Target 100% Weed Control — Glyphosate Use in Pre-Harvest Canola Applications

TECH NOTE

Targeting 100% weed control

WHY PRODUCT CHOICE MATTERS

A key focus of Sinochem is to assist growers in improving weed control so they can achieve better outcomes in the short and long-term.

Sinochem is investing in on-farm and laboratory research to determine the best products and techniques to target 100% weed control.

TARGET 100% Weed Control

WHY USE GLYPHOSATE IN PRE-HARVEST CANOLA?

The benefits of using glyphosate for pre-harvest application in canola are well known.

- It is an effective tool to manage late season weeds
- Pre-harvest desiccation of both the canola and weeds accelerates and evens up the ripening of the crop, which in turn assists with harvest
- Most importantly, through a spray topping effect, it can significantly reduce weed seed set. With the rise in Group A herbicide resistance, pre-harvest applications have become an important tool in a grower's IWM programme.

MEAN RYEGRASS GERMINATION — HARDEN, NSW 2013

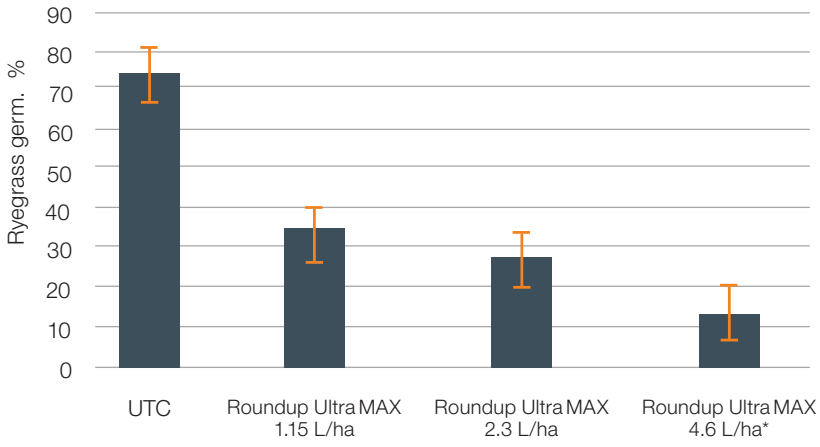


Figure 1: Percent ryegrass germination following treatment with Roundup Ultra® MAX.

Ryegrass germination trials conducted in Harden, NSW highlight the benefits of a pre-harvest spray in reducing weed seed set. Treatments were applied at the canola growth stage where 20% of pods were ripe. Ryegrass samples were collected 14 DAT.

***Note the highest recommended rate of Roundup Ultra MAX in pre-harvest canola applications is 3.4 L/ha. Always consult the product label before use.**

TARGET 100% AND GLYPHOSATE SUSTAINABILITY

The Target 100% platform is a Sinochem initiative that focuses on assisting growers to maximise their spray results in order to help mitigate glyphosate resistance. Sinochem Australia advises growers not to over-use glyphosate within a crop rotation and recommends growers incorporate other non-glyphosate measures in their IWM strategies.

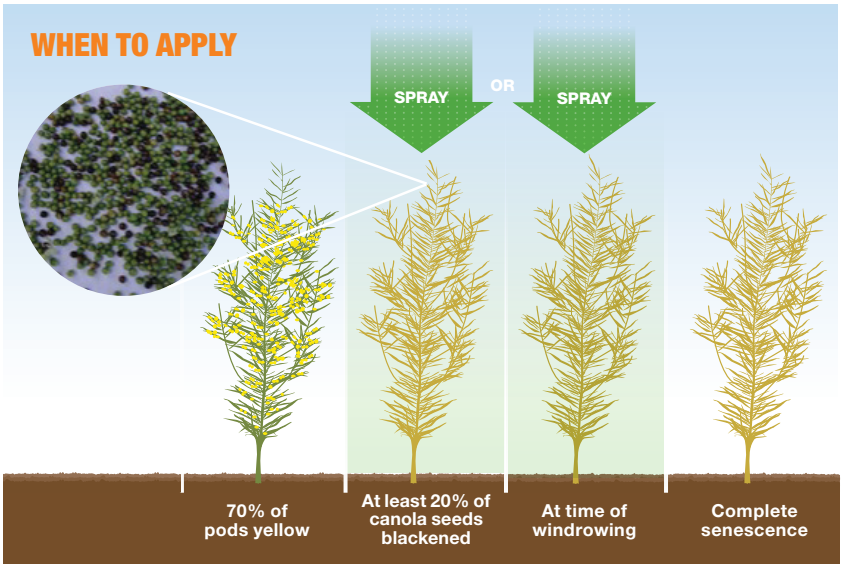
Target 100% Weed Control — Glyphosate Use in Pre-Harvest Canola Applications

TECH NOTE

WHEN AND WHAT TO APPLY

To successfully use this tool attention must be paid to the following key areas:

- **Application**: Penetration and coverage of dense crop canopies or weeds means that the minimum water rate used should be 80L.
- **Rate:** Recommended label rates of Roundup Ultra MAX for the control of annual weeds in canola crops prior to harvest are 1.2 – 3.4 L/ha (maximum rate of 2.6 L/ha for aerial application). As the density of weeds or canopy increases, so should the rate.
- **Product choice:** The efficacy of different formulations of glyphosate varies according to the quality and quantity of the product's in-built surfactant. When tough weeds are present, choosing the right product can greatly enhance the outcomes achieved. In addition, there are only a few products registered for this use.
- **Timing:** Roundup Ultra MAX is registered for use in mature standing crops. Maximising the benefits of a pre-harvest application is dependent on getting the timing correct.



Roundup Ultra MAX must only be applied to mature standing canola crops from early senescence (a minimum of 20% of canola seeds randomly collected from various heights in the crop canopy from the main stem have changed to a dark brown/black colour) prior to windrowing or direct harvest. Application can also be made at the time of windrowing. To avoid shatter losses from ground boom application, apply before complete senescence of the crop.

ROUNDUP ULTRA MAX PERFORMANCE

In an independent trial evaluating the efficacy of glyphosate formulations Roundup Ultra MAX demonstrated superior levels of control on glyphosate-resistant Sow Thistle; a key weed species with confirmed resistance to many commonly used herbicide groups including Groups B, M & I.

% BIOMASS REDUCTION ON GLYPHOSATE-RESISTANT SOW THISTLE

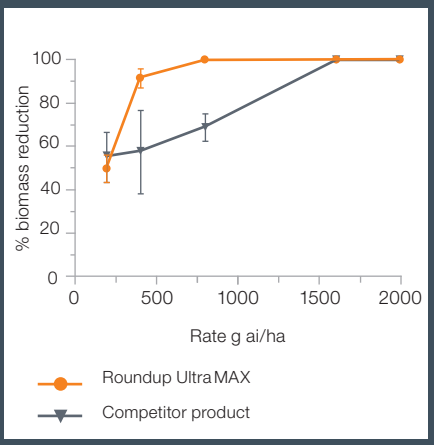


Figure 2: Percent biomass reduction on glyphosate-resistant Sow Thistle.

Bioefficacy trials conducted on glyphosate-resistant species of Sow Thistle show Roundup Ultra MAX exhibited superior performance at label recommended rates. Plants were sprayed at the 10-11 leaf stage and measurements taken 35 DAT. Trials conducted by Dr Peter Boutsalis of Plant Science Consulting.

Sinochem Australia Pty Ltd.
Level 8, 606 St Kilda Road, Melbourne, Vic 3004
Ph: +61 3 9520 8888 Fax: +61 3 9520 8889
Customer Service (Free Call): 1800 334 096
Email: orders.anz@sinochem.com
sinochem.com.au

Sinochem Australia

Roundup UltraMAX HERBICIDE

TARGET 100 Aim for 100% Weed Control

WEED smart every weed every seed every farm every year

SINOCHEM.COM.AU