

# Roundup Ready® canola

## Early season application guide

Roundup Ready canola allows you to spray Roundup Ready herbicide over the top (OTT) of your canola in the early stages of growth without impacting on development of the crop. Best weed control is achieved when two OTT applications are made, the first between emergence and the 2nd true leaf and the second application from the 4th to the 6th true leaf (prior to bud formation).

### ROUNDUP READY CANOLA APPLICATION OPPORTUNITIES



Roundup Ready herbicide should not be applied after the 6<sup>th</sup> true leaf stage or after bud formation as it can have unpredictable effects, which may include delayed maturity and reduced yields.

- Applications can be made from crop emergence to 6 true leaf stage (prior to bud formation).
- **Maximum of 2 applications** of Roundup Ready herbicide per crop.
- Each application must be **0.9Kg/Ha**.
- Sequential application must be 14 days apart with 2 new leaves of growth.
- All applications must be made according to label directions.

In Roundup Ready canola target the **1<sup>st</sup> APPLICATION** of Roundup Ready herbicide on **young canola** with **WEEDS LESS THAN 6cm** in size.

Select the timing of spray based on the **MOST DIFFICULT TO CONTROL WEED SPECIES** in each field. A second application of Roundup Ready herbicide may be required to control new and subsequent germinations of weeds.

Know your paddock history and use the **RIGHT TOOL**, using the **RIGHT RATE** at the **RIGHT TIME**. Consider the following when planning your in crop weed control program –

- Early season weed competition can reduce yield potential in canola.
- Always consult the Roundup Ready herbicide label for approved tank mixes.
- All applications must be made according to label guidelines.
- Be aware of any potential contamination of spray application equipment (including mixing stations). Ensure all equipment is thoroughly cleaned and free of residues, particularly after using Sulfonylurea and other herbicides.

#### AVOIDING OFF TARGET DRIFT

Drift can be successfully managed with correct knowledge of spray equipment and an understanding of the factors that influence it. Drift can be influenced by droplet size, spray tip height, operating speed, wind velocity, air temperature and humidity. Correct selection of spray nozzle tips that are designed for the intended application is the first step in reducing off target drift during spray application of all herbicides and pesticides including Roundup Ready herbicide.

Ensure the droplets produced are of a **COARSE** spray quality to minimise the level of driftable fines and hence the risk of off target movement. Experience has shown the use of a **FINE** spray quality in situations of high relative humidity and low temperature condition (foggy weather) can significantly increase the potential for off target damage.

Every application is a balance between reducing drift and maintaining effective weed control. Field tests conducted by Nufarm have shown that use of a **COARSE** spray quality with Roundup has performed at least as well as typical flat fan nozzles producing a **FINE** spray quality. Both spray qualities provided excellent control of a range of broadleaf weeds and fine leaf grasses such as annual ryegrass and silver grass. Suitable nozzles to produce a **COARSE** spray quality are agrotop AirMix and TeeJet AI or comparable nozzles from other manufacturers.



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**Extreme care must be used when applying this product to prevent injury to desirable plants and crops which do not contain the Roundup Ready technology. Be aware that highly sensitive cereal crops are likely to be emerging at the same time as Roundup Ready applications are being made. Therefore extreme care needs to be taken to avoid off target damage.**

Ensure that target weeds are actively growing and not exhibiting any symptoms of environmental stress. Moisture stress and temperature stress (frosts) can significantly reduce the level

of weed control therefore conditions need to be monitored both before and after the herbicide application.

**DO NOT APPLY** during low-level inversion conditions, when winds are gusty or under any other conditions that favour drift. Drift may cause damage to desirable species.

**DO NOT APPLY** Roundup Ready herbicide by aircraft in situations where drift onto sensitive crops and pastures is likely to occur. To prevent injury to adjacent desirable vegetation or crops, appropriate buffer zones must be maintained.

	RECOMMENDATIONS	ADDITIONAL INFORMATION
<b>BEFORE PLANTING</b>	<p><b>KNOW YOUR PADDOCK HISTORY.</b></p> <p>Use the <b>RIGHT TOOL</b>, using the <b>RIGHT RATE</b> at the <b>RIGHT TIME</b>.</p> <p>Complete PRAMOG® for every paddock intended for Roundup Ready canola.</p>	<p>Plan your weed control program to suit the weed spectrum and pressure for each individual paddock.</p> <p>Growers and advisors need to know weed, cropping and herbicide histories of individual paddocks in order to develop an <b>Integrated Weed Management Plan</b>.</p> <p>Implementation of Integrated Weed Management (IWM) is the key to the long term sustainability of the canola weed control system.</p>
<b>PRE-PLANT KNOCKDOWN</b>	<p>Always <b>START CLEAN</b> by planting into a weed-free paddock using either tillage or a herbicide application.</p> <p>Consider using other registered products as part of an IWM strategy.</p>	<p>Alternative pre-plant knockdown options include: Nuquat®, Revolver® and Alliance®</p>
<b>RESIDUAL HERBICIDES</b>	<p>Residual herbicides should be used where appropriate in a Roundup Ready canola weed control system.</p> <p>The Crop Management Manual recommends using trifluralin (TriflurX® or TriflurX/Avadex®R Xtra mixes).</p>	<p>Consider using residual herbicides where weeds not controlled by Roundup Ready herbicide are present and/or under high weed pressure situations.</p> <p>Use the recommended label rate and timing of the residual herbicide.</p>
<b>IN CROP WEED CONTROL</b>	<p>Target the <b>1st APPLICATION</b> of Roundup Ready herbicide on YOUNG canola with <b>WEEDS LESS THAN 6cm</b> in size.</p> <p>Sequential applications of Roundup Ready herbicide may be required to control new and subsequent germinations of weeds.</p> <p>Select the timing of applications based on the <b>MOST DIFFICULT TO CONTROL WEED SPECIES</b> in each paddock.</p> <p>Applications can be made from crop emergence to 6 true leaf stage (prior to bud formation).</p> <p>Consider using Archer® or Sequence® in a separate application to increase the level of control where high weed pressure of certain species exists.</p> <p>Refer to the “Weeds Controlled” table on the Roundup Ready herbicide label for rate recommendations on specific weeds.</p>	<p>Early season weed competition can reduce yield potential in canola.</p> <p>There must be 2 new leaves of growth and 14 days between sequential applications of Roundup Ready herbicide.</p> <p>Do not apply Roundup Ready herbicides over-the-top beyond bud formation.</p> <p>Always consult the Roundup Ready herbicide label for approved tank mixes.</p> <p>Always make all applications according to label guidelines.</p> <p>Be aware of any potential contamination of spray application equipment (including mixing stations).</p> <p>Ensure all equipment is thoroughly cleaned and free of residues.</p>
<b>APPLICATION</b>	<p>Water Rate: Use 50 – 80 litres per hectare.</p> <p>Spray Quality: Select nozzle and pressure settings to deliver a COARSE spray quality.</p> <p>Spray Conditions: Check wind speed, direction and delta T to ensure suitable spray conditions.</p>	<p>A COARSE spray quality will reduce, but not eliminate, the level of driftable fines which therefore reduces the risk of movement off target</p>

**For further information please contact your Roundup Ready canola Technology Service Provider (TSP) or your local Nufarm Territory Manager**

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