

MSU Weed Science Research Program

Comparison of POST tank-mixtures in LibertyLink soybean

Trial ID: SOY05-13 Study Dir.: Sprague, Powell
 Conducted: Campus C-12 Investigator: Christy Sprague

Date Planted: May/08/2013 **Row Spacing:** 30 IN
Variety: DF9251LL **No. of Reps:** 4
Population: 155,000 seeds/A **% OM:** 3.9
Soil Type: Silt loam **pH:** 7.6
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

Application Timing: A
 POST
Date Treated: Jun/07/2013
Time Treated: 8:10 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): 5

Crop Stage at Each Application

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

Weed Stage at Each Application

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

Weed Density (plants/sq. ft.)

Date:	1	2	3	4
	Jul/11/2013	Jul/11/2013	Jul/11/2013	Jul/11/2013
Weed Name:	ANGR	CHEAL	AMBEL	ABUTH
Density:	14	6	43	<1

Application Equipment

Appl	Sprayer	Speed	Nozzle	Nozzle	Nozzle	Nozzle	Boom				
A	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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Weed Code									ANGR	CHEAL	AMBEL
Crop Code							GLXMA	GLXMA			
Rating Data Type							injury	injury	control	control	control
Rating Unit							percent	percent	percent	percent	percent
Rating Date							Jun/14/2013	Jun/21/2013	Jun/21/2013	Jun/21/2013	Jun/21/2013
Trt-Eval Interval							7 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A
# Subsamples, Dec.							0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code					
1	Liberty	2.34	L	22	fl oz/a	POST	A	0	0	93	93	89
	AMS		WG	8.5	lb/100 gal	POST	A					
2	Statement	5.25	L	32	fl oz/a	POST	A	26	17	99	99	98
	Liberty	2.34	L	22	fl oz/a	POST	A					
	AMS		WG	8.5	lb/100 gal	POST	A					
3	Statement	5.25	L	40	fl oz/a	POST	A	34	19	99	99	99
	Liberty	2.34	L	22	fl oz/a	POST	A					
	AMS		WG	8.5	lb/100 gal	POST	A					
4	Rhythm	1.88	L	17	fl oz/a	POST	A	19	5	99	97	98
	Liberty	2.34	L	22	fl oz/a	POST	A					
	AMS		WG	8.5	lb/100 gal	POST	A					
5	Untreated							0	0	0	0	0
6	Dawn	2	L	16	fl oz/a	POST	A	18	7	99	97	98
	Liberty	2.34	L	22	fl oz/a	POST	A					
	AMS		WG	8.5	lb/100 gal	POST	A					
7	Prefix	5.29	L	32	fl oz/a	POST	A	34	20	99	98	99
	Liberty	2.34	L	22	fl oz/a	POST	A					
	AMS		WG	8.5	lb/100 gal	POST	A					
8	Prefix	5.29	L	40	fl oz/a	POST	A	36	21	99	98	99
	Liberty	2.34	L	22	fl oz/a	POST	A					
	AMS		WG	8.5	lb/100 gal	POST	A					
LSD (P=.05)								4.8	4.7	2.0	2.7	1.7
CV								15.67	28.8	1.6	2.14	1.33

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

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Weed Code		ABUTH		ANGR	CHEAL	AMBEL	ABUTH						
Crop Code			GLXMA										
Rating Data Type		control	injury	control	control	control	control						
Rating Unit		percent	percent	percent	percent	percent	percent						
Rating Date		Jun/21/2013	Jul/03/2013	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	26 DA-A						
# Subsamples, Dec.		0	0	0	0	0	0						
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Grow Stg	Appl Code						
1	Liberty	2.34	L	22	fl oz/a	POST	A	96	0	75	78	81	97
	AMS		WG	8.5	lb/100 gal	POST	A						
2	Statement	5.25	L	32	fl oz/a	POST	A	99	8	99	97	98	99
	Liberty	2.34	L	22	fl oz/a	POST	A						
	AMS		WG	8.5	lb/100 gal	POST	A						
3	Statement	5.25	L	40	fl oz/a	POST	A	99	5	99	97	99	99
	Liberty	2.34	L	22	fl oz/a	POST	A						
	AMS		WG	8.5	lb/100 gal	POST	A						
4	Rhythm	1.88	L	17	fl oz/a	POST	A	99	1	99	97	98	98
	Liberty	2.34	L	22	fl oz/a	POST	A						
	AMS		WG	8.5	lb/100 gal	POST	A						
5	Untreated							0	0	0	0	0	0
6	Dawn	2	L	16	fl oz/a	POST	A	99	3	98	96	98	99
	Liberty	2.34	L	22	fl oz/a	POST	A						
	AMS		WG	8.5	lb/100 gal	POST	A						
7	Prefix	5.29	L	32	fl oz/a	POST	A	99	6	98	97	98	98
	Liberty	2.34	L	22	fl oz/a	POST	A						
	AMS		WG	8.5	lb/100 gal	POST	A						
8	Prefix	5.29	L	40	fl oz/a	POST	A	99	6	98	96	99	99
	Liberty	2.34	L	22	fl oz/a	POST	A						
	AMS		WG	8.5	lb/100 gal	POST	A						
LSD (P=.05)								1.8	3.6	7.2	4.6	1.6	2.4
CV								1.42	68.94	5.91	3.82	1.28	1.92

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.													
1	Liberty	2.34	L	22	fl oz/a	POST A	0	78	73	66	99	11.6	
	AMS		WG	8.5	lb/100 gal	POST A							
2	Statement	5.25	L	32	fl oz/a	POST A	3	99	93	95	99	11.6	
	Liberty	2.34	L	22	fl oz/a	POST A							
	AMS		WG	8.5	lb/100 gal	POST A							
3	Statement	5.25	L	40	fl oz/a	POST A	2	99	94	98	97	11.6	
	Liberty	2.34	L	22	fl oz/a	POST A							
	AMS		WG	8.5	lb/100 gal	POST A							
4	Rhythm	1.88	L	17	fl oz/a	POST A	1	98	91	99	97	11.6	
	Liberty	2.34	L	22	fl oz/a	POST A							
	AMS		WG	8.5	lb/100 gal	POST A							
5	Untreated						0	0	0	0	0	11.9	
6	Dawn	2	L	16	fl oz/a	POST A	0	94	86	95	99	11.4	
	Liberty	2.34	L	22	fl oz/a	POST A							
	AMS		WG	8.5	lb/100 gal	POST A							
7	Prefix	5.29	L	32	fl oz/a	POST A	2	98	90	97	99	11.7	
	Liberty	2.34	L	22	fl oz/a	POST A							
	AMS		WG	8.5	lb/100 gal	POST A							
8	Prefix	5.29	L	40	fl oz/a	POST A	0	98	89	98	99	11.6	
	Liberty	2.34	L	22	fl oz/a	POST A							
	AMS		WG	8.5	lb/100 gal	POST A							
LSD (P=.05)							2.7	3.5	9.1	4.5	3.4	0.22	
CV							225.31	2.88	8.09	3.8	2.68	1.3	

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

MSU Weed Science Research Program

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

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Grow Stg	Appl Code	
1	Liberty	2.34	L	22	fl oz/a	POST	A	59.2
	AMS		WG	8.5	lb/100 gal	POST	A	
2	Statement	5.25	L	32	fl oz/a	POST	A	66.2
	Liberty	2.34	L	22	fl oz/a	POST	A	
	AMS		WG	8.5	lb/100 gal	POST	A	
3	Statement	5.25	L	40	fl oz/a	POST	A	70.2
	Liberty	2.34	L	22	fl oz/a	POST	A	
	AMS		WG	8.5	lb/100 gal	POST	A	
4	Rhythm	1.88	L	17	fl oz/a	POST	A	71.4
	Liberty	2.34	L	22	fl oz/a	POST	A	
	AMS		WG	8.5	lb/100 gal	POST	A	
5	Untreated							30.1
6	Dawn	2	L	16	fl oz/a	POST	A	67.2
	Liberty	2.34	L	22	fl oz/a	POST	A	
	AMS		WG	8.5	lb/100 gal	POST	A	
7	Prefix	5.29	L	32	fl oz/a	POST	A	68.9
	Liberty	2.34	L	22	fl oz/a	POST	A	
	AMS		WG	8.5	lb/100 gal	POST	A	
8	Prefix	5.29	L	40	fl oz/a	POST	A	67.9
	Liberty	2.34	L	22	fl oz/a	POST	A	
	AMS		WG	8.5	lb/100 gal	POST	A	
LSD (P=.05)								7.05
CV								7.66

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