

Top of the crop

*Protect your maize crop
and maximise production
with a premium product
package from Nufarm*



Nufarm

Eight simple steps to successful maize production from Nufarm

So you've invested in top quality treated seed and you are determined to give your maize crop every chance of being a winner.

Most likely to stand between you and success (apart from the weather) are WEEDS & INSECTS. Hybrid maize varieties, while endowed with very high yield potential, are inherently poor competitors with weeds or insects.

Good early weed control is essential in maize.

- ▶ It eliminates competition for light, nutrients and moisture.
- ▶ It protects the palatability and nutritional potential of your crop.
- ▶ It substantially curtails opportunities for INSECTS to establish themselves in your crop.



A good weed control programme is an investment, not a cost

Step 1 Start early where perennial weeds are a problem

In autumn select the paddock early and control hard to kill perennial weeds (especially couch, mercer grass, paspalum, kikuyu, Californian thistle, browntop etc) with Roundup TRANSORB®. Spray in autumn to maximise Roundup translocation and effectiveness, then sow an annual crop (ryegrass or cereal) for some high quality grazing or silage.



Step 2 A pre-plant clean-up saves time

In spring, before establishing the crop, spray with Roundup TRANSORB to kill the existing vegetation. This clean-up provides the following benefits:

- ▶ Controls perennial weeds to minimise competition in the maize crop.
- ▶ Reduces the tillage required to produce an excellent seedbed, saving time and money, because plant root breakdown has already been achieved by Roundup TRANSORB.
- ▶ Keeps the paddock in production longer beforehand, because an extensive cultivation period is not required for the new crop.
- ▶ Weather is less likely to delay planting, since you are not relying on so many suitable days for cultivation.

Application rates for Roundup TRANSORB

Annuals	1.4-2.0 L/ha
Perennial ryegrass	2.0-2.7 L/ha
Couch, Californian thistle, Browntop	2.7-4.0 L/ha
Kikuyu, Mercer grass, Paspalum	4.0 L/ha

Tips to Maximise Roundup® Performance

- ▶ For maximum absorption you need 5-10 cm of actively growing leaf.
 - Preferably spray first then graze or cut later.
- ▶ Add Pulse® Penetrant at 100 ml/100L water, which gives you the following advantages:
 - Improves penetration and uptake of Roundup.
 - Ensures control of perennial ryegrass in spring.
 - Aids rainfastness of Roundup TRANSORB – 30 minutes versus 2 hours.



Roundup TRANSORB treated pre-cultivation

Untreated pre-cultivation

Step 3 Pre-emergence weed control

Control annual weeds, before they emerge and compete in the crop, by applying Roustabout® to the bare soil. Roustabout is a high strength formulation which is applied soon after planting and within seven days of final cultivation.



- ▶ Roustabout provides up to 10 weeks pre-emergence weed control, a critical factor for maximum yield.
- ▶ Roustabout controls a broad spectrum of annual grasses and broadleaf weeds.
- ▶ Roustabout is effective in a wide range of soils and climates.
- ▶ Roustabout doesn't rely on incorporation although incorporation may be beneficial where dry conditions are expected to continue.
- ▶ Roustabout can be tank-mixed with Nu-Trazine™ 900 DF or Flowable Atrazine.

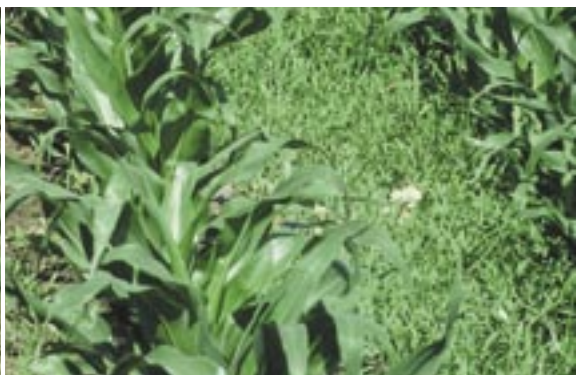
Application rate for Roustabout

Use 3 L/ha (2.5 L/ha – light, sandy soils only). Refer to product label for specific details on rates, application and timing.

Treated with Roustabout



Untreated



Step 4 Enhance broadleaf weed control

To enhance broadleaf weed control, you can select from Nu-Trazine® 900 DF, a granular formulation, or Flowable Atrazine, a liquid formulation each with their own set of benefits:



Nu-Trazine 900 DF

If a high infestation of broadleaf weeds (especially willow weed or fathen) is expected, tank-mix Nu-Trazine 900 DF with Roustabout®. Nu-Trazine 900 DF offers the following benefits:

- ▶ Nu-Trazine 900 DF is highly effective for pre- or post-emergence broadleaf weed control.
- ▶ Nu-Trazine 900 DF is a high strength granular formulation of atrazine, so there's less to handle and it's safer to use.
- ▶ Nu-Trazine 900 DF is conveniently packed in a carton making container disposal easier.
- ▶ Nu-Trazine 900 DF is more compatible with other herbicides.

The ability to tank-mix Nu-Trazine 900 DF and Roustabout offers the flexibility to vary the rate of either herbicide according to conditions, which is not possible with ready-mixed products.

Application rate for Nu-Trazine 900 DF

For broadleaf weeds in maize and sweetcorn, use 800g-1.6kg. Apply in 200 to 400L water/ha as directed band spray or as an overall spray. Refer to product label for specific details on rates, application and timing.



Flowable Atrazine

- ▶ Flowable Atrazine is a highly effective herbicide for pre-emergence or post-emergence broadleaf weed control. Weeds controlled include fathen*, black nightshade, willow weed, amaranth spp. and Apple of Peru.
- ▶ Flowable Atrazine can be tank mixed with Roustabout.
- ▶ Flowable Atrazine is suitable for sprayers that require a liquid formulation.

*Excludes triazine resistant fathen.

Application rate for Flowable Atrazine

For broadleaf weeds in maize and sweetcorn, use 1.5-3.0L in 200 to 400L water/ha as a directed band spray or as an overall spray. Refer to product label for specific details on rates, application and timing.

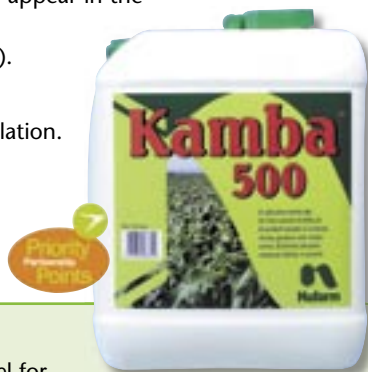
Step 5 Post-emergence broadleaf weed control

Where broadleaf weeds (e.g. triazine resistant fathen) appear in the established crop apply Kamba™ 500 or Emblem® (either alone or tank-mixed with Nu-Trazine™ 900 DF).

Kamba 500

Kamba 500 is a unique high strength dicamba formulation.

- ▶ Kamba 500 controls broadleaf weeds such as Californian thistles, bindweed, fathen and docks.
- ▶ Kamba 500 is high strength so there is less product to handle.



Application rate for Kamba 500

Apply Kamba 500 at 400-600 ml/ha. Refer to label for specific details on rates, application and timing.



Late germinating fathen unsprayed

Controlled with Kamba 500 post emergence

Emblem®

Emblem is non residual and provides an option for annual broadleaf weed control where an alternative to atrazine or dicamba is required, for example, triazine resistant fathen and black nightshade.

- ▶ Emblem controls a wide range of broadleaf weeds.
- ▶ Emblem is conveniently packed in a soluble bag and carton, making container disposal easier.
- ▶ Emblem is also suitable for use in sweetcorn crops.
- ▶ Emblem can be tank-mixed with Flowable Atrazine or Nu-Trazine 900 DF. Apply early post-emergence.



Application rate for Emblem

Apply Emblem at 2.25 kg/ha. Refer to label for specific details on rates, application and timing.

Step 6 Watch for Pests

Check maize crops regularly (every few days) in the first few weeks after emergence for evidence of cutworm.

Application rate for Sumi-Alpha

If greasy cutworm caterpillars start inflicting damage, protect the crop by applying Sumi-Alpha at 250 ml/ha. Refer to label for specific details on rates, application and timing.



Cutworm damage

SlugOut®

SlugOut is highly effective for controlling crop destroying slugs and snails. SlugOut's unique dust-free granules give excellent coverage per square metre, ensuring effective control of slugs and snails when planting new crops, or as spot treatment on emerged or established crops.

Application rate for SlugOut

Broadcast: Use 10 -15 kg/ha (100 - 150g/100m²) Preferably band along the maize rows at 10 kg/ha when slug damage occurs. Refer to label for specific details on rates, application and timing.



Step 7 Relax and reap the rewards!

Look forward with confidence that YOU and Nufarm have given your maize crop the best possible chances of reaching its maximum yield and profitability.

PLUS, you can earn Priority Partnership® points on most of Nufarm's Maize products. For more information on the Priority Partnership rewards programme, phone 0800 805 588 or visit www.prioritypartnership.co.nz



Step 8 Post-harvest clean up

Don't miss the opportunity for a post-harvest clean up, spray with Roundup TRANSORB, particularly if hard to kill perennial weeds have begun to germinate.




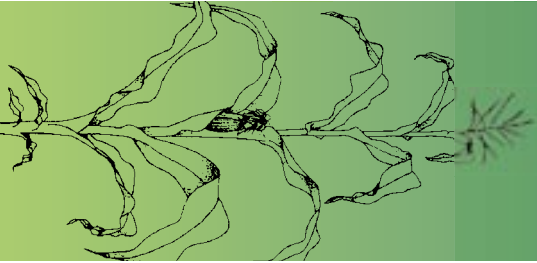

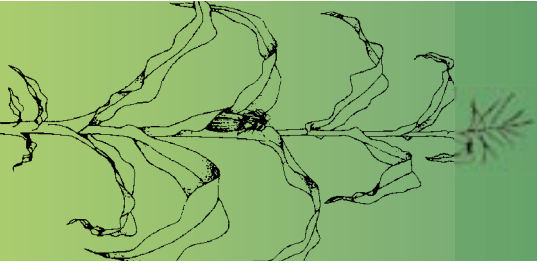


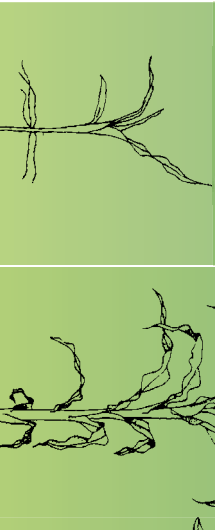
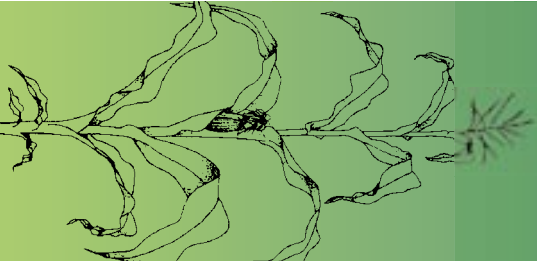


Post harvest use Roundup TRANSORB

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 Roundup TRANSORB No. P7050; Nu-Trazine 900 DF P4992; Roustabout P4288;
 Flowable Atrazine P2838; Sumi-Alpha P03795; Kamba 500 P5666; Emblem P5733;
 SlugOut No.P04161;

Protect and Maximise Your Crop with Nufarm

<p>Step 1+2 Pre-plant clean-up</p>	<p>Step 3 Pre-emergence Weed Control</p>	<p>Step 4, 5, 6 & 7 Post-emergence Weed Control</p>		<p>Step 8 Post harvest</p>
<p> PULSE <small>TRANSPARENT</small></p>	<p>*</p>	<p>EMBLEM Kamba 500</p>		<p></p>
<p>Nu-Trazine 900 DF</p>	<p>Flowable Atrazine</p>	<p>Sumi-Alpha®</p>	<p></p>	
<p>SlugOut®</p>	<p></p>		<p></p>	
<p></p>	<p></p>	<p></p>		<p></p>
<p>Pre-plant</p>	<p>Pre-emergence</p>	<p>Post-emergence</p>		<p>Mature Plant</p>

* Option to tank mix with Nu-Trazine 900 DF if high willow weed or fathen infestations
 † Indicates that Pulse Penetrant can be added to Roundup TRANSPARENT



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