

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.

Knockdown Control of Awnless Barnyard Grass

Trial ID: CFT0931

Location:

Blackville

Trial Year:

2010

Investigator:

Clare Felton-Taylor

Objective:	To evaluate the impact of glyphosate salt, water hardness and ammonium sulphate on awnless barnyard grass control
Application Date:	20/01/2010
Nozzles:	DG110015
Pressure:	300 kPa
Volume:	50 L/ha
Weed Density and Stage:	18/m ² , 5-9 tillers/plant
Keywords:	Awnless barnyard grass, knockdown, fallow

Product	Glyphosate Salt
Roundup CT	Isopropylamine
Roundup PowerMax	Potassium
Roundup DST	Potassium and mono-ammonium

Water Hardness	Total Hardness (ppm CaCO)
Soft	36-62
Hard	1000

NB: Treatments in hard water were mixed but not sprayed for ~1-2 hours

Trt No.	Treatment	Application Rate mL/ha	Glyphosate Rate g ai/ha	Adjuvant	Water Quality	Awnless Barnyard Grass (<i>Echinochloa colona</i>)			
						3/02/2010 14 DAA % Biomass Reduction	3/02/2010 14 DAA % Discoloration	17/02/2010 28 DAA % Biomass reduction	17/02/2010 28 DAA % Discoloration
1	Untreated	-	-	-	-	15d	26f	34c	6d
2	Roundup CT	750	338	-	Soft	99abc	88e	97ab	81c
3	Roundup CT	1500	675	-	Soft	100a	98ab	100a	99a
4	Roundup CT	1500	675	Liase 2%	Soft	100ab	99a	100a	99a
5	Roundup PowerMAX	625	338	-	Soft	100ab	89de	94b	74c
6	Roundup PowerMAX	1250	675	-	Soft	100ab	98ab	100a	99a
7	Roundup DST	719	338	-	Soft	97bc	93bcde	99ab	87bc
8	Roundup DST	1437	675	-	Soft	99abc	98ab	99ab	97a
9	Roundup CT	1500	675	-	Hard	99abc	96abcd	99ab	98a
10	Roundup CT	1500	675	Liase 2%	Hard	94c	91cde	99ab	96ab
11	Roundup PowerMAX	1250	675	-	Hard	100a	99a	100a	97a
12	Roundup PowerMAX	1250	675	Liase 2%	Hard	99abc	97abc	100a	95ab
13	Roundup DST	1250	675	-	Hard	98abc	91cde	99ab	97a
14	Roundup DST	1250	675	Liase 2%	Hard	100ab	97abc	99ab	94ab
P=						0.00	0.00	0.00	0.00
LSD=						Arcs transf	Arcs transf	Arcs transf	Arcs transf

Treatment means followed by the same letter are not significantly different at P = 0.05

DAA = Days after Application

Comments: 1. No obvious impact of hard water on weed efficacy in this trial. 2. Benefit of ammonium sulphate in hard water in this trial marginal.

3. No consistent difference in efficacy between salts