



ADAMA

Countdown® herbicide

Product overview

Countdown® is a soil-applied, pre-emergent herbicide for the control of Annual Ryegrass and broadleaf weeds in wheat and barley crops. A stand-alone application of Countdown will control lower densities of Annual Ryegrass (i.e. ≤ 100 ryegrass plants per square metre). Under heavier weed pressure, Annual Ryegrass emergence and panicle production will be suppressed but may not be adequately controlled. Countdown can be applied as a tank-mix with trifluralin for robust control of Annual Ryegrass and other weeds. Countdown can be applied up to seven days prior to sowing when used alone or within 24 hours of sowing when mixed with trifluralin. As a Group 15 herbicide, Countdown is suitable for incorporation into resistance management programs to manage resistant Annual Ryegrass populations.

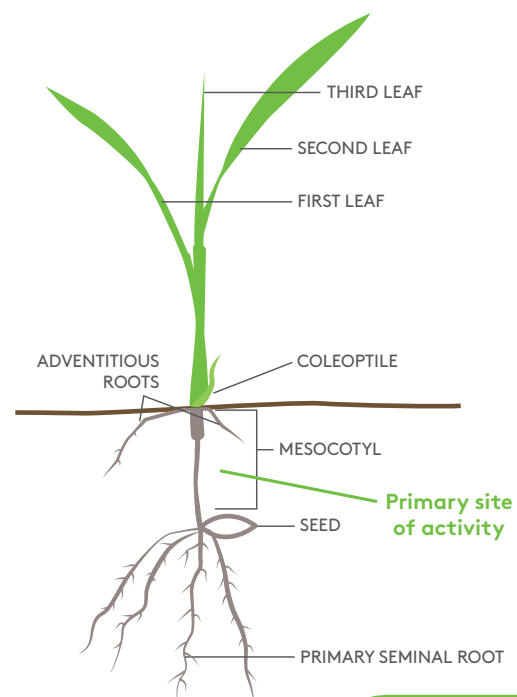
Mode of action

GROUP 15 HERBICIDE

Countdown contains 800 g/L prosulfocarb in an emulsifiable concentrate (EC) formulation. Prosulfocarb is a Group 15 thiocarbamate herbicide that inhibits fatty acid synthesis in the meristematic cells of target weeds, similar to ACCase inhibitors (Group 1). Fatty acid synthesis is essential for cell division and elongation. Primary activity is via the mesocotyl, with secondary activity via coleoptile and root uptake. The mesocotyl has meristematic tissue that elongates, pushing the coleoptile to the surface. Usually, the mesocotyl stays below the soil surface once the coleoptile emerges. Prosulfocarb typically prevents weed emergence and severely prunes roots. Any surviving weeds are relatively non-competitive. Foliar uptake by newly-emerged weeds is possible but has lower impact than other modes of uptake.

At a glance

Group 15 herbicide	Countdown is suitable for incorporation into resistance management programs to manage resistant Annual Ryegrass populations.
Application flexibility	Countdown can be applied as a stand-alone treatment or as a tank-mix with trifluralin and other herbicides for improved efficacy and wider spectrum.
Flexible incorporation	Countdown can be applied up to seven days prior to sowing when used alone, or within 24 hours of sowing when mixed with trifluralin.
Short residual activity	Countdown has short residual activity for maximum re-cropping flexibility.
Crop safety	Countdown has no adverse impact on crop safety when applied to wheat and barley crops compared with key alternatives (e.g. Boxer Gold*), especially in wheat.



HERBICIDE

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Crops

Countdown is registered for use in Wheat and Barley.

Application rates

Suppression of Annual Ryegrass (*Lolium rigidum*), including Group 3 resistant populations: **2.5 L/ha**.

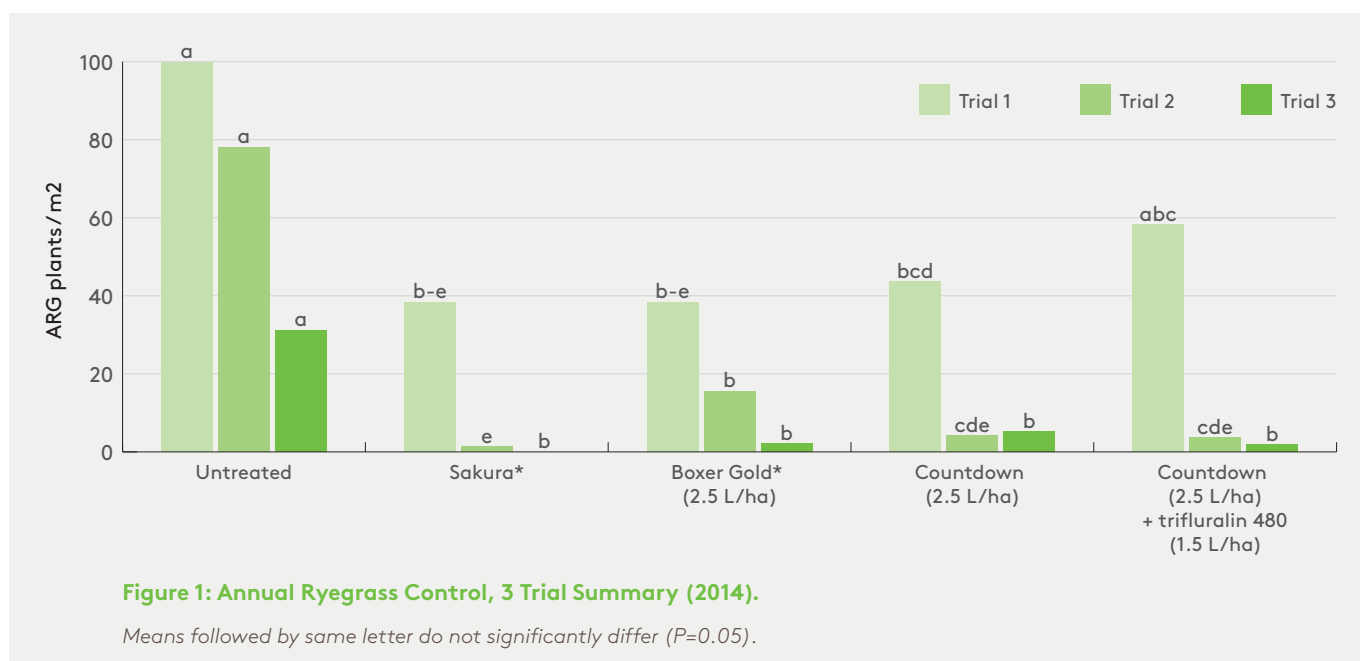
Control of Annual Ryegrass (*Lolium rigidum*), Crassula, Red and White Fumitory, Paradoxa Grass (Canary Grass), Phalaris spp., Sand Fescue, soil surface Wild Oats, Toad Rush, Wireweed (Hogweed) and suppression of Brome Grass, Deadnettle, Rough Poppy and Yellow Burr Weed: **2.5 L/ha plus trifluralin 480 g/L (1.5 L/ha)**.

Application

Countdown is applied pre-emergence using the incorporated by sowing (IBS) method. Apply to a moist seedbed up to seven days before sowing when applying as a stand-alone treatment. Apply up to 24 hours before sowing when tank-mixing with trifluralin. Apply using a boom sprayer in a minimum of 50 L water/ha. High stubble loads (>40% ground cover) can reduce weed control.

Trial data

Australian trials have demonstrated Countdown provides statistically equivalent control of Annual Ryegrass as other commonly applied treatments (Figure 1).



Scan here for more information

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