



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 agronomic 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® by Monsanto

GRASS WEEDS

- Verdict™ 520
- Sequence®
- Bouncer® 960S



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 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

Product	Group	Active Ingredients	Company
Verdict™ 520	A	520 g/L haloxyfp (present as the haloxyfop-R methyl ester)	Dow
Sequence®	A	240 g/L clethodim	Nufarm
Bromicide® 200	B	200 g/L bromoxynil	Nufarm
Cotogard® WG	C	440 g/L fluometuron, 440 g/kg prometryn	Adama
Cotoran®	C	900 g/kg fluometuron	Adama
Diuron 900 WDG	C	900 g/kg diuron	Adama
Gesagard® 500 SC	C	500 g/L prometryn	Syngenta
Sencor® 750 WG	C	750 g/kg metribuzin	Bayer
Terbyne® Xtreme®	C	875 g/kg Terbutylazine	Sipcam
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

Product	Group	Active Ingredients	Company
2,4-D Amine 625	I	625 g/L 2,4-D	Adama
Starane™ Advance	I	333 g/L fluroxypyr (present as meptyl ester)	Dow
Bouncer® 960S	K	960 g/L s-metolachlor	Nufarm
Dual Gold®	K	960g/L s-metolachlor	Syngenta
Gramoxone®	L	250 g/L paraquat present as paraquat dichloride	Syngenta
Spray.Seed®	L	135 g/L paraquat (present as paraquat dichloride) and 115 g/L diquat (present as diquat dibromide)	Syngenta
Roundup Ready PL Herbicide with PLANTSHIELD Technology	M	540g/L glyphosate	Sinochem
Roundup Ready® Herbicide with PLANTSHIELD®	M	690g/kg glyphosate	Sinochem
Liberty®	N	200 g/L glufosinate-ammonium	Bayer

VOLUNTEER ROUNDUP READY FLEX COTTON CONTROL

In fallow weed control*	Pre-planting knockdown*	Early in-crop application*	Post-harvest
Sharpen	Valor®	Sencor®†	Nail® 600EC
Nail® 600EC	Nail® 600EC		Bromicide® 200
Bromicide® 200			Starane™ Advance
Spray.Seed®			
Gramoxone®			

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



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

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



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PLANTSHIELD TECHNOLOGY

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