

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

Aim to enter the Roundup Ready cropping phase of the rotation with a **low weed burden**.

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

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

### Additional Information

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



**Kate Lang**  
Product and Stewardship Manager  
0418 327 101  
[katherine.sarah.lang@monsanto.com](mailto:katherine.sarah.lang@monsanto.com)

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## ROUNDUP READY® FLEX COTTON WEED MANAGEMENT GUIDE.

Roundup Ready Flex technology gives you superior weed control, excellent crop safety and the ability to maximise your yield potential. However, over reliance on glyphosate before, during and after the cotton crop will increase your chance of resistance developing on your farm.

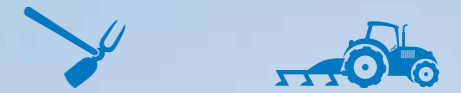
There are a range of herbicides with different modes of action which can be used in a Roundup Ready Flex cotton crop throughout the season. By adding targeted use of pre-emergent, selective herbicides, cultivations and chipping, you can maintain excellent weed control while reducing the risk of glyphosate resistance developing on your farm, saving you time and money in the future.

We've listed clear recommendations for weed control practices in a Roundup Ready Flex cotton crop, as well as for post and pre-harvest weed and volunteer control.

Make sure to contact your consultant regarding your planned weed control program as the following information is a guide only. For more information on herbicide resistance visit [www.weedsmart.org.au](http://www.weedsmart.org.au).



# WEED MANAGEMENT RECOMMENDATIONS FOR THE ROUNDUP READY FLEX SYSTEM.



## PRE-PLANTING KNOCKDOWN\*

### All label weeds

- Spray.Seed®
- Liberty®

### Broadleaf weeds

- Roundup® Ultra® MAX Herbicide

### Grass weeds

- Gramoxone®

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

### All label weeds

- Cotogard® WG
- Cotoran®

### Broadleaf weeds

- Diuron 900 WDG
- 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®
- Bouncer® 960S

## LAY-BY / SHIELDED SPRAY

### All label weeds

- Gesagard® 500 SC

### Grass weeds

- Rifle® 440

### Broadleaf weeds

- Diuron 900 WDG

- 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®

- Spray.Seed®

### Broadleaf weeds

- 2,4-D Amine 625
- Starane™ Advance



**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**

## 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®†



### Post-harvest

- Nail® 600EC
- Bromicide® 200
- Starane™ Advance

Product	Group	Active Ingredients	Company	Product	Group	Active Ingredients	Company
Verdict™ 520	A	520 g/L haloxyfop (present as the haloxyfop-R methyl ester)	Dow	2,4-D Amine 625	I	625 g/L 2,4-D	Adama
Sequence®	A	240 g/L clethodim	Nufarm	Starane™ Advance	I	333 g/L fluroxypyr (present as meptyl ester)	Dow
Bromicide® 200	B	200 g/L bromoxynil	Nufarm	Bouncer® 960S	K	960 g/L S-Metolachlor	Nufarm
Cotogard® WG	C	440 g/L fluometuron, 440 g/kg prometryn	Adama	Dual Gold®	K	960g/L s-metolachlor	Syngenta
Cotoran®	C	900 g/kg fluometuron	Adama	Gramoxone®	L	250 g/L paraquat present as paraquat dichloride	Syngenta
Diuron 900 WDG	C	900 g/kg diuron	Adama	Spray.Seed®	L	135 g/L paraquat (present as paraquat dichloride) and 115 g/L diquat (present as diquat dibromide)	Syngenta
Gesagard® 500 SC	C	500 g/L prometryn	Syngenta	Roundup Ready PL Herbicide with PLANTSHIELD TECHNOLOGY	M	540g/L glyphosate	Sinochem
Sencor® 750 WG	C	750 g/kg metribuzin	Bayer	Roundup Ready® Herbicide with PLANTSHIELD®	M	690g/kg glyphosate	Sinochem
Terbyne® Xtreme®	C	875 g/kg Terbutylazine	Sipcam	Liberty®	N	200 g/L glufosinate-ammonium	Bayer
Rifle® 440	D	440 g/L pendimethalin	Nufarm				
Treflan™	D	480 g/L trifluralin	Dow				
Nail® 600EC	G	600g/L carfentrazone-ethyl	CropCare				
Valor®	G	500 g/kg flumioxazin	Sumitomo				
Sharpen®	G	700 g/kg saflufenacil	Nufarm				

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



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