



# ROUNDUP READY® COTTON PRODUCT GUIDE

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**Bollgard3**

**Roundup  
Ready FLEX**  
COTTON

**Roundup  
READY PL**  
HERBICIDE  
with PLANTSHIELD  
TECHNOLOGY

**Roundup  
READY**  
HERBICIDE  
with PLANTSHIELD

# BAYER ROUNDUP READY CROP SOLUTIONS

**Bayer provides a range of products that can contribute to the efficient and profitable management of cotton crops:**

- Bollgard® 3 and Roundup Ready Flex® provide growers with superior insect and weed control, enabling higher yields and cleaner fields.

- Roundup Ready® Herbicide with PLANTSHIELD® and Roundup Ready® PL Herbicide with PLANTSHIELD® Technology contain proprietary surfactant technology that are formulated with PLANTSHIELD technology providing superior weed control and excellent crop safety for use in the Roundup Ready Flex cotton system.



## BOLLGARD® 3 WITH ROUNDUP READY FLEX® COTTON

Bollgard 3 stacked with Roundup Ready Flex provides cotton growers with insect control and weed control options to enable superior yields, through the use of biotechnology.

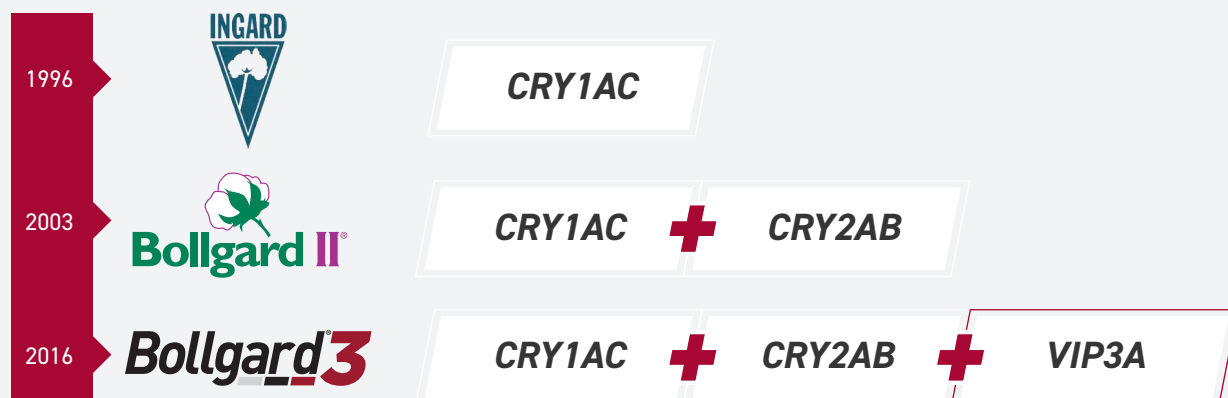
### Bollgard 3 cotton

Bollgard 3 is a biotechnology trait that reduces the need to spray for *Helicoverpa* spp., the main cotton pest for Australian growers

Bollgard 3 contains three proteins, Cry1Ac, Cry2Ab and Vip3A, each 'killing' larvae in a different way.

Having three different active proteins increases the sustainability of the technology as it is difficult for *helicoverpa* to develop resistance to more than one of the Bt proteins.

Bollgard 3 plays a critical role in protecting the technology, ensuring that it will continue to perform the way that growers need and expect for many years to come.







## LEADING INSECT-CONTROL TECHNOLOGY

### THREE ACTIVE PROTEINS

Each of the three proteins in Bollgard 3 – Cry1Ac, Cry2Ab and Vip3A – kills the larvae in a different way. This allows growers to effectively control *H. armigera* and *H. punctigera* for most of the cotton season.

### REDUCED NEED FOR BROAD-SPECTRUM PESTICIDE SPRAYS

Bollgard 3 significantly reduces the need for application of broad-spectrum pesticides, giving other insects, including beneficial species, the chance to develop.

### GREATER FIRST POSITION FRUIT RETENTION

In comparison with conventional cotton plants, Bollgard 3 plants have significantly higher first-position retention on the bottom five fruiting branches. Loss of first-position fruit can result in a significant yield penalty.

## AN EASIER WAY TO GROW COTTON

### PLANT TO YOUR SCHEDULE

Bollgard 3 provides you with the flexibility to plant your cotton crop when the conditions are most suitable.

### MAXIMISE YOUR PRODUCTIVE AREA

Bollgard 3 helps you to get the most from your cotton area, while ensuring the longevity of the technology for all growers through proactive resistance management.

### CONSERVE SOIL MOISTURE

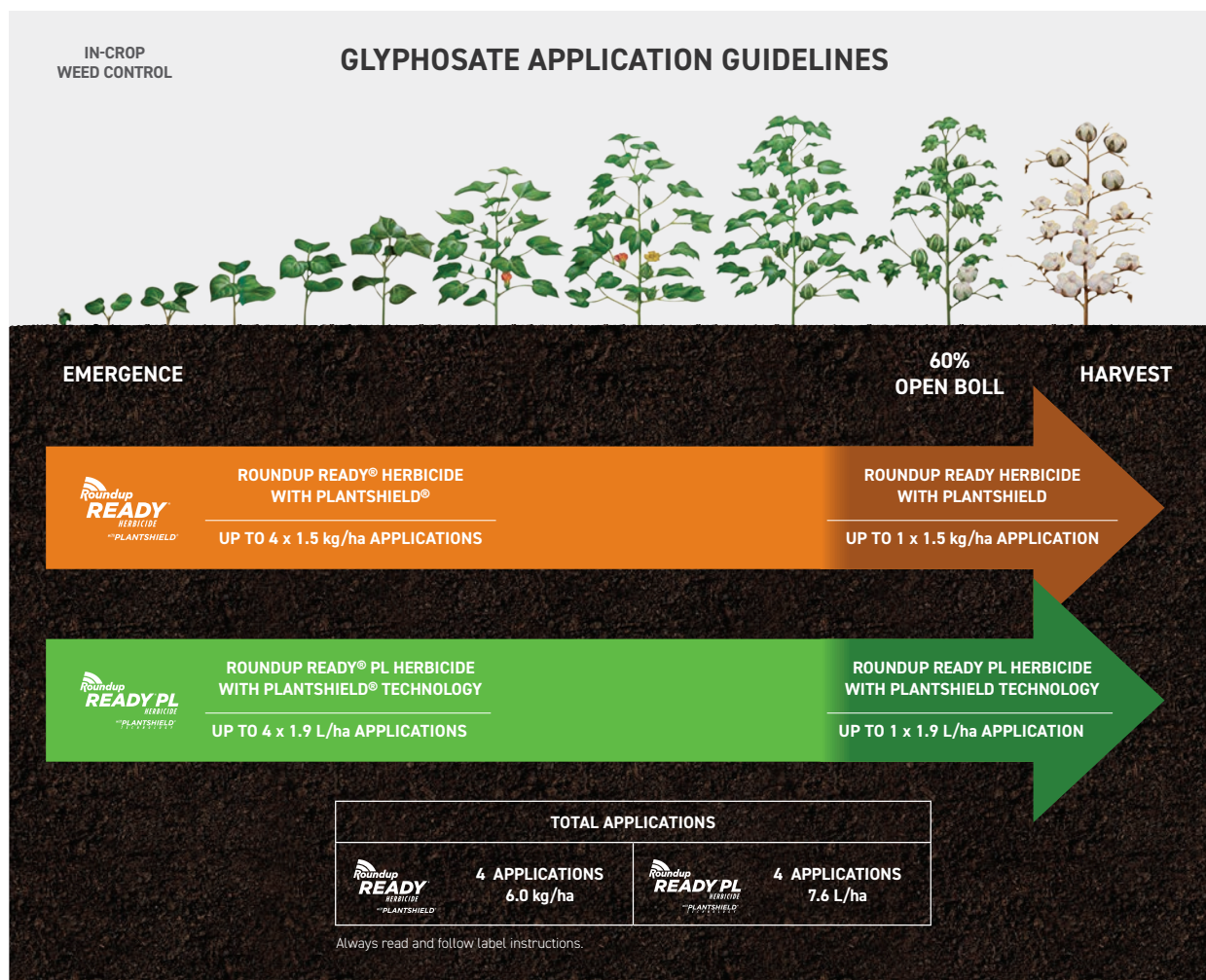
If Bollgard 3 cotton crops are defoliated before March 31, there's no need to pupae-bust meaning less tillage and fuel use, and more soil moisture for subsequent crops.





## Roundup Ready Flex® cotton

Varieties containing the Roundup Ready Flex trait enable growers to use registered glyphosate herbicides over-the-top of the crop, promoting superior yield potential through unmatched in-crop weed control.



### KEY FEATURES

#### Effective weed control system

A wide application window, outstanding crop safety, broad spectrum weed control and the ability to control weeds when they appear.

#### Flexible weed control

Roundup Ready Flex provides growers with superior in-crop weed control, enabling higher yields and cleaner fields.

#### The Roundup® advantage



Roundup Ready traits and the Roundup Ready Herbicide range are designed to work together. The leading formulations contain PLANTSHIELD® technology and are the only formulations covered by the Bayer warranty.



# ROUNDUP READY® HERBICIDES

Roundup Ready® PL Herbicide with PLANTSHIELD® Technology and Roundup Ready® Herbicide with PLANTSHIELD® are specifically designed to control annual and perennial weed types before and after sowing cotton crops containing the Roundup Ready Flex trait. Proprietary surfactant and PLANTSHIELD

technology provide superior weed control to enable growers to maximise yield potential. The Roundup Ready Herbicide range of products are the only registered over-the-top glyphosate formulations that come with the Bayer crop safety warranty.

	 <b>ROUNDUP READY® PL HERBICIDE WITH PLANTSHIELD® TECHNOLOGY</b>	 <b>ROUNDUP READY® HERBICIDE WITH PLANTSHIELD®</b>
Active	540 g/L glyphosate	690 g/kg glyphosate
Salt	Potassium salt	Mono-ammonium salt
Formulation	Liquid	Granule
Registered rate	1.9 L/ha	1.5 kg/ha

## KEY FEATURES



- Roundup Ready herbicides were developed specifically for over-the-top use in cotton and canola.
- Proprietary surfactant and PLANTSHIELD technology.
- Provides superior weed control and enable growers to maximise yield potential.
- PLANTSHIELD technology helps optimise crop safety in OTT situations.
- Warranted by Bayer for over-the-top use in cotton and canola.





Speak to your Bayer Territory Business Manager about The Bollgard 3 Resistance Management Plan and advice for an effective Integrated Weed Management strategy.



# THE **ADVANCED** WEED AND INSECT CONTROL SYSTEM



**Introducing Bayer's next generation cotton trait - XtendFlex® - that provides cotton growers with:**

- The first cotton trait developed with tolerance to over-the-top applications of glyphosate, dicamba and glufosinate-ammonium
- Enhanced flexibility in weed control
- Improved options to control hard-to-kill herbicide resistant weeds
- Bollgard® 3 insect control technology, that provides inbuilt defence against *Helicoverpa* species

HERBICIDE RESISTANCE  
MANAGEMENT

FLEXIBILITY

CONTROL

*For more information visit [xtendflex.com.au](http://xtendflex.com.au)*



# FOR MORE INFORMATION CONTACT YOUR BAYER TERRITORY BUSINESS MANAGER



**Mick Fing**  
Territory Business Manager  
Darling Downs and St George/Dirranbandi  
0417 305 717  
michael.fing@bayer.com



**Jack Sharp**  
Territory Business Manager  
Namoi and Walgett  
0436 355 226  
jack.sharp@bayer.com



**Greg Pearce**  
Territory Business Manager  
Gwydir, Macintyre and Mungindi  
0427 766 605  
greg.pearce@bayer.com



**Mark Dawson**  
National Sales Manager -  
Row Crop  
0428 106 090  
mark.dawson@bayer.com



**Emma Brotherton**  
Territory Business Manager  
Central Queensland and Dawson/Callide  
0409 742 738  
emma.brotherton@bayer.com



**Ben Turner**  
Territory Business Manager  
Northern Australia  
0429 809 502  
ben.turner@bayer.com



**David Higgins**  
Territory Business Manager  
North QLD  
0477 675 084  
david.higgins@bayer.com



**Jon Bennett**  
Territory Business Manager  
Macquarie & Bourke  
0409 490 923  
jon.bennett@bayer.com



**Wes Amor**  
Territory Business Manager  
Murray (selected stores)  
0438 019 355  
wes.amor@bayer.com



**Kyleigh Turner**  
Territory Business Manager  
Griffith & Murrumbidgee Irrigated Area (MIA),  
Coleambally Irrigated Area (CIA), Hay & Lachlan  
0409 348 878  
kyleigh.turner@bayer.com



**Seamus McKinley**  
Territory Business Manager  
Murray (selected stores)  
0427 330 684  
seamus.mckinley@bayer.com

To find out more visit **[bollgard3.com.au](http://bollgard3.com.au)**

Always consult the product label for detailed information. The information and recommendations set out in this brochure are based on tests and data believed to be reliable at the time of publication. Results may vary, as the use and application of the products is beyond our control and may be subject to climatic, geographical or biological variables, and/or developed resistance. Any product referred to in this brochure must be used strictly as directed, and in accordance with all instructions appearing on the label for that product and in other applicable reference material. So far as it is lawfully able to do so, Bayer CropScience Pty Ltd accepts no liability or responsibility for loss or damage arising from failure to follow such directions and instructions.



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Bayer CropScience Pty Ltd  
ABN 87 000 226 022  
Level 4, 109 Burwood Road  
Hawthorn VIC 3122  
Phone: 1800 636 001  
[bollgard3.com.au](http://bollgard3.com.au)