

MSU Weed Science Research Program

Comparison of fall-herbicide treatments in no-till soybean

Trial ID: FSB01-11 Study Dir.: Sprague, Powell
Conducted: C-13E Crops Investigator: Christy Sprague

Date Planted: 5/31/2011 Row Spacing: 7.5 IN
Variety: Asgrow 2330 No. of Reps: 4
Population: 200,000 seeds/acre % OM: 3.7
Soil Type: Silt Loam pH: 7.1
Plot Size: 10 X 30 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: No-tilled into standing corn stubble
Fertilizer: None.

Crop and Weed Description

Table with 4 columns: Weed, Code, Common Name, Scientific Name. Lists weeds 1-8 and crop 1 (GLXMA SOYBEAN).

Application Description

Table with 3 columns: Application Timing, A, B. Lists application details like Date Treated, Time Treated, etc.

Crop Stage at Each Application

Table with 3 columns: Crop Name, A, B. Lists crop name (GLXMA) and height/stage.

Weed Stage at Each Application

Table with 3 columns: Weed Name, A, B. Lists weed names and their height/stage for treatments A and B.

Weed Density (plants/sq. ft.)

Table with 6 columns: Weed Name, Density. Lists weed names and their densities.

Application Equipment

Table with 11 columns: Appl, Sprayer, Speed, Nozzle, Nozzle Size, Nozzle Height, Nozzle Spacing, Boom Width, GPA, Carrier, PSI. Lists equipment details for treatments A and B.

Comments: June 25: A blanket treatment of Roundup PowerMax (32 fl oz/A) + AMS (17 lb/100 gal) was applied to the entire study.

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Weed Code								TAROF	STEME	MELAL	CAPBP	ERICA	STEME
Crop Code													
Rating Data Type								control	control	control	control	control	control
Rating Unit								percent	percent	percent	percent	percent	percent
Rating Date								5/9/2011	5/9/2011	5/9/2011	5/9/2011	5/9/2011	6/3/2011
Trt-Eval Interval								182 DA-A	182 DA-A	182 DA-A	182 DA-A	182 DA-A	207 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	Roundup PowerMax	4.5	SL	22	fl oz/a	FALL	A	99	99	99	99	99	95
1	2,4-D Ester	4	L	1	pt/a	FALL	A						
1	Ammonium Sulfate		WG	17	lb/100 gal	FALL	A						
2	Envive	41.3	WG	2.5	oz/a	FALL	A	98	88	65	99	99	99
2	2,4-D Ester	4	L	1	pt/a	FALL	A						
2	Herbimax (COC)		L	1	% v/v	FALL	A						
3	Envive	41.3	WG	2.5	oz/a	FALL	A	89	85	59	99	99	99
3	2,4-D Ester	4	L	1	pt/a	FALL	A						
3	Herbimax (COC)		L	1	% v/v	FALL	A						
3	Envive	41.3	WG	2.5	oz/a	FALL	A						
3	2,4-D Ester	4	L	1	pt/a	7 EPP	B						
3	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	B						
3	Ammonium Sulfate		WG	17	lb/100 gal	7 EPP	B						
4	Canopy EX	29.5	WG	1.1	oz/a	FALL	A	97	99	99	99	99	99
4	2,4-D Ester	4	L	1	pt/a	FALL	A						
4	Herbimax (COC)		L	1	% v/v	FALL	A						
5	Canopy EX	29.5	WG	1.1	oz/a	FALL	A	98	99	99	99	99	99
5	2,4-D Ester	4	L	1	pt/a	FALL	A						
5	Herbimax (COC)		L	1	% v/v	FALL	A						
5	Envive	41.3	WG	2.5	oz/a	7 EPP	B						
5	2,4-D Ester	4	L	1	pt/a	7 EPP	B						
5	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	B						
5	Ammonium Sulfate		WG	17	lb/100 gal	7 EPP	B						
6	Envive	41.3	WG	4.5	oz/a	FALL	A	99	97	57	99	99	99
6	2,4-D Ester	4	L	1	pt/a	FALL	A						
6	Herbimax (COC)		L	1	% v/v	FALL	A						
7	Envive	41.3	WG	4.5	oz/a	7 EPP	B	0	0	0	0	0	92
7	2,4-D Ester	4	L	1	pt/a	7 EPP	B						
7	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	B						
7	Ammonium Sulfate		WG	17	lb/100 gal	7 EPP	B						
8	Envive	41.3	WG	2.5	oz/a	7 EPP	B	0	0	0	0	0	90
8	2,4-D Ester	4	L	1	pt/a	7 EPP	B						
8	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	B						
8	Ammonium Sulfate		WG	17	lb/100 gal	7 EPP	B						
9	Roundup PowerMax	4.5	SL	11	fl oz/a	FALL	A	98	99	95	99	99	99
9	2,4-D Ester	4	L	1	pt/a	FALL	A						
9	Ammonium Sulfate		WG	17	lb/100 gal	FALL	A						
9	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	B						
9	2,4-D Ester	4	L	1	pt/a	7 EPP	B						
9	Ammonium Sulfate		WG	17	lb/100 gal	7 EPP	B						
10	Untreated							0	0	0	0	0	0
11	Roundup PowerMax	4.5	SL	22	fl oz/a	FALL	A	99	99	99	99	99	99
11	Rage D-Tech	4.06	L	12	fl oz/a	FALL	A						
11	Spartan	4	L	8	fl oz/a	FALL	A						
11	Command 3 ME	3	L	32	fl oz/a	FALL	A						
11	Ammonium Sulfate		WG	17	lb/100 gal	FALL	A						

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Comparison of fall-herbicide treatments in no-till soybean

Trial ID: FSB01-11 Study Dir.: Sprague, Powell
Conducted: C-13E Crops Investigator: Christy Sprague

Table with columns: 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, TAROF, STEME, MELAL, CAPBP, ERICA, STEME. Includes LSD, Standard Deviation, and CV values.

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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Comparison of fall-herbicide treatments in no-till soybean

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 Conducted: C-13E Crops Investigator: Christy Sprague

								CAPBP	TAROF	ERICA	MELAL	POROL	CHEAL
								control	control	control	control	control	control
								percent	percent	percent	percent	percent	percent
								6/3/2011	6/3/2011	6/3/2011	6/3/2011	6/3/2011	6/3/2011
								207 DA-A	207 DA-A	207 DA-A	207 DA-A	207 DA-A	207 DA-A
								0	0	0	0	0	0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code						
1	Roundup PowerMax	4.5	SL	22	fl oz/a	FALL	A	99	94	99	97	83	0
1	2,4-D Ester	4	L	1	pt/a	FALL	A						
1	Ammonium Sulfate		WG	17	lb/100 gal	FALL	A						
2	Envive	41.3	WG	2.5	oz/a	FALL	A	99	78	99	87	99	99
2	2,4-D Ester	4	L	1	pt/a	FALL	A						
2	Herbimax (COC)		L	1	% v/v	FALL	A						
3	Envive	41.3	WG	2.5	oz/a	FALL	A	99	99	99	93	99	99
3	2,4-D Ester	4	L	1	pt/a	FALL	A						
3	Herbimax (COC)		L	1	% v/v	FALL	A						
3	Envive	41.3	WG	2.5	oz/a	FALL	A						
3	2,4-D Ester	4	L	1	pt/a	7 EPP	B						
3	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	B						
3	Ammonium Sulfate		WG	17	lb/100 gal	7 EPP	B						
4	Canopy EX	29.5	WG	1.1	oz/a	FALL	A	99	95	98	87	99	99
4	2,4-D Ester	4	L	1	pt/a	FALL	A						
4	Herbimax (COC)		L	1	% v/v	FALL	A						
5	Canopy EX	29.5	WG	1.1	oz/a	FALL	A	99	99	99	99	99	99
5	2,4-D Ester	4	L	1	pt/a	FALL	A						
5	Herbimax (COC)		L	1	% v/v	FALL	A						
5	Envive	41.3	WG	2.5	oz/a	7 EPP	B						
5	2,4-D Ester	4	L	1	pt/a	7 EPP	B						
5	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	B						
5	Ammonium Sulfate		WG	17	lb/100 gal	7 EPP	B						
6	Envive	41.3	WG	4.5	oz/a	FALL	A	99	83	95	73	97	99
6	2,4-D Ester	4	L	1	pt/a	FALL	A						
6	Herbimax (COC)		L	1	% v/v	FALL	A						
7	Envive	41.3	WG	4.5	oz/a	7 EPP	B	99	99	99	49	99	99
7	2,4-D Ester	4	L	1	pt/a	7 EPP	B						
7	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	B						
7	Ammonium Sulfate		WG	17	lb/100 gal	7 EPP	B						
8	Envive	41.3	WG	2.5	oz/a	7 EPP	B	99	99	99	53	99	99
8	2,4-D Ester	4	L	1	pt/a	7 EPP	B						
8	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	B						
8	Ammonium Sulfate		WG	17	lb/100 gal	7 EPP	B						
9	Roundup PowerMax	4.5	SL	11	fl oz/a	FALL	A	99	99	99	99	99	99
9	2,4-D Ester	4	L	1	pt/a	FALL	A						
9	Ammonium Sulfate		WG	17	lb/100 gal	FALL	A						
9	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	B						
9	2,4-D Ester	4	L	1	pt/a	7 EPP	B						
9	Ammonium Sulfate		WG	17	lb/100 gal	7 EPP	B						
10	Untreated							0	0	0	0	0	0
11	Roundup PowerMax	4.5	SL	22	fl oz/a	FALL	A	99	98	98	99	99	99
11	Rage D-Tech	4.06	L	12	fl oz/a	FALL	A						
11	Spartan	4	L	8	fl oz/a	FALL	A						
11	Command 3 ME	3	L	32	fl oz/a	FALL	A						
11	Ammonium Sulfate		WG	17	lb/100 gal	FALL	A						

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Conducted: C-13E Crops Investigator: Christy Sprague

Table with columns: Weed Code, Crop Code, Rating Data Type, Rating Unit, Rating Date, Trt-Eval Interval, # Subsamples, Dec., CAPBP, TAROF, ERICA, MELAL, POROL, CHEAL. Rows include treatments like Roundup PowerMax, Rage D-Tech, Spartan, Command 3 ME, and Ammonium Sulfate across various trials (12-16).

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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								AMBEL	GLXMA	NO-TILL	TAROF	ERICA	MELAL
								control	injury	WEEDS	control	control	control
								percent	percent	control	percent	percent	percent
								6/3/2011	6/15/2011	6/27/2011	6/27/2011	6/27/2011	6/27/2011
								207 DA-A	219 DA-A	231 DA-A	231 DA-A	231 DA-A	231 DA-A
								0	0	0	0	0	0
#	Treatment	Form	Form	Rate	Rate	Grow	Appl						
No.	Name	Conc	Type	Unit	Unit	Stg	Code						
1	Roundup PowerMax	4.5	SL	22	fl oz/a	FALL	A	0	0	92	97	98	98
1	2,4-D Ester	4	L	1	pt/a	FALL	A						
1	Ammonium Sulfate		WG	17	lb/100 gal	FALL	A						
2	Envive	41.3	WG	2.5	oz/a	FALL	A	91	0	95	91	99	89
2	2,4-D Ester	4	L	1	pt/a	FALL	A						
2	Herbimax (COC)		L	1	% v/v	FALL	A						
3	Envive	41.3	WG	2.5	oz/a	FALL	A	99	0	98	99	99	97
3	2,4-D Ester	4	L	1	pt/a	FALL	A						
3	Herbimax (COC)		L	1	% v/v	FALL	A						
3	Envive	41.3	WG	2.5	oz/a	FALL	A						
3	2,4-D Ester	4	L	1	pt/a	7 EPP	B						
3	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	B						
3	Ammonium Sulfate		WG	17	lb/100 gal	7 EPP	B						
4	Canopy EX	29.5	WG	1.1	oz/a	FALL	A	87	0	96	98	98	98
4	2,4-D Ester	4	L	1	pt/a	FALL	A						
4	Herbimax (COC)		L	1	% v/v	FALL	A						
5	Canopy EX	29.5	WG	1.1	oz/a	FALL	A	99	0	99	99	99	99
5	2,4-D Ester	4	L	1	pt/a	FALL	A						
5	Herbimax (COC)		L	1	% v/v	FALL	A						
5	Envive	41.3	WG	2.5	oz/a	7 EPP	B						
5	2,4-D Ester	4	L	1	pt/a	7 EPP	B						
5	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	B						
5	Ammonium Sulfate		WG	17	lb/100 gal	7 EPP	B						
6	Envive	41.3	WG	4.5	oz/a	FALL	A	99	0	89	96	99	79
6	2,4-D Ester	4	L	1	pt/a	FALL	A						
6	Herbimax (COC)		L	1	% v/v	FALL	A						
7	Envive	41.3	WG	4.5	oz/a	7 EPP	B	99	0	81	99	99	57
7	2,4-D Ester	4	L	1	pt/a	7 EPP	B						
7	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	B						
7	Ammonium Sulfate		WG	17	lb/100 gal	7 EPP	B						
8	Envive	41.3	WG	2.5	oz/a	7 EPP	B	99	0	76	99	99	62
8	2,4-D Ester	4	L	1	pt/a	7 EPP	B						
8	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	B						
8	Ammonium Sulfate		WG	17	lb/100 gal	7 EPP	B						
9	Roundup PowerMax	4.5	SL	11	fl oz/a	FALL	A	98	0	98	98	99	99
9	2,4-D Ester	4	L	1	pt/a	FALL	A						
9	Ammonium Sulfate		WG	17	lb/100 gal	FALL	A						
9	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	B						
9	2,4-D Ester	4	L	1	pt/a	7 EPP	B						
9	Ammonium Sulfate		WG	17	lb/100 gal	7 EPP	B						
10	Untreated							0	0	0	0	0	0
11	Roundup PowerMax	4.5	SL	22	fl oz/a	FALL	A	81	0	97	99	99	99
11	Rage D-Tech	4.06	L	12	fl oz/a	FALL	A						
11	Spartan	4	L	8	fl oz/a	FALL	A						
11	Command 3 ME	3	L	32	fl oz/a	FALL	A						
11	Ammonium Sulfate		WG	17	lb/100 gal	FALL	A						

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Table with columns: Weed Code, Crop Code, Rating Data Type, Rating Unit, Rating Date, Trt-Eval Interval, # Subsamples, Dec., and treatment details (Trt No., Treatment Name, Form Conc, Form Type, Rate, Unit, Grow Stg, Appl Code) and results (AMBEL, GLXMA, NO-TILL WEEDS, TAROF, ERICA, MELAL).

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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 Conducted: C-13E Crops Investigator: Christy Sprague

								ANGR	CHEAL	AMBEL	ANGR	CHEAL	AMBEL
Weed Code													
Crop Code													
Rating Data Type								control	control	control	control	control	control
Rating Unit								percent	percent	percent	percent	percent	percent
Rating Date								6/27/2011	6/27/2011	6/27/2011	7/31/2011	7/31/2011	7/31/2011
Trt-Eval Interval								231 DA-A	231 DA-A	231 DA-A	265 DA-A	265 DA-A	265 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	Roundup PowerMax	4.5	SL	22	fl oz/a	FALL	A	0	0	0	99	99	99
1	2,4-D Ester	4	L	1	pt/a	FALL	A						
1	Ammonium Sulfate		WG	17	lb/100 gal	FALL	A						
2	Envive	41.3	WG	2.5	oz/a	FALL	A	88	99	98	99	99	99
2	2,4-D Ester	4	L	1	pt/a	FALL	A						
2	Herbimax (COC)		L	1	% v/v	FALL	A						
3	Envive	41.3	WG	2.5	oz/a	FALL	A	99	99	99	99	99	99
3	2,4-D Ester	4	L	1	pt/a	FALL	A						
3	Herbimax (COC)		L	1	% v/v	FALL	A						
3	Envive	41.3	WG	2.5	oz/a	FALL	A						
3	2,4-D Ester	4	L	1	pt/a	7 EPP	B						
3	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	B						
3	Ammonium Sulfate		WG	17	lb/100 gal	7 EPP	B						
4	Canopy EX	29.5	WG	1.1	oz/a	FALL	A	66	99	96	99	99	99
4	2,4-D Ester	4	L	1	pt/a	FALL	A						
4	Herbimax (COC)		L	1	% v/v	FALL	A						
5	Canopy EX	29.5	WG	1.1	oz/a	FALL	A	99	99	99	99	99	99
5	2,4-D Ester	4	L	1	pt/a	FALL	A						
5	Herbimax (COC)		L	1	% v/v	FALL	A						
5	Envive	41.3	WG	2.5	oz/a	7 EPP	B						
5	2,4-D Ester	4	L	1	pt/a	7 EPP	B						
5	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	B						
5	Ammonium Sulfate		WG	17	lb/100 gal	7 EPP	B						
6	Envive	41.3	WG	4.5	oz/a	FALL	A	98	99	99	99	99	99
6	2,4-D Ester	4	L	1	pt/a	FALL	A						
6	Herbimax (COC)		L	1	% v/v	FALL	A						
7	Envive	41.3	WG	4.5	oz/a	7 EPP	B	99	99	99	99	99	99
7	2,4-D Ester	4	L	1	pt/a	7 EPP	B						
7	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	B						
7	Ammonium Sulfate		WG	17	lb/100 gal	7 EPP	B						
8	Envive	41.3	WG	2.5	oz/a	7 EPP	B	98	99	99	99	99	99
8	2,4-D Ester	4	L	1	pt/a	7 EPP	B						
8	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	B						
8	Ammonium Sulfate		WG	17	lb/100 gal	7 EPP	B						
9	Roundup PowerMax	4.5	SL	11	fl oz/a	FALL	A	53	76	98	99	99	99
9	2,4-D Ester	4	L	1	pt/a	FALL	A						
9	Ammonium Sulfate		WG	17	lb/100 gal	FALL	A						
9	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	B						
9	2,4-D Ester	4	L	1	pt/a	7 EPP	B						
9	Ammonium Sulfate		WG	17	lb/100 gal	7 EPP	B						
10	Untreated							0	0	0	99	99	99
11	Roundup PowerMax	4.5	SL	22	fl oz/a	FALL	A	96	99	82	99	99	99
11	Rage D-Tech	4.06	L	12	fl oz/a	FALL	A						
11	Spartan	4	L	8	fl oz/a	FALL	A						
11	Command 3 ME	3	L	32	fl oz/a	FALL	A						
11	Ammonium Sulfate		WG	17	lb/100 gal	FALL	A						



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Weed Code	ANGR	CHEAL	AMBEL	ANGR	CHEAL	AMBEL
Crop Code						
Rating Data Type	control	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Rating Date	6/27/2011	6/27/2011	6/27/2011	7/31/2011	7/31/2011	7/31/2011
Trt-Eval Interval	231 DA-A	231 DA-A	231 DA-A	265 DA-A	265 DA-A	265 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						
12	Roundup PowerMax	4.5	SL	22	fl oz/a	FALL	A	97	99	67	99	99	99
12	Rage D-Tech	4.06	L	12	fl oz/a	FALL	A						
12	Spartan	4	L	10.6	fl oz/a	FALL	A						
12	Command 3 ME	3	L	10.6	fl oz/a	FALL	A						
12	Ammonium Sulfate		WG	17	lb/100 gal	FALL	A						
13	Roundup PowerMax	4.5	SL	22	fl oz/a	FALL	A	86	99	74	99	99	99
13	Rage D-Tech	4.06	L	12	fl oz/a	FALL	A						
13	Spartan	4	L	8	fl oz/a	FALL	A						
13	Command 3 ME	3	L	8	fl oz/a	FALL	A						
13	Ammonium Sulfate		WG	17	lb/100 gal	FALL	A						
14	Roundup PowerMax	4.5	SL	22	fl oz/a	FALL	A	91	99	86	99	99	99
14	Rage D-Tech	4.06	L	12	fl oz/a	FALL	A						
14	Spartan	4	L	6	fl oz/a	FALL	A						
14	Command 3 ME	3	L	6	fl oz/a	FALL	A						
14	Ammonium Sulfate		WG	17	lb/100 gal	FALL	A						
15	Roundup PowerMax	4.5	SL	22	fl oz/a	FALL	A	94	99	91	99	99	99
15	Rage D-Tech	4.06	L	12	fl oz/a	FALL	A						
15	Authority XL	70	WG	3.2	oz/a	FALL	A						
15	Ammonium Sulfate		WG	17	lb/100 gal	FALL	A						
16	Roundup PowerMax	4.5	SL	22	fl oz/a	FALL	A	95	99	88	99	99	99
16	Rage D-Tech	4.06	L	12	fl oz/a	FALL	A						
16	Authority XL	70	WG	4	oz/a	FALL	A						
16	Ammonium Sulfate		WG	17	lb/100 gal	FALL	A						

LSD (P=.05)	24.2	15.7	18.5	0.4	0.0	0.0
Standard Deviation	16.9	11.0	13.0	0.3	0.0	0.0
CV	21.54	12.93	16.29	0.25	0.0	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.

## MSU Weed Science Research Program

Comparison of fall-herbicide treatments in no-till soybean

Trial ID: FSB01-11 Study Dir.: Sprague, Powell  
 Conducted: C-13E Crops Investigator: Christy Sprague

Weed Code	Crop Code	Rating Data Type	Rating Unit	Rating Date	Trt-Eval Interval	# Subsamples, Dec.	GLXMA moisture percent	GLXMA yield bu/acre	
							10/31/2011	10/31/2011	
							357 DA-A	at 13% M	
							1	1	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code		
1	Roundup PowerMax	4.5	SL	22	fl oz/a	FALL	A	14.5	65.4
1	2,4-D Ester	4	L	1	pt/a	FALL	A		
1	Ammonium Sulfate		WG	17	lb/100 gal	FALL	A		
2	Envive	41.3	WG	2.5	oz/a	FALL	A	14.6	72.3
2	2,4-D Ester	4	L	1	pt/a	FALL	A		
2	Herbimax (COC)		L	1	% v/v	FALL	A		
3	Envive	41.3	WG	2.5	oz/a	FALL	A	14.4	71.9
3	2,4-D Ester	4	L	1	pt/a	FALL	A		
3	Herbimax (COC)		L	1	% v/v	FALL	A		
3	Envive	41.3	WG	2.5	oz/a	FALL	A		
3	2,4-D Ester	4	L	1	pt/a	7 EPP	B		
3	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	B		
3	Ammonium Sulfate		WG	17	lb/100 gal	7 EPP	B		
4	Canopy EX	29.5	WG	1.1	oz/a	FALL	A	14.4	70.5
4	2,4-D Ester	4	L	1	pt/a	FALL	A		
4	Herbimax (COC)		L	1	% v/v	FALL	A		
5	Canopy EX	29.5	WG	1.1	oz/a	FALL	A	14.5	73.4
5	2,4-D Ester	4	L	1	pt/a	FALL	A		
5	Herbimax (COC)		L	1	% v/v	FALL	A		
5	Envive	41.3	WG	2.5	oz/a	7 EPP	B		
5	2,4-D Ester	4	L	1	pt/a	7 EPP	B		
5	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	B		
5	Ammonium Sulfate		WG	17	lb/100 gal	7 EPP	B		
6	Envive	41.3	WG	4.5	oz/a	FALL	A	14.5	73.8
6	2,4-D Ester	4	L	1	pt/a	FALL	A		
6	Herbimax (COC)		L	1	% v/v	FALL	A		
7	Envive	41.3	WG	4.5	oz/a	7 EPP	B	14.6	70.5
7	2,4-D Ester	4	L	1	pt/a	7 EPP	B		
7	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	B		
7	Ammonium Sulfate		WG	17	lb/100 gal	7 EPP	B		
8	Envive	41.3	WG	2.5	oz/a	7 EPP	B	14.6	69.6
8	2,4-D Ester	4	L	1	pt/a	7 EPP	B		
8	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	B		
8	Ammonium Sulfate		WG	17	lb/100 gal	7 EPP	B		
9	Roundup PowerMax	4.5	SL	11	fl oz/a	FALL	A	14.5	75.7
9	2,4-D Ester	4	L	1	pt/a	FALL	A		
9	Ammonium Sulfate		WG	17	lb/100 gal	FALL	A		
9	Roundup PowerMax	4.5	SL	22	fl oz/a	7 EPP	B		
9	2,4-D Ester	4	L	1	pt/a	7 EPP	B		
9	Ammonium Sulfate		WG	17	lb/100 gal	7 EPP	B		
10	Untreated							14.7	49.1
11	Roundup PowerMax	4.5	SL	22	fl oz/a	FALL	A	14.6	70.2
11	Rage D-Tech	4.06	L	12	fl oz/a	FALL	A		
11	Spartan	4	L	8	fl oz/a	FALL	A		
11	Command 3 ME	3	L	32	fl oz/a	FALL	A		
11	Ammonium Sulfate		WG	17	lb/100 gal	FALL	A		

## MSU Weed Science Research Program

Comparison of fall-herbicide treatments in no-till soybean

Trial ID: FSB01-11 Study Dir.: Sprague, Powell  
 Conducted: C-13E Crops Investigator: Christy Sprague

## Weed Code

Crop Code

Rating Data Type

Rating Unit

Rating Date

Trt-Eval Interval

# Subsamples, Dec.

GLXMA GLXMA  
 moisture yield  
 percent bu/acre  
 10/31/2011 10/31/2011  
 357 DA-A at 13% M  
 1 1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code		
12	Roundup PowerMax	4.5	SL	22	fl oz/a	FALL	A	14.4	69.4
12	Rage D-Tech	4.06	L	12	fl oz/a	FALL	A		
12	Spartan	4	L	10.6	fl oz/a	FALL	A		
12	Command 3 ME	3	L	10.6	fl oz/a	FALL	A		
12	Ammonium Sulfate		WG	17	lb/100 gal	FALL	A		
13	Roundup PowerMax	4.5	SL	22	fl oz/a	FALL	A	14.6	71.2
13	Rage D-Tech	4.06	L	12	fl oz/a	FALL	A		
13	Spartan	4	L	8	fl oz/a	FALL	A		
13	Command 3 ME	3	L	8	fl oz/a	FALL	A		
13	Ammonium Sulfate		WG	17	lb/100 gal	FALL	A		
14	Roundup PowerMax	4.5	SL	22	fl oz/a	FALL	A	14.3	71.5
14	Rage D-Tech	4.06	L	12	fl oz/a	FALL	A		
14	Spartan	4	L	6	fl oz/a	FALL	A		
14	Command 3 ME	3	L	6	fl oz/a	FALL	A		
14	Ammonium Sulfate		WG	17	lb/100 gal	FALL	A		
15	Roundup PowerMax	4.5	SL	22	fl oz/a	FALL	A	14.5	70.8
15	Rage D-Tech	4.06	L	12	fl oz/a	FALL	A		
15	Authority XL	70	WG	3.2	oz/a	FALL	A		
15	Ammonium Sulfate		WG	17	lb/100 gal	FALL	A		
16	Roundup PowerMax	4.5	SL	22	fl oz/a	FALL	A	14.5	71.0
16	Rage D-Tech	4.06	L	12	fl oz/a	FALL	A		
16	Authority XL	70	WG	4	oz/a	FALL	A		
16	Ammonium Sulfate		WG	17	lb/100 gal	FALL	A		
LSD (P=.05)								0.30	6.01
Standard Deviation								0.21	4.21
CV								1.47	6.03

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.