

Southern Illinois University

General Evaluation of Fall- and Spring-Applied Residual Herbicides in Soybean.

Trial ID: 12-YRC-GenFall  
 Location: Young Res. Center

Investigator: Bryan Young

General Trial Information	
<b>Study Director:</b> Bryan Young	<b>Investigator:</b> Bryan Young <b>Title:</b> Professor
<b>Trial Status:</b> F - one-year/final	<b>Initiation Date:</b> 11-23-11
Trial Location	
<b>City:</b> Murphysboro	<b>State/Prov.:</b> IL
<b>Postal Code:</b> 62966	<b>Country:</b> USA

**Objectives:**  
 Evaluate the benefit of residue herbicides applied in the fall and spring for control of winter annual weeds and waterhemp.

Personnel	
<b>Study Director:</b> Bryan Young	<b>Investigator:</b> Bryan Young <b>Title:</b> Professor
<b>Affiliation:</b> Southern Illinois University	<b>Address:</b> 1205 Lincoln Drive - AG 176 - MC 4415
<b>Location:</b> Carbondale IL	<b>Postal Code:</b> 62901
<b>Phone No.:</b> 618-453-7679	<b>Mobile No.:</b> 618-713-6471
<b>E-mail:</b> bgyoung@siu.edu	

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

Pest Description	
<b>Pest 1 Type:</b> W <b>Code:</b> ERICA - Conyza canadensis (L.) Crong.	<b>Common Name:</b> horseweed
	<b>Description:</b> glyphosate-resistant marestail
<b>Pest 2 Type:</b> W <b>Code:</b> LAMAM - Lamium amplexicaule L.	<b>Common Name:</b> henbit
<b>Pest 3 Type:</b> W <b>Code:</b> STEME - Stellaria media (L.) Vill.	<b>Common Name:</b> chickweed, common
<b>Pest 4 Type:</b> W <b>Code:</b> VERAR - Veronica arvensis L.	<b>Common Name:</b> speedwell, corn

Site and Design	
<b>Plot Width, Unit:</b> 10 FT	<b>Site Type:</b> FIELD field
<b>Plot Length, Unit:</b> 30 FT	<b>Plot Area, Unit:</b> 300 FT2
<b>Replications:</b> 4	<b>Tillage Type:</b> NOTILL no-till
	<b>Study Design:</b> RACOB L Randomized Complete Block (RCB)

No.	Previous Crop	Year
1.	ZEAMD	2011

Maintenance	
No.	Maintenance Treatment Name
1.	N 27 LB/A, P205 69 LB/A, K20 90 LB/A

Soil Description	
<b>% OM:</b> 1.82	<b>Texture:</b> SIL SILT LOAM
<b>pH:</b> 6.2	<b>Soil Name:</b> ALVIN
<b>CEC:</b> 6.16	

Additional Measured Elements		
Element	Quantity	Unit
P1	154	LB/A
K	264	LB/A

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

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No.	Date	Amount	Unit	Type	Type Description	Interval	Unit	Min Temp	Max Temp	Temp Unit
1.	4-10-12					7	DAY	30.1	79.2	F
2.	4-13-12	0.22	IN	RAIN	rain					
3.	4-15-12	0.47	IN	RAIN	rain					
4.	4-16-12	0.29	IN	RAIN	rain					
5.	4-17-12					7	DAY	36.7	75.6	F
6.	4-20-12	0.13	IN	RAIN	rain					
7.	4-22-12	0.13	IN	RAIN	rain					
8.	4-24-12					7	DAY	43.7	80.9	F
9.	4-27-12	0.04	IN	RAIN	rain					
10.	4-30-12	0.55	IN	RAIN	rain					
11.	5-1-12					7	DAY	59.1	91.3	F
12.	5-6-12	0.14	IN	RAIN	rain					
13.	5-7-12	0.07	IN	RAIN	rain					
14.	5-8-12					7	DAY	43.3	79	F
15.	5-15-12					7	DAY	44.9	89.1	F
16.	5-20-12	0.93	IN	RAIN	rain					
17.	5-22-12					7	DAY	45.5	92.8	F
18.	5-29-12					7	DAY	46.3	89.8	F
19.	5-30-12	0.02	IN	RAIN	rain					
20.	5-31-12	0.14	IN	RAIN	rain					
21.	6-4-12	0.49	IN	RAIN	rain					
22.	6-5-12					7	DAY	48.5	88.8	F
23.	6-11-12	0.21	IN	RAIN	rain					
24.	6-12-12					7	DAY	49.8	91.1	F
25.	6-17-12	0.03	IN	RAIN	rain					
26.	6-19-12					7	DAY	55.4	96.4	F
27.	6-26-12					7	DAY	51.1	105.4	F
28.	7-3-12					7	DAY	71.1	105	F
29.	7-8-12	0.07	IN	RAIN	rain					
30.	7-9-12	0.12	IN	RAIN	rain					
31.	7-10-12					7	DAY	65.9	93.9	F
32.	7-14-12	0.02	IN	RAIN	rain					
33.	7-17-12					7	DAY	60	102.3	F
34.	7-17-12	0.03	IN	RAIN	rain					
35.	7-24-12					7	DAY	64.1	102.1	F
36.	7-26-12	1.41	IN	RAIN	rain					
37.	7-29-12	0.24	IN	RAIN	rain					
38.	7-31-12					7	DAY	62.7	97.9	F
39.	8-2-12	0.08	IN	RAIN	rain					
40.	8-4-12	3.29	IN	RAIN	rain					
41.	8-5-12	0.21	IN	RAIN	rain					
42.	8-7-12					7	DAY	54.1	97.2	F

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Application Description				
	A	B	C	D
Application Date:	11-23-11	4-24-12	5-25-12	5-31-12
Time of Day:	14:30	8:30	6:30	9:00
Application Method:	Spray	Spray	Spray	Spray
Application Timing:	FALL	7DBP	V1-V2	V2-V4
Application Placement:	BROFOL	BROFOL	BROFOL	BROFOL
Applied By:	LAH	JRK	JRK	LAH
Air Temperature, Unit:	52 F	59 F	77 F	79 F
% Relative Humidity:	74	53	78	61
Wind Velocity, Unit:	2 MPH	2 MPH	4 MPH	2 MPH
Wind Direction:	E	SW	S	N
Dew Presence (Y/N):	N no	Y yes	N no	N no
Soil Temperature, Unit:	51 F	52 F	73 F	70 F
Soil Moisture:	ABONOR	NORMAL	BELNOR	NORMAL
% Cloud Cover:	100	95	75	50
Next Rain Occurred On:	11-26-12	4-27-12	5-31-12	6-4-12

Crop Stage At Each Application				
	A	B	C	D
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:	DESC	DESC	DESC	DESC
Stage Majority, Percent:	NA	NA	V2	V4
Stage Minimum, Percent:			V1	V2
Stage Maximum, Percent:			V2	V4
Height, Unit:			6 IN	8 IN
Height Minimum, Maximum:			4 6	4 8

Pest Stage At Each Application				
	A	B	C	D
Pest 1 Code, Type, Scale:	ERICA W DESC	ERICA W DESC	ERICA W DESC	ERICA W DESC
Stage Majority, Percent:	10	25	12	20
Stage Minimum, Percent:	5	6	10	10
Stage Maximum, Percent:	15	40	50+	50+
Height, Unit:	0.5 IN	4 IN	4 IN	8 IN
Height Minimum, Maximum:	0.5 1.5	0.5 8	3 18	4 22
Density, Unit:	1 FT2	0.5 FT2	0.3 FT2	0.1 FT2
Pest 2 Code, Type, Scale:	LAMAM W DESC	LAMAM W DESC	LAMAM W DESC	LAMAM W DESC
Stage Majority, Percent:	8	NA	NA	NA
Stage Minimum, Percent:	2			
Stage Maximum, Percent:	10			
Height, Unit:	2 IN			
Height Minimum, Maximum:	0.5 4			
Density, Unit:	1 FT2			
Pest 3 Code, Type, Scale:	STEME W DESC	STEME W DESC	STEME W DESC	STEME W DESC
Stage Majority, Percent:	15	NA	NA	NA
Stage Minimum, Percent:	4			
Stage Maximum, Percent:	20			
Height, Unit:	0.5 IN			
Height Minimum, Maximum:	0.5 1			
Density, Unit:	0.8 FT2			
Pest 4 Code, Type, Scale:	VERAR W DESC	VERAR W DESC	VERAR W DESC	VERAR W DESC
Stage Majority, Percent:	NA	50+	NA	NA
Stage Minimum, Percent:		30		
Stage Maximum, Percent:		50+		
Height, Unit:		9 IN		
Height Minimum, Maximum:		8 10		
Density, Unit:		20 FT2		

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

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Pest Code		Crop Code		Rating Date		GLXMA 10-16-12	GLXMA 5-15-12	GLXMA 5-31-12	GLXMA 6-28-12
Rating Type		Rating Unit		Rating Timing		Yield bu/A	Injury Percent 14 DAP	Injury Percent 6 DA-C	Injury Percent 34 DA-C
Trt- Eval Interval							21 DA-B	0 DA-D	28 DA-D
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code
1	NONTREATED								
2	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	FALL	A
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A
	2,4-D LV 4	3.8	EC	0.95	lb ae/a	1	qt/a	FALL	A
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A
3	FIERCE	76	WG	0.143	lb ai/a	3	oz/a	FALL	A
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A
	2,4-D LV 4	3.8	EC	0.95	lb ae/a	1	qt/a	FALL	A
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A
4	VALOR XLT	40.3	WG	0.101	lb ai/a	4	oz/a	FALL	A
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A
	2,4-D LV 4	3.8	EC	0.95	lb ae/a	1	qt/a	FALL	A
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A
5	VALOR SX	51	WG	0.056	lb ai/a	1.76	oz/a	FALL	A
	CLASSIC	25	WG	0.0194	lb ai/a	1.25	oz/a	FALL	A
	V-10206	85	WG	0.053	lb ai/a	1	oz/a	FALL	A
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A
	2,4-D LV 4	3.8	EC	0.95	lb ae/a	1	qt/a	FALL	A
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A
6	VALOR XLT	40.3	WG	0.0756	lb ai/a	3	oz/a	FALL	A
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A
	2,4-D LV 4	3.8	EC	0.95	lb ae/a	1	qt/a	FALL	A
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A
	VALOR XLT	40.3	WG	0.0756	lb ai/a	3	oz/a	7DBP	B
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP	B
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	7DBP	B
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7DBP	B
7	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	FALL	A
	V50112	50	WG	0.089	lb ai/a	2.85	oz/a	FALL	A
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A
	2,4-D LV 4	3.8	EC	0.95	lb ae/a	1	qt/a	FALL	A
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FALL	A
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A
8	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	FALL	A
	V50112	50	WG	0.089	lb ai/a	2.85	oz/a	FALL	A
	NIS (ACTIVATOR 90)	100	SL	0.25	% v/v	0.25	% v/v	FALL	A
9	AUTHORITY XL	70	WG	0.175	lb ai/a	4	oz/a	FALL	A
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	D
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-V4	D
10	AUTHORITY XL	70	WG	0.175	lb ai/a	4	oz/a	FALL	A
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A
	AUTHORITY XL	70	WG	0.175	lb ai/a	4	oz/a	7DBP	B
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP	B
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7DBP	B
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	D
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-V4	D

Means followed by same letter do not significantly differ (P=0.05, 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	GLXMA			
Crop Code							10-16-12	5-15-12	5-31-12	6-28-12			
Rating Date							Yield	Injury	Injury	Injury			
Rating Type							bu/A	Percent	Percent	Percent			
Rating Unit								14 DAP	6 DA-C	34 DA-C			
Rating Timing								21 DA-B	0 DA-D	28 DA-D			
Trt-Eval Interval													
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code				
11	AUTHORITY XL	70	WG	0.175	lb ai/a	4	oz/a	FALL	A	10 de	0 a	7 a	0 a
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A				
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A				
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A				
	ANTHEM	2.15	SE	0.101	lb ai/a	6	oz/a	V1-V2	C				
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V1-V2	C				
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V1-V2	C				
12	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	32 c	0 a	0 c	0 a
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A				
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A				
	VALOR XLT	40.3	WG	0.101	lb ai/a	4	oz/a	7DBP	B				
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP	B				
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7DBP	B				
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	D				
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-V4	D				
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	35 bc	0 a	0 c	0 a
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A				
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A				
	AUTHORITY XL	70	WG	0.35	lb ai/a	8	oz/a	7DBP	B				
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP	B				
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7DBP	B				
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	D				
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-V4	D				
14	CANOPY EX	29.5	WG	0.037	lb ai/a	2	oz/a	FALL	A	44 a	0 a	0 c	0 a
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A				
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A				
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A				
	AUTHORITY FIRST	70	WG	0.28	lb ai/a	6.4	oz/a	7DBP	B				
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP	B				
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	7DBP	B				
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7DBP	B				
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	D				
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-V4	D				
15	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	41 ab	0 a	0 c	0 a
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A				
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A				
	VALOR XLT	40.3	WG	0.101	lb ai/a	4	oz/a	7DBP	B				
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP	B				
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	7DBP	B				
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7DBP	B				
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	D				
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-V4	D				
16	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	44 a	0 a	0 c	0 a
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A				
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A				
	AUTHORITY XL	70	WG	0.35	lb ai/a	8	oz/a	7DBP	B				
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP	B				
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	7DBP	B				
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7DBP	B				
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	D				
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-V4	D				
LSD (P=.05)							8.3	0.0	1.2	0.0			
Standard Deviation							5.8	0.0	0.9	0.0			
CV							33.35	0.0	174.8	0.0			
Replicate F							0.361	0.000	0.491	0.000			
Replicate Prob(F)							0.7814	1.0000	0.6904	1.0000			
Treatment F							33.259	0.000	15.055	0.000			
Treatment Prob(F)							0.0001	1.0000	0.0001	1.0000			

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Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval							ERICA-HR	ERICA-HR	ERICA-HR	ERICA-HR	ERICA-HR	ERICA-HR		
							12-14-11 Control Percent	4-1-12 Control Percent	4-23-12 Control Percent	5-1-12 Control Percent 0 DAP 7 DA-B	5-15-12 Control Percent 14 DAP 21 DA-B	5-31-12 Control Percent 6 DA-C 0 DA-D		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
1	NONTREATED								0 g	0 f	0 e	0 g	0 g	0 f
2	VALOR SX	51	WG	0.064 lb ai/a	2 oz/a		FALL A		49 d	86 c	64 b	60 e	53 e	49 d
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		FALL A							
	2,4-D LV 4	3.8	EC	0.95 lb ae/a	1 qt/a		FALL A							
	N-PAK AMS	100	SL	5 % v/v	5 % v/v		FALL A							
3	FIERCE	76	WG	0.143 lb ai/a	3 oz/a		FALL A		54 bc	86 bc	68 b	65 e	59 e	54 d
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		FALL A							
	2,4-D LV 4	3.8	EC	0.95 lb ae/a	1 qt/a		FALL A							
	N-PAK AMS	100	SL	5 % v/v	5 % v/v		FALL A							
4	VALOR XLT	40.3	WG	0.101 lb ai/a	4 oz/a		FALL A		51 bcd	98 a	91 a	89 abc	79 cd	71 c
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		FALL A							
	2,4-D LV 4	3.8	EC	0.95 lb ae/a	1 qt/a		FALL A							
	N-PAK AMS	100	SL	5 % v/v	5 % v/v		FALL A							
5	VALOR SX	51	WG	0.056 lb ai/a	1.76 oz/a		FALL A		49 d	98 a	95 a	93 ab	85 bc	77 c
	CLASSIC	25	WG	0.0194 lb ai/a	1.25 oz/a		FALL A							
	V-10206	85	WG	0.053 lb ai/a	1 oz/a		FALL A							
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		FALL A							
	2,4-D LV 4	3.8	EC	0.95 lb ae/a	1 qt/a		FALL A							
	N-PAK AMS	100	SL	5 % v/v	5 % v/v		FALL A							
6	VALOR XLT	40.3	WG	0.0756 lb ai/a	3 oz/a		FALL A		51 bcd	97 ab	94 a	97 a	98 a	97 a
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		FALL A							
	2,4-D LV 4	3.8	EC	0.95 lb ae/a	1 qt/a		FALL A							
	N-PAK AMS	100	SL	5 % v/v	5 % v/v		FALL A							
	VALOR XLT	40.3	WG	0.0756 lb ai/a	3 oz/a		7DBP B							
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		7DBP B							
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		7DBP B							
	N-PAK AMS	100	SL	5 % v/v	5 % v/v		7DBP B							
7	VALOR SX	51	WG	0.064 lb ai/a	2 oz/a		FALL A		59 a	89 abc	73 b	69 e	58 e	53 d
	V50112	50	WG	0.089 lb ai/a	2.85 oz/a		FALL A							
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		FALL A							
	2,4-D LV 4	3.8	EC	0.95 lb ae/a	1 qt/a		FALL A							
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v		FALL A							
	N-PAK AMS	100	SL	5 % v/v	5 % v/v		FALL A							
8	VALOR SX	51	WG	0.064 lb ai/a	2 oz/a		FALL A		55 ab	38 e	24 d	21 f	20 f	18 e
	V50112	50	WG	0.089 lb ai/a	2.85 oz/a		FALL A							
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v		FALL A							
9	AUTHORITY XL	70	WG	0.175 lb ai/a	4 oz/a		FALL A		53 bcd	96 abc	90 a	88 abc	78 cd	73 c
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		FALL A							
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		FALL A							
	N-PAK AMS	100	SL	5 % v/v	5 % v/v		FALL A							
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		V2-V4 D							
	N-PAK AMS	100	SL	5 % v/v	5 % v/v		V2-V4 D							
10	AUTHORITY XL	70	WG	0.175 lb ai/a	4 oz/a		FALL A		51 bcd	98 a	91 a	94 ab	95 a	95 a
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		FALL A							
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		FALL A							
	N-PAK AMS	100	SL	5 % v/v	5 % v/v		FALL A							
	AUTHORITY XL	70	WG	0.175 lb ai/a	4 oz/a		7DBP B							
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		7DBP B							
	N-PAK AMS	100	SL	5 % v/v	5 % v/v		7DBP B							
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		V2-V4 D							
	N-PAK AMS	100	SL	5 % v/v	5 % v/v		V2-V4 D							

Southern Illinois University

General Evaluation of Fall- and Spring-Applied Residual Herbicides in Soybean.

Trial ID: 12-YRC-GenFall  
 Location: Young Res. Center

Investigator: Bryan Young

Pest Code								ERICA-HR	ERICA-HR	ERICA-HR	ERICA-HR	ERICA-HR	ERICA-HR		
Crop Code								12-14-11	4-1-12	4-23-12	5-1-12	5-15-12	5-31-12		
Rating Date								Control	Control	Control	Control	Control	Control		
Rating Type								Percent	Percent	Percent	Percent	Percent	Percent		
Rating Unit															
Rating Timing															
Trt-Eval Interval								21 DA-A	130 DA-A	-1 DA-B	7 DA-B	14 DAP	21 DA-B	6 DA-C	0 DA-D
Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code							
11	AUTHORITY XL	70	WG	0.175 lb ai/a	4	oz/a	FALL	A	50 cd	97 ab	88 a	87 bcd	74 d	76 c	
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22	fl oz/a	FALL	A							
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1	pt/a	FALL	A							
	N-PAK AMS	100	SL	5 % v/v	5	% v/v	FALL	A							
	ANTHEM	2.15	SE	0.101 lb ai/a	6	oz/a	V1-V2	C							
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22	fl oz/a	V1-V2	C							
	N-PAK AMS	100	SL	5 % v/v	5	% v/v	V1-V2	C							
12	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22	fl oz/a	FALL	A	30 e	37 e	40 c	78 d	90 ab	86 b	
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1	pt/a	FALL	A							
	N-PAK AMS	100	SL	5 % v/v	5	% v/v	FALL	A							
	VALOR XLT	40.3	WG	0.101 lb ai/a	4	oz/a	7DBP	B							
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22	fl oz/a	7DBP	B							
	N-PAK AMS	100	SL	5 % v/v	5	% v/v	7DBP	B							
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22	fl oz/a	V2-V4	D							
	N-PAK AMS	100	SL	5 % v/v	5	% v/v	V2-V4	D							
13	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22	fl oz/a	FALL	A	25 f	58 d	41 c	83 cd	95 a	94 a	
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1	pt/a	FALL	A							
	N-PAK AMS	100	SL	5 % v/v	5	% v/v	FALL	A							
	AUTHORITY XL	70	WG	0.35 lb ai/a	8	oz/a	7DBP	B							
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22	fl oz/a	7DBP	B							
	N-PAK AMS	100	SL	5 % v/v	5	% v/v	7DBP	B							
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22	fl oz/a	V2-V4	D							
	N-PAK AMS	100	SL	5 % v/v	5	% v/v	V2-V4	D							
14	CANOPY EX	29.5	WG	0.037 lb ai/a	2	oz/a	FALL	A	28 ef	98 a	96 a	97 a	98 a	97 a	
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22	fl oz/a	FALL	A							
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1	pt/a	FALL	A							
	N-PAK AMS	100	SL	5 % v/v	5	% v/v	FALL	A							
	AUTHORITY FIRST	70	WG	0.28 lb ai/a	6.4	oz/a	7DBP	B							
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22	fl oz/a	7DBP	B							
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1	pt/a	7DBP	B							
	N-PAK AMS	100	SL	5 % v/v	5	% v/v	7DBP	B							
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22	fl oz/a	V2-V4	D							
	N-PAK AMS	100	SL	5 % v/v	5	% v/v	V2-V4	D							
15	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22	fl oz/a	FALL	A	24 f	53 d	41 c	84 cd	95 a	94 a	
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1	pt/a	FALL	A							
	N-PAK AMS	100	SL	5 % v/v	5	% v/v	FALL	A							
	VALOR XLT	40.3	WG	0.101 lb ai/a	4	oz/a	7DBP	B							
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22	fl oz/a	7DBP	B							
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1	pt/a	7DBP	B							
	N-PAK AMS	100	SL	5 % v/v	5	% v/v	7DBP	B							
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22	fl oz/a	V2-V4	D							
	N-PAK AMS	100	SL	5 % v/v	5	% v/v	V2-V4	D							
16	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22	fl oz/a	FALL	A	28 ef	53 d	41 c	85 bcd	97 a	97 a	
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1	pt/a	FALL	A							
	N-PAK AMS	100	SL	5 % v/v	5	% v/v	FALL	A							
	AUTHORITY XL	70	WG	0.35 lb ai/a	8	oz/a	7DBP	B							
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22	fl oz/a	7DBP	B							
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1	pt/a	7DBP	B							
	N-PAK AMS	100	SL	5 % v/v	5	% v/v	7DBP	B							
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22	fl oz/a	V2-V4	D							
	N-PAK AMS	100	SL	5 % v/v	5	% v/v	V2-V4	D							
LSD (P=.05)								4.8	11.2	10.6	8.9	8.6	7.2		
Standard Deviation								3.4	7.8	7.4	6.3	6.0	5.0		
CV								8.22	10.61	11.45	8.44	8.21	7.16		
Replicate F								1.933	1.740	1.656	2.215	0.809	0.200		
Replicate Prob(F)								0.1379	0.1727	0.1899	0.0994	0.4953	0.8956		
Treatment F								95.227	59.893	65.357	76.259	94.400	135.743		
Treatment Prob(F)								0.0001	0.0001	0.0001	0.0001	0.0001	0.0001		



Southern Illinois University

General Evaluation of Fall- and Spring-Applied Residual Herbicides in Soybean.

Trial ID: 12-YRC-GenFall  
 Location: Young Res. Center

Investigator: Bryan Young

Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval							ERICA-HR	LAMAM	LAMAM	LAMAM	STEME	STEME			
							6-28-12 Control Percent 34 DA-C 28 DA-D	12-14-11 Control Percent 21 DA-A	4-1-12 Control Percent 130 DA-A	4-23-12 Control Percent -1 DA-B	12-14-11 Control Percent 21 DA-A	4-1-12 Control Percent 130 DA-A			
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Rate	Growth Unit	Appl Stage	Code						
1	NONTREATED									0 g	0 g	0 d	0 d	0 f	0 e
2	VALOR SX ROUNDUP POWERMAX 2,4-D LV 4 N-PAK AMS	51 WG 4.5 SL 3.8 EC 100 SL		0.064 lb ai/a 0.77 lb ae/a 0.95 lb ae/a 5 % v/v	2 oz/a 22 fl oz/a 1 qt/a 5 % v/v		FALL FALL FALL FALL	A A A A		35 f	81 abc	93 a	94 a	85 a	99 ab
3	FIERCE ROUNDUP POWERMAX 2,4-D LV 4 N-PAK AMS	76 WG 4.5 SL 3.8 EC 100 SL		0.143 lb ai/a 0.77 lb ae/a 0.95 lb ae/a 5 % v/v	3 oz/a 22 fl oz/a 1 qt/a 5 % v/v		FALL FALL FALL FALL	A A A A		40 f	84 ab	97 a	95 a	91 a	96 ab
4	VALOR XLT ROUNDUP POWERMAX 2,4-D LV 4 N-PAK AMS	40.3 WG 4.5 SL 3.8 EC 100 SL		0.101 lb ai/a 0.77 lb ae/a 0.95 lb ae/a 5 % v/v	4 oz/a 22 fl oz/a 1 qt/a 5 % v/v		FALL FALL FALL FALL	A A A A		69 e	79 bcd	98 a	98 a	88 a	96 ab
5	VALOR SX CLASSIC V-10206 ROUNDUP POWERMAX 2,4-D LV 4 N-PAK AMS	51 WG 25 WG 85 WG 4.5 SL 3.8 EC 100 SL		0.056 lb ai/a 0.0194 lb ai/a 0.053 lb ai/a 0.77 lb ae/a 0.95 lb ae/a 5 % v/v	1.76 oz/a 1.25 oz/a 1 oz/a 22 fl oz/a 1 qt/a 5 % v/v		FALL FALL FALL FALL FALL FALL	A A A A A A		70 e	80 a-d	99 a	99 a	89 a	99 a
6	VALOR XLT ROUNDUP POWERMAX 2,4-D LV 4 N-PAK AMS VALOR XLT ROUNDUP POWERMAX 2,4-D LV 4 N-PAK AMS	40.3 WG 4.5 SL 3.8 EC 100 SL 40.3 WG 4.5 SL 3.8 EC 100 SL		0.0756 lb ai/a 0.77 lb ae/a 0.95 lb ae/a 5 % v/v 0.0756 lb ai/a 0.77 lb ae/a 0.475 lb ae/a 5 % v/v	3 oz/a 22 fl oz/a 1 qt/a 5 % v/v 3 oz/a 22 fl oz/a 1 pt/a 5 % v/v		FALL FALL FALL FALL 7DBP 7DBP 7DBP 7DBP	A A A A B B B B		94 a	79 bcd	96 a	97 a	85 a	97 ab
7	VALOR SX V50112 ROUNDUP POWERMAX 2,4-D LV 4 NIS (ACTIVATOR 90) N-PAK AMS	51 WG 50 WG 4.5 SL 3.8 EC 100 SL 100 SL		0.064 lb ai/a 0.089 lb ai/a 0.77 lb ae/a 0.95 lb ae/a 0.25 % v/v 5 % v/v	2 oz/a 2.85 oz/a 22 fl oz/a 1 qt/a 0.25 % v/v 5 % v/v		FALL FALL FALL FALL FALL FALL	A A A A A A		34 f	85 a	94 a	93 a	85 a	86 c
8	VALOR SX V50112 NIS (ACTIVATOR 90)	51 WG 50 WG 100 SL		0.064 lb ai/a 0.089 lb ai/a 0.25 % v/v	2 oz/a 2.85 oz/a 0.25 % v/v		FALL FALL FALL	A A A		8 g	73 e	38 c	36 c	70 b	48 d
9	AUTHORITY XL ROUNDUP POWERMAX 2,4-D LV 4 N-PAK AMS ROUNDUP POWERMAX N-PAK AMS	70 WG 4.5 SL 3.8 EC 100 SL 4.5 SL 100 SL		0.175 lb ai/a 0.77 lb ae/a 0.475 lb ae/a 5 % v/v 0.77 lb ae/a 5 % v/v	4 oz/a 22 fl oz/a 1 pt/a 5 % v/v 22 fl oz/a 5 % v/v		FALL FALL FALL FALL V2-V4 V2-V4	A A A A D D		73 de	76 cde	99 a	99 a	55 c	99 a
10	AUTHORITY XL ROUNDUP POWERMAX 2,4-D LV 4 N-PAK AMS AUTHORITY XL ROUNDUP POWERMAX N-PAK AMS ROUNDUP POWERMAX N-PAK AMS	70 WG 4.5 SL 3.8 EC 100 SL 70 WG 4.5 SL 100 SL 4.5 SL 100 SL		0.175 lb ai/a 0.77 lb ae/a 0.475 lb ae/a 5 % v/v 0.175 lb ai/a 0.77 lb ae/a 5 % v/v 0.77 lb ae/a 5 % v/v	4 oz/a 22 fl oz/a 1 pt/a 5 % v/v 4 oz/a 22 fl oz/a 5 % v/v 22 fl oz/a 5 % v/v		FALL FALL FALL FALL 7DBP 7DBP 7DBP V2-V4 V2-V4	A A A A B B B D D		94 a	75 de	98 a	96 a	64 b	99 a

Southern Illinois University

General Evaluation of Fall- and Spring-Applied Residual Herbicides in Soybean.

Trial ID: 12-YRC-GenFall  
Location: Young Res. Center

Investigator: Bryan Young

Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval								ERICA-HR	LAMAM	LAMAM	LAMAM	STEME	STEME		
								6-28-12 Control Percent 34 DA-C 28 DA-D	12-14-11 Control Percent 21 DA-A	4-1-12 Control Percent 130 DA-A	4-23-12 Control Percent -1 DA-B	12-14-11 Control Percent 21 DA-A	4-1-12 Control Percent 130 DA-A		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Other Rate	Other Rate	Growth Stage	Appl Code						
11	AUTHORITY XL	70	WG	0.175	lb ai/a	4	oz/a	FALL	A	80 cd	75 de	98 a	97 a	54 c	99 a
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A						
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A						
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A						
	ANTHEM	2.15	SE	0.101	lb ai/a	6	oz/a	V1-V2	C						
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V1-V2	C						
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V1-V2	C						
12	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	85 bc	30 f	55 b	40 c	31 e	94 abc
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A						
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A						
	VALOR XLT	40.3	WG	0.101	lb ai/a	4	oz/a	7DBP	B						
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP	B						
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7DBP	B						
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	D						
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-V4	D						
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	93 ab	31 f	40 c	40 c	34 de	92 abc
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A						
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A						
	AUTHORITY XL	70	WG	0.35	lb ai/a	8	oz/a	7DBP	B						
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP	B						
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7DBP	B						
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	D						
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-V4	D						
14	CANOPY EX	29.5	WG	0.037	lb ai/a	2	oz/a	FALL	A	97 a	35 f	98 a	98 a	40 d	99 a
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A						
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A						
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A						
	AUTHORITY FIRST	70	WG	0.28	lb ai/a	6.4	oz/a	7DBP	B						
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP	B						
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	7DBP	B						
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7DBP	B						
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	D						
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-V4	D						
15	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	95 a	34 f	55 b	53 b	31 e	91 bc
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A						
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A						
	VALOR XLT	40.3	WG	0.101	lb ai/a	4	oz/a	7DBP	B						
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP	B						
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	7DBP	B						
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7DBP	B						
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	D						
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-V4	D						
16	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	96 a	31 f	48 bc	48 bc	34 de	95 ab
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A						
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A						
	AUTHORITY XL	70	WG	0.35	lb ai/a	8	oz/a	7DBP	B						
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP	B						
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	7DBP	B						
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7DBP	B						
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	D						
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-V4	D						
LSD (P=.05)								8.5	5.6	10.7	11.5	6.4	7.6		
Standard Deviation								6.0	3.9	7.5	8.0	4.5	5.3		
CV								9.01	6.56	9.95	10.86	7.67	6.16		
Replicate F								0.461	4.310	1.050	1.252	10.329	1.404		
Replicate Prob(F)								0.7112	0.0094	0.3796	0.3022	0.0001	0.2541		
Treatment F								119.671	195.469	69.581	64.163	154.194	96.968		
Treatment Prob(F)								0.0001	0.0001	0.0001	0.0001	0.0001	0.0001		

Southern Illinois University

General Evaluation of Fall- and Spring-Applied Residual Herbicides in Soybean.

Trial ID: 12-YRC-GenFall  
 Location: Young Res. Center

Investigator: Bryan Young

Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval								VERAR	VERAR	VERAR
Trt Treatment No. Name								4-1-12 Control Percent	4-23-12 Control Percent	5-1-12 Control Percent
Form	Form	Rate	Other	Other	Growth	Appl				
Conc	Type	Unit	Rate	Rate	Unit	Stage	Code			
1	NONTREATED							0 f	0 i	0 f
2	VALOR SX	51 WG	0.064 lb ai/a	2 oz/a	FALL	A	91 ab	83 bcd	79 bc	
	ROUNDUP POWERMAX	4.5 SL	0.77 lb ae/a	22 fl oz/a	FALL	A				
	2,4-D LV 4	3.8 EC	0.95 lb ae/a	1 qt/a	FALL	A				
	N-PAK AMS	100 SL	5 % v/v	5 % v/v	FALL	A				
3	FIERCE	76 WG	0.143 lb ai/a	3 oz/a	FALL	A	93 a	84 bcd	79 bc	
	ROUNDUP POWERMAX	4.5 SL	0.77 lb ae/a	22 fl oz/a	FALL	A				
	2,4-D LV 4	3.8 EC	0.95 lb ae/a	1 qt/a	FALL	A				
	N-PAK AMS	100 SL	5 % v/v	5 % v/v	FALL	A				
4	VALOR XLT	40.3 WG	0.101 lb ai/a	4 oz/a	FALL	A	96 a	94 ab	93 a	
	ROUNDUP POWERMAX	4.5 SL	0.77 lb ae/a	22 fl oz/a	FALL	A				
	2,4-D LV 4	3.8 EC	0.95 lb ae/a	1 qt/a	FALL	A				
	N-PAK AMS	100 SL	5 % v/v	5 % v/v	FALL	A				
5	VALOR SX	51 WG	0.056 lb ai/a	1.76 oz/a	FALL	A	96 a	96 a	95 a	
	CLASSIC	25 WG	0.0194 lb ai/a	1.25 oz/a	FALL	A				
	V-10206	85 WG	0.053 lb ai/a	1 oz/a	FALL	A				
	ROUNDUP POWERMAX	4.5 SL	0.77 lb ae/a	22 fl oz/a	FALL	A				
	2,4-D LV 4	3.8 EC	0.95 lb ae/a	1 qt/a	FALL	A				
	N-PAK AMS	100 SL	5 % v/v	5 % v/v	FALL	A				
6	VALOR XLT	40.3 WG	0.0756 lb ai/a	3 oz/a	FALL	A	91 ab	90 abc	98 a	
	ROUNDUP POWERMAX	4.5 SL	0.77 lb ae/a	22 fl oz/a	FALL	A				
	2,4-D LV 4	3.8 EC	0.95 lb ae/a	1 qt/a	FALL	A				
	N-PAK AMS	100 SL	5 % v/v	5 % v/v	FALL	A				
	VALOR XLT	40.3 WG	0.0756 lb ai/a	3 oz/a	7DBP	B				
	ROUNDUP POWERMAX	4.5 SL	0.77 lb ae/a	22 fl oz/a	7DBP	B				
	2,4-D LV 4	3.8 EC	0.475 lb ae/a	1 pt/a	7DBP	B				
	N-PAK AMS	100 SL	5 % v/v	5 % v/v	7DBP	B				
7	VALOR SX	51 WG	0.064 lb ai/a	2 oz/a	FALL	A	92 a	87 abc	84 b	
	V50112	50 WG	0.089 lb ai/a	2.85 oz/a	FALL	A				
	ROUNDUP POWERMAX	4.5 SL	0.77 lb ae/a	22 fl oz/a	FALL	A				
	2,4-D LV 4	3.8 EC	0.95 lb ae/a	1 qt/a	FALL	A				
	NIS (ACTIVATOR 90)	100 SL	0.25 % v/v	0.25 % v/v	FALL	A				
	N-PAK AMS	100 SL	5 % v/v	5 % v/v	FALL	A				
8	VALOR SX	51 WG	0.064 lb ai/a	2 oz/a	FALL	A	73 cd	59 fg	59 e	
	V50112	50 WG	0.089 lb ai/a	2.85 oz/a	FALL	A				
	NIS (ACTIVATOR 90)	100 SL	0.25 % v/v	0.25 % v/v	FALL	A				
9	AUTHORITY XL	70 WG	0.175 lb ai/a	4 oz/a	FALL	A	81 bc	74 de	71 cd	
	ROUNDUP POWERMAX	4.5 SL	0.77 lb ae/a	22 fl oz/a	FALL	A				
	2,4-D LV 4	3.8 EC	0.475 lb ae/a	1 pt/a	FALL	A				
	N-PAK AMS	100 SL	5 % v/v	5 % v/v	FALL	A				
	ROUNDUP POWERMAX	4.5 SL	0.77 lb ae/a	22 fl oz/a	V2-V4	D				
	N-PAK AMS	100 SL	5 % v/v	5 % v/v	V2-V4	D				
10	AUTHORITY XL	70 WG	0.175 lb ai/a	4 oz/a	FALL	A	70 d	55 g	96 a	
	ROUNDUP POWERMAX	4.5 SL	0.77 lb ae/a	22 fl oz/a	FALL	A				
	2,4-D LV 4	3.8 EC	0.475 lb ae/a	1 pt/a	FALL	A				
	N-PAK AMS	100 SL	5 % v/v	5 % v/v	FALL	A				
	AUTHORITY XL	70 WG	0.175 lb ai/a	4 oz/a	7DBP	B				
	ROUNDUP POWERMAX	4.5 SL	0.77 lb ae/a	22 fl oz/a	7DBP	B				
	N-PAK AMS	100 SL	5 % v/v	5 % v/v	7DBP	B				
	ROUNDUP POWERMAX	4.5 SL	0.77 lb ae/a	22 fl oz/a	V2-V4	D				
	N-PAK AMS	100 SL	5 % v/v	5 % v/v	V2-V4	D				

Southern Illinois University

General Evaluation of Fall- and Spring-Applied Residual Herbicides in Soybean.

Trial ID: 12-YRC-GenFall  
 Location: Young Res. Center

Investigator: Bryan Young

								VERAR	VERAR	VERAR		
								4-1-12	4-23-12	5-1-12		
								Control	Control	Control		
								Percent	Percent	Percent		
								130 DA-A	-1 DA-B	7 DA-B		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Other Rate	Other Rate	Growth Stage	Appl Code			
11	AUTHORITY XL	70	WG	0.175	lb ai/a	4	oz/a	FALL	A	75 cd	70 ef	68 d
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A			
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A			
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A			
	ANTHEM	2.15	SE	0.101	lb ai/a	6	oz/a	V1-V2	C			
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V1-V2	C			
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V1-V2	C			
12	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	48 e	23 h	93 a
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A			
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A			
	VALOR XLT	40.3	WG	0.101	lb ai/a	4	oz/a	7DBP	B			
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP	B			
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7DBP	B			
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	D			
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-V4	D			
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	41 e	13 h	93 a
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A			
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A			
	AUTHORITY XL	70	WG	0.35	lb ai/a	8	oz/a	7DBP	B			
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP	B			
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7DBP	B			
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	D			
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-V4	D			
14	CANOPY EX	29.5	WG	0.037	lb ai/a	2	oz/a	FALL	A	88 ab	80 cde	96 a
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A			
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A			
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A			
	AUTHORITY FIRST	70	WG	0.28	lb ai/a	6.4	oz/a	7DBP	B			
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP	B			
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	7DBP	B			
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7DBP	B			
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	D			
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-V4	D			
15	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	41 e	13 h	96 a
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A			
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A			
	VALOR XLT	40.3	WG	0.101	lb ai/a	4	oz/a	7DBP	B			
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP	B			
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	7DBP	B			
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7DBP	B			
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	D			
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-V4	D			
16	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	48 e	20 h	96 a
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A			
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A			
	AUTHORITY XL	70	WG	0.35	lb ai/a	8	oz/a	7DBP	B			
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP	B			
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	7DBP	B			
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7DBP	B			
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	D			
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-V4	D			
LSD (P=.05)								10.7	11.7	8.5		
Standard Deviation								7.5	8.2	5.9		
CV								10.65	13.94	7.35		
Replicate F								6.601	2.270	2.602		
Replicate Prob(F)								0.0009	0.0932	0.0636		
Treatment F								53.806	67.575	68.679		
Treatment Prob(F)								0.0001	0.0001	0.0001		

Southern Illinois University

General Evaluation of Fall- and Spring-Applied Residual Herbicides in Soybean.

Trial ID: 12-YRC-GenFall

Location: Young Res. Center

Investigator: Bryan Young

Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval							AMATA-HR	AMATA-HR	AMATA-HR	AMATA-HR	AMATA-HR
							4-23-12 Control Percent	5-1-12 Control Percent	5-15-12 Control Percent	5-31-12 Control Percent	6-28-12 Control Percent
							0 DAP	7 DA-B	14 DAP	6 DA-C	34 DA-C
							-1 DA-B		21 DA-B	0 DA-D	28 DA-D
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate	Growth Unit	Appl Stage	Code		
1	NONTREATED									0 g	0 e
2	VALOR SX	51	WG	0.064 lb ai/a	2 oz/a		FALL	A		56 bcd	44 d
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		FALL	A			19 de
	2,4-D LV 4	3.8	EC	0.95 lb ae/a	1 qt/a		FALL	A			16 f
	N-PAK AMS	100	SL	5 % v/v	5 % v/v		FALL	A			13 e
3	FIERCE	76	WG	0.143 lb ai/a	3 oz/a		FALL	A		56 bcd	43 d
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		FALL	A			10 ef
	2,4-D LV 4	3.8	EC	0.95 lb ae/a	1 qt/a		FALL	A			5 g
	N-PAK AMS	100	SL	5 % v/v	5 % v/v		FALL	A			5 e
4	VALOR XLT	40.3	WG	0.101 lb ai/a	4 oz/a		FALL	A		82 a	73 bc
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		FALL	A			34 c
	2,4-D LV 4	3.8	EC	0.95 lb ae/a	1 qt/a		FALL	A			16 f
	N-PAK AMS	100	SL	5 % v/v	5 % v/v		FALL	A			10 e
5	VALOR SX	51	WG	0.056 lb ai/a	1.76 oz/a		FALL	A		74 ab	66 bc
	CLASSIC	25	WG	0.0194 lb ai/a	1.25 oz/a		FALL	A			20 de
	V-10206	85	WG	0.053 lb ai/a	1 oz/a		FALL	A			10 fg
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		FALL	A			8 e
	2,4-D LV 4	3.8	EC	0.95 lb ae/a	1 qt/a		FALL	A			
	N-PAK AMS	100	SL	5 % v/v	5 % v/v		FALL	A			
6	VALOR XLT	40.3	WG	0.0756 lb ai/a	3 oz/a		FALL	A		68 abc	97 a
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		FALL	A			97 a
	2,4-D LV 4	3.8	EC	0.95 lb ae/a	1 qt/a		FALL	A			85 bc
	N-PAK AMS	100	SL	5 % v/v	5 % v/v		FALL	A			58 c
	VALOR XLT	40.3	WG	0.0756 lb ai/a	3 oz/a		7DBP	B			
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		7DBP	B			
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		7DBP	B			
	N-PAK AMS	100	SL	5 % v/v	5 % v/v		7DBP	B			
7	VALOR SX	51	WG	0.064 lb ai/a	2 oz/a		FALL	A		71 ab	60 c
	V50112	50	WG	0.089 lb ai/a	2.85 oz/a		FALL	A			30 cd
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		FALL	A			18 f
	2,4-D LV 4	3.8	EC	0.95 lb ae/a	1 qt/a		FALL	A			10 e
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v		FALL	A			
	N-PAK AMS	100	SL	5 % v/v	5 % v/v		FALL	A			
8	VALOR SX	51	WG	0.064 lb ai/a	2 oz/a		FALL	A		79 a	76 b
	V50112	50	WG	0.089 lb ai/a	2.85 oz/a		FALL	A			68 b
	NIS (ACTIVATOR 90)	100	SL	0.25 % v/v	0.25 % v/v		FALL	A			59 d
											63 c
9	AUTHORITY XL	70	WG	0.175 lb ai/a	4 oz/a		FALL	A		20 f	8 e
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		FALL	A			3 f
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		FALL	A			0 g
	N-PAK AMS	100	SL	5 % v/v	5 % v/v		FALL	A			0 e
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		V2-V4	D			
	N-PAK AMS	100	SL	5 % v/v	5 % v/v		V2-V4	D			
10	AUTHORITY XL	70	WG	0.175 lb ai/a	4 oz/a		FALL	A		25 f	94 a
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		FALL	A			95 a
	2,4-D LV 4	3.8	EC	0.475 lb ae/a	1 pt/a		FALL	A			83 c
	N-PAK AMS	100	SL	5 % v/v	5 % v/v		FALL	A			81 b
	AUTHORITY XL	70	WG	0.175 lb ai/a	4 oz/a		7DBP	B			
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		7DBP	B			
	N-PAK AMS	100	SL	5 % v/v	5 % v/v		7DBP	B			
	ROUNDUP POWERMAX	4.5	SL	0.77 lb ae/a	22 fl oz/a		V2-V4	D			
	N-PAK AMS	100	SL	5 % v/v	5 % v/v		V2-V4	D			

Southern Illinois University

General Evaluation of Fall- and Spring-Applied Residual Herbicides in Soybean.

Trial ID: 12-YRC-GenFall  
 Location: Young Res. Center

Investigator: Bryan Young

Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval								AMATA-HR	AMATA-HR	AMATA-HR	AMATA-HR	AMATA-HR		
								4-23-12 Control Percent	5-1-12 Control Percent 0 DAP 7 DA-B	5-15-12 Control Percent 14 DAP 21 DA-B	5-31-12 Control Percent 6 DA-C 0 DA-D	6-28-12 Control Percent 34 DA-C 28 DA-D		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Other Rate	Other Rate	Growth Stage	Appl Code					
11	AUTHORITY XL	70	WG	0.175	lb ai/a	4	oz/a	FALL	A	18 fg	13 e	3 f	34 e	40 d
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A					
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A					
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A					
	ANTHEM	2.15	SE	0.101	lb ai/a	6	oz/a	V1-V2	C					
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V1-V2	C					
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V1-V2	C					
12	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	45 de	91 a	96 a	87 abc	80 b
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A					
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A					
	VALOR XLT	40.3	WG	0.101	lb ai/a	4	oz/a	7DBP	B					
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP	B					
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7DBP	B					
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	D					
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-V4	D					
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	48 de	94 a	98 a	96 a	93 ab
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A					
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A					
	AUTHORITY XL	70	WG	0.35	lb ai/a	8	oz/a	7DBP	B					
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP	B					
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7DBP	B					
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	D					
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-V4	D					
14	CANOPY EX	29.5	WG	0.037	lb ai/a	2	oz/a	FALL	A	53 cd	97 a	98 a	91 abc	93 ab
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A					
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A					
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A					
	AUTHORITY FIRST	70	WG	0.28	lb ai/a	6.4	oz/a	7DBP	B					
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP	B					
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	7DBP	B					
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7DBP	B					
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	D					
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-V4	D					
15	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	45 de	97 a	98 a	95 ab	92 ab
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A					
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A					
	VALOR XLT	40.3	WG	0.101	lb ai/a	4	oz/a	7DBP	B					
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP	B					
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	7DBP	B					
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7DBP	B					
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	D					
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-V4	D					
16	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	FALL	A	31 ef	97 a	97 a	95 ab	96 a
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	FALL	A					
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	FALL	A					
	AUTHORITY XL	70	WG	0.35	lb ai/a	8	oz/a	7DBP	B					
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	7DBP	B					
	2,4-D LV 4	3.8	EC	0.475	lb ae/a	1	pt/a	7DBP	B					
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	7DBP	B					
	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-V4	D					
	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-V4	D					
LSD (P=.05)								17.7	13.3	11.7	10.1	13.7		
Standard Deviation								12.4	9.3	8.2	7.1	9.6		
CV								25.77	14.25	15.24	14.4	20.75		
Replicate F								0.908	1.438	2.636	1.075	1.594		
Replicate Prob(F)								0.4448	0.2442	0.0611	0.3692	0.2040		
Treatment F								15.082	54.707	104.902	125.813	66.485		
Treatment Prob(F)								0.0001	0.0001	0.0001	0.0001	0.0001		

General Evaluation of Fall- and Spring-Applied Residual Herbicides in Soybean.

Trial ID: 12-YRC-GenFall

Location: Young Res. Center

Investigator: Bryan Young

Trial Comments

1. Protocol: Valent, FMC.
2. Ratings: WC 21-28 DA-A, April 1, May 1, and at planting.  
CI/WC at 14 DAP and 0 and 28 DA-D.
3. Yield.
4. ERICA-HR = Herbicide-resistant marestail (glyphosate).  
AMATA-HR = Herbicide-resistant waterhemp (glyphosate).  
DAP = Days after planting.
5. The scheduled May 1 rating was done on April 23 such that it was prior to application B (7DBP).  
The at planting rating was done on May 1.
6. By 4-23-12 STEME in the nontreated plots was senescing naturally and could no longer be evaluated.  
By 5-1-12 LAMAM in the nontreated plots was senescing naturally and could no longer be evaluated.  
By 5-15-12 VERAR in the nontreated plots was senescing naturally and could no longer be evaluated.
7. Harvested 10-16-12, (2) 30 inch rows by 27 ft.