, lupins, peas, chickpeas, faba beans linseed and safflower.

KEY FEATURES

- New registered label rate of up to 3.2 L/ha for Avadex Xtra for more consistent, reliable control of problem weeds including Annual ryegrass and wild oats
- New incorporation period of up to 48 hours
- Avadex Xtra mixed with TriflurX[®] or Sakura^{®1} continues to impress in no-till systems
- When combined with TriflurX, Avadex Xtra is registered for control and suppression on 19 hard to kill weeds

HERBICIDE RESISTANT ANNUAL RYEGRASS

Annual ryegrass populations in Western Australia have become resistant to multiple mode of action groups of herbicides. In most of the cereal growing areas post emergent options have been severely limited resulting on a heavy reliance on pre-emergent herbicides. In order to protect these herbicides and avoid further herbicide resistance developing it is important to rotate these pre-emergent herbicides with different modes of action. In addition to rotating herbicides some form of harvest weed seed control (HWSC) is recommended to further reduce the weed seed bank.

The logo for Avadex XTRA features the word "AVADeX" in white, uppercase letters on a blue rectangular background. To the right, the word "XTRA" is written in red, uppercase letters with a white outline, set against a white background that overlaps the blue one.

“Due to its different action in the soil profile, addition of tri-allate to other grass pre-emergent herbicides generally results in increased levels of control. Essentially, the mixture allows weeds germinating both at the top of the soil profile and below the soil surface to be controlled.”

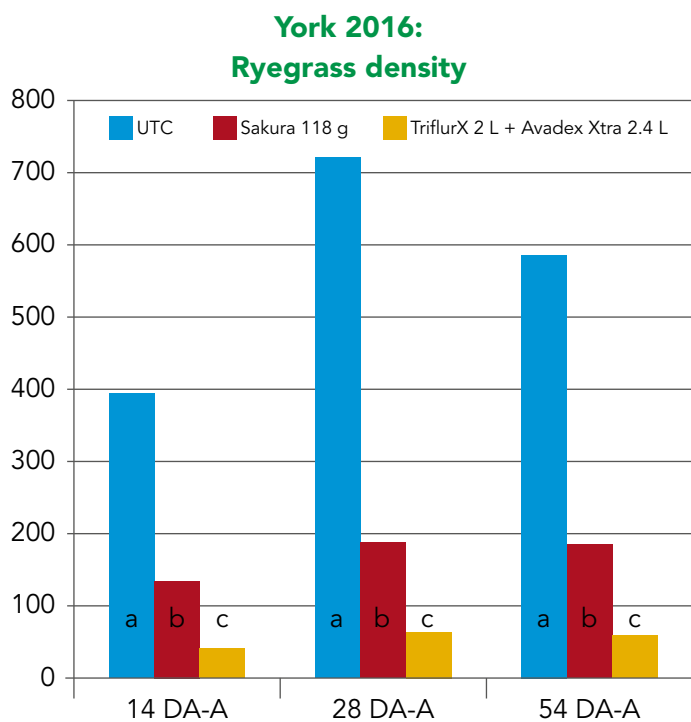
Chris Preston, University of Adelaide



AVADEX XTRA + TRIFLURX

The proven and highly effective tank mix for use in no-till systems just got better with new label rates for Avadex Xtra and TriflurX. In addition to ryegrass control this mixture is also registered for control or suppression of 18 other weeds including wild oats, barley grass, and cereal oats. The addition of TriflurX to Avadex Xtra not only gives you two different herbicide groups, but also two complementary modes of action. When both herbicides are incorporated and come into contact with moisture, they become a gaseous vapour. This vapour fills the pore spaces in the soil and is absorbed by the shoots (Avadex Xtra) and roots (TriflurX) inhibiting growth of germinating weeds.

In 2016 a trial was conducted in York, WA to test pre-emergent herbicides on annual ryegrass in Trojan wheat. Weed counts found that TriflurX at 2 L/ha +

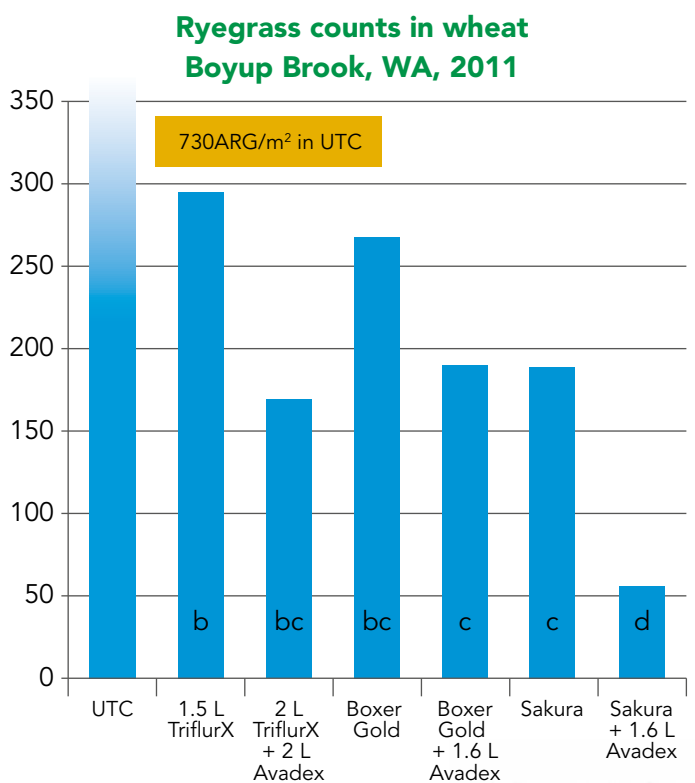


Avadex Xtra at 2.4 L/ha significantly reduced annual ryegrass numbers compared to Sakura at 118 g/ha. A 2011 trial in Boyup Brook, WA also demonstrated the strong control that can be achieved from the Avadex + TriflurX combination with ryegrass numbers lower than both Sakura and Boxer Gold®² stand alone.

AVADEX XTRA + SAKURA

The mix of Avadex Xtra and Sakura allows for uptake through both the shoots and roots of germinating weeds. This mix is also an excellent option in pulses where clethodim resistance is becoming a problem.

The 2011 trial in Boyup Brook demonstrated the benefits of adding Avadex Xtra to Sakura with a significant reduction in ryegrass numbers from the tank mix. Ryegrass density was reduced from 730 plants/m² in the untreated to just 59 plants/m² from this tank mix.



WHY AVADEX XTRA?

Avadex Xtra is a tool for delaying or avoiding resistance in annual ryegrass and wild oat populations and an important component in managing herbicide resistance.

With new registrations for Avadex Xtra, now up to 3.2 L/ha, Avadex Xtra provides even greater levels of control when used as a standalone product. When mixed with TriflurX, Avadex Xtra provides excellent levels of control or suppression of 19 hard to kill weeds.



CRITICAL INFORMATION

	VADEX XTRA	TRIFLURX
PRODUCT TYPE	Pre-emergent herbicide	Pre-emergent herbicide
ACTIVE INGREDIENTS	500 g/L Tri-allate	480 g/L Trifluralin
CHEMICAL FAMILY	Group J	Group D
USE RATE	3.2 L/ha	3.0 L/ha
INCORPORATION RATE	Within 48 hours	Within 24 hours

VADEX XTRA AND TRIFLURX IN COMBINATION

REGISTERED USE	Wheat, barley, triticale and canola
WEEDS CONTROLLED	Annual ryegrass (including Group D resistant biotypes), wireweed, phalaris spp., fumitory, wild oats (including Group A resistant biotypes), cereal oats, sand fescue, silver grass, winter grass, paradoxa grass, corn gromwell, rough poppy
WEEDS SUPPRESSED AT SOIL SURFACE	Brome grass, barley grass, doublegee, caltrop (yellowvine and bullhead), yellow burr weed, deadnettle, speedwell
RECOMMENDED SPRAY QUALITY	COARSE or greater
RECOMMENDED WATER RATE	40 to 100 L/ha
PRODUCT PACK SIZES	20 L, 110 L, 1000 L

This information 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. To the maximum extent permitted by law, Nufarm Australia Limited disclaims all warranties of any kind, whether express or implied, including but not limited to any warranty that the information is up-to-date, complete, true, legally compliant, accurate, non-misleading or suitable.

© 2016 Nufarm Australia Ltd. ®1 Sakura is a registered trademark of Kunmiai Chemical Industry Co Ltd. ®2 Boxer Gold is a registered trademark of Syngenta Group. All other trade marks (®,™) are owned by Nufarm Australia Ltd or used under license.



Grow a better tomorrow.