



Countdown®

Product Overview

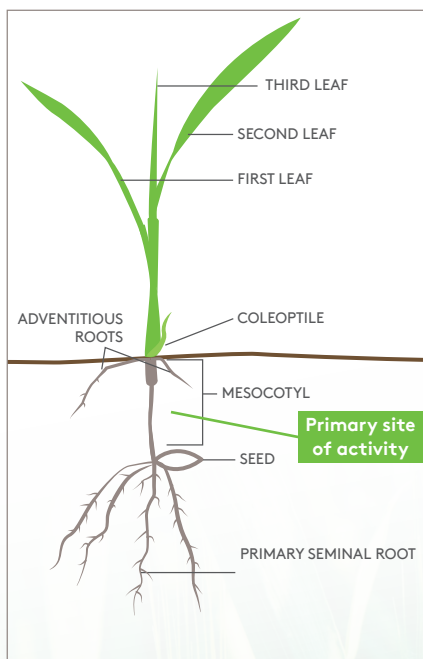
COUNTDOWN® is a short residual, soil applied, pre-emergent herbicide for use in wheat and barley crops. With Group J mode of action COUNTDOWN® provides suppression of Annual Ryegrass when used alone (including Group D resistant strains) and when mixed with Trilogy® will provide robust control of Annual Ryegrass and a range of other key weeds.

- Contains 800 g/L prosulfocarb in an emulsifiable concentrate (EC) formulation
- Helps manage resistant Annual Ryegrass
- Flexible incorporation window up to 7 days when used alone or 24 hours when mixed with Trilogy®
- Short residual activity allows flexibility in crop rotations
- Straight prosulfocarb formulation allows flexibility of mix partner
- COUNTDOWN® has improved crop safety vs key alternatives, with growers being able to confidently apply it in both wheat and barley.

Mode of Action

GROUP J HERBICIDE

Prosulfocarb is a Group J thiocarbamate herbicide which works via inhibiting fatty acid synthesis in the meristematic cells of target weeds (similar to the Group A –ACCase inhibitors). Fatty acid synthesis is essential for cell division and elongation.



Primary action is at the mesocotyl and secondary action via coleoptile and root uptake.

The mesocotyl has meristematic tissue which elongates, pushing the coleoptile to the surface.

Usually the mesocotyl stays below the soil surface once coleoptile emerges.

Ryegrass has a significant mesocotyl contributing to the reason why prosulfocarb has strong activity against it. Wheat and barley have a smaller mesocotyl helping explain prosulfocarb's selectivity to them.

Prosulfocarb often prevents emergence, severely prunes roots and any surviving weeds are relatively non-competitive.

Foliar uptake on newly emerged weeds is possible but of lower effect than other means of uptake.



Use Recommendations

For use in Wheat and Barley only.

2.5 L/ha Standalone - Annual Ryegrass (*Lolium rigidum*) suppression, including Group D resistant populations. A standalone application of COUNTDOWN® can control lower densities of annual ryegrass i.e. ≤100 ryegrass plants/m².

2.5 L plus 1.5 L of Trilogy® 480 - 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). Suppression of Brome Grass, Deadnettle, Rough Poppy and Yellow Burr Weed.

Application Recommendations

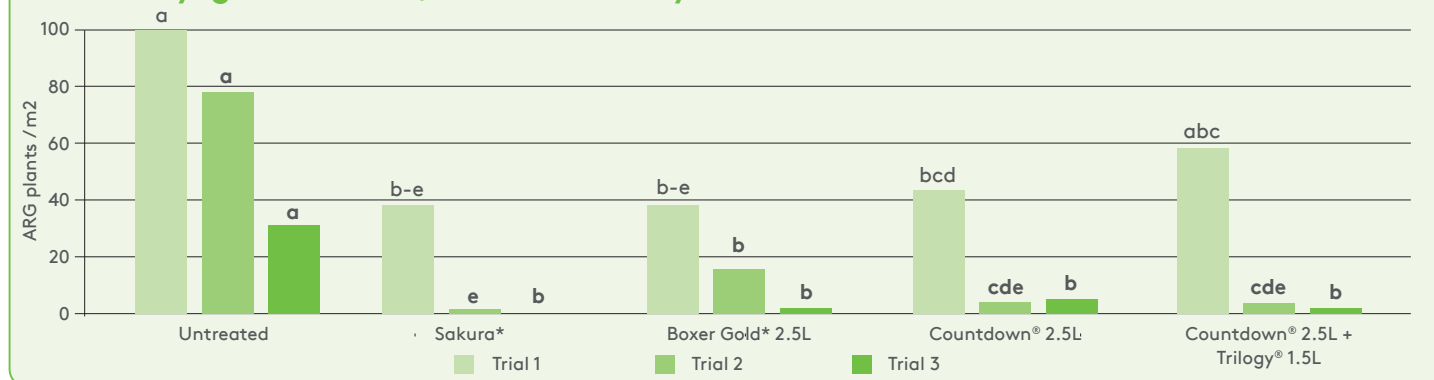
Apply pre-emergence using the incorporated by sowing (IBS) method.

Application should be made to a moist seedbed up to 7 days prior to sowing.

When applying with Trilogy® 480 application should be made up to 24 hours prior to sowing.

Apply by ground rig only in a minimum of 50 L water/ha. Stubble loads above 40 to 50 % ground coverage can reduce weed control below acceptable levels and should be avoided.

Annual Ryegrass Control, 3 Trial Summary - 2014



Means followed by same letter do not significantly differ (P = 0.05)

The chart above shows that the level of Annual Ryegrass control achieved with COUNTDOWN® across three separate trials in 2014 was in general statistically equivalent to that achieved by Sakura* and Boxer Gold*.

Features and Benefits

Features	Benefits
Group J mode of action	Ideal for resistance management of Annual Ryegrass
Long 7 day incorporation window	Flexibility to incorporate at growers convenience
Ability to tank mix for wider spectrum and improved efficacy	Confidence weeds will be controlled either stand alone or in mixture as required by the weed spectrum and population
Excellent crop safety.	Confidence both wheat and barley crop will not be affected. Improved safety profile vs Boxer Gold*, especially on wheat.

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