

SPRINT

SUMMER FORAGE

Sprint is a fast growing, quick maturity Sudan x Sudan forage hybrid. Being a sudan type hybrid, prussic acid levels are generally lower than other forage sorghums.

Sprint's fine stem, high tillering makes this hybrid well suited for grazing cattle or sheep along with hay production.

- High dry matter production
- Quick feed and regrowth
- Prolific tillering, fine stem
- Multiple cuts for hay production
- Very well suited for sheep and cattle

CHARACTERISTICS & RATINGS

- Quick maturity
- 60 - 75 days to mid-flower
- 49,000 - 67,000 seeds/kg

SOWING RATES & SOIL TEMPERATURE

Soil temperature for sowing	16° C and rising
Marginal dryland (kg/ha)	3 - 5
Favourable dryland (kg/ha)	5 - 10
Irrigation or high rainfall (kg/ha)	20 - 25

Palatability	8
Digestibility	8
Speed of regrowth	9
Stalk sweetness	5
Standability	8
Leaf disease resistance	7
Suitability to finish cattle	7
Pit silage	5
Round bale silage	8
Milk production	6
Hay	9
Sheep	9
Autumn/winter standover	5
Quick spring feed	9
Ideal height to commence grazing (m)	1

KEY: Rating Scale 1-9

1 - Poor

9 - Excellent

** - not recommended

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SUGARGRAZE

SUMMER FORAGE

Sugargraze is an easy to manage and versatile hybrid. Sugargraze has a proven track record as a sweet sorghum combining good productivity, excellent sugar levels and adaptability.

It is ideal for both early or late sowing as it can be utilised at any stage during summer, autumn, or early winter as required.

- Very high dry matter production
- Excellent sugar levels
- Ideal choice for pit silage
- Versatile and easy to manage
- Wide chopping window for quality silage

CHARACTERISTICS & RATINGS

- Late maturity
- 90 - 105 days to mid-flower
- 30,000 - 35,000 seeds/kg

Palatability	8
Digestibility	8
Speed of regrowth	5
Stalk sweetness	9
Standability	8
Leaf disease resistance	7
Suitability to finish cattle	9
Pit silage	9
Round bale silage	2**
Milk production	6
Hay	3**
Sheep	4
Autumn/winter standover	9
Quick spring feed	6
Ideal height to commence grazing (m)	1.5

KEY: Rating Scale 1-9

1 - Poor

9 - Excellent

** - not recommended

SOWING RATES & SOIL TEMPERATURE

Soil temperature for sowing	16° C and rising
Marginal dryland (kg/ha)	3 - 5
Favourable dryland (kg/ha)	5 - 10
Irrigation or high rainfall (kg/ha)	15 - 20

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SUPERDAN 2

SUMMER FORAGE

Superdan 2 is a late maturing Sudan x Sudan forage hybrid. Being a sudan type forage, this hybrid generally has lower levels of prussic acid compared to other forage sorghums.

Superdan 2 traits include high tillering with fine stems, excellent for grazing cattle and sheep or hay production.

- Quality hay production
- High tillering, fine stems
- Outstanding dry matter yields
- Excellent regrowth from cutting or grazing

CHARACTERISTICS & RATINGS

- Late maturity
- 80 - 90 days to mid-flower
- 60,000 - 66,000 seeds/kg

SOWING RATES & SOIL TEMPERATURE

Soil temperature for sowing	16° C and rising
Marginal dryland (kg/ha)	3 - 5
Favourable dryland (kg/ha)	5 - 10
Irrigation or high rainfall (kg/ha)	10 - 20

Palatability	8
Digestibility	8
Speed of regrowth	8
Stalk sweetness	5
Standability	8
Leaf disease resistance	7
Suitability to finish cattle	7
Pit silage	5
Round bale silage	8
Milk production	6
Hay	9
Sheep	9
Autumn/winter standover	5
Quick spring feed	8
Ideal height to commence grazing (m)	1

KEY: Rating Scale 1-9
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9 - Excellent
** - not recommended

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BMR OCTANE

SUMMER FORAGE

BMR Octane is a proven sorghum x Sudan forage hybrid. BMR Octane has been specifically bred and developed for Australia's tough conditions.

It offers excellent digestibility and palatability through the BMR trait, coupled with strong seedling vigour and good standability. BMR Octane's late maturity provides exceptional adaptability for grazing or hay production.

- Enhanced digestibility and palatability
- High energy content
- Reduced lignin content
- Excellent milk production
- BMR advantage

CHARACTERISTICS & RATINGS

- Late maturity
- 90 - 100 days to mid-flower
- 30,000 - 35,000 seeds/kg

Palatability	9
Digestibility	9
Speed of regrowth	8
Stalk sweetness	7
Standability	7
Leaf disease resistance	8
Suitability to finish cattle	9
Pit silage	7
Round bale silage	9
Milk production	9
Hay	8
Sheep	7
Autumn/winter standover	5
Quick spring feed	7
Ideal height to commence grazing (m)	1

KEY: Rating Scale 1-9

1 - Poor

9 - Excellent

** - not recommended

SOWING RATES & SOIL TEMPERATURE

Soil temperature for sowing	16°C and rising
Marginal dryland (kg/ha)	3 - 5
Favourable dryland (kg/ha)	5 - 10
Irrigation or high rainfall (kg/ha)	10 - 20

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BMR ROCKET

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BMR Rocket is a fast-growing sorghum x Sudan forage hybrid. BMR Rocket's growth, fine stem, prolific tillering and regrowth, plus the added benefit of BMR make this hybrid a great all rounder.

BMR Rocket is well suited for making hay, round bale silage or for grazing with cattle or sheep.

- Quick feed
- Reduced lignin content
- Increased productivity across multiple end uses
- High energy levels
- BMR advantage

Palatability	9
Digestibility	9
Speed of regrowth	9
Stalk sweetness	7
Standability	7
Leaf disease resistance	8
Suitability to finish cattle	9
Pit silage	7
Round bale silage	9
Milk production	9
Hay	9
Sheep	9
Autumn/winter standover	5
Quick spring feed	9
Ideal height to commence grazing (m)	1

CHARACTERISTICS & RATINGS

- Quick maturity
- 60 - 75 days to mid-flower
- 30,000 - 35,000 seeds/kg

KEY: Rating Scale 1-9
1 - Poor
9 - Excellent
** - not recommended

SOWING RATES & SOIL TEMPERATURE

Soil temperature for sowing	16° C and rising
Marginal dryland (kg/ha)	3 - 5
Favourable dryland (kg/ha)	5 - 10
Irrigation or high rainfall (kg/ha)	15 - 25

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JUMBO

SUMMER FORAGE

Jumbo is an ultra-late flowering sorghum x Sudan forage hybrid. Jumbo combines good productivity with ease of management, resulting in more useable feed and less wastage. Ideally suited for all grazing situations, hay, or green chop.

- Highly digestible
- Widely adaptable due to the ultra-late flowering nature
- High leaf to stem ratio
- Suppression of root-knot nematodes
- Excellent quality hay

CHARACTERISTICS & RATINGS

- Ultra-late flowering photoperiod sensitive will not flower until daylight drops below approx. 12hr 30mins
- 30,000 – 35,000 seeds/kg

SOWING RATES & SOIL TEMPERATURE

Soil temperature for sowing	16° C and rising
Marginal dryland (kg/ha)	3 - 5
Favourable dryland (kg/ha)	5 - 10
Irrigation or high rainfall (kg/ha)	10 - 20

Palatability	8
Digestibility	8
Speed of regrowth	7
Stalk sweetness	7
Standability	8
Leaf disease resistance	7
Suitability to finish cattle	8
Pit silage	7
Round bale silage	7
Milk production	7
Hay	6
Sheep	4
Autumn/winter standover	5
Quick spring feed	7
Ideal height to commence grazing (m)	1

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MR-TAURUS

Medium-quick maturity grain sorghum



HYBRID ATTRIBUTES

MR-Taurus offers growers industry leading yield potential for its medium-quick maturity while solid stress tolerance helps to protect yield under tougher conditions.

This hybrid produces a large, bright red grain which assists in achieving quality requirements.

MR-Taurus is classified as having a medium tillering habit allowing it to compensate and make the most of favourable conditions.

The ideal choice for limited irrigation situations while also highly suitable to wider row configurations under dryland conditions, MR-Taurus is the perfect all-rounder and will perform well in all growing regions.

Days to 50% flower

Spring	70-74
Summer	66-69
Central QLD	55-58

Midge test rating	6
Seedling vigour	7.5
Seedling cold tolerance	8
Tillering	6
Standability	8
Grain size	9
Grain colour	Bright red
Pollen production	7
Pre-flowering stress tolerance	8
Post-flowering stress tolerance	8
Irrigation	Yes
Wide rows	Yes

KEY: Rating Scale 1 - 9

1 - Poor

9 - Excellent

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RESOLUTE

Medium-Long maturity grain sorghum hybrid



HYBRID ATTRIBUTES

Resolute is a medium-long season grain sorghum hybrid providing sorghum producers with a reliable option for both early and late planting opportunities.

Strong pre- and post-flowering stress tolerance allows Resolute with the attributes to weather the toughest of conditions, rewarding growers with high yields and excellent grain quality across environments.

A leading midge rating of 8+ and solid level of pollen production provide good defence against sorghum midge and ergot.

Resolute is widely adapted and will suit growing in both dryland and irrigated cropping scenarios throughout Australia's sorghum growing regions.

For reliability and leading yield potential across environments, look no further than Resolute.

Days to 50% flower

Spring	75-80
Summer	70-75
Central QLD	60-63

Midge test rating	8+
Seedling vigour	8
Seedling cold tolerance	8
Tillering	6
Standability	7.5
Grain size	9
Grain colour	Red
Pollen production	8
Head type	Open
Pre-flowering stress tolerance	8
Post-flowering stress tolerance	8
Irrigation	Yes
Wide rows	Yes

KEY: Rating Scale 1 - 9

1 - Poor

9 - Excellent

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Medium-long maturity, igrowth® grain sorghum hybrid

HYBRID ATTRIBUTES

Sentinel IG is a medium-long maturity grain sorghum hybrid combining high yield potential with Advanta's proprietary igrowth® technology.

Developed in Australia using Pacific Seeds' elite grain sorghum genetics, Sentinel IG is suitable for all growing environments.

The addition of Advanta's igrowth® technology delivers the option for an in-crop application of registered herbicides from the Imidazolinone family or the ability to plant into soil residues from previous IMI tolerant winter crops. This provides growers with flexibility in cropping rotation, useful control of a number of common summer grass weeds and assists with improving integrated weed management programs.

igrowth® is a registered trademark of Advanta Seeds.



This technote should be read in conjunction with the Pacific Seeds igrowth® Technology User Guide. To access the Guide, visit website pacificseeds.com.au or scan this QR Code.



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Days to 50% flower

Spring	74-78
Summer	70-73
Central QLD	59-62

Midge test rating	5
Seedling vigour	8
Seedling cold tolerance	8
Tillering	8
Standability	7
Height	Tall
Grain size	8
Grain colour	Red
Pollen production	8
Head type	Semi-open
Pre-flowering stress tolerance	8
Post-flowering stress tolerance	8
Irrigation	Yes
Wide rows	Yes
Adaption zones	All
Imidazolinone Tolerance	Yes

KEY: Rating Scale 1 - 9
1 - Poor, 9 - Excellent

Quick maturity, igrowth® grain sorghum hybrid

HYBRID ATTRIBUTES

Viper IG is a quick maturity grain sorghum hybrid, establishing a new and unique maturity option for Australian sorghum growers.

Combining excellent pre and post flowering stress tolerance with unrivalled speed, Viper IG is ideal for dryland, limited soil water cropping scenarios and as a late sorghum option.

The addition of Advanta's igrowth® technology delivers the option for an in-crop application of registered herbicides from the Imidazolinone family or the ability to plant into soil residues from previous IMI tolerant winter crops. This provides growers with flexibility in cropping rotation, useful control of a number of common summer grass weeds and assists with improving integrated weed management programs.

igrowth® is a registered trademark of Advanta Seeds.



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Days to 50% flower	
Spring	68-72
Summer	62-67
Central QLD	52-55
Midge test rating	4
Seedling vigour	8
Seedling cold tolerance	8
Tillering	5
Standability	8.5
Height	Short
Grain size	8
Grain colour	Red
Pollen production	7
Head type	Semi-open
Pre-flowering stress tolerance	9
Post-flowering stress tolerance	8
Irrigation	No
Wide rows	Yes
Adaption zones	All
Imidazolinone Tolerance	Yes

KEY: Rating Scale 1 - 9
1 - Poor, 9 - Excellent

ACCLAIM

Medium maturity grain sorghum hybrid



GRAIN SORGHUM

HYBRID ATTRIBUTES

Acclaim is a medium maturity grain sorghum hybrid providing Australian sorghum growers with even greater choice in this popular maturity segment.

Through the combination of first-class pre- and post-flowering stress tolerance as well as large grain size, Acclaim offers producers with reliability across dryland and irrigated scenarios in all of Australia's sorghum growing regions.

Acclaim's semi-open head type and medium plant height assist with ease of harvest.

It's ability to tiller also provides flexibility to take advantage of good conditions and boost yield potential as circumstances allow.

For those looking for something new to try this season, look no further than Acclaim.

Days to 50% flower

Spring	73-77
Summer	69-72
Central QLD	57-60

Midge test rating	7
Seedling vigour	8
Seedling cold tolerance	8
Tillering	7
Standability	8
Height	Medium
Grain size	8
Grain colour	Red
Pollen production	7
Head type	Semi-open
Pre-flowering stress tolerance	8
Post-flowering stress tolerance	8
Irrigation	Yes
Wide rows	Yes
Adaption zones	All
Imidazolinone Tolerance	No

KEY: Rating Scale 1 - 9

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9 - Excellent

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HALIFAX

Long maturity grain sorghum hybrid



HYBRID ATTRIBUTES

Halifax is a long season grain sorghum hybrid offering growers an ideal planting companion to quicker maturing products and spreading the risk when it comes to environmental risks such as heat and drought.

Excellent grain size and yield potential delivered via strong pre- and post-flowering stress tolerance assist in maximising yield potential.

Halifax is suited to both dryland and irrigated cropping scenarios in all key sorghum growing environments and its moderate tillering ability provides flexibility to take advantage of good conditions as they occur.

If you're looking at options to spread the risk this summer, make sure you include Halifax in your plans.

Days to 50% flower

Spring	77-82
Summer	72-78
Central QLD	60-66

Midge test rating	7
Seedling vigour	8
Seedling cold tolerance	8
Tillering	6
Standability	8
Grain size	9
Grain colour	Red
Pollen production	8
Head type	Open
Pre-flowering stress tolerance	8
Post-flowering stress tolerance	8
Irrigation	Yes
Wide rows	Yes

KEY: Rating Scale 1 - 9

1 - Poor

9 - Excellent

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MR-BAZLEY

Medium-quick maturity grain sorghum



HYBRID ATTRIBUTES

MR-Bazley is a medium-quick maturity grain sorghum which provides growers with reliability in all situations.

Market leading pre and post flowering stress tolerance and proven performance through harsh conditions has established this variety's reputation as the only choice for tougher environments.

This hybrid is also suited to limited irrigation and performs well when planted on wider row configurations under dryland conditions. Excellent standability and a high level of tillering when situations allow add to dependability.

The ideal option for all dryland environments and double cropping scenarios, growers looking for a reliable performer will not be disappointed in MR-Bazley.

Days to 50% flower

Spring	70-75
Summer	65-70
Central QLD	55-60

Midge test rating	4
Seedling vigour	7.5
Seedling cold tolerance	8
Tillering	7
Standability	8
Grain size	8.5
Grain colour	Red
Pollen production	7
Pre-flowering stress tolerance	8
Post-flowering stress tolerance	8
Irrigation	Limited
Wide rows	Yes

KEY: Rating Scale 1 - 9

1 - Poor

9 - Excellent

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MR-BUSTER

Medium-maturity grain sorghum



HYBRID ATTRIBUTES

MR-Buster is a medium maturity grain sorghum and is firmly established as Australia's benchmark sorghum hybrid.

Offering growers outstanding consistency and reliability across all sorghum growing regions and environments MR-Buster has all bases covered.

This hybrid is suitable for dryland as well as irrigated situations and is proven on both narrow and wider row configurations. A moderate to high level of tillering and great standability only add to its highly regarded reputation.

A proven performer which delivers consistently, MR-Buster is the ideal choice for all situations. .

Days to 50% flower

Spring	73-77
Summer	69-72
Central QLD	57-60

Midge test rating	4
Seedling vigour	7
Seedling cold tolerance	7
Tillering	7
Standability	7.5
Grain size	8
Grain colour	Red
Pollen production	7
Pre-flowering stress tolerance	6
Post-flowering stress tolerance	7
Irrigation	Yes
Wide rows	Yes

KEY: Rating Scale 1 - 9

1 - Poor

9 - Excellent

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GRAIN
SORGHUM



Pacific SeedsTM

Growing possibilities

IGROWTH TECHNOLOGY USER GUIDE




igrowth[®]

pacificseeds.com.au

WHAT IS IGROWTH TECHNOLOGY?

The igrowth technology in sorghum was developed by Advanta Seeds through mutagenesis methods and provides tolerance to herbicides of the Imidazolinone family. The igrowth trait is NOT a GMO.

This technology allows farmers to apply registered herbicides at the recommended rates to igrowth sorghum plants without causing damage. If this herbicide were to be applied on sorghum without this technology, it could cause death or irreversible damage to the crop.

The igrowth technology will allow Australian sorghum growers the freedom to utilise registered group B herbicides to assist in their integrated weed control programs, and will be particularly useful in controlling some common summer grass weeds in their summer crops.

Advanta's igrowth technology also provides the option for double cropping back into paddocks which have grown Clearfield tolerant winter crops, avoiding issues with plantback residuals.



BE AWARE OF SPRAY DRIFT

Conventional, non herbicide tolerant sorghum is extremely sensitive to imidazolinone herbicide.

The image to the right demonstrates igrowth sorghum on the left with spray drift onto the buffer crop of conventional treated sorghum on the right.



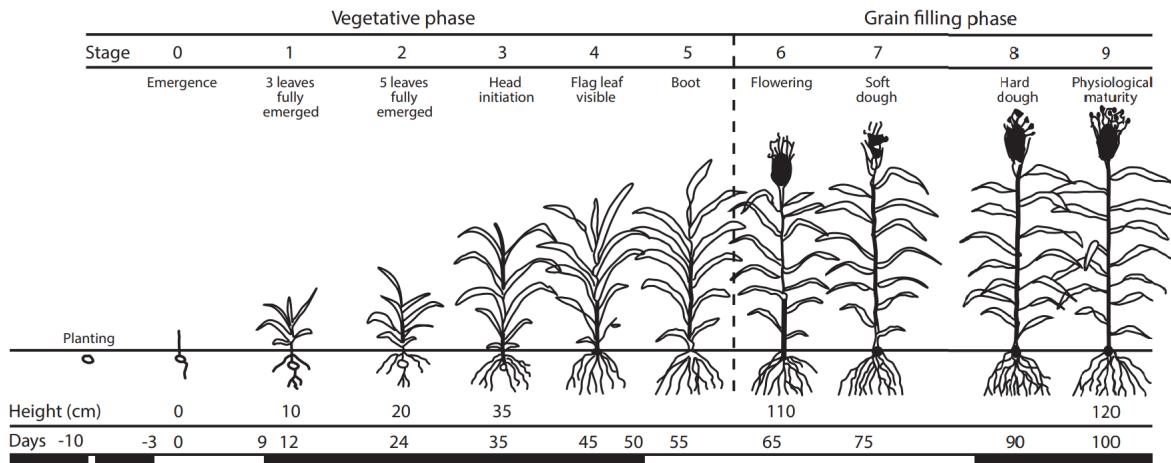
EFFECTIVE GRASS WEED CONTROL



The image to the left was taken at the Pittsworth, QLD Sentinel IG trial sites and clearly demonstrates the weed control achieved in Sentinel IG when Intervix is applied at recommended rates and in recommended timings.

Note the equal crop vigour of the Sentinel IG sorghum in both sprayed and control sections.

IGROWTH SORGHUM HERBICIDE APPLICATION TIMING



FALLOW APPLICATION
DUAL GOLD 1.0L/HA

PRE EMERGENT/POST SOW
DUAL GOLD 1.0L/HA + 1KG/HA
GESAPRIM WG + KNOCK DOWN

IN-CROP 2-6 LEAF
0.75-1.0L/HA INTERVIX
0.5L/100L HASTEN OIL

SHIELDED SPRAYING, INTER-ROW CULTIVATION
SELECTIVE SPOT SPRAY / CHIPPING

HARVEST AID
KNOCK DOWN LATE
WEEDS



GOOD PRACTICES FOR THE MANAGEMENT OF TOLERANT CROPS TO HERBICIDES

PROPER MANAGEMENT OF HERBICIDE TOLERANT CROPS

Group B herbicides having the ALS inhibitor mode of action are vulnerable in repeated use in selecting resistant herbicides when used to the exclusion of other weed control methods including herbicides having a different mode of action.

The risk of evolution of resistant weed populations is dependent on the frequency of resistant plants in the starting population, the persistence or activity of the applied product, the frequency of application and the history of use of other herbicides sharing the same mode of action prior to the deployment of a new Group B herbicide.

In many sorghum growing areas, Group B herbicides have been sparingly used because of their incompatibility with farming systems including sorghum and cotton where these are quite susceptible to carryover of more persistent Group B herbicides such as metsulfuron, chlorsulfuron, triasulfuron and imazapic.

For this reason, there is little evidence of resistance to Group B herbicides in these areas. Even in districts with a longer history of use of imazapic (Flame) in fallow, there have been no confirmed instances of evolved resistant weed populations though this risk remains should this practice be maintained uninterrupted.

BEST PRACTICES FOR HERBICIDE RESISTANT CROPS

Weed resistance to IMI herbicides can be avoided by simultaneously employing other weed control measures and in particular herbicides having differing modes of action. The most prudent approach in incorporating IMI herbicides in conjunction to imidazolinone-tolerant sorghum is to continue use of existing pre and post-emergence herbicides.

This approach has been adopted by successful users of Lightning herbicide in IT maize who found the exclusive use of Lightning often lead to a shift of weed populations that were less susceptible or tolerant to Lightning.

In this instance, the inclusion of a pre-emergence herbicide program including s-metolachlor (Dual Gold) and atrazine followed by post-emergence applications of Lightning has enhanced a traditional weed control program relying entirely on s-metolachlor and atrazine and post-emergence treatments capable of controlling broadleaf weeds only.

This approach has also ensured a much lower risk of the development of weed populations resistant to IMI herbicides over the longer term and has already reduced the occurrence of a build-up of naturally tolerant weeds to IMIs.

Source: Andrew Somerville, Jubilee Consulting



INTEGRATED WEED MANAGEMENT AND STEWARDSHIP

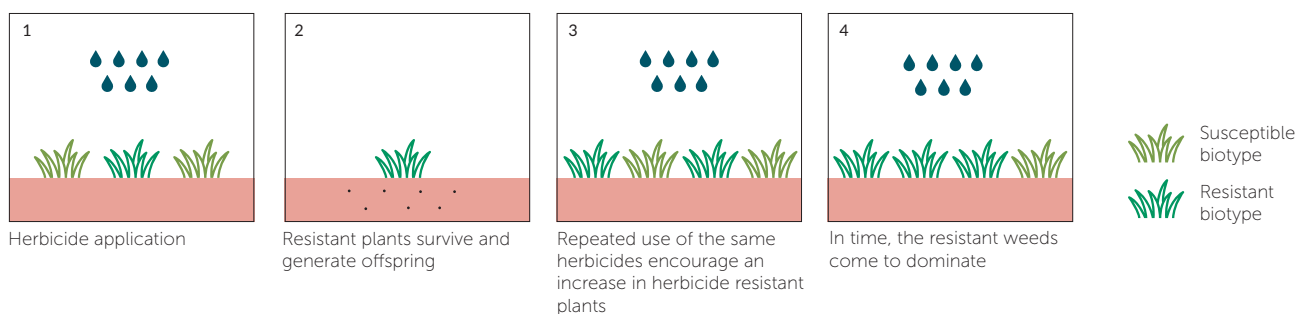
MANAGING WEED RESISTANCE: BMP

- Crop Rotation
- Rotate chemical modes of action
- Maintain the use of pre-emergent herbicides
- Use more than one chemical mode of action
- Use non-chemical options: crop competition, mechanical weeding
- Control escapes: keep the seed bank low

KEY STEWARDSHIP RULES

- Do not apply to fields with high populations of summer weeds
- Do apply chemical with this mode of action on the target weeds more than once per 12 month period
- Scout for survivors after application, implement control strategies
- Report any serious spray failures
- Control sorghum spp on edges and fence lines
- Clean down equipment to prevent weed spread

HOW DO HERBICIDE RESISTANT WEEDS DEVELOP?





WEEDS IN THE NORTHERN REGION WITH KNOWN CHEMICAL RESISTANCE

Weeds appearing in this table have had herbicide resistance confirmed through testing. Therefore, if a weed does not appear in the table, it does not necessarily mean that it is not herbicide resistant.

Weed species	Herbicide group	Example herbicide
Grass weeds		
Awnless barnyard grass	C – triazines	atrazine
	M – glycines	glyphosate
Liverseed grass	C – triazines	atrazine
	M – glycines	glyphosate
Paradoxa grass	A – ‘fops’	fluazifop
	A – ‘dims’	clethodim
Wild oats	A – ‘fops’	diclofop
	A – ‘dims’	tralkoxydim
	B – sulfonylureas	mesosulfuron
	Z – arylaminopropionic acids	flamprop-methyl
Windmill grass	M – glycines	glyphosate
Annual ryegrass (NSW only)	A – ‘fops’	diclofop
	A – ‘dims’	clethodim
	B – sulfonylureas	chlorsulfuron
	B – imidazolinones	imazapic, imazapyr
	M – glycines	glyphosate
Broadleaf weeds		
African turnip weed	B – sulfonylureas	chlorsulfuron
Black bindweed	B – sulfonylureas	chlorsulfuron
Charlock	B – sulfonylureas	chlorsulfuron
Common sowthistle	B – sulfonylureas	chlorsulfuron
Flaxleaf fleabane	M – glycines	glyphosate
Indian hedge mustard	B – sulfonylureas	chlorsulfuron
	B – sulfonamides	metosulam
Starfruit	B – sulfonylureas	bensulfuron
Turnip weed	B – sulfonylureas	chlorsulfuron
Wild radish	B – sulfonylureas	chlorsulfuron
Compiled by Andrew Storrie, 2012		



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