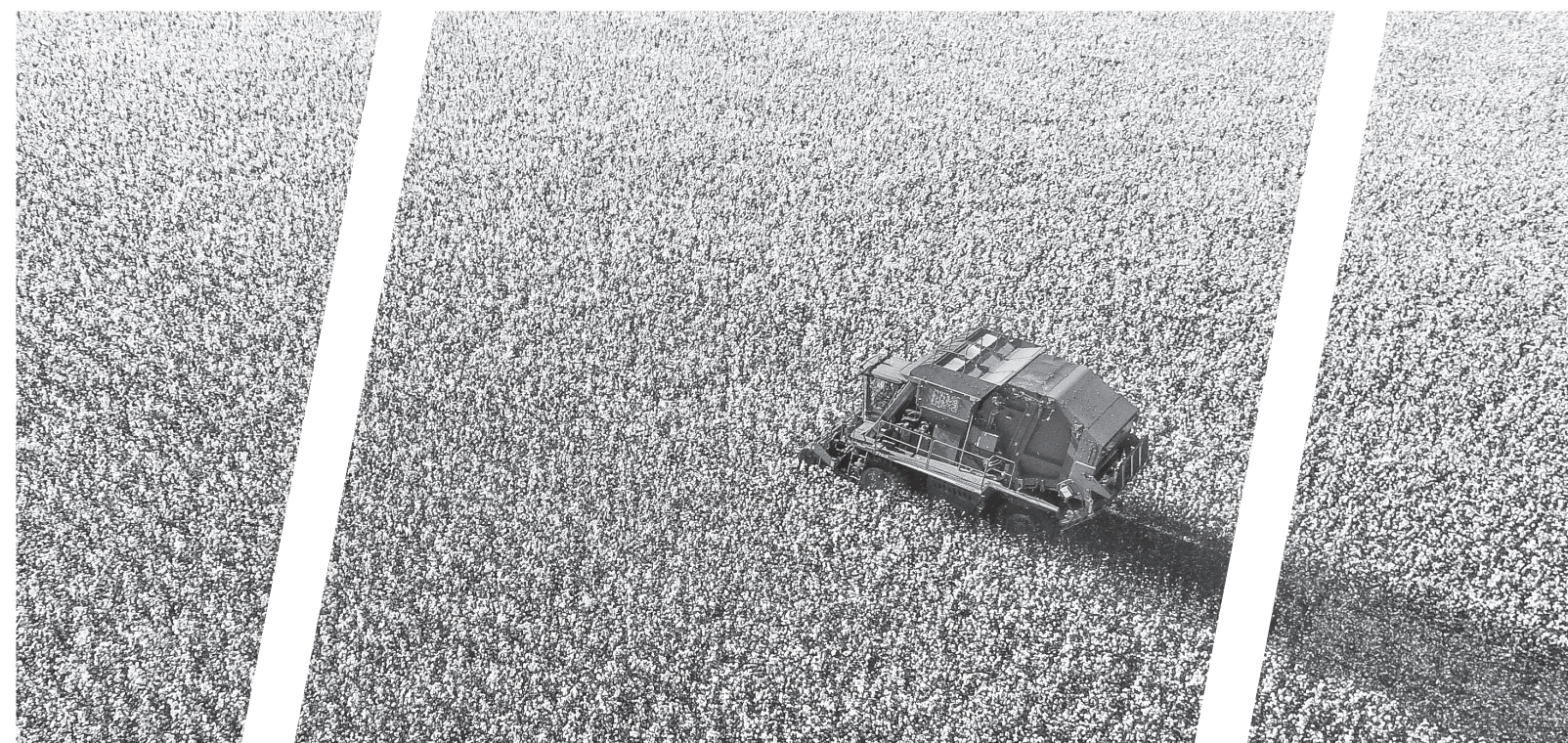




# GUIDELINES FOR A SUCCESSFUL IWM STRATEGY TO REDUCE HERBICIDE RESISTANCE RISKS:

- Aim to enter the Roundup Ready® cotton cropping phase of the rotation with a low weed burden.
- Regularly **monitor the effectiveness** of resistance management practices.
- Integrate as many different weed control options (**chemical and cultural**) as possible through all phases of the crop rotation.
- **Test weed populations** for herbicide resistance status as part of ongoing integrated weed management (IWM).
- Make every herbicide application count – use **registered rates** at the correct application **growth stage** and assess effectiveness.
- If planting into a paddock with suspected glyphosate resistant weeds growers must have a **plan to manage such weeds**.
- Rotate herbicides with **different modes of action** throughout the crop rotation.

For more information on integrated weed management visit [weedsmart.org.au](https://weedsmart.org.au)



For additional resources on cotton weed management, download the Roundup Ready Flex cotton Weed Resistance Management Plan from [bollgard3.com.au](https://bollgard3.com.au), check out the Cotton Pest Management Guide or contact your Bayer Territory Business Manager.



**Ian McMaster**  
Market Development Advancement Manager  
0400 191 971  
[ian.mcmaster@bayer.com](mailto:ian.mcmaster@bayer.com)



**Richard Jackman**  
Market Development Agronomist  
0448 252 882  
[richard.jackman@bayer.com](mailto:richard.jackman@bayer.com)



**Daisy Atkinson**  
Brand Manager – Cotton, Summer Crops & Roundup®  
0487 542 578  
[daisy.atkinson@bayer.com](mailto:daisy.atkinson@bayer.com)

## ROUNDUP READY FLEX® COTTON WEED MANAGEMENT GUIDE

Roundup Ready Flex® technology in Roundup Ready Flex cotton provides the opportunity to achieve superior weed control with excellent crop safety setting the crop up for maximum yield potential. However, over-reliance on glyphosate before, during and after the cotton crop will increase your chance of glyphosate resistant weeds developing on your farm.

There are a range of herbicides with different modes of action which can be used in a Roundup Ready Flex cotton crop throughout the season. By adding targeted use of pre-emergent, selective herbicides, cultivations and chipping, you can maintain excellent weed control while

reducing the risk of glyphosate resistance developing on your farm, saving you time and money in the future.

On the following pages we have listed clear recommendations for weed control practices in a Roundup Ready Flex cotton crop, as well as for pre- and post-harvest weed and volunteer cotton control.

Make sure to contact your agronomic consultant regarding your planned weed control program as the following information is a guide only. For more information on herbicide resistance visit [mix-it-up.com.au](https://mix-it-up.com.au) and [weedsmart.org.au](https://weedsmart.org.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. Copyright ©2023 the Bayer Group. All Rights Reserved. Roundup®, Roundup Ready®, Roundup Ready Flex®, Sencor® and PLANTSHIELD® are Registered Trademarks of the Bayer Group.



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





# WEED MANAGEMENT RECOMMENDATIONS FOR THE ROUNDUP READY FLEX SYSTEM



## PRE-PLANTING FALLOW AND/OR KNOCKDOWN\*

### ALL LABEL WEEDS

- Spray.Seed®
- Biffo®
- Valor®
- Roundup Ultra® MAX Herbicide
- Gramoxone®

## PRE-PLANTING OR PRE-EMERGENT RESIDUAL\*

### ALL LABEL WEEDS

- Cotogard® WG
- Cotoran®
- Valor®

### BROADLEAF WEEDS

- Diuron 900 WG
- Cotoran
- Terbyne® Xtreme

### GRASS WEEDS

- Bouncer® 960S
- Dual Gold®
- Treflan®
- Rifle® 440

## IN-CROP APPLICATION\*

### ALL LABEL WEEDS

- Roundup Ready® PL Herbicide with PLANTSHIELD® Technology
- Roundup Ready® Herbicide with PLANTSHIELD®

### GRASS WEEDS

- Verdict® 520
- Sequence®
- Factor®
- Bouncer 960S
- Dual Gold



### CULTIVATION

It is important to target all surviving weeds after chemical applications. The timely use of cultivation and chipping targeting surviving weeds can be a key IWM tactic in a cotton system.



### CHIPPING

## LAY-BY / SHIELDED SPRAY

### ALL LABEL WEEDS

- Gesagard® 500 SC

### GRASS WEEDS

- Rifle 440

### BROADLEAF WEEDS

- Diuron 900 WG
- Valor
- Terbyne Xtreme

## PRE-HARVEST

### ALL LABEL WEEDS

- Roundup Ready PL Herbicide with PLANTSHIELD Technology
- Roundup Ready Herbicide with PLANTSHIELD

## POST-HARVEST

### ALL LABEL WEEDS

- Roundup Ready PL Herbicide with PLANTSHIELD Technology
- Roundup Ready Herbicide with PLANTSHIELD
- Roundup Ultra® MAX Herbicide
- Spray.Seed

### BROADLEAF WEEDS

- 2,4-D Amine 625
- Starane® Advance

Product	Group	Active Ingredients	Company
Verdict 520	1	520 g/L haloxyfop	Corteva
Sequence	1	240 g/L clethodim	Nufarm
Factor®	1	250 g/kg butoxydim	Nufarm
Bromicide® 200	6	200 g/L bromoxynil	Nufarm
Cotogard WG	5	440 g/L fluometuron, 440 g/kg prometryn	Adama
Cotoran	5	900 g/kg fluometuron	Adama
Diuron 900 WG	5	900 g/kg diuron	Adama
Gesagard 500 SC	5	500 g/L prometryn	Syngenta
Sencor® 480 SC	5	480 g/L metribuzin	Bayer
Terbyne Xtreme	5	875 g/kg terbuthylazine	Sipcam
Rifle 440	3	440 g/L pendimethalin	Nufarm
Treflan	3	480 g/L trifluralin	Corteva
Nail® 600EC	14	600 g/L carfentrazone-ethyl	Nufarm
Valor	14	500 g/kg flumioxazin	Sumitomo
Sharpen®	14	700 g/kg saflufenacil	BASF

Product	Group	Active Ingredients	Company
2,4-D Amine 625	4	625 g/L 2,4-D	Adama
Starane Advance	4	333 g/L fluroxypyr	Corteva
Bouncer 960S	15	960 g/L s-metolachlor	Nufarm
Dual Gold	15	960 g/L s-metolachlor	Syngenta
Gramoxone	22	250 g/L paraquat	Syngenta
Spray.Seed	22	135 g/L paraquat + 115 g/L diquat	Syngenta
Roundup Ready PL Herbicide with PLANTSHIELD Technology	9	540 g/L glyphosate	Bayer
Roundup Ready Herbicide with PLANTSHIELD	9	690 g/kg glyphosate	Bayer
Roundup Ultra MAX Herbicide	9	570 g/L glyphosate	Bayer
Biffo	10	200 g/L glufosinate-ammonium	Nufarm

## VOLUNTEER ROUNDUP READY FLEX COTTON CONTROL

### In fallow weed control\*

- Sharpen®
- Nail® 600EC
- Bromicide® 200
- Spray.Seed
- Gramoxone

### Pre-planting knockdown\*

- Valor
- Nail 600EC

### Early in-crop application\*

- Sencor® 480 SC†

### Post-harvest

- Nail 600EC
- Bromicide 200
- Starane Advance



\*Check label for plantback period and always apply according to label conditions.  
†Recommended for weed control in pigeon pea refuge crops.

