

Southern Illinois University

Glyphosate-Resistant Weed Burndown - DuPont.

Trial ID: 12-FagerS-DuPontBD
 Location: Murphysboro, IL

Investigator: Bryan Young

General Trial Information	
Study Director: Bryan Young	Title: Professor
Investigator: Bryan Young	
Trial Status: F - one-year/final	
Initiation Date: 4-17-12	
Trial Location	
City: Murphysboro	
State/Prov.: IL	
Postal Code: 62966	
Country: USA	

Objectives: Evaluate Canopy, Canopy EX and Envive plus Sharpen for burndown of glyphosate-resistant weeds.
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Personnel	
Study Director: Bryan Young	Title: Professor
Investigator: Bryan Young	
Affiliation: Southern Illinois University	
Address: 1205 Lincoln Drive - AG 176 - MC 4415	
Location: Carbondale IL	
Postal Code: 62901	E-mail: bgyoung@siu.edu
Phone No.: 618-453-7679	Mobile No.: 618-713-6471

Crop Description	
Crop 1: GLXMA Glycine max Soybean	Description: RR2Y
Variety: AG3832	Planting Date: 5-1-12
BBCH Scale: BSOY	Rate, Unit: 155000 S/A
Planting Method: SEEDED Seeded	
Depth, Unit: 2 IN	
Row Spacing, Unit: 30 IN	

Pest Description	
Pest 1 Type: W Code: ERICA - Conyza canadensis (L.) Crong.	
Common Name: horseweed	
Description: glyphosate-resistant marestail	
Pest 2 Type: W Code: AMATA - Amaranthus rudis Sauer	
Common Name: waterhemp, common	
Description: glyphosate-resistant waterhemp	

Site and Design	
Plot Width, Unit: 10 FT	Site Type: FIELD field
Plot Length, Unit: 30 FT	
Plot Area, Unit: 300 FT2	Tillage Type: NOTILL no-till
Replications: 3	Study Design: RACOBL Randomized Complete Block (RCB)

No.	Previous Crop	Year
1.	GLXMA	2011

Maintenance	
No.	Maintenance Treatment Name
1.	N 0 LB/A, P205 0 LB/A, K20 0 LB/A

Soil Description	
% OM: 1.87	Texture: SIL SILT LOAM
pH: 5.5	Soil Name: ALVIN
CEC: 7.06	

Additional Measured Elements		
Element	Quantity	Unit
P1	172	LB/A
K	446	LB/A

Moisture and Weather Conditions	
Overall Moisture Conditions: BELNOR below normal	
Closest Weather Station: SOUTHERN IL AIRPORT (93810)	Distance, Unit: 3.5 MI

Glyphosate-Resistant Weed Burndown - DuPont.

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Location: Murphysboro, IL

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Application Description

	A	B	C
Application Date:	4-17-12	5-2-12	5-29-12
Time of Day:	12:30	8:00	14:45
Application Method:	Spray	Spray	Spray
Application Timing:	14EPP	PRE	28DAP
Application Placement:	BROFOL	BROFOL	BROFOL
Applied By:	JRK	JRK	RJW
Air Temperature, Unit:	67 F	74 F	89 F
% Relative Humidity:	48	76	37
Wind Velocity, Unit:	4 MPH	4 MPH	4 MPH
Wind Direction:	E	S	SE
Dew Presence (Y/N):	N no	Y yes	N no
Soil Temperature, Unit:	61 F	69 F	83 F
Soil Moisture:	ABONOR	NORMAL	NORMAL
% Cloud Cover:	100	0	0
Next Rain Occurred On:	4-27-12	5-6-12	5-31-12

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:	DESC	DESC	DESC
Stage Majority, Percent:	NA	NA	V3
Stage Minimum, Percent:			V2
Stage Maximum, Percent:			V3
Height, Unit:			8 IN
Height Minimum, Maximum:			6 8

Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	ERICA W DESC	ERICA W DESC	ERICA W DESC
Stage Majority, Percent:	35	40	20
Stage Minimum, Percent:	2	6	12
Stage Maximum, Percent:	50+	50+	40
Height, Unit:	8 IN	10 IN	8 IN
Height Minimum, Maximum:	0.5 12	1 19	4 16
Density, Unit:	10 FT2	10 FT2	10 FT2
Pest 2 Code, Type, Scale:	AMATA W DESC	AMATA W DESC	AMATA W DESC
Stage Majority, Percent:	NA	NA	8
Stage Minimum, Percent:			4
Stage Maximum, Percent:			12
Height, Unit:			4 IN
Height Minimum, Maximum:			1 8
Density, Unit:			0.5 FT2

Application Equipment

	A	B	C
Appl. Equipment:	CO2 sprayer	CO2 sprayer	CO2 sprayer
Equipment Type:	BACSPR	BACSPR	BACSPR
Operation Pressure, Unit:	30 PSI	30 PSI	30 PSI
Nozzle Type:	XR	XR	XR
Nozzle Size:	8002	8002	8002
Boom Length, Unit:	6.67 FT	6.67 FT	6.67 FT
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA

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Pest Code								GLXMA	GLXMA	GLXMA		
Crop Code								5-15-12	5-29-12	6-26-12		
Rating Date								Injury	Injury	Injury		
Rating Type								Percent	Percent	Percent		
Rating Unit								14 DAP	28 DAP	28 DAP		
Rating Timing								13 DA-B	27 DA-B	28 DA-C		
Trt-Eval Interval												
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
1	CANOPY EX	29.5	WG	0.0277	lb ai/a	1.5	oz/a	14EPP A		0 a	0 a	0 a
	SHARPEN	2.85	SC	0.0223	lb ai/a		1 fl oz/a	14EPP A				
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a		32 fl oz/a	14EPP A				
	MSO (MSO ULTRA)	100	SL		1 % v/v		1 % v/v	14EPP A				
	N-PAK AMS	100	SL		2.5 % v/v		2.5 % v/v	14EPP A				
	CINCH	7.64	SC	0.955	lb ai/a		1 pt/a	28DAP C				
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a		32 fl oz/a	28DAP C				
	N-PAK AMS	100	SL		2.5 % v/v		2.5 % v/v	28DAP C				
2	CANOPY EX	29.5	WG	0.0277	lb ai/a	1.5	oz/a	14EPP A		0 a	0 a	0 a
	2,4-D LV 4	3.8	EC	0.475	lb ae/a		1 pt/a	14EPP A				
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a		32 fl oz/a	14EPP A				
	COC (PRIME OIL)	100	SL		1 % v/v		1 % v/v	14EPP A				
	N-PAK AMS	100	SL		2.5 % v/v		2.5 % v/v	14EPP A				
	CINCH	7.64	SC	0.955	lb ai/a		1 pt/a	28DAP C				
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a		32 fl oz/a	28DAP C				
	N-PAK AMS	100	SL		2.5 % v/v		2.5 % v/v	28DAP C				
3	CANOPY	75	WG	0.188	lb ai/a	4	oz/a	14EPP A		0 a	0 a	0 a
	SHARPEN	2.85	SC	0.0223	lb ai/a		1 fl oz/a	14EPP A				
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a		32 fl oz/a	14EPP A				
	MSO (MSO ULTRA)	100	SL		1 % v/v		1 % v/v	14EPP A				
	N-PAK AMS	100	SL		2.5 % v/v		2.5 % v/v	14EPP A				
	CINCH	7.64	SC	0.955	lb ai/a		1 pt/a	28DAP C				
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a		32 fl oz/a	28DAP C				
	N-PAK AMS	100	SL		2.5 % v/v		2.5 % v/v	28DAP C				
4	CANOPY	75	WG	0.188	lb ai/a	4	oz/a	14EPP A		0 a	0 a	0 a
	2,4-D LV 4	3.8	EC	0.475	lb ae/a		1 pt/a	14EPP A				
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a		32 fl oz/a	14EPP A				
	COC (PRIME OIL)	100	SL		1 % v/v		1 % v/v	14EPP A				
	N-PAK AMS	100	SL		2.5 % v/v		2.5 % v/v	14EPP A				
	CINCH	7.64	SC	0.955	lb ai/a		1 pt/a	28DAP C				
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a		32 fl oz/a	28DAP C				
	N-PAK AMS	100	SL		2.5 % v/v		2.5 % v/v	28DAP C				
5	ENVIVE	41.3	WG	0.09	lb ai/a	3.5	oz/a	14EPP A		0 a	0 a	0 a
	SHARPEN	2.85	SC	0.0223	lb ai/a		1 fl oz/a	14EPP A				
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a		32 fl oz/a	14EPP A				
	MSO (MSO ULTRA)	100	SL		1 % v/v		1 % v/v	14EPP A				
	N-PAK AMS	100	SL		2.5 % v/v		2.5 % v/v	14EPP A				
	CINCH	7.64	SC	0.955	lb ai/a		1 pt/a	28DAP C				
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a		32 fl oz/a	28DAP C				
	N-PAK AMS	100	SL		2.5 % v/v		2.5 % v/v	28DAP C				
6	ENVIVE	41.3	WG	0.09	lb ai/a	3.5	oz/a	14EPP A		0 a	0 a	0 a
	2,4-D LV 4	3.8	EC	0.475	lb ae/a		1 pt/a	14EPP A				
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a		32 fl oz/a	14EPP A				
	COC (PRIME OIL)	100	SL		1 % v/v		1 % v/v	14EPP A				
	N-PAK AMS	100	SL		2.5 % v/v		2.5 % v/v	14EPP A				
	CINCH	7.64	SC	0.955	lb ai/a		1 pt/a	28DAP C				
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a		32 fl oz/a	28DAP C				
	N-PAK AMS	100	SL		2.5 % v/v		2.5 % v/v	28DAP C				
7	ENVIVE	41.3	WG	0.103	lb ai/a	4	oz/a	14EPP A		0 a	0 a	0 a
	SHARPEN	2.85	SC	0.0223	lb ai/a		1 fl oz/a	14EPP A				
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a		32 fl oz/a	14EPP A				
	MSO (MSO ULTRA)	100	SL		1 % v/v		1 % v/v	14EPP A				
	N-PAK AMS	100	SL		2.5 % v/v		2.5 % v/v	14EPP A				
	CINCH	7.64	SC	0.955	lb ai/a		1 pt/a	28DAP C				
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a		32 fl oz/a	28DAP C				
	N-PAK AMS	100	SL		2.5 % v/v		2.5 % v/v	28DAP C				

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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Pest Code							GLXMA	GLXMA	GLXMA	
Crop Code							5-15-12	5-29-12	6-26-12	
Rating Date							Injury	Injury	Injury	
Rating Type							Percent	Percent	Percent	
Rating Unit							14 DAP	28 DAP	28 DAP	
Rating Timing							13 DA-B	27 DA-B	28 DA-C	
Trt-Eval Interval										
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code		
8	ENVIVE	41.3	WG	0.103 lb ai/a	4 oz/a		PRE	B	0 a	
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		14EPP	A	0 a	
	ABUNDIT EXTRA	3	SL	0.75 lb ae/a	32 fl oz/a		14EPP	A	0 a	
	COC (PRIME OIL)	100	SL	1 % v/v	1 % v/v		14EPP	A	0 a	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		14EPP	A	0 a	
	CINCH	7.64	SC	0.955 lb ai/a	1 pt/a		28DAP	C	0 a	
	ABUNDIT EXTRA	3	SL	0.75 lb ae/a	32 fl oz/a		28DAP	C	0 a	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		28DAP	C	0 a	
9	CANOPY	75	WG	0.188 lb ai/a	4 oz/a		PRE	B	0 a	
	SHARPEN	2.85	SC	0.0223 lb ai/a	1 fl oz/a		PRE	B	0 a	
	ABUNDIT EXTRA	3	SL	0.75 lb ae/a	32 fl oz/a		PRE	B	0 a	
	MSO (MSO ULTRA)	100	SL	1 % v/v	1 % v/v		PRE	B	0 a	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		PRE	B	0 a	
	CINCH	7.64	SC	0.955 lb ai/a	1 pt/a		28DAP	C	0 a	
	ABUNDIT EXTRA	3	SL	0.75 lb ae/a	32 fl oz/a		28DAP	C	0 a	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		28DAP	C	0 a	
10	ENVIVE	41.3	WG	0.09 lb ai/a	3.5 oz/a		PRE	B	0 a	
	SHARPEN	2.85	SC	0.0223 lb ai/a	1 fl oz/a		PRE	B	0 a	
	ABUNDIT EXTRA	3	SL	0.75 lb ae/a	32 fl oz/a		PRE	B	0 a	
	MSO (MSO ULTRA)	100	SL	1 % v/v	1 % v/v		PRE	B	0 a	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		PRE	B	0 a	
	CINCH	7.64	SC	0.955 lb ai/a	1 pt/a		28DAP	C	0 a	
	ABUNDIT EXTRA	3	SL	0.75 lb ae/a	32 fl oz/a		28DAP	C	0 a	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		28DAP	C	0 a	
11	ENVIVE	41.3	WG	0.103 lb ai/a	4 oz/a		PRE	B	0 a	
	SHARPEN	2.85	SC	0.0223 lb ai/a	1 fl oz/a		PRE	B	0 a	
	ABUNDIT EXTRA	3	SL	0.75 lb ae/a	32 fl oz/a		PRE	B	0 a	
	MSO (MSO ULTRA)	100	SL	1 % v/v	1 % v/v		PRE	B	0 a	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		PRE	B	0 a	
	CINCH	7.64	SC	0.955 lb ai/a	1 pt/a		28DAP	C	0 a	
	ABUNDIT EXTRA	3	SL	0.75 lb ae/a	32 fl oz/a		28DAP	C	0 a	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		28DAP	C	0 a	
12	CANOPY	75	WG	0.188 lb ai/a	4 oz/a		PRE	B	0 a	
	ABUNDIT EXTRA	3	SL	0.75 lb ae/a	32 fl oz/a		PRE	B	0 a	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		PRE	B	0 a	
	CINCH	7.64	SC	0.955 lb ai/a	1 pt/a		28DAP	C	0 a	
	ABUNDIT EXTRA	3	SL	0.75 lb ae/a	32 fl oz/a		28DAP	C	0 a	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		28DAP	C	0 a	
13	ENVIVE	41.3	WG	0.09 lb ai/a	3.5 oz/a		PRE	B	0 a	
	ABUNDIT EXTRA	3	SL	0.75 lb ae/a	32 fl oz/a		PRE	B	0 a	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		PRE	B	0 a	
	CINCH	7.64	SC	0.955 lb ai/a	1 pt/a		28DAP	C	0 a	
	ABUNDIT EXTRA	3	SL	0.75 lb ae/a	32 fl oz/a		28DAP	C	0 a	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		28DAP	C	0 a	
14	ENVIVE	41.3	WG	0.103 lb ai/a	4 oz/a		PRE	B	0 a	
	ABUNDIT EXTRA	3	SL	0.75 lb ae/a	32 fl oz/a		PRE	B	0 a	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		PRE	B	0 a	
	CINCH	7.64	SC	0.955 lb ai/a	1 pt/a		28DAP	C	0 a	
	ABUNDIT EXTRA	3	SL	0.75 lb ae/a	32 fl oz/a		28DAP	C	0 a	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		28DAP	C	0 a	
15	NONTREATED							0 a	0 a	0 a
LSD (P=.05)							0.0	0.0	0.0	
Standard Deviation							0.0	0.0	0.0	
CV							0.0	0.0	0.0	
Replicate F							0.000	0.000	0.000	
Replicate Prob(F)							1.0000	1.0000	1.0000	
Treatment F							0.000	0.000	0.000	
Treatment Prob(F)							1.0000	1.0000	1.0000	

Southern Illinois University

Glyphosate-Resistant Weed Burndown - DuPont.

Trial ID: 12-FagerS-DuPontBD

Location: Murphysboro, IL

Investigator: Bryan Young

Pest Code							ERICA-HR	ERICA-HR	ERICA-HR	ERICA-HR	AMATA-HR	AMATA-HR		
Crop Code							5-1-12	5-15-12	5-29-12	6-26-12	5-29-12	6-26-12		
Rating Date							Control	Control	Control	Control	Control	Control		
Rating Type							Percent	Percent	Percent	Percent	Percent	Percent		
Rating Unit							O DAP	14 DAP	27 DAP	28 DAP	28 DAP	28 DAP		
Rating Timing							14 DA-A	13 DA-B	27 DA-B	28 DA-C	27 DA-B	28 DA-C		
Trt-Eval Interval														
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
1	CANOPY EX	29.5	WG	0.0277 lb ai/a	1.5	oz/a	14EPP A		92 b	97 ab	95 a	94 ab	74 e	77 de
	SHARPEN	2.85	SC	0.0223 lb ai/a	1	fl oz/a	14EPP A							
	ABUNDIT EXTRA	3	SL	0.75 lb ae/a	32	fl oz/a	14EPP A							
	MSO (MSO ULTRA)	100	SL	1 % v/v	1	% v/v	14EPP A							
	N-PAK AMS	100	SL	2.5 % v/v	2.5	% v/v	14EPP A							
	CINCH	7.64	SC	0.955 lb ai/a	1	pt/a	28DAP C							
	ABUNDIT EXTRA	3	SL	0.75 lb ae/a	32	fl oz/a	28DAP C							
	N-PAK AMS	100	SL	2.5 % v/v	2.5	% v/v	28DAP C							
2	CANOPY EX	29.5	WG	0.0277 lb ai/a	1.5	oz/a	14EPP A		71 de	95 ab	97 a	98 a	77 de	77 de
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1	pt/a	14EPP A							
	ABUNDIT EXTRA	3	SL	0.75 lb ae/a	32	fl oz/a	14EPP A							
	COC (PRIME OIL)	100	SL	1 % v/v	1	% v/v	14EPP A							
	N-PAK AMS	100	SL	2.5 % v/v	2.5	% v/v	14EPP A							
	CINCH	7.64	SC	0.955 lb ai/a	1	pt/a	28DAP C							
	ABUNDIT EXTRA	3	SL	0.75 lb ae/a	32	fl oz/a	28DAP C							
	N-PAK AMS	100	SL	2.5 % v/v	2.5	% v/v	28DAP C							
3	CANOPY	75	WG	0.188 lb ai/a	4	oz/a	14EPP A		97 a	97 ab	96 a	96 ab	84 cd	83 cd
	SHARPEN	2.85	SC	0.0223 lb ai/a	1	fl oz/a	14EPP A							
	ABUNDIT EXTRA	3	SL	0.75 lb ae/a	32	fl oz/a	14EPP A							
	MSO (MSO ULTRA)	100	SL	1 % v/v	1	% v/v	14EPP A							
	N-PAK AMS	100	SL	2.5 % v/v	2.5	% v/v	14EPP A							
	CINCH	7.64	SC	0.955 lb ai/a	1	pt/a	28DAP C							
	ABUNDIT EXTRA	3	SL	0.75 lb ae/a	32	fl oz/a	28DAP C							
	N-PAK AMS	100	SL	2.5 % v/v	2.5	% v/v	28DAP C							
4	CANOPY	75	WG	0.188 lb ai/a	4	oz/a	14EPP A		68 e	94 ab	96 a	96 ab	78 de	74 e
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1	pt/a	14EPP A							
	ABUNDIT EXTRA	3	SL	0.75 lb ae/a	32	fl oz/a	14EPP A							
	COC (PRIME OIL)	100	SL	1 % v/v	1	% v/v	14EPP A							
	N-PAK AMS	100	SL	2.5 % v/v	2.5	% v/v	14EPP A							
	CINCH	7.64	SC	0.955 lb ai/a	1	pt/a	28DAP C							
	ABUNDIT EXTRA	3	SL	0.75 lb ae/a	32	fl oz/a	28DAP C							
	N-PAK AMS	100	SL	2.5 % v/v	2.5	% v/v	28DAP C							
5	ENVIVE	41.3	WG	0.09 lb ai/a	3.5	oz/a	14EPP A		94 ab	98 a	97 a	96 ab	90 bc	92 ab
	SHARPEN	2.85	SC	0.0223 lb ai/a	1	fl oz/a	14EPP A							
	ABUNDIT EXTRA	3	SL	0.75 lb ae/a	32	fl oz/a	14EPP A							
	MSO (MSO ULTRA)	100	SL	1 % v/v	1	% v/v	14EPP A							
	N-PAK AMS	100	SL	2.5 % v/v	2.5	% v/v	14EPP A							
	CINCH	7.64	SC	0.955 lb ai/a	1	pt/a	28DAP C							
	ABUNDIT EXTRA	3	SL	0.75 lb ae/a	32	fl oz/a	28DAP C							
	N-PAK AMS	100	SL	2.5 % v/v	2.5	% v/v	28DAP C							
6	ENVIVE	41.3	WG	0.09 lb ai/a	3.5	oz/a	14EPP A		80 c	97 ab	96 a	96 ab	85 cd	87 bc
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1	pt/a	14EPP A							
	ABUNDIT EXTRA	3	SL	0.75 lb ae/a	32	fl oz/a	14EPP A							
	COC (PRIME OIL)	100	SL	1 % v/v	1	% v/v	14EPP A							
	N-PAK AMS	100	SL	2.5 % v/v	2.5	% v/v	14EPP A							
	CINCH	7.64	SC	0.955 lb ai/a	1	pt/a	28DAP C							
	ABUNDIT EXTRA	3	SL	0.75 lb ae/a	32	fl oz/a	28DAP C							
	N-PAK AMS	100	SL	2.5 % v/v	2.5	% v/v	28DAP C							
7	ENVIVE	41.3	WG	0.103 lb ai/a	4	oz/a	14EPP A		96 a	98 ab	96 a	93 bc	91 abc	92 ab
	SHARPEN	2.85	SC	0.0223 lb ai/a	1	fl oz/a	14EPP A							
	ABUNDIT EXTRA	3	SL	0.75 lb ae/a	32	fl oz/a	14EPP A							
	MSO (MSO ULTRA)	100	SL	1 % v/v	1	% v/v	14EPP A							
	N-PAK AMS	100	SL	2.5 % v/v	2.5	% v/v	14EPP A							
	CINCH	7.64	SC	0.955 lb ai/a	1	pt/a	28DAP C							
	ABUNDIT EXTRA	3	SL	0.75 lb ae/a	32	fl oz/a	28DAP C							
	N-PAK AMS	100	SL	2.5 % v/v	2.5	% v/v	28DAP C							

Southern Illinois University

Glyphosate-Resistant Weed Burndown - DuPont.

Trial ID: 12-FagerS-DuPontBD

Location: Murphysboro, IL

Investigator: Bryan Young

Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval								ERICA-HR	ERICA-HR	ERICA-HR	ERICA-HR	AMATA-HR	AMATA-HR		
								5-1-12 Control Percent O DAP 14 DA-A	5-15-12 Control Percent 14 DAP 13 DA-B	5-29-12 Control Percent 28 DAP 27 DA-B	6-26-12 Control Percent 28 DA-C	5-29-12 Control Percent 28 DAP 27 DA-B	6-26-12 Control Percent 28 DA-C		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code						
8	ENVIVE	41.3	WG	0.103	lb ai/a	4	oz/a	14EPP A		73 d	94 b	96 a	95 ab	92 abc	93 ab
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	14EPP A							
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	14EPP A							
	COC (PRIME OIL)	100	SL	1 %	v/v	1 %	v/v	14EPP A							
	N-PAK AMS	100	SL	2.5 %	v/v	2.5 %	v/v	14EPP A							
	CINCH	7.64	SC	0.955	lb ai/a	1	pt/a	28DAP C							
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP C							
	N-PAK AMS	100	SL	2.5 %	v/v	2.5 %	v/v	28DAP C							
9	CANOPY	75	WG	0.188	lb ai/a	4	oz/a	PRE B			97 ab	96 a	93 bc	97 ab	97 a
	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	PRE B							
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	PRE B							
	MSO (MSO ULTRA)	100	SL	1 %	v/v	1 %	v/v	PRE B							
	N-PAK AMS	100	SL	2.5 %	v/v	2.5 %	v/v	PRE B							
	CINCH	7.64	SC	0.955	lb ai/a	1	pt/a	28DAP C							
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP C							
	N-PAK AMS	100	SL	2.5 %	v/v	2.5 %	v/v	28DAP C							
10	ENVIVE	41.3	WG	0.09	lb ai/a	3.5	oz/a	PRE B			97 ab	97 a	96 ab	98 ab	97 a
	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	PRE B							
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	PRE B							
	MSO (MSO ULTRA)	100	SL	1 %	v/v	1 %	v/v	PRE B							
	N-PAK AMS	100	SL	2.5 %	v/v	2.5 %	v/v	PRE B							
	CINCH	7.64	SC	0.955	lb ai/a	1	pt/a	28DAP C							
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP C							
	N-PAK AMS	100	SL	2.5 %	v/v	2.5 %	v/v	28DAP C							
11	ENVIVE	41.3	WG	0.103	lb ai/a	4	oz/a	PRE B			97 ab	97 a	95 ab	97 ab	98 a
	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	PRE B							
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	PRE B							
	MSO (MSO ULTRA)	100	SL	1 %	v/v	1 %	v/v	PRE B							
	N-PAK AMS	100	SL	2.5 %	v/v	2.5 %	v/v	PRE B							
	CINCH	7.64	SC	0.955	lb ai/a	1	pt/a	28DAP C							
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP C							
	N-PAK AMS	100	SL	2.5 %	v/v	2.5 %	v/v	28DAP C							
12	CANOPY	75	WG	0.188	lb ai/a	4	oz/a	PRE B			77 d	78 c	88 d	98 ab	97 a
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	PRE B							
	N-PAK AMS	100	SL	2.5 %	v/v	2.5 %	v/v	PRE B							
	CINCH	7.64	SC	0.955	lb ai/a	1	pt/a	28DAP C							
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP C							
	N-PAK AMS	100	SL	2.5 %	v/v	2.5 %	v/v	28DAP C							
13	ENVIVE	41.3	WG	0.09	lb ai/a	3.5	oz/a	PRE B			82 c	80 bc	89 cd	97 ab	96 a
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	PRE B							
	N-PAK AMS	100	SL	2.5 %	v/v	2.5 %	v/v	PRE B							
	CINCH	7.64	SC	0.955	lb ai/a	1	pt/a	28DAP C							
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP C							
	N-PAK AMS	100	SL	2.5 %	v/v	2.5 %	v/v	28DAP C							
14	ENVIVE	41.3	WG	0.103	lb ai/a	4	oz/a	PRE B			81 cd	82 b	88 d	98 a	97 a
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	PRE B							
	N-PAK AMS	100	SL	2.5 %	v/v	2.5 %	v/v	PRE B							
	CINCH	7.64	SC	0.955	lb ai/a	1	pt/a	28DAP C							
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	28DAP C							
	N-PAK AMS	100	SL	2.5 %	v/v	2.5 %	v/v	28DAP C							
15	NONTREATED									0 f	57 e	60 d	71 e	80 de	92 ab
LSD (P=.05)								3.3	4.1	3.0	4.1	8.5	6.9		
Standard Deviation								1.9	2.5	1.8	2.4	5.1	4.1		
CV								2.52	2.73	2.0	2.65	5.7	4.6		
Replicate F								1.012	0.338	0.993	1.032	1.182	2.344		
Replicate Prob(F)								0.3857	0.7161	0.3832	0.3695	0.3215	0.1145		
Treatment F								773.658	67.237	107.630	22.069	8.812	12.151		
Treatment Prob(F)								0.0001	0.0001	0.0001	0.0001	0.0001	0.0001		

Glyphosate-Resistant Weed Burndown - DuPont.

Trial ID: 12-FagerS-DuPontBD

Location: Murphysboro, IL

Investigator: Bryan Young

Trial Comments

1. Protocol: DuPont (USA-12-118).
2. Ratings: CI 14 and 28 DAP. WC at planting, 14 and 28 DAP, 28 DA POST.
3. Blanket application of glyphosate (Roundup WeatherMax 44 fl oz/A) plus AMS (17 lb/100gal) was applied at planting, 10 ft wide to all plots, on 5-1-12.
Application C (28DAP) was applied as a blanket to all plots including the nontreated.
4. DAP = Days after planting.
5. Not harvested.