



# Bobcat® i-MAXX

## User Guide



ADAMA





# Bobcat® i-MAXX

## Weed Control Maximised

A unique new tool for weed management providing:

- Outstanding performance against key grass and broadleaf weeds in sugarcane
- Unique liquid co-formulation for effective knockdown and extended residual control
- Dual mode of action for resistance management.

### Why Choose Bobcat® i-MAXX?

- For simple, effective, long term weed management
- For the convenience of an easy to measure, mix and apply liquid
- Flexible use window allowing application without time-of-year restrictions.



## Features and Benefits

Features	Benefits
Broad spectrum control of key grass and broadleaf weeds	One pass control saving time and money
No time-of-year restrictions.	Flexibility to act when required
Highly compatible liquid formulation	Easy to measure, mix and apply saving time and money
Dual mode of action for resistance management.	Confidence that weed resistance can be managed now and into the future.

## Target Species

### Grass Weeds

- **Awnless Barnyard Grass**  
(*Echinochloa colona*)
- **Barnyard Grass**  
(*Echinochloa crus-galli*)
- **Green Summer Grass**  
(*Brachiaria subquadriflora*)
- **Guinea Grass**  
(*Panicum maximum*)
- **Liverseed Grass**  
(*Urochloa panicoides*)
- **Summer Grass**  
(*Digitaria ciliaris*)

### Broadleaf Weeds

- **Blackberry Nightshade**  
(*Solanum nigrum*)
- **Blue Billygoat Weed/Blue Top**  
(*Ageratum houstonianum*)
- **Calopo Vine**  
(*Calapogonium mucunoides*)
- **Common Sida**  
(*Sida rhombifolia*)
- **Giant/Black Pigweed**  
(*Trianthema portulacastrum*)
- **Glossy Nightshade**  
(*Solanum americanum*)
- **Green Amaranth**  
(*Amaranthus viridis*)
- **Ipomea vine species including:**
  - **Bell Vine**  
(*Ipomea plebeia*)
  - **Common Morning Glory**  
(*I. purpurea*)
  - **Pink Convolvulus**  
(*I. triloba*)
  - **Red Convolvulus**  
(*I. hederifolia*)
  - **Star of Bethlehem**  
(*I. quamoclit*)
- **Milkweed/Mexican Fire Plant**  
(*Euphorbia heterophylla*)
- **Pigweed**  
(*Portulaca oleracea*)
- **Sowthistle**  
(*Sonchus oleraceus*)



## Sugarcane Weed Management

Canegrowers face a range of challenges when looking to manage weeds including managing time and labour, maximising the cost-effectiveness of herbicide applications, and selecting appropriate options in relation to both weather and environmental conditions.

Adama Australia have been working with growers and advisors for more than 20 years to develop a range of pre and post-emergent herbicides to assist canegrowers in Queensland and NSW to stay on top of these challenges and to continue to lead the world in sugarcane production.

## How Bobcat® i-MAXX works

Bobcat® i-MAXX combines the strengths of each of the two active ingredients from differing mode of action groups.

GROUP	<b>BC</b>	HERBICIDE
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Each is selective to particular weed species and the optimised co-formulation brings them together to maximise both the spectrum of target weeds and the length of time they are controlled.

## How To Apply Bobcat® i-MAXX

### Timing

Bobcat® i-MAXX has flexible application options in several crop stages and no restrictions limiting applications to certain times of the year.

### Spray Application recommendations

#### Ground Application:

Apply in 300 – 400 L/Ha of water using a medium to coarse droplet size.

It is recommended that good water quality is used, preferably rainwater.

If water hardness or Ca/Mg levels are too high, an ammonium sulphate water conditioner can be used.

Uniform application to the soil surface - with good soil moisture - followed by incorporation to a depth of 5 cm by rainfall or irrigation is critical for optimal results.

**Do not apply via aircraft.**

## When To Use Bobcat® i-MAXX

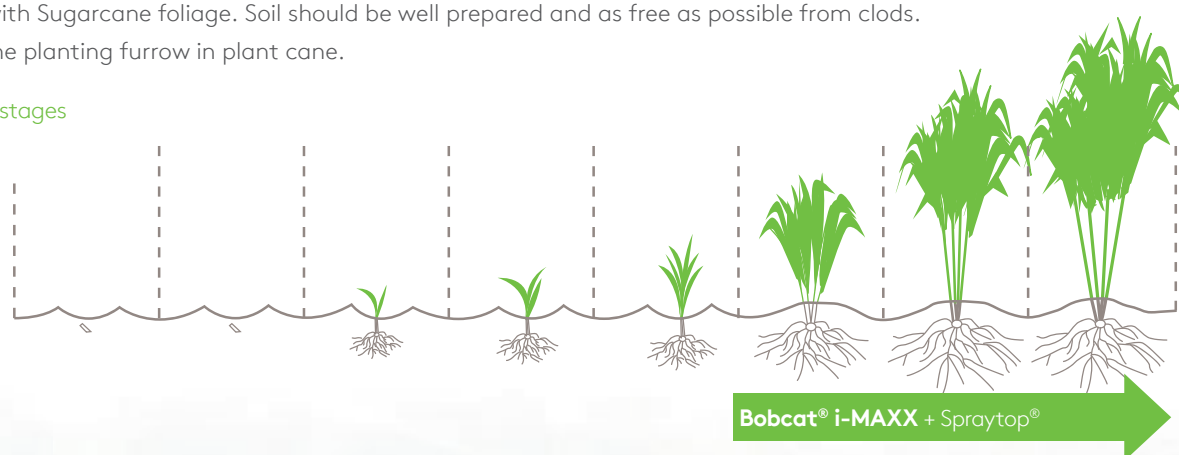
### Post-emergence Applications in Plant Cane

**Use Rate: 2.9 to 3.8 L/Ha PLUS 1.6 L/Ha of Spraytop® 250**

Apply as a carefully directed spray to the base of the plant and to weeds in the inter-row space after final hill formation, avoiding contact with Sugarcane foliage. Soil should be well prepared and as free as possible from clods.

DO NOT apply in the planting furrow in plant cane.

### Plant Cane growth stages



Development Phase	Post Plant	Post Plant - Weed Emergence	Spiking	3-4 Leaf Stage	6 Leaf Stage	Stooling/Fill In	Row Closure - Out of Hand	Established
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## When To Use Bobcat® i-MAXX

### Pre-emergence Applications in Ratoon Cane

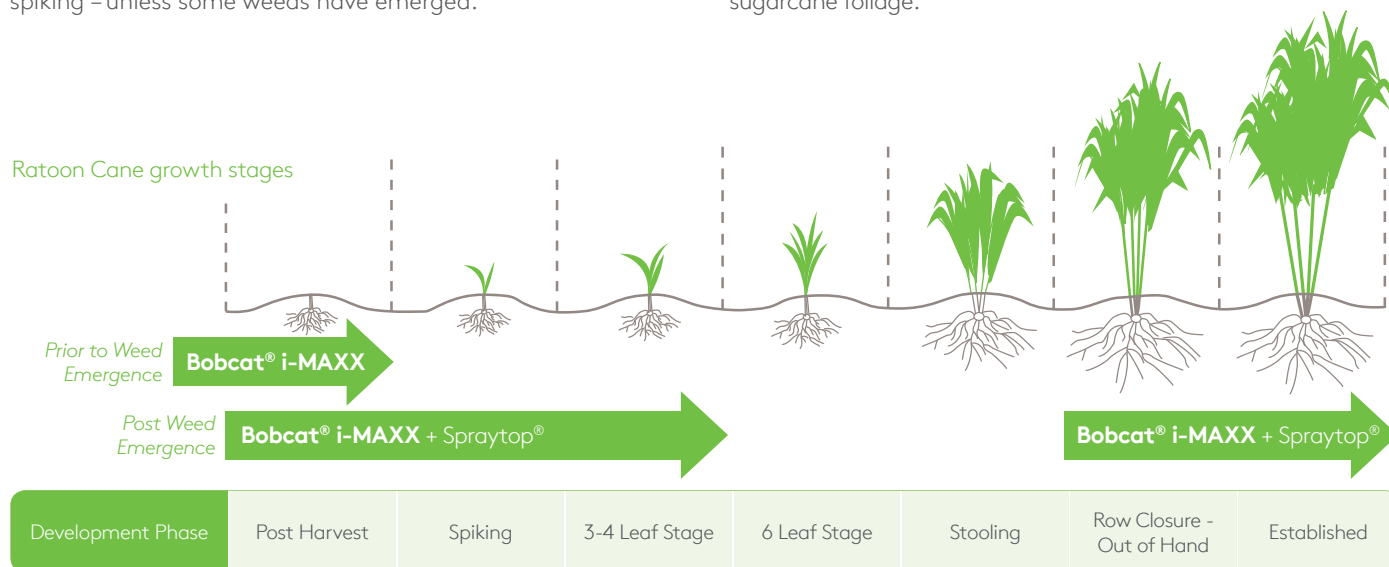
#### Use Rate: 2.9 to 3.8 L/Ha

Apply after harvest and before new cane growth appears. Addition of Spraytop® is not essential at this stage – prior to spiking – unless some weeds have emerged.

### Post-emergence Applications in Ratoon Cane

#### Use Rate: 2.9 to 3.8 L/Ha PLUS 1.6 L/Ha of Spraytop® 250

Apply as a carefully directed spray to the base of the plant and to weeds in the inter-row space, avoiding contact with sugarcane foliage.



For all applications:

- Ensure that soil moisture is adequate
- Where possible apply two days prior to incorporation by irrigation or rainfall to achieve incorporation to a depth of 5cm
- Best results are achieved where incorporation is within 10 days of application.

ALWAYS tank mix Bobcat® i-MAXX with 1.6 L/Ha of Spraytop® 250 for the control of any emerged weeds and to restrict the uptake of Bobcat® i-MAXX by Sugarcane plants. Apply all Spraytop® mixtures with Wetspray® 1000 (or other 100% non-ionic wetter) at 120 mL/100 L of water. DO NOT cultivate within 1 hour of application to allow time for the paraquat to be adequately absorbed by the weeds.

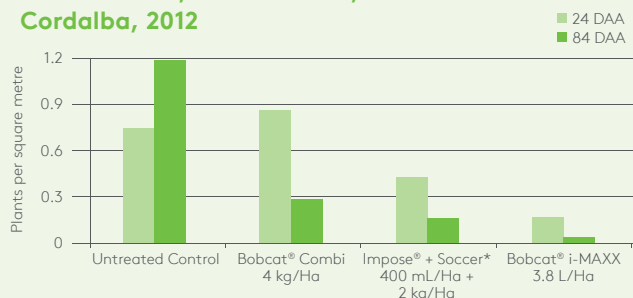
Use the higher rate of Bobcat® i-MAXX on high clay content soils for extended control of weeds or anticipated high weed pressure. Use the low rate on sandy soils under low to moderate weed pressure.



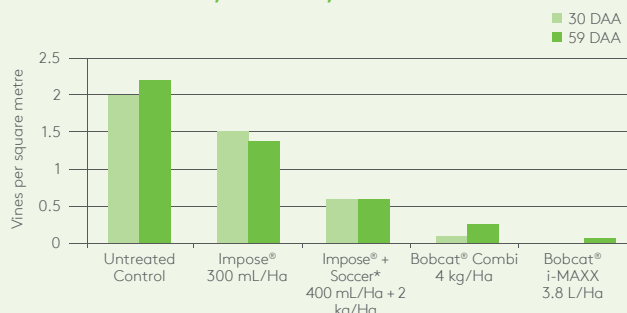


# Weed Control Maximised

**Guinea Grass, Ratoon Cane, Cordalba, 2012**



**Red Convolvulus, Innisfail, 2012**



## Conclusions from these and other trials:

Application of Bobcat® i-MAXX provides excellent results in comparison to standard weed management practices. Weed numbers are reduced quickly, and for an extended period, enabling the crop to maximise its access to water and nutrients. In trials conducted throughout the sugarcane growing regions, Bobcat® i-MAXX matched or outperformed all other products and mixtures on key target weeds.

## Important to Know

### Soil types

Results may vary with soil type and environmental conditions. Lower rates are effective on lighter soils while higher rates may be necessary for effective control on heavier soils.

Pre-emergence weed control may be limited on Krasnozem or red brown Ferrosol soil types, where moisture is not maintained in the top 5 cm of soil.

### Crop Safety

Prolonged wet soil and/or cool conditions can increase transient crop damage, especially in sandy soil. Normal growth will return when conditions become warm and drier.

### Plant-Back periods

Under conditions which do not favour herbicide breakdown, carry-over soil residues can affect susceptible crops that are planted after sugarcane treated with Bobcat® i-MAXX.

The following minimum re-cropping intervals should be observed:

**24 Months:** Barley, Chickpeas, Cotton, Lucerne, Lupins, Maize, Pasture Legumes, Sorghum, Sunflower and Wheat.

**36 Months:** Any other crops

In cropping systems that include rotation crops such as capsicums, cucurbits and soybeans and others not listed, careful planning should be used to ensure that Bobcat® i-MAXX is used in the early stages of sugarcane cropping - i.e. plant cane or the first or second ratoon - to ensure that no herbicide residues remain which will affect these rotational crops when planted.

**DO NOT apply more than 3.8 L/Ha per year.**

### Rainfastness

Since Bobcat® i-MAXX is being applied to soil and requires moisture to assist in its incorporation and activation, light rain that falls immediately after or even during an application is unlikely to reduce its efficacy.

Extremely heavy rain, however, that moves treated soil particles away from the planting row or pushes the product below the targeted zone once incorporated, may mean a reduction in residual weed control.

Avoid application during rain or when heavy rain is forecast within the next 24-48 hours.

### Harvest Withholding Period

No harvest withholding period is required when used as directed.

## Tank Mixture Compatibility

Bobcat® i-MAXX is a soluble liquid formulation that is compatible with a number of partner herbicides including: Spraytop® (Gramoxone\*), Diuron WG, Mentor® (Soccer\*), Zulu® Evo, Amine 625 and Spraytop® + Amine 625.

When used in tank mixes, Bobcat® i-MAXX should be added in the mixing order shown in the Adama Correct Mixing Order Chart below.

### Mixing Order:

<b>Step 1</b>	Fill the spray tank to at least 70% full with suitable water <b>Commence agitation</b>	
<b>Step 2</b>	Add any Water Conditioners <b>e.g. Ammonium Sulphate, Raizer® 700</b>	
<b>Step 3</b>	Add any Wettable powders (WP)	
<b>Step 4</b>	Add any Water dispersible granules (WG) products <b>e.g. Diuron 900 WG, Mentor®</b>	
<b>Step 5</b>	Add any Oil Dispersion (OD) formulations	
<b>Step 6</b>	<b>Ensure fully dispersed before proceeding</b>	
<b>Step 7</b>	Add any Flowable Liquids (FL) or Suspension Concentrate (SC) products	
<b>Step 8</b>	Add any Emulsifiable Concentrate (EC) products	
<b>Step 9</b>	Add any Emulsion Oil in Water (EW) or Suspension Emulsion (SE) formulations	
<b>Step 10</b>	Fill the mixing tank to nearly full	
<b>Step 11</b>	Add any Soluble Liquids (SL) <b>e.g. Bobcat® i-MAXX, Spraytop® or Zulu® Evo</b>	
<b>Step 12</b>	Add any Adjuvants and fill the tank <b>e.g. Wetspray® 1000</b>	



## Summary

- Outstanding performance against key grass and broadleaf weeds in sugarcane
- Easy to measure, mix and apply liquid
- Flexible use window without time-of-year restrictions
- Dual mode of action for resistance management.



Bobcat® i-MAXX is available through Adama Innovation Centres. Speak to your sugarcane agronomist/advisor about Bobcat® i-MAXX and its fit in your weed management program.

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Bobcat i-MAXX

Scan here for all the latest information and resources for Bobcat® i-MAXX

For Technical Assistance:  
**1800 327 669**

For more information visit  
**adama.com**

For Customer Enquiries:  
**1800 229 284**