

MSU Weed Science Research Program

Evaluation of Sharpen tank-mixes in no-till soybean

Trial ID: NTS02-10 Study Dir.: Sprague, Powell
 Conducted: T-16 North Investigator: Christy Sprague

Date Planted: 5/26/2010 Row Spacing: 7.5 IN
 Variety: Asgrow 2108 No. of Reps: 5
 Population: 200,000 Seeds/Acre % OM: 2.9
 Soil Type: Clay Loam pH: 6.5
 Plot Size: 10 X 35 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: No-till
 Fertilizer: None

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1.	STEME	CHICKWEED, COMMON	STELLARIA MEDIA (L.)
2.	TAROF	DANDELION, COMMON	TARAXACUM OFFICINALE
3.	ERIST	FLEABANE, ROUGH	ERIGERON STRIGOSUS MUHL.
4.	ERICA	HORSEWEED (Marestail)	ERIGERON CANADENSIS L.
5.	ANGR	mostly foxtail & large crabgrass	SETARIA & DIGITARIA SP.
6.	CHEAL	LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
Crop	Code	Common Name	
1.	GLXMA	SOYBEAN	

Application Description

	A	B
Application Timing:	7 EPP	POST
Date Treated:	5/3/2010	6/25/2010
Time Treated:	3:45 pm	12:00 pm
% Cloud Cover:	40	2
Air Temp., Unit:	77 F	76 F
% Relative Humidity:	37	45
Wind Speed/Unit/Dir:	9 mph SW	5 mph S
Soil Temp., Unit:	66 F	70 F
Soil/Leaf Surface M:	5 5	4 5
Soil Moist (1=w 5=d):	4	3

Crop Stage at Each Application

	A	B
Crop Name:	GLXMA	GLXMA
Height (In.):	-	8"
Stage (L):	-	V3-4

Weed Stage at Each Application

	A	B
Weed 1 Name:	STEME	STEME
Height (In.):	Mat	7-8"
Stage (L):	Flowering	Flowering
Weed 2 Name:	TAROF	TAROF
Height (In.):	6-8" Diam	14-20"dia
Stage (L):	Flowering	Flowering
Weed 3 Name:	ERIST	ERIST
Height (In.):	14"	-
Stage (L):	12-14	-
Weed 4 Name:	ERICA	ERICA
Height (In.):	14"	20-36"
Stage (L):	12-14	Bolting
Weed 5 Name:	ANGR	ANGR
Height (In.):	-	2-4"
Stage (L):	-	4
Weed 6 Name:	CHEAL	CHEAL
Height (In.):	-	2-4"
Stage (L):	-	4-6"

Weed Density (plants/sq. ft.)

	1	2	3	4	5
Weed Name:	TAROF	ERICA	STEME	ANGR	CHEAL
Density:	1	<1	5	<1	<1

Application Equipment

Appl	Sprayer Type	Speed MPH	Nozzle Type	Nozzle Size	Nozzle Height	Nozzle Spacing	Boom Width	GPA	Carrier	PSI
A	Cub	3.8	AirMix	11003	21"	20"	100"	19	water	28
B	Cub	3.8	AirMix	11003	24"	20"	100"	19	water	28

Comments: Injury ratings from July 26, 2010 are from weed competition.

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 Conducted: T-16 North

Study Dir.: Sprague, Powell
 Investigator: Christy Sprague

Weed Code								STEME	TAROF	STEME	TAROF	ERIST	GLXMA
Crop Code													
Rating Data Type								control	control	control	control	control	injury
Rating Unit								percent	percent	percent	percent	percent	percent
Rating Date								5/10/2010	5/10/2010	5/25/2010	5/25/2010	5/25/2010	6/25/2010
Trt-Eval Interval								7 DA-A	7 DA-A	22 DA-A	22 DA-A	22 DA-A	53 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	Untreated							0	0	0	0	0	0
2	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A	18	10	99	97	99	0
2	AMS		WG	17	lb/100 gal	7 EPP	A						
2	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B						
2	AMS		WG	17	lb/100 gal	POST	B						
3	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A	33	33	99	90	99	0
3	2,4-D Ester	3.8	SL	1	pt/a	7 EPP	A						
3	AMS		WG	17	lb/100 gal	7 EPP	A						
3	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B						
3	AMS		WG	17	lb/100 gal	POST	B						
4	Sharpen	2.85	L	1	fl oz/a	7 EPP	A	81	78	52	56	99	0
4	MSO			1	% v/v	7 EPP	A						
4	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B						
4	AMS		WG	17	lb/100 gal	POST	B						
5	Sharpen	2.85	L	1	fl oz/a	7 EPP	A	80	75	99	98	99	0
5	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A						
5	MSO			1	% v/v	7 EPP	A						
5	AMS		WG	17	lb/100 gal	7 EPP	A						
5	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B						
5	AMS		WG	17	lb/100 gal	POST	B						
6	OpTill	68	WG	2	oz/a	7 EPP	A	79	76	99	99	99	0
6	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A						
6	MSO		L	1	% v/v	7 EPP	A						
6	AMS		WG	17	lb/100 gal	7 EPP	A						
6	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B						
6	AMS		WG	17	lb/100 gal	POST	B						
7	Sharpen	2.85	L	1	fl oz/a	7 EPP	A	81	82	99	99	99	0
7	Extreme	2.17	L	3	pt/a	7 EPP	A						
7	MSO		L	1	% v/v	7 EPP	A						
7	AMS		WG	17	lb/100 gal	7 EPP	A						
7	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B						
7	AMS		WG	17	lb/100 gal	POST	B						
8	Sharpen	2.85	L	1	fl oz/a	7 EPP	A	82	77	99	99	99	0
8	Prowl H2O	3.8	L	2.6	pt/a	7 EPP	A						
8	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A						
8	MSO		L	1	% v/v	7 EPP	A						
8	AMS		WG	17	lb/100 gal	7 EPP	A						
8	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B						
8	AMS		WG	17	lb/100 gal	POST	B						
9	Canopy EX (1.1 oz/A)	29.5	WG			7 EPP	A	77	77	99	98	99	0
9	Classic	25	WG	1	oz/a	7 EPP	A						
9	Express	50	WG	0.15	oz/a	7 EPP	A						
9	Sharpen	2.85	L	1	fl oz/a	7 EPP	A						
9	MSO		L	1	% v/v	7 EPP	A						
9	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B						
9	AMS		WG	17	lb/100 gal	POST	B						

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Weed Code				STEME	TAROF	STEME	TAROF	ERIST	GLXMA			
Crop Code				control	control	control	control	control	injury			
Rating Data Type				percent	percent	percent	percent	percent	percent			
Rating Unit				5/10/2010	5/10/2010	5/25/2010	5/25/2010	5/25/2010	6/25/2010			
Rating Date				7 DA-A	7 DA-A	22 DA-A	22 DA-A	22 DA-A	53 DA-A			
Trt-Eval Interval				0	0	0	0	0	0			
# Subsamples, Dec.				0	0	0	0	0	0			
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Grow Stg	Appl Code						
10	Canopy EX (1.1 oz/A)	29.5	WG		7 EPP	A	22	18	99	86	99	0
10	Classic	25	WG	1 oz/a	7 EPP	A						
10	Express	50	WG	0.15 oz/a	7 EPP	A						
10	2,4-D Ester	3.8	SL	1 pt/a	7 EPP	A						
10	MSO		L	1 % v/v	7 EPP	A						
10	Roundup PowerMax	4.5	SL	22 fl oz/a	POST	B						
10	AMS		WG	17 lb/100 gal	POST	B						
11	Canopy	75	WG	2.25 oz/a	7 EPP	A	83	78	96	92	98	0
11	Sharpen	2.85	L	1 fl oz/a	7 EPP	A						
11	MSO		L	1 % v/v	7 EPP	A						
11	Roundup PowerMax	4.5	SL	22 fl oz/a	POST	B						
11	AMS		WG	17 lb/100 gal	POST	B						
12	Canopy	75	WG	2.25 oz/a	7 EPP	A	26	22	77	81	99	0
12	2,4-D Ester	3.8	SL	1 pt/a	7 EPP	A						
12	MSO		L	1 % v/v	7 EPP	A						
12	Roundup PowerMax	4.5	SL	22 fl oz/a	POST	B						
12	AMS		WG	17 lb/100 gal	POST	B						
13	Envive (2.5 oz/A)	41.3	WG		7 EPP	A	76	76	97	94	96	0
13	Classic	25	WG	0.92 oz/a	7 EPP	A						
13	Harmony SG	50	WG	0.15 oz/a	7 EPP	A						
13	Valor	51	WG	1.5 oz/a	7 EPP	A						
13	2,4-D Ester	3.8	SL	1 pt/a	7 EPP	A						
13	MSO		L	1 % v/v	7 EPP	A						
13	Roundup PowerMax	4.5	SL	22 fl oz/a	POST	B						
13	AMS		WG	17 lb/100 gal	POST	B						
LSD (P=.05)							10.6	10.3	7.3	7.5	1.5	0.0
Standard Deviation							8.3	8.1	5.7	5.9	1.2	0.0
CV							14.57	14.92	6.65	7.04	1.3	0.0

Means followed by same letter do not significantly differ (P=.05, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Weed Code								STEME	TAROF	ERICA	ANGR	CHEAL	GLXMA
Crop Code													
Rating Data Type								control	control	control	control	control	injury
Rating Unit								percent	percent	percent	percent	percent	percent
Rating Date								6/25/2010	6/25/2010	6/25/2010	6/25/2010	6/25/2010	7/26/2010
Trt-Eval Interval								53 DA-A	53 DA-A	53 DA-A	53 DA-A	53 DA-A	84 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	Untreated							0	0	0	0	0	33
2	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A	98	91	95	72	71	0
2	AMS		WG	17	lb/100 gal	7 EPP	A						
2	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B						
2	AMS		WG	17	lb/100 gal	POST	B						
3	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A	97	83	99	76	74	0
3	2,4-D Ester	3.8	SL	1	pt/a	7 EPP	A						
3	AMS		WG	17	lb/100 gal	7 EPP	A						
3	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B						
3	AMS		WG	17	lb/100 gal	POST	B						
4	Sharpen	2.85	L	1	fl oz/a	7 EPP	A	40	61	92	62	62	6
4	MISO			1	% v/v	7 EPP	A						
4	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B						
4	AMS		WG	17	lb/100 gal	POST	B						
5	Sharpen	2.85	L	1	fl oz/a	7 EPP	A	97	75	99	83	76	0
5	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A						
5	MISO			1	% v/v	7 EPP	A						
5	AMS		WG	17	lb/100 gal	7 EPP	A						
5	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B						
5	AMS		WG	17	lb/100 gal	POST	B						
6	OpTill	68	WG	2	oz/a	7 EPP	A	99	72	99	90	99	0
6	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A						
6	MISO		L	1	% v/v	7 EPP	A						
6	AMS		WG	17	lb/100 gal	7 EPP	A						
6	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B						
6	AMS		WG	17	lb/100 gal	POST	B						
7	Sharpen	2.85	L	1	fl oz/a	7 EPP	A	99	76	99	94	99	0
7	Extreme	2.17	L	3	pt/a	7 EPP	A						
7	MISO		L	1	% v/v	7 EPP	A						
7	AMS		WG	17	lb/100 gal	7 EPP	A						
7	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B						
7	AMS		WG	17	lb/100 gal	POST	B						
8	Sharpen	2.85	L	1	fl oz/a	7 EPP	A	99	77	99	99	93	0
8	Prowl H2O	3.8	L	2.6	pt/a	7 EPP	A						
8	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A						
8	MISO		L	1	% v/v	7 EPP	A						
8	AMS		WG	17	lb/100 gal	7 EPP	A						
8	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B						
8	AMS		WG	17	lb/100 gal	POST	B						
9	Canopy EX (1.1 oz/A)	29.5	WG			7 EPP	A	99	85	99	94	99	0
9	Classic	25	WG	1	oz/a	7 EPP	A						
9	Express	50	WG	0.15	oz/a	7 EPP	A						
9	Sharpen	2.85	L	1	fl oz/a	7 EPP	A						
9	MISO		L	1	% v/v	7 EPP	A						
9	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B						
9	AMS		WG	17	lb/100 gal	POST	B						

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Weed Code							STEME	TAROF	ERICA	ANGR	CHEAL	GLXMA	
Crop Code							control	control	control	control	control	injury	
Rating Data Type							percent	percent	percent	percent	percent	percent	
Rating Unit							6/25/2010	6/25/2010	6/25/2010	6/25/2010	6/25/2010	7/26/2010	
Rating Date							53 DA-A	53 DA-A	53 DA-A	53 DA-A	53 DA-A	84 DA-A	
Trt-Eval Interval							0	0	0	0	0	0	
# Subsamples, Dec.							0	0	0	0	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	Appl Code						
10	Canopy EX (1.1 oz/A)	29.5	WG			7 EPP	A	99	95	96	88	99	0
10	Classic	25	WG	1	oz/a	7 EPP	A						
10	Express	50	WG	0.15	oz/a	7 EPP	A						
10	2,4-D Ester	3.8	SL	1	pt/a	7 EPP	A						
10	MSO		L	1	% v/v	7 EPP	A						
10	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B						
10	AMS		WG	17	lb/100 gal	POST	B						
11	Canopy	75	WG	2.25	oz/a	7 EPP	A	94	78	95	88	99	0
11	Sharpen	2.85	L	1	fl oz/a	7 EPP	A						
11	MSO		L	1	% v/v	7 EPP	A						
11	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B						
11	AMS		WG	17	lb/100 gal	POST	B						
12	Canopy	75	WG	2.25	oz/a	7 EPP	A	87	81	97	90	94	0
12	2,4-D Ester	3.8	SL	1	pt/a	7 EPP	A						
12	MSO		L	1	% v/v	7 EPP	A						
12	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B						
12	AMS		WG	17	lb/100 gal	POST	B						
13	Envive (2.5 oz/A)	41.3	WG			7 EPP	A	99	88	93	96	99	0
13	Classic	25	WG	0.92	oz/a	7 EPP	A						
13	Harmony SG	50	WG	0.15	oz/a	7 EPP	A						
13	Valor	51	WG	1.5	oz/a	7 EPP	A						
13	2,4-D Ester	3.8	SL	1	pt/a	7 EPP	A						
13	MSO		L	1	% v/v	7 EPP	A						
13	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B						
13	AMS		WG	17	lb/100 gal	POST	B						
LSD (P=.05)								5.6	9.1	5.6	15.0	9.8	5.1
Standard Deviation								4.4	7.1	4.4	11.7	7.7	4.0
CV								5.15	9.62	4.9	14.78	9.36	132.02

Means followed by same letter do not significantly differ (P=.05, LSD)
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Weed Code								TAROF	ERICA	ANGR	CHEAL	GLXMA
Crop Code												moisture
Rating Data Type								control	control	control	control	percent
Rating Unit								percent	percent	percent	percent	percent
Rating Date								7/26/2010	7/26/2010	7/26/2010	7/26/2010	10/11/2010
Trt-Eval Interval								84 DA-A	84 DA-A	84 DA-A	84 DA-A	161 DA-A
# Subsamples, Dec.								0	0	0	0	1
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code					
1	Untreated							0	0	0	0	9.8
2	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A	99	99	99	99	9.0
2	AMS		WG	17	lb/100 gal	7 EPP	A					
2	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B					
2	AMS		WG	17	lb/100 gal	POST	B					
3	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A	99	99	99	99	9.0
3	2,4-D Ester	3.8	SL	1	pt/a	7 EPP	A					
3	AMS		WG	17	lb/100 gal	7 EPP	A					
3	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B					
3	AMS		WG	17	lb/100 gal	POST	B					
4	Sharpen	2.85	L	1	fl oz/a	7 EPP	A	99	99	99	99	9.1
4	MSO			1	% v/v	7 EPP	A					
4	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B					
4	AMS		WG	17	lb/100 gal	POST	B					
5	Sharpen	2.85	L	1	fl oz/a	7 EPP	A	99	99	99	99	9.0
5	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A					
5	MSO			1	% v/v	7 EPP	A					
5	AMS		WG	17	lb/100 gal	7 EPP	A					
5	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B					
5	AMS		WG	17	lb/100 gal	POST	B					
6	OpTill	68	WG	2	oz/a	7 EPP	A	99	99	99	99	9.0
6	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A					
6	MSO		L	1	% v/v	7 EPP	A					
6	AMS		WG	17	lb/100 gal	7 EPP	A					
6	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B					
6	AMS		WG	17	lb/100 gal	POST	B					
7	Sharpen	2.85	L	1	fl oz/a	7 EPP	A	99	99	99	99	9.0
7	Extreme	2.17	L	3	pt/a	7 EPP	A					
7	MSO		L	1	% v/v	7 EPP	A					
7	AMS		WG	17	lb/100 gal	7 EPP	A					
7	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B					
7	AMS		WG	17	lb/100 gal	POST	B					
8	Sharpen	2.85	L	1	fl oz/a	7 EPP	A	99	99	99	99	9.1
8	Prowl H2O	3.8	L	2.6	pt/a	7 EPP	A					
8	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A					
8	MSO		L	1	% v/v	7 EPP	A					
8	AMS		WG	17	lb/100 gal	7 EPP	A					
8	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B					
8	AMS		WG	17	lb/100 gal	POST	B					
9	Canopy EX (1.1 oz/A)	29.5	WG			7 EPP	A	99	99	99	99	9.0
9	Classic	25	WG	1	oz/a	7 EPP	A					
9	Express	50	WG	0.15	oz/a	7 EPP	A					
9	Sharpen	2.85	L	1	fl oz/a	7 EPP	A					
9	MSO		L	1	% v/v	7 EPP	A					
9	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B					
9	AMS		WG	17	lb/100 gal	POST	B					

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Crop Code												
Rating Data Type							control	control	control	control	moisture	
Rating Unit							percent	percent	percent	percent	percent	
Rating Date							7/26/2010	7/26/2010	7/26/2010	7/26/2010	10/11/2010	
Trt-Eval Interval							84 DA-A	84 DA-A	84 DA-A	84 DA-A	161 DA-A	
# Subsamples, Dec.							0	0	0	0	1	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	Appl Code					
10	Canopy EX (1.1 oz/A)	29.5	WG			7 EPP	A	99	96	99	99	8.9
10	Classic	25	WG	1	oz/a	7 EPP	A					
10	Express	50	WG	0.15	oz/a	7 EPP	A					
10	2,4-D Ester	3.8	SL	1	pt/a	7 EPP	A					
10	MSO		L	1	% v/v	7 EPP	A					
10	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B					
10	AMS		WG	17	lb/100 gal	POST	B					
11	Canopy	75	WG	2.25	oz/a	7 EPP	A	99	99	99	99	9.0
11	Sharpen	2.85	L	1	fl oz/a	7 EPP	A					
11	MSO		L	1	% v/v	7 EPP	A					
11	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B					
11	AMS		WG	17	lb/100 gal	POST	B					
12	Canopy	75	WG	2.25	oz/a	7 EPP	A	99	99	99	99	9.0
12	2,4-D Ester	3.8	SL	1	pt/a	7 EPP	A					
12	MSO		L	1	% v/v	7 EPP	A					
12	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B					
12	AMS		WG	17	lb/100 gal	POST	B					
13	Envive (2.5 oz/A)	41.3	WG			7 EPP	A	99	99	99	99	9.0
13	Classic	25	WG	0.92	oz/a	7 EPP	A					
13	Harmony SG	50	WG	0.15	oz/a	7 EPP	A					
13	Valor	51	WG	1.5	oz/a	7 EPP	A					
13	2,4-D Ester	3.8	SL	1	pt/a	7 EPP	A					
13	MSO		L	1	% v/v	7 EPP	A					
13	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B					
13	AMS		WG	17	lb/100 gal	POST	B					
LSD (P=.05)								0.0	2.3	0.0	0.0	0.39
Standard Deviation								0.0	1.8	0.0	0.0	0.31
CV								0.0	1.95	0.0	0.0	3.4

Means followed by same letter do not significantly differ (P=.05, LSD)
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

MSU Weed Science Research Program

Evaluation of Sharpen tank-mixes in no-till soybean

Trial ID: NTS02-10
 Conducted: T-16 North

Study Dir.: Sprague, Powell
 Investigator: Christy Sprague

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

GLXMA
 yield
 bu/acre
 10/11/2010
 at 13% M
 1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	
1	Untreated							35.3
2	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A	51.8
2	AMS		WG	17	lb/100 gal	7 EPP	A	
2	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B	
2	AMS		WG	17	lb/100 gal	POST	B	
3	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A	47.8
3	2,4-D Ester	3.8	SL	1	pt/a	7 EPP	A	
3	AMS		WG	17	lb/100 gal	7 EPP	A	
3	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B	
3	AMS		WG	17	lb/100 gal	POST	B	
4	Sharpen	2.85	L	1	fl oz/a	7 EPP	A	46.1
4	MSO			1	% v/v	7 EPP	A	
4	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B	
4	AMS		WG	17	lb/100 gal	POST	B	
5	Sharpen	2.85	L	1	fl oz/a	7 EPP	A	46.8
5	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A	
5	MSO			1	% v/v	7 EPP	A	
5	AMS		WG	17	lb/100 gal	7 EPP	A	
5	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B	
5	AMS		WG	17	lb/100 gal	POST	B	
6	OpTill	68	WG	2	oz/a	7 EPP	A	48.6
6	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A	
6	MSO		L	1	% v/v	7 EPP	A	
6	AMS		WG	17	lb/100 gal	7 EPP	A	
6	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B	
6	AMS		WG	17	lb/100 gal	POST	B	
7	Sharpen	2.85	L	1	fl oz/a	7 EPP	A	45.8
7	Extreme	2.17	L	3	pt/a	7 EPP	A	
7	MSO		L	1	% v/v	7 EPP	A	
7	AMS		WG	17	lb/100 gal	7 EPP	A	
7	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B	
7	AMS		WG	17	lb/100 gal	POST	B	
8	Sharpen	2.85	L	1	fl oz/a	7 EPP	A	49.6
8	Prowl H2O	3.8	L	2.6	pt/a	7 EPP	A	
8	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	A	
8	MSO		L	1	% v/v	7 EPP	A	
8	AMS		WG	17	lb/100 gal	7 EPP	A	
8	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B	
8	AMS		WG	17	lb/100 gal	POST	B	
9	Canopy EX (1.1 oz/A)	29.5	WG			7 EPP	A	48.3
9	Classic	25	WG	1	oz/a	7 EPP	A	
9	Express	50	WG	0.15	oz/a	7 EPP	A	
9	Sharpen	2.85	L	1	fl oz/a	7 EPP	A	
9	MSO		L	1	% v/v	7 EPP	A	
9	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B	
9	AMS		WG	17	lb/100 gal	POST	B	

MSU Weed Science Research Program

Evaluation of Sharpen tank-mixes in no-till soybean

Trial ID: NTS02-10
Conducted: T-16 NorthStudy Dir.: Sprague, Powell
Investigator: Christy SpragueWeed Code
Crop Code
Rating Data Type
Rating Unit
Rating Date
Trt-Eval Interval
Subsamples, Dec. GLXMA
yield
bu/acre
10/11/2010
at 13% M
1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	
10	Canopy EX (1.1 oz/A)	29.5	WG			7 EPP	A	51.5
10	Classic	25	WG	1	oz/a	7 EPP	A	
10	Express	50	WG	0.15	oz/a	7 EPP	A	
10	2,4-D Ester	3.8	SL	1	pt/a	7 EPP	A	
10	MSO		L	1	% v/v	7 EPP	A	
10	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B	
10	AMS		WG	17	lb/100 gal	POST	B	
11	Canopy	75	WG	2.25	oz/a	7 EPP	A	48.3
11	Sharpen	2.85	L	1	fl oz/a	7 EPP	A	
11	MSO		L	1	% v/v	7 EPP	A	
11	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B	
11	AMS		WG	17	lb/100 gal	POST	B	
12	Canopy	75	WG	2.25	oz/a	7 EPP	A	48.1
12	2,4-D Ester	3.8	SL	1	pt/a	7 EPP	A	
12	MSO		L	1	% v/v	7 EPP	A	
12	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B	
12	AMS		WG	17	lb/100 gal	POST	B	
13	Envive (2.5 oz/A)	41.3	WG			7 EPP	A	48.6
13	Classic	25	WG	0.92	oz/a	7 EPP	A	
13	Harmony SG	50	WG	0.15	oz/a	7 EPP	A	
13	Valor	51	WG	1.5	oz/a	7 EPP	A	
13	2,4-D Ester	3.8	SL	1	pt/a	7 EPP	A	
13	MSO		L	1	% v/v	7 EPP	A	
13	Roundup PowerMax	4.5	SL	22	fl oz/a	POST	B	
13	AMS		WG	17	lb/100 gal	POST	B	
LSD (P=.05)								8.58
Standard Deviation								6.71
CV								14.15

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

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.