

Disclaimer:

This document is based on the results from an individual trial and may contain experimental use patterns that are currently off-label. **This document does not provide any interpretation and should not be taken as an endorsement of any unregistered use pattern.**

Professional advice should be sought for specific recommendations to ensure access to the most up to date information and knowledge.

Any product referred to in this document must be used strictly as directed, and in accordance with all label or permit instructions. Always consult the label prior to use.

Glyphosate Resistant Awnless Barnyard Grass Management

Trial ID: RD1128

Location: Condamine
Investigator: Rob Duncan

Trial Year: 2011

Objective	To evaluate alternative options for glyphosate resistant Awnless barnyard grass control in fallow		
Situation:	Fallow		
Application:	T1	T2	T3
Application Date:	10/11/2011	15/11/2011	23/11/2011
Interval:	-	5 DAT1	13 DAT1
Equipment:	4m Quad-Bike mounted boom		
Nozzles:	AIXR110015		
Volume:	70 L/ha	100 L/ha	100 L/ha
Weed Density:	~102 Plants/m ²		
Weed Stage:	Up to Head Emergence	Heads Emerged	

Table 1: First Knock Only

Trt No.	Treatment	Rate mL or g/ha	Awnless Barnyard Grass (<i>Echinochloa colona</i>)		
			23/11/2011 13 DAT1 % Control (Visual)	6/12/2011 26 DAT1 Surviving Weeds/m ²	6/12/2011 26 DAT1 % Biomass Reduction
1	Untreated	-	0 g	63.0 ab	1 j
2	Glyphosate CT	800	10 fg	51.1 ab	5 j
3	Glyphosate CT	1600	22 e	56.4 ab	2 j
4	Gp A V	300	47 d	4.2 de	81 fghi
5	Gp A S	375	47 d	2.3 def	94 abcdefg
6	Gp A V + Gp A S	150 + 250	50 d	2.3 def	93 abcdefg
7	Gp B H	100	5 fg	78.5 a	3 j
8	Basta	3750	85 abc	29.6 bc	10 j
9	Gp A V + Glyphosate CT	300 + 800	45 d	4.2 de	90 cdefgh
10	Gp A S + Glyphosate CT	375 + 800	42 d	0.8 fgh	92 bcdefgh
11	Gp B H + Glyphosate CT	100 + 800	7 fg	69.3 ab	1 j
12	Glyphosate CT fb Gp A V	800 fb 300	12 ef	19.3 c	57 i
13	Gp A V fb Glyphosate CT	300 fb 800	48 d	4.7 d	91 cdefgh

DAT1 = Days after Treatment 1

Treatment 12 and 13 were sequential applications with the second herbicide applied at T3

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Table 2: Double Knocked with Nuquat 2L/ha at 5 DAT1

Trt No.	Treatment	Rate mL or g/ha	Awnless Barnyard Grass (<i>Echinochloa colona</i>)		
			23/11/2011 13 DAT1 % Control (Visual)	6/12/2011 21 DAT2 Surviving Weeds/m ²	6/12/2011 21 DAT2 % Biomass Reduction
1a	Second Knock only	-	82 bc	1.1 efgh	79 ghi
2a	Glyphosate CT	800	80 c	0.8 fgh	92 cdefgh
3a	Glyphosate CT	1600	80 c	0.3 gh	96 abcdef
4a	Gp A V	300	92 ab	0.0 h	99 abc
5a	Gp A S	375	92 ab	0.0 h	100 a
6a	Gp A V + Gp A S	150 + 250	93 a	0.0 h	100 a
7a	Gp B H	100	85 abc	0.8 fgh	92 cdefgh
8a	Basta	3750	93 a	0.1 gh	99 abc
9a	Gp A V + Glyphosate CT	300 + 800	93 a	0.0 h	100 a
10a	Gp A S + Glyphosate CT	375 + 800	93 a	0.0 h	100 ab
11a	Gp B H + Glyphosate CT	100 + 800	77 c	0.8 fgh	84 efgh
12a	Glyphosate CT fb Gp A V	800 fb 300	80 c	0.0 h	100 ab
13a	Gp A V fb Glyphosate CT	300 fb 800	93 a	0.0 h	100 ab

Treatment 12 and 13 were sequential applications with the second herbicide applied at T3

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Table 3: Double Knocked with Nuquat 2L/ha at 13 DAT1

Trt No.	Treatment	Rate ml or g/ha	Awnless Barnyard Grass (<i>Echinochloa colona</i>)		
			23/11/2011	6/12/2011 13 DAT3 Surviving Weeds/m ²	6/12/2011 13 DAT3 % Biomass Reduction
1b	Second Knock only	-	-	1.5 defgh	90 cdefgh
2b	Glyphosate CT	800	-	1.8 defg	73 hi
3b	Glyphosate CT	1600	-	1.5 defgh	87 defgh
4b	Gp A V	300	-	0.0 h	100 a
5b	Gp A S	375	-	0.0 h	100 a
6b	Gp A V + Gp A S	150 + 250	-	0.0 h	100 a
7b	Gp B H	100	-	0.4 fgh	93 abcdefg
8b	Basta	3750	-	0.0 h	98 abcdef
9b	Gp A V + Glyphosate CT	300 + 800	-	0.0 h	100 a
10b	Gp A S + Glyphosate CT	375 + 800	-	0.0 h	100 ab
11b	Gp B H + Glyphosate CT	100 + 800	-	0.4 fgh	85 defgh
12b	Glyphosate CT fb Gp A V	800 fb 300	-	0.0 h	98 abcd
13b	Gp A V fb Glyphosate CT	300 fb 800	-	0.0 h	100 ab
		P =	0.00	0.00	0.00
		LSD =	10.4	Log Transformation	Arcsin Transformation

Treatment 12 and 13 were sequential applications with the second herbicide applied at T3