

MSU Weed Science Research Program

Residual weed control from V-10206 tank-mixtures with Cobra and Roundup

Trial ID: SOY03-13 Study Dir.: Sprague, Powell  
 Conducted: Campus C-12 Investigator: Christy Sprague

**Date Planted:** May/08/2013 **Row Spacing:** 30 IN  
**Variety:** AG2433RR **No. of Reps:** 4  
**Population:** 155,000 seeds/A **% OM:** 4.0  
**Soil Type:** Silt loam **pH:** 7.4  
**Plot Size:** 10 X 30 FT **Design:** RANDOMIZED COMPLETE BLOCK

**Tillage:** Fall chisel plow, spring soil finish x2  
**Fertilizer:** None

**Crop and Weed Description**

Weed	Code	Common Name	Scientific Name
1.	ANGR	mainly foxtail species	SETARIA SP.
2.	CHEAL	LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
3.	AMBEL	RAGWEED, COMMON	AMBROSIA ARTEMISIIFOLIA L.
4.	ABUTH	VELVETLEAF	ABUTILON THEOPHRASTI MEDIK.
Crop	Code	Common Name	
1.	GLXMA	SOYBEAN	

**Application Description**

**A**  
**Application Timing:** POST  
**Date Treated:** Jun/07/2013  
**Time Treated:** 8:00 AM  
**% Cloud Cover:** 100  
**Air Temp., Unit:** 53 F  
**% Relative Humidity:** 54  
**Wind Speed/Unit/Dir:** 3 mph NE  
**Soil Temp., Unit:** 60 F  
**Soil/Leaf Surface M:** 3 5  
**Soil Moist (1=w 5=d):** 3

**Crop Stage at Each Application**

**A**  
**Crop Name:** GLXMA  
**Height (In.):** 4"  
**Stage (L):** V1

**Weed Stage at Each Application**

**A**  
**Weed 1 Name:** ANGR  
**Height (In.):** 4"  
**Stage (L):** 2  
**Weed 2 Name:** CHEAL  
**Height (In.):** 3"  
**Stage (L):** 8  
**Weed 3 Name:** AMBEL  
**Height (In.):** 3"  
**Stage (L):** 6  
**Weed 4 Name:** ABUTH  
**Height (In.):** -  
**Stage (L):** -

**Weed Density (plants/sq. ft.)**

Date:	1	2	3	4
	Jul/11/2013	Jul/11/2013	Jul/11/2013	Jul/11/2013
<b>Weed Name:</b>	ANGR	CHEAL	AMBEL	ABUTH
<b>Density:</b>	7	7	31	2

**Application Equipment**

Appl	Sprayer	Speed	Nozzle	Nozzle	Nozzle	Nozzle	Boom			
	Type	MPH	Type	Size	Height	Spacing	Width	GPA	Carrier	PSI
A	Cub	3.8	AIXR	11003	22"	20"	100"	19	water	30

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Trial ID: SOY03-13 Study Dir.: Sprague, Powell  
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Weed Code	GLXMA	GLXMA	ANGR	CHEAL	AMBEL
Crop Code	injury	injury	control	control	control
Rating Data Type	percent	percent	percent	percent	percent
Rating Unit	Jun/14/2013	Jun/21/2013	Jun/21/2013	Jun/21/2013	Jun/21/2013
Rating Date	7 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Trt-Eval Interval	0	0	0	0	0
# Subsamples, Dec.					

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	GLXMA Jun/14/2013	GLXMA Jun/21/2013	ANGR Jun/21/2013	CHEAL Jun/21/2013	AMBEL Jun/21/2013
1	Roundup PowerMax AMS	4.5	SL	32	fl oz/a	POST	A	3	0	99	98	92
			WG	17	lb/100 gal	POST	A					
2	Prefix Roundup PowerMax AMS	5.28	L	2	pt/a	POST	A	39	26	99	99	99
		4.5	SL	32	fl oz/a	POST	A					
			L	1	qt/a	POST	A					
			WG	17	lb/100 gal	POST	A					
3	Untreated							0	0	0	0	0
4	Cobra V-10206	2	L	12.5	fl oz/a	POST	A	60	40	99	99	99
		85	WG	1.5	oz/a	POST	A					
		4.5	SL	32	fl oz/a	POST	A					
			L	1	qt/a	POST	A					
			WG	17	lb/100 gal	POST	A					
5	Cobra V-10206	2	L	12.5	fl oz/a	POST	A	58	43	99	99	99
		85	WG	2	oz/a	POST	A					
		4.5	SL	32	fl oz/a	POST	A					
			L	1	qt/a	POST	A					
			WG	17	lb/100 gal	POST	A					
6	Cobra Warrant	2	L	12.5	fl oz/a	POST	A	54	45	99	99	99
		3	L	3	pt/a	POST	A					
		4.5	SL	32	fl oz/a	POST	A					
			L	1	qt/a	POST	A					
			WG	17	lb/100 gal	POST	A					
7	Cobra Dual II Magnum	2	L	12.5	fl oz/a	POST	A	63	60	99	99	99
		7.64	L	1.33	pt/a	POST	A					
		4.5	SL	32	fl oz/a	POST	A					
			L	1	qt/a	POST	A					
			WG	17	lb/100 gal	POST	A					
LSD (P=.05)								5.8	3.3	0.0	1.1	2.0
CV								9.98	7.37	0.0	0.89	1.6

Means followed by same letter do not significantly differ (P=.05, LSD)

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Weed Code	ABUTH	GLXMA	ANGR	CHEAL	AMBEL
Crop Code					
Rating Data Type	control	injury	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Rating Date	Jun/21/2013	Jul/03/2013	Jul/03/2013	Jul/03/2013	Jul/03/2013
Trt-Eval Interval	14 DA-A	26 DA-A	26 DA-A	26 DA-A	26 DA-A
# Subsamples, Dec.	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	ABUTH	GLXMA	ANGR	CHEAL	AMBEL
1	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	A	99	0	74	94	71
	AMS		WG	17	lb/100 gal	POST	A					
2	Prefix	5.28	L	2	pt/a	POST	A	99	16	99	95	99
	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	A					
	COC		L	1	qt/a	POST	A					
	AMS		WG	17	lb/100 gal	POST	A					
3	Untreated							0	0	0	0	0
4	Cobra	2	L	12.5	fl oz/a	POST	A	99	20	99	97	95
	V-10206	85	WG	1.5	oz/a	POST	A					
	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	A					
	COC		L	1	qt/a	POST	A					
	AMS		WG	17	lb/100 gal	POST	A					
5	Cobra	2	L	12.5	fl oz/a	POST	A	99	23	99	98	98
	V-10206	85	WG	2	oz/a	POST	A					
	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	A					
	COC		L	1	qt/a	POST	A					
	AMS		WG	17	lb/100 gal	POST	A					
6	Cobra	2	L	12.5	fl oz/a	POST	A	99	19	99	97	96
	Warrant	3	L	3	pt/a	POST	A					
	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	A					
	COC		L	1	qt/a	POST	A					
	AMS		WG	17	lb/100 gal	POST	A					
7	Cobra	2	L	12.5	fl oz/a	POST	A	99	24	99	95	93
	Dual II Magnum	7.64	L	1.33	pt/a	POST	A					
	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	A					
	COC		L	1	qt/a	POST	A					
	AMS		WG	17	lb/100 gal	POST	A					
LSD (P=.05)								0.0	3.6	3.5	3.9	3.3
CV								0.0	16.87	2.89	3.18	2.86

Means followed by same letter do not significantly differ (P=.05, LSD)

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Weed Code										
Crop Code										
Rating Data Type										
Rating Unit										
Rating Date										
Trt-Eval Interval										
# Subsamples, Dec.										

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	GLXMA injury percent	ANGR control percent	CHEAL control percent	AMBEL control percent	ABUTH control percent
1	Roundup PowerMax AMS	4.5	SL	32	fl oz/a	POST A	0	71	73	64	97	
2	Prefix Roundup PowerMax	5.28	L	2	pt/a	POST A	1	99	87	98	95	
	COC AMS	4.5	SL	32	fl oz/a	POST A						
			L	1	qt/a	POST A						
			WG	17	lb/100 gal	POST A						
3	Untreated						0	0	0	0	0	
4	Cobra V-10206	2	L	12.5	fl oz/a	POST A	3	99	83	83	98	
	Roundup PowerMax	85	WG	1.5	oz/a	POST A						
	COC AMS	4.5	SL	32	fl oz/a	POST A						
			L	1	qt/a	POST A						
			WG	17	lb/100 gal	POST A						
5	Cobra V-10206	2	L	12.5	fl oz/a	POST A	3	99	89	94	99	
	Roundup PowerMax	85	WG	2	oz/a	POST A						
	COC AMS	4.5	SL	32	fl oz/a	POST A						
			L	1	qt/a	POST A						
			WG	17	lb/100 gal	POST A						
6	Cobra Warrant	2	L	12.5	fl oz/a	POST A	0	96	81	83	95	
	Roundup PowerMax	3	L	3	pt/a	POST A						
	COC AMS	4.5	SL	32	fl oz/a	POST A						
			L	1	qt/a	POST A						
			WG	17	lb/100 gal	POST A						
7	Cobra Dual II Magnum	2	L	12.5	fl oz/a	POST A	3	99	82	76	99	
	Roundup PowerMax	7.64	L	1.33	pt/a	POST A						
	COC AMS	4.5	SL	32	fl oz/a	POST A						
			L	1	qt/a	POST A						
			WG	17	lb/100 gal	POST A						

LSD (P=.05)							2.4	2.5	9.9	6.0	3.9
CV							124.68	2.13	9.45	5.71	3.18

Means followed by same letter do not significantly differ (P=.05, LSD)

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Weed Code  
 Crop Code  
 Rating Data Type GLXMA GLXMA  
 Rating Unit moisture yield  
 Rating Date percent bu/acre  
 Rating Date Oct/11/2013 Oct/11/2013  
 Trt-Eval Interval 126 DA-A at 13% M  
 # Subsamples, Dec. 1 1

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code		
1	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	A	11.6	59.2
	AMS		WG	17	lb/100 gal	POST	A		
2	Prefix	5.28	L	2	pt/a	POST	A	11.6	61.5
	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	A		
	COC		L	1	qt/a	POST	A		
	AMS		WG	17	lb/100 gal	POST	A		
3	Untreated							12.0	27.3
4	Cobra	2	L	12.5	fl oz/a	POST	A	11.5	60.0
	V-10206	85	WG	1.5	oz/a	POST	A		
	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	A		
	COC		L	1	qt/a	POST	A		
	AMS		WG	17	lb/100 gal	POST	A		
5	Cobra	2	L	12.5	fl oz/a	POST	A	11.5	61.4
	V-10206	85	WG	2	oz/a	POST	A		
	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	A		
	COC		L	1	qt/a	POST	A		
	AMS		WG	17	lb/100 gal	POST	A		
6	Cobra	2	L	12.5	fl oz/a	POST	A	11.5	64.8
	Warrant	3	L	3	pt/a	POST	A		
	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	A		
	COC		L	1	qt/a	POST	A		
	AMS		WG	17	lb/100 gal	POST	A		
7	Cobra	2	L	12.5	fl oz/a	POST	A	11.6	58.3
	Dual II Magnum	7.64	L	1.33	pt/a	POST	A		
	Roundup PowerMax	4.5	SL	32	fl oz/a	POST	A		
	COC		L	1	qt/a	POST	A		
	AMS		WG	17	lb/100 gal	POST	A		

LSD (P=.05) 0.20 7.66  
 CV 1.13 9.19

Means followed by same letter do not significantly differ (P=.05, LSD)