



BAYER COTTON PRODUCT GUIDE

2023/24



Bollgard3

**Roundup
ReadyFLEX**
COTTON

**Roundup
READY PL**
HERBICIDE
PLANTSHIELD
TECHNOLOGY

**Roundup
READY**
HERBICIDE
PLANTSHIELD



BAYER COTTON 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.

- Movento® is a powerful, innovative insecticide for the control of sucking pests – including silverleaf whitefly, cotton aphid and cotton mealybug.



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.

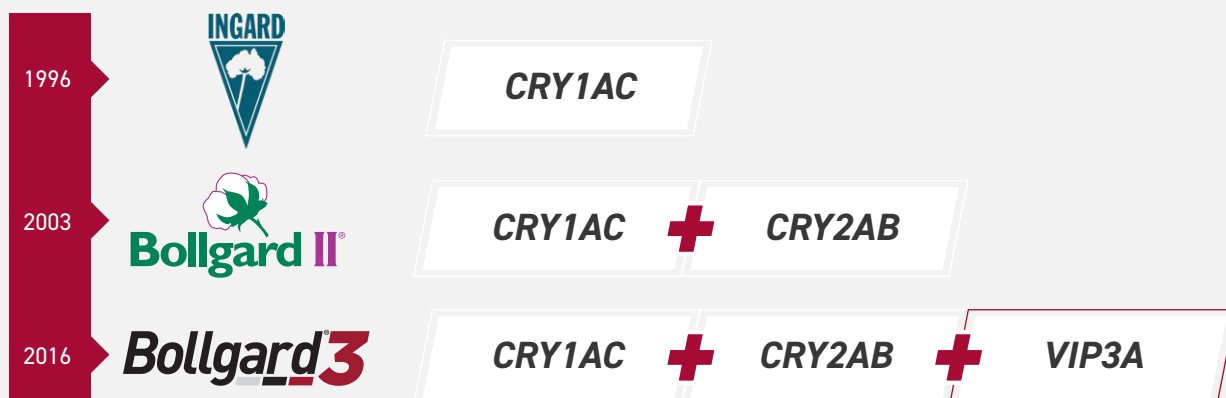
Bollgard 3 cotton

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.

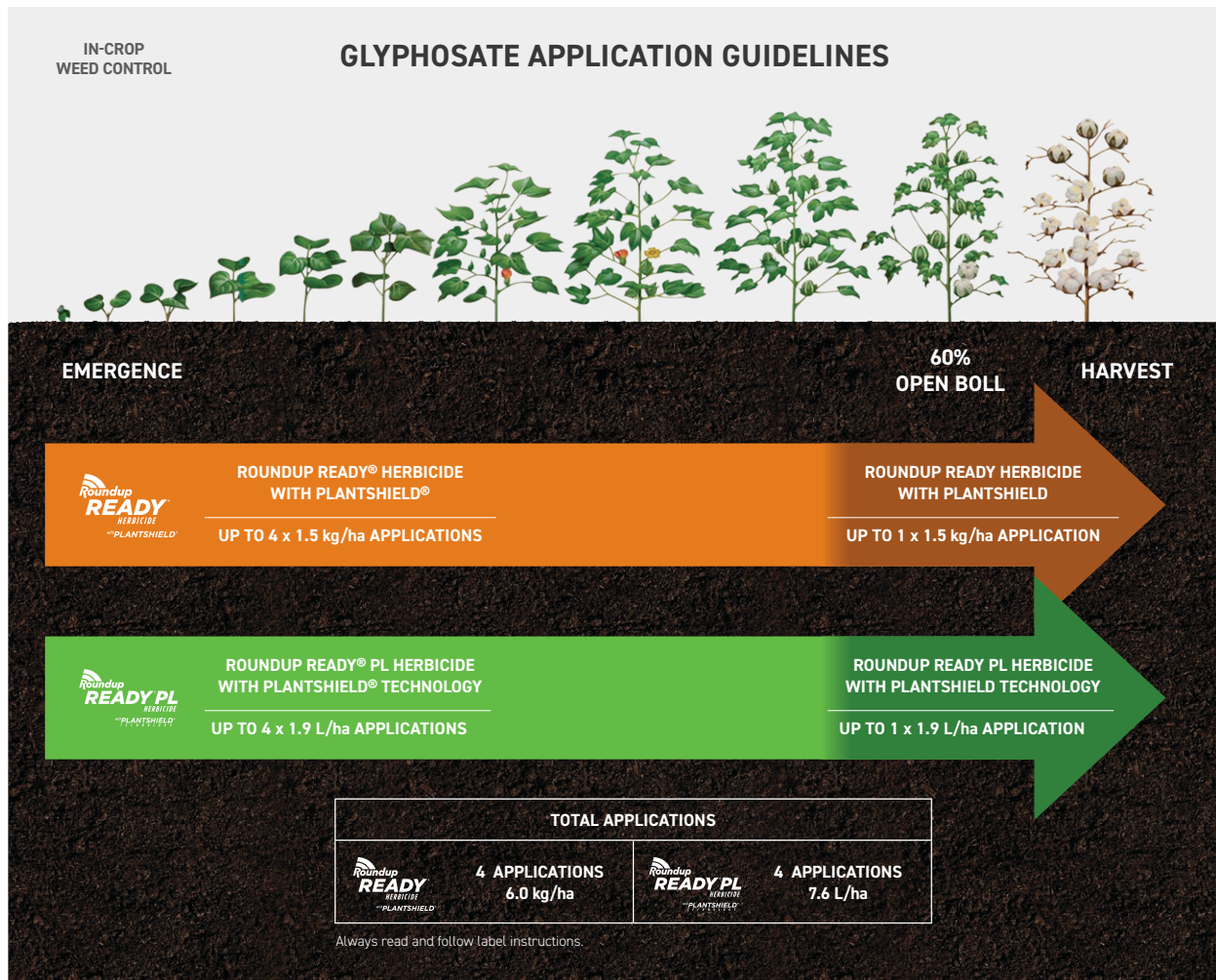
CONSERVE SOIL MOISTURE

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.

	 ROUNDUP READY® PL HERBICIDE WITH PLANTSHIELD® TECHNOLOGY	 ROUNDUP READY® HERBICIDE WITH PLANTSHIELD®
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.



MOVENTO[®] 240 SC INSECTICIDE





Movento is a powerful, innovative insecticide for the control of sucking pests – including **silverleaf whitefly, cotton aphid and cotton mealybug.**

Movento is better able to control sucking pests 'hiding' on the covered inner leaves that other insecticides can't reach. Movento is highly compatible with IPM production systems, being 'soft' on most beneficial species when used as directed and highly effective on pest populations that may have developed resistance to existing registered products.

Movento can be applied early in the season while beneficial insect numbers are building and it also can be applied later in the season to protect lint yield and quality.

Movento works by interfering with fat reserves which are required for insects to grow. Therefore, Movento should be targeted primarily at juveniles i.e. when pest numbers are building and the majority of the population is made up of juveniles rather than significant populations of adults.

KEY FEATURES

			
<p>2-WAY SYSTEMIC</p> <p>Movento controls hidden pests other insecticides don't reach, because it is transported in both the xylem and phloem; good coverage is recommended.</p>	<p>GROUND AND AERIAL APPLICATION</p> <p>Movento is registered for aerial and ground application in cotton.</p>	<p>IPM FIT</p> <p>Soft on most beneficial species, with minimal impact compared to broad spectrum alternatives when used as directed. Movento is soft on ladybird beetles, which are natural predators of mealybugs.</p>	<p>COMPATIBILITY</p> <p>Movento is compatible with a broad range of products and it can be tank mixed to control other pests such as mirids.</p>



MOVENTO®



Cotton mealybug
(*Phenacoccus solenopsis*)



Silverleaf whitefly
(*Bemisia tabaci*)



Cotton aphid
(*Aphis gossypii*)

Keep cotton pests pinned down.

Stop the pests wherever they're hiding in your cotton crop, with the two-way systemic action of Movento®:

- Protects the whole plant
- The only registered Group 23 insecticide
- Low impact to most beneficial species, when used as directed

With long-lasting protection, Movento can be effectively used as part of your integrated pest management program.

To learn more and download the Movento cotton crop guide, visit crop.bayer.com.au/movento or talk to your local Bayer Crop Science representative.



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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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