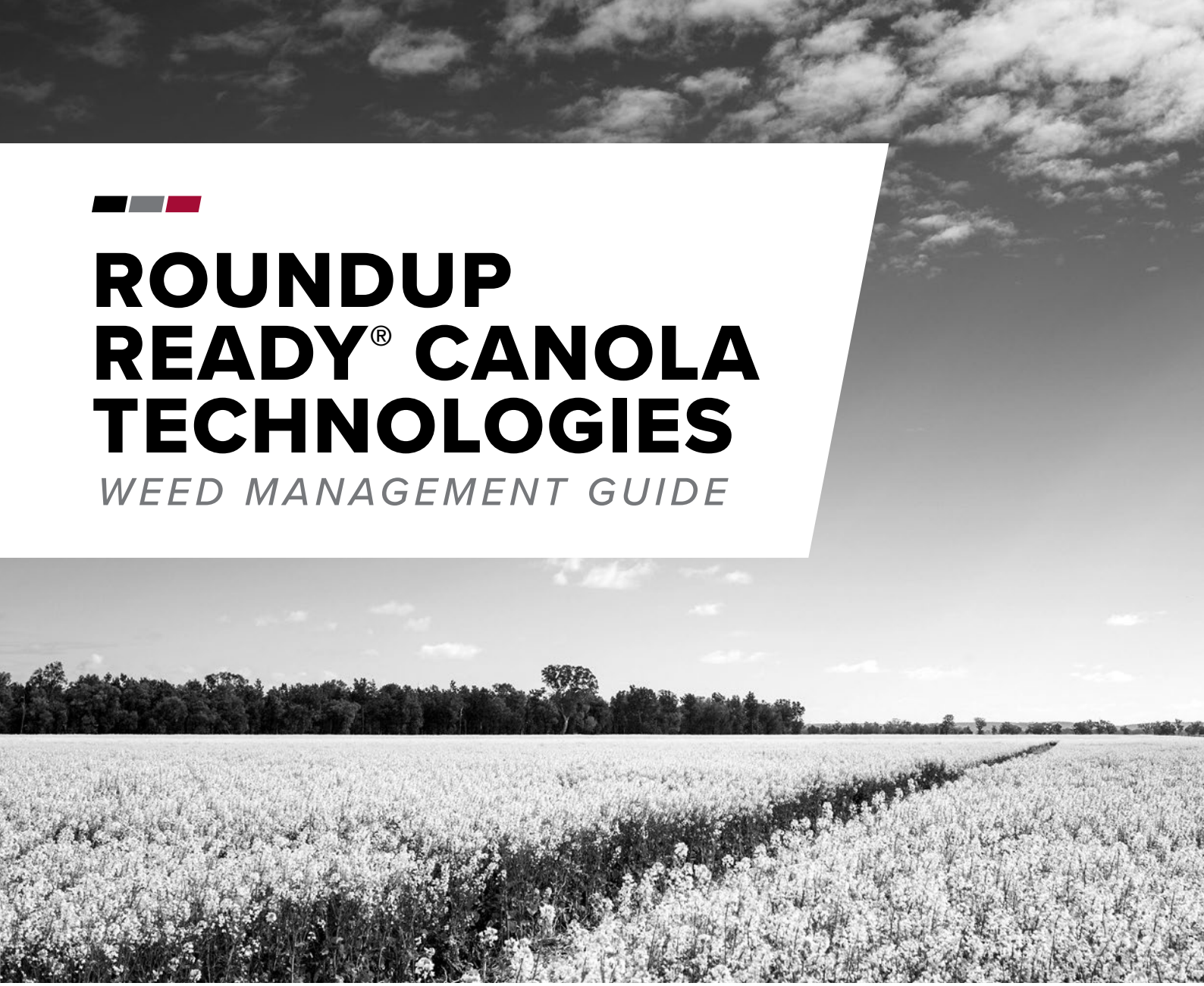

ROUNDUP READY® CANOLA TECHNOLOGIES

WEED MANAGEMENT GUIDE

TruFlex® canola with Roundup Ready® Technology and Roundup Ready® canola (Roundup Ready Technologies) give growers superior weed control, excellent crop safety and the ability to increase yield potential. However, over-reliance on glyphosate before, during and after the canola crop will increase the chance of resistance developing on a grower's farm.

There are a range of herbicides with different modes of action to glyphosate, which can be used in TruFlex and Roundup Ready canola crops and in a winter cropping rotation. By adding targeted use of one or more of these alternative herbicides and cultural practices, growers can maintain excellent weed control while reducing the risk of glyphosate resistance developing on their farm, saving time and money in the future. We've listed clear recommendations for weed control practices in both TruFlex and Roundup Ready canola crops as well as for post-harvest weed and volunteer control.

Growers need to contact their consultant regarding their planned weed control program as the following information is a guide only. For more information on herbicide resistance visit **mix-it-up.com.au** and **weedsmart.org.au**

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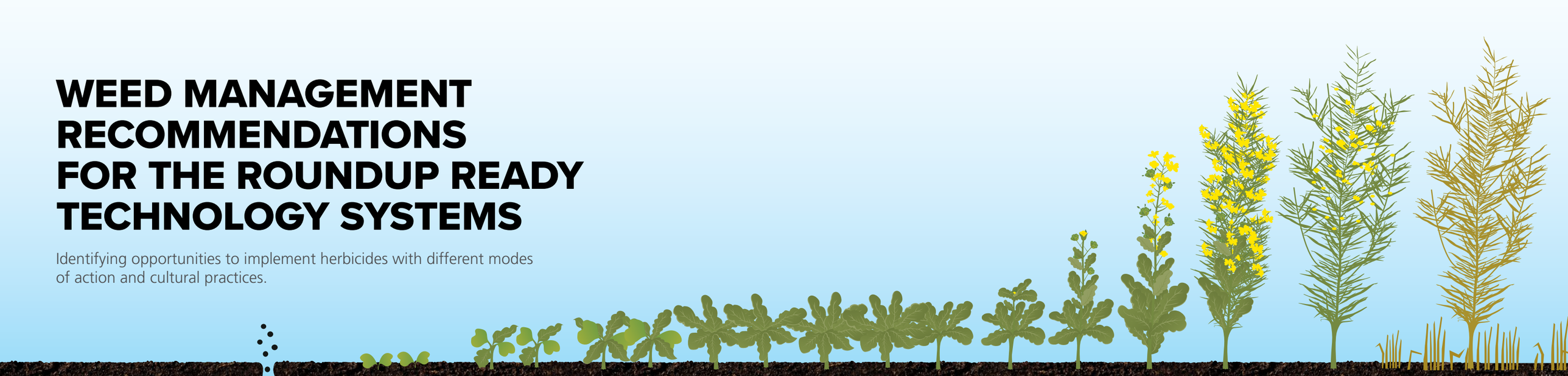
TruFlex® CANOLA

Roundup Ready® CANOLA

WEED MANAGEMENT RECOMMENDATIONS FOR THE ROUNDUP READY TECHNOLOGY SYSTEMS

Identifying opportunities to implement herbicides with different modes of action and cultural practices.



PRE-PLANT

Grass and Broadleaf Weeds
- Roundup Ultra® MAX
- Spray.Seed® 250
- Gramoxone®
- Alliance®

Broadleaf Weeds
- Goal™
- Ecopar®
- Amicide® Advance 700
- Estercide® Xtra
- Basta®
- Kamba® 750
- Lontrel® Advanced

Refer to herbicide labels for canola plantback period

AT PLANTING

Grass and Broadleaf Weeds
- Roundup Ultra® MAX
- Spray.Seed® 250
- Gramoxone®

Annual Ryegrass
- TriflurX®
- Butisan®
- Rustler®
- Overwatch®

Wild Oats
- TriflurX®
- Avadex® Xtra

Toadrush
- Dual Gold®

Capeweed/ volunteer legumes
- Hammer®

Hard to control broadleaf weeds eg. Marshmallow
- Hammer®

COTYLEDON

Grass and Broadleaf Weeds
- Roundup Ready® Herbicide with PLANTSHIELD®
- Roundup Ready® PL Herbicide with PLANTSHIELD® Technology

2 TRUE LEAF

Grass and Broadleaf Weeds
- Roundup Ready® Herbicide with PLANTSHIELD®
- Roundup Ready® PL Herbicide with PLANTSHIELD® Technology

Annual Ryegrass
- Verdict™ 520
- Select™

Wild Oats
- Verdict™ 520
- Select™

Capeweed/ volunteer legumes
- Lontrel® Advanced

4 -6 TRUE LEAF

Grass and Broadleaf Weeds
- Roundup Ready® Herbicide with PLANTSHIELD®
- Roundup Ready® PL Herbicide with PLANTSHIELD® Technology

Annual Ryegrass
- Verdict™ 520
- Select™
- Factor®

Wild Oats
- Verdict™ 520
- Select™
- Factor®

Capeweed/volunteer legumes
- Lontrel® Advanced

8 TRUE LEAF

Annual Ryegrass
- Verdict™ 520
- Select™
- Factor®

Wild Oats
- Verdict™ 520
- Select™
- Factor®

Capeweed/ volunteer legumes
- Lontrel® Advanced

BEFORE BUD FORMATION

Annual Ryegrass
- Verdict™ 520
- Select™
- Factor®

Wild Oats
- Verdict™ 520
- Select™
- Factor®

COTYLEDON TO FIRST FLOWER

TruFlex® canola only

Grass and Broadleaf Weeds
- Roundup Ready® Herbicide with PLANTSHIELD®
- Roundup Ready® PL Herbicide with PLANTSHIELD® Technology

70% OF PODS YELLOW

Grass and Broadleaf Weeds
- Reglone®

20% OF SEED BROWN/BLACK

Grass and Broadleaf Weeds
- Roundup Ultra® MAX

POST-HARVEST

Grass and Broadleaf Weeds
- Roundup Ultra® MAX
- Spray.Seed® 250
- Gramoxone®

Roundup Ready® canola volunteers and Broadleaf Weeds
- Hammer®
- Amicide® Advance 700
- Sharpen®

CULTURAL MANAGEMENT OPTIONS INCLUDING:

Burning and grazing crop residues, Harrington Seed Destructor and Chaff Carts

It is important to target all surviving weeds after harvest. The timely use of cultural practices can be a key IWM tactic in a canola system.

Trade name	Group	Active Ingredients	Company
Factor®	A	250 g/kg butroxydim	Nufarm
Select®	A	240 g/L clethodim	Sumitomo
Verdict™ 520	A	520 g/L haloxyfop	Corteva
Rustler® 900 WG	D	900g/L propyzamide	FMC
TriFlurX®	D	480 g/L trifluralin	Nufarm
Ecopar®	G	20 g/L pyraflufen ethyl	Sipcam Pacific
Sharpen®	G	700 g/kg saflufenacil	BASF
Goal™	G	240 g/L oxyfluorfen	Dow
Hammer®	G	400 g/L carfentrazone-ethyl	FMC
Amicide® Advance 700	I	700 g/L 2,4-D	Nufarm
Estercide® Xtra	I	680 g/L 2,4-D	Nufarm
Kamba® 750	I	750g/L dicamba	Nufarm
Lontrel® Advanced	I	600g/L clopyralid	Corteva
Avadex® Xtra	J	500 g/L tri-allate	Nufarm

Trade name	Group	Active Ingredients	Company
Dual Gold®	K	960 g/L s-metolachlor	Syngenta
Butisan®	K	500 g/L metazachlor	BASF
Gramoxone®	L	250 g/L paraquat	Syngenta
Reglone®	L	200 g/L diquat	Syngenta
Spray.Seed® 250	L	135 g/L paraquat, 115 g/L diquat	Syngenta
Roundup Ultra® MAX	M	570 g/L glyphosate	Bayer/Sinochem
Roundup Ready® Herbicide with PLANTSHIELD®	M	690 g/kg glyphosate	Bayer/Sinochem
Roundup Ready® PL Herbicide with PLANTSHIELD® Technology	M	540 g/kg glyphosate	Bayer
Basta®	N	200 g/L glufosinate-ammonium	BASF
Alliance®	Q&L	250 g/L amitrole + 125 g/L paraquat	Nufarm
Overwatch®	Q	400 g/L bixlozone (Isoxazolidinone)	FMC

Refer to manufacturer's website for labels.

TruFlex® CANOLA · Roundup Ready® CANOLA · Roundup READY® HERBICIDE with PLANTSHIELD® · Roundup READY PL® HERBICIDE with PLANTSHIELD® Technology · MIX IT UP™ · WEED smart™ every weed every seed every farm every year

GUIDELINES FOR A SUCCESSFUL IWM STRATEGY TO REDUCE RESISTANCE RISKS:

- Aim to enter the TruFlex and Roundup Ready canola 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 information on integrated weed management visit **weedsmart.org.au**

To find out more about TruFlex canola and Roundup Ready canola visit **roundupreadycanola.com.au** or to find your local representative visit **crop.bayer.com.au/contact-us**

Bayer CropScience Pty Ltd ABN 87 000 226 022
Level 1, 8 Redfern Rd, Hawthorn East VIC 3123
Phone: 1800 636 001
crop.bayer.com.au

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TruFlex® CANOLA

Roundup Ready® CANOLA