#### **FACTSHEET**



# Rotational crop withholding guidefor the Herbert region.



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## **SOYBEANS**

This applies to coming out of another crop and going into soybeans.

Herbicide	Situation	Rate	Price/ha	Adjuvant	Withhold	ing Period	Comments
Treflan®480	Pre-emergent	1.2 – 2.3 L/ha		Yes – if mixed with	Plantback	Harvest	
(Trifluralin)	control of annual			a knockdown			
	grasses & some			product use a non-	Not required when	Not required when	
	broadleaves			ionic surfactant	used as directed	used as directed	
Stomp® Xtra	Pre-emergent	1.8 – 2.2 L/ha		Yes – if mixed with	Not required when	Not required when	
(Pendimethalin)	control of annual			a knockdown	used as directed	used as directed	
	grasses & some			product use a non-			
	broadleaves			ionic surfactant			
Dual Gold	Pre-emergent	1.0 – 2.0 L/ha		Yes – if mixed with	Not required when	Not required when	
(S-Methlachlor)	control of annual			a knockdown	used as directed	used as directed	
	grasses & some			product use a non-			
	broadleaves			ionic surfactant			
Spinnaker 700 WG	Pre and post	100 – 140 g/ha		NIS or Hasten ™	0 months	Not required when	
(Imazethapyr)	emergent control			for post-emergent	withholding.	used as directed	
	of annual grasses			applications			
	& some				Do NOT use the		
	broadleaves				140 gm rate in		
					dryland soybeans		
					unless it is		
					intended to re-		
					crop with another		
					soybean crop.		
Basagran <sup>®</sup>	Post emergent	1.5 – 2.0 L/ha		Add a NIS to the	Soybeans are	Do not harvest for	
_	control of selected	1.3 - 2.0 L/11d			tolerant of	8 weeks after	
(Bentazone)				spray mixture to			
	broadleaves			improve control	Basagran at all	application.	
					stages of growth.		

Herbicide	Situation	Rate	Price/ha	Adjuvant	Withhold	ing Period	Comments
					Mild leaf scorching may occur but will not affect yield.		
Blazer® (Aciflurofen)	Post emergent control of certain broadleaf weeds and some grasses	1.0 – 2.0 L/ha		Generally do not mix with oils, fertilisers or other pesticides.	-	-	
Fusilade® (Fluazifop-p)	Post emergent control of a range of grasses	0.5 – 1.65 L/ha		Is compatible with a range of adjuvants. Apply at least 100I/ha of water volume.	-	-	
Falcon®/Factor® (Butroxydim)	Post emergent control of certain grasses	120 – 180 g/ha		Apply with Surcharge® @1I/100 of spray volume	Withholding period prior to harvest not required when used as directed.	-	
Targa ® / Pantara (Quizalofop)	Post emergent control of a range of grasses	0.25 – 0.5 L/ha		May be used with Hasten ® or an NIS wetting agent. Apply greater than 50L/ha of water volume.	12 weeks.	-	
Verdict <sup>®</sup> (Haloxyfop)	Post emergent control of a range of annual & perennial grasses	100 – 150 ml/ha		May be used with Uptake ® spraying oil or other oils or NIS	Not required when used as directed.	Not required when used as directed.	
Select ® (Clethodim)	Post emergent control of a range of grass weeds	250 – 375 ml/ha		Always apply with D-C-Trate ®@ 2L/100L or Hasten ® @ 1L/100L or	Not required when used as directed.	Not required when used as directed.	

Herbicide	Situation	Rate	Price/ha	Adjuvant	Withholding Period		Comments
				Update ® @ 500			
				mls/100L.			
Sertin ®	Post emergent	1L/ha		Apply 1 or 2LD-C	Not required when	Not required when	
(Sethoxydim)	control of specific			D-C-Trate ® / 100L	used as directed.	used as directed.	
	grass weeds			of spray tank			
				volume			

## **COWPEAS**

This applies to coming out of another crop and going into cowpeas.

Herbicide	Situation	Rate	Price/ha	Adjuvant	Withhold	ing Period	Comments
Treflan ®480	Pre-emergent	1.2 – 2.3 L/ha		Yes – if mixed with	Plantback	Harvest	
(Trifluralin)	control of annual			a knockdown			
	grasses & some			product use a non-	Not required when	Not required when	
	broadleaves			ionic surfactant	used as directed	used as directed	
Stomp ® Xtra	Pre-emergent	1.8 – 2.2 L/ha		Yes – if mixed with	Not required when	Not required when	
(Pendimethalin)	control of annual			a knockdown	used as directed	used as directed	
	grasses & some			product use a non-			
	broadleaves			ionic surfactant			
Dual Gold	Pre-emergent	1.0 – 2.0 L/ha		Yes – if mixed with	Not required when	Do not graze or cut	
S-Metolachlor	control of annual			a knockdown	used as directed	for stock food 13	
	grasses & some			product use a non-		weeks after	
	broadleaves			ionic surfactant		application.	
Spinnaker 700 WG	Pre and post	100 – 140 g/ha		NIS or Hasten ™	27 months	Not required when	
(Imazethapyr)	emergent control			for post-emergent	withholding.	used as directed	
	of annual grasses			applications			
	& some				Do NOT use the		
	broadleaves				140 gm rate in		
					dryland soybeans		
					unless it is		
					intended to re-		
					crop with another		
					soybean crop.		
					Assume that this		
					applies to		
					cowpeas.		

Herbicide	Situation	Rate	Price/ha	Adjuvant	Withhold	ing Period	Comments
Basagran ®	Post emergent	1.5 – 2.0 L/ha		Add a NIS to the	Soybeans are	For soybeans, do	
(Bentazone)	control of selected			spray mixture to	tolerant of	not harvest for 8	
	broadleaves			improve control	Basagran at all	weeks after	
					stages of growth.	application.	
					Mild leaf scorching	Assume the same	
					may occur but will	applies for	
					not affect yield.	cowpeas.	
Blazer ®	Post emergent	1.0 – 2.0 L/ha		Generally do not	-	17 weeks	
(Aciflurofen)	control of certain			mix with oils,			
	broadleaf weeds			fertilisers or other			
	and some grasses			pesticides.			
Fusilade®	Post emergent	0.5 – 1.65 L/ha		Is compatible with	-	Do not harvest for	
(Fluazifop-p)	control of a range			a range of		7 weeks after	
	of grasses			adjuvants. Apply		application	
				at least 100l/ha of			
				water volume.			
Falcon®/Factor®	Post emergent	120 – 180 g/ha		Apply with	Withholding	-	
(Butroxydim)	control of certain			Surcharge®	period prior to		
	grasses			@1I/100 of spray	harvest not		
				volume	required when		
					used as directed.		
Targa ® / Pantara	Post emergent	0.25 – 0.5 L/ha		May be used with	12 weeks.	-	
(Quizalofop)	control of a range			Hasten ® or an NIS			
	of grasses			wetting agent.			
				Apply greater than			
				50L/ha of water			
				volume.			
Verdict ®	Post emergent	100 – 150 ml/ha		May be used with	Not required when	Not required when	
(Haloxyfop)	control of a range			Uptake ® spraying	used as directed.	used as directed.	
	of annual &			oil or other oils or			
	perennial grasses			NIS			

Herbicide	Situation	Rate	Price/ha	Adjuvant	Withhold	ing Period	Comments
Select ®	Post emergent	250 – 375 ml/ha		Always apply with	Not required when	Not required when	
(Clethodim)	control of a range			D-C-Trate ® @	used as directed.	used as directed.	
	of grass weeds			2L/100L or Hasten			
				® @ 1L/100L or			
				Update ® @ 500			
				mls/100L.			
Sertin ®	Post emergent	1L/ha		Apply 1 or 2LD-C	Not required when	Not required when	
(Sethoxydim)	control of specific			D-C-Trate ® / 100L	used as directed.	used as directed.	
	grass weeds			of spray tank			
				volume			

## **MUNGBEANS**

This applies to coming out of another crop and going into mungbeans.

Herbicide	Situation	Rate	Price/ha	Adjuvant	Withhold	ing Period	Comments
Treflan ®480 (Trifluralin)	Pre-emergent control of annual grasses & some	1.2 – 2.3 L/ha		Yes – if mixed with a knockdown	Plantback  Not required when	Harvest  Not required when	
	broadleaves			product use a non- ionic surfactant	used as directed	used as directed	
Stomp ® Xtra (Pendimethalin)	Pre-emergent control of annual grasses & some broadleaves	1.8 – 2.2 L/ha		Yes – if mixed with a knockdown product use a non- ionic surfactant	Not required when used as directed	Not required when used as directed	
Dual Gold S-Metolachlor	Pre-emergent control of annual grasses & some broadleaves	1.0 – 2.0 L/ha		Yes – if mixed with a knockdown product use a nonionic surfactant	Not required when used as directed	Do not graze or cut for stock food 13 weeks after application.	
Spinnaker 700 WG (Imazethapyr)	Pre and post emergent control of annual grasses & some broadleaves	100 – 140 g/ha		NIS or Hasten ™ for post-emergent applications	27 months withholding.  Do NOT use the 140 gm rate in dryland soybeans unless it is intended to recrop with another soybean crop. Assume that this applies to cowpeas.	Not required when used as directed	

Herbicide	Situation	Rate	Price/ha	Adjuvant	Withhold	ing Period	Comments
Basagran ®	Post emergent	1.5 – 2.0 L/ha		Add a NIS to the	Soybeans are	For soybeans, do	
(Bentazone)	control of selected			spray mixture to	tolerant of	not harvest for 8	
	broadleaves			improve control	Basagran at all	weeks after	
					stages of growth.	application.	
					Mild leaf scorching	Assume the same	
					may occur but will	applies for	
					not affect yield.	cowpeas.	
Blazer ®	Post emergent	1.0 – 2.0 L/ha		Generally do not	-	17 weeks	
(Aciflurofen)	control of certain			mix with oils,			
	broadleaf weeds			fertilisers or other			
	and some grasses			pesticides.			
Fusilade®	Post emergent	0.5 – 1.65 L/ha		Is compatible with	-	Do not harvest for	
(Fluazifop-p)	control of a range			a range of		7 weeks after	
	of grasses			adjuvants. Apply		application	
				at least 100l/ha of			
				water volume.			
Falcon®/Factor®	Post emergent	120 – 180 g/ha		Apply with	Withholding	-	
(Butroxydim)	control of certain			Surcharge®	period prior to		
	grasses			@1I/100 of spray	harvest not		
				volume	required when		
					used as directed.		
Targa ® / Pantara	Post emergent	0.25 – 0.5 L/ha		May be used with	12 weeks.	-	
(Quizalofop)	control of a range			Hasten ® or an NIS			
	of grasses			wetting agent.			
				Apply greater than			
				50L/ha of water			
				volume.			
Verdict ®	Post emergent	100 – 150 ml/ha		May be used with	Not required when	Not required when	
(Haloxyfop)	control of a range			Uptake ® spraying	used as directed.	used as directed.	
	of annual &			oil or other oils or			
	perennial grasses			NIS			

Herbicide	Situation	Rate	Price/ha	Adjuvant	Withhold	ing Period	Comments
Select ®	Post emergent	250 – 375 ml/ha		Always apply with	Not required when	Not required when	
(Clethodim)	control of a range			D-C-Trate ® @	used as directed.	used as directed.	
	of grass weeds			2L/100L or Hasten			
				<sup>®</sup> @ 1L/100L or			
				Update ® @ 500			
				mls/100L.			
Sertin ®	Post emergent	1L/ha		Apply 1 or 2LD-C	Not required when	Not required when	
(Sethoxydim)	control of specific			D-C-Trate ® / 100L	used as directed.	used as directed.	
	grass weeds			of spray tank			
				volume			

## **RICE**

This applies to coming out of another crop and going into rice.

Herbicide	Situation	Rate	Price/ha	Adjuvant	Withhold	ing Period	Comments
Treflan®480 (Trifluralin)	Pre-emergent control of annual	1.2 – 2.3 L/ha		Yes – if mixed with a knockdown	Plantback	Harvest	
(**************************************	grasses & some			product use a non-	5 months	Nothing stated on	
	broadleaves			ionic surfactant		label. Assume not	
						required when	
						used as directed	
Stomp® Xtra	Pre-emergent	1.8 – 2.2 L/ha		Yes – if mixed with	12 months	Nothing stated on	
(Pendimethalin)	control of annual			a knockdown		label. Assume not	
	grasses & some			product use a non-		required when	
	broadleaves			ionic surfactant		used as directed	
Dual Gold	Pre-emergent	1.0 – 2.0 L/ha		Yes – if mixed with	Nothing stated on	Nothing stated on	
(S-Metalachlor)	control of annual			a knockdown	label. Assume not	label. Assume not	
	grasses & some			product use a non-	required when	required when	
	broadleaves			ionic surfactant	used as directed	used as directed	
Spinnaker 700 WG	Pre and post	100 – 140 g/ha		NIS or Hasten ™	Under conditions	27 months,	
(Imazethapyr)	emergent control			for post-emergent	which do not	provided rainfall	
	of annual grasses			applications	favour breakdown	exceeds 2000 mm	
	& some				of this product,		
	broadleaves				carry-over soil		
					residues can affect		
					susceptible follow		
					crops.		
					D		
					Recropping can be		
					up to 34 months,		
					depending on the		
					type and rainfall,		

Herbicide	Situation	Rate	Price/ha	Adjuvant	Withhold	ing Period	Comments
					with rainfall and/or irrigation from application to sowing at least 500 mm.		
Basagran® (Bentazone)	Post emergent control of selected broadleaves	1.5 – 2.0 L/ha		Add a NIS to the spray mixture to improve control	Rice crops can be planted immediately	-	
Blazer® (Aciflurofen)	Post emergent control of certain broadleaf weeds and some grasses	1.0 – 2.0 L/ha		Generally do not mix with oils, fertilisers or other pesticides.	-	50 days since application	
Fusilade® (Fluazifop-p)	Post emergent control of a range of grasses	0.5 – 1.65 L/ha		Is compatible with a range of adjuvants. Apply at least 100I/ha of water volume.	60 day plant back period	-	
Falcon®/Factor® (Butroxydim)	Post emergent control of certain grasses	120 – 180 g/ha		Apply with Surcharge® @1I/100 of spray volume	-	-	
Targa <sup>®</sup> / Pantara (Quizalofop)	Post emergent control of a range of grasses	0.25 – 0.5 L/ha		May be used with Hasten ® or an NIS wetting agent. Apply greater than 50L/ha of water volume.	-	-	
Verdict <sup>®</sup> (Haloxyfop)	Post emergent control of a range of annual & perennial grasses	100 – 150 ml/ha		May be used with Uptake ® spraying oil or other oils or NIS	Cereal crops or grasses planted within 12 weeks of application may be damaged by the		

Herbicide	Situation	Rate	Price/ha	Adjuvant	Withholding Period	Comments
					residual effects of	
					this herbicide,	
					particularly on	
					light and/or red	
					soils. It is best to	
					wait 12 months.	
Select ®	Post emergent	250 – 375 ml/ha		Always apply with		
(Clethodim)	control of a range			D-C-Trate ® @		
	of grass weeds			2L/100L or Hasten		
				® @ 1L/100L or		
				Update ® @ 500		
				mls/100L.		
Sertin ®	Post emergent	1L/ha		Apply 1 or 2LD-C		
(Sethoxydim)	control of specific			D-C-Trate ® / 100L		
	grass weeds			of spray tank		
				volume		

## Rice-specific plantback guidelines

Active constituent, trade name	Plantback	Comments		
Group A haloxyfops				
Group A herbicides may interfere with germination for a period after their application. This may not be on the label as these herbicides are used as selective post-emergence herbicides and the next crop is not normally sown until well after their plantback period has lapsed.				
haloxyfop, Verdict® 520	12 weeks	Cereal crops or grasses planted within twelve weeks of application may be damaged by the residual effects of this herbicide, particularly on light and red soils.		

#### Group B sulfonylureas and imidazolinones

The persistence of residual Group B herbicides is dependent on various environmental conditions such as soil pH, temperature, soil moisture and organic matter content.			
chlorsulfuron, Glean®	12 months	As soil pH increases rate of breakdown decreases. Glean® should not be used on soil pH 8.6 or higher as extended soil residual activity could adversely affect crop rotation options beyond normal intervals.	
metsulfuron, Ally®	6 weeks	Recropping interval varies from 10 days to 14 months for a pH range of 5.6 to 8.5.	
triasulfuron, Logran®	12 months	As pH increases the rate of breakdown decreases. Replanting can be up to 24 months or more depending on pH and rainfall.	
imazethapyr, Spinnaker®	10 months	Under conditions which do not favour breakdown of this product, carry-over soil residues can affect susceptible follow crops. Recropping can be up to 34 months, depending on crop type and rainfall, with rainfall and/or irrigation from application to sowing at least 500 mm.	
MCPA imazapic imazapyr, Midas®	10 months	Under conditions that DO NOT favour breakdown, such as impoverished soils low in organic matter, non-wetting sands, anaerobic situations such as waterlogging, and prolonged dry periods, soil residues will persist longer and may affect susceptible follow crops.	

#### **Group C triazines**

products to be applied to the crop during the growing season is 4 L/ha. On alkaline soils (> 6.5) — The maximum rate of atrazine 500 g/L or a combination of the two products to be applied to the crop during the growing season is 2 L/ha. To avoid carryo post-emergence use — It is recommended that atrazine 500 g/L only be used, and at rates of 2 L/ha or less, on either acid or alkaline:	arryover with
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In addition to the triazine herbicides, other Group C herbicides also present potential rice plantback issues. Diuron, for example, presents a risk as aerially sown rice is known to be extremely sensitive to it.

Always consult the product label, your agronomist or the product manufacturer for plantback information.

Source: Rice crop protection guide 2015-2016, NSW Departmentof Primary Industries, 2015