

Southern Illinois University

Soybean Response to Glyphosate Tank-Mixtures: Early Planting Date- May 1.

Trial ID: 12-3-W240

Location: Belleville Res. Center

Investigator: Bryan Young

General Trial Information

Study Director: Bryan Young
Investigator: Bryan Young **Title:** Professor

Trial Status: F - one-year/final
Initiation Date: 5-18-12

Trial Location

City: Belleville
State/Prov.: IL
Postal Code: 62221
Country: USA

Objectives:

Evaluate the crop response and yield of soybean following three postemergence application timings of tank-mixtures with glyphosate under weed-free conditions.

Personnel

Study Director: Bryan Young
Investigator: Bryan Young **Title:** Professor
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
Variety: AG 4005 **Description:** RR
BBCH Scale: BSOY **Planting Date:** 5-18-12
Planting Method: SEEDED Seeded **Rate, Unit:** 75 LB/A
Depth, Unit: 1 IN
Row Spacing, Unit: 30 IN

Pest Description

Pest 1 Type: W **Code:** NA
Common Name: crop tolerance only

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 25 FT
Plot Area, Unit: 250 FT2 **Tillage Type:** REDTIL reduced-till
Replications: 4 **Study Design:** RACOB� Randomized Complete Block (RCB)

No.	Previous Crop	Year
1.	ZEAMD	2011

Maintenance

No.	Maintenance Treatment Name
1.	N 0 LB/A, P205 0 LB/A, K20 200 LB/A

Soil Description

% OM: 1.4 **Texture:** SIL SILT LOAM
pH: 5.9 **Soil Name:** PIERRON
CEC: 7

Additional Measured Elements

Element	Quantity	Unit
P1	97	LB/A
K	240	LB/A

Moisture and Weather Conditions

Overall Moisture Conditions: BELNOR below normal
Closest Weather Station: ICN - Belleville IL **Distance, Unit:** 0.5 MI

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No.	Date	Amount	Unit	Type	Type Description	Interval	Unit	Min Temp	Max Temp	Temp Unit
1.	4-24-12					7	DAY	42.6	74.3	F
2.	4-29-12	3.06	IN	RAIN	rain					
3.	4-30-12	0.66	IN	RAIN	rain					
4.	5-1-12	0.13	IN	RAIN	rain					
5.	5-1-12					7	DAY	33.5	76	F
6.	5-4-12	0.25	IN	RAIN	rain					
7.	5-7-12	0.29	IN	RAIN	rain					
8.	5-8-12					7	DAY	47.5	87.8	F
9.	5-15-12					7	DAY	37.7	81.3	F
10.	5-21-12	0.18	IN	RAIN	rain					
11.	5-22-12					7	DAY	47.6	82.3	F
12.	5-29-12					7	DAY	48.1	90	F
13.	5-30-12	0.07	IN	RAIN	rain					
14.	5-31-12	0.21	IN	RAIN	rain					
15.	6-5-12					7	DAY	50.2	90.1	F
16.	6-11-12	0.75	IN	RAIN	rain					
17.	6-12-12					7	DAY	52.4	93.6	F
18.	6-17-12	0.36	IN	RAIN	rain					
19.	6-19-12					7	DAY	56.3	94	F
20.	6-26-12					7	DAY	51.8	105.4	F
21.	7-3-12					7	DAY	68.9	104.7	F
22.	7-8-12	0.28	IN	RAIN	rain					
23.	7-10-12					7	DAY	63.4	95	F
24.	7-17-12					7	DAY	61	102.2	F
25.	7-24-12					7	DAY	61	103	F
26.	7-29-12	0.15	IN	RAIN	rain					
27.	7-31-12					7	DAY	60.2	99.1	F
28.	8-5-12	0.18	IN	RAIN	rain					
29.	8-7-12					7	DAY	50.2	99.8	F
30.	8-13-12	0.88	IN	RAIN	rain					
31.	8-14-12					7	DAY	51	95.6	F
32.	8-17-12	1.19	IN	RAIN	rain					
33.	8-21-12					7	DAY	54.7	94.2	F
34.	8-26-12	0.04	IN	RAIN	rain					
35.	8-27-12	1.66	IN	RAIN	rain					
36.	8-31-12	0.11	IN	RAIN	rain					

Application Description

	A	B	C
Application Date:	6-15-12	7-2-12	7-9-12
Time of Day:	9:00	9:00	9:00
Application Method:	Spray	Spray	Spray
Application Timing:	V2-3	V5-6	R2
Application Placement:	BROFOL	BROFOL	BROFOL
Applied By:	RJW	TR	TR
Air Temperature, Unit:	78 F	87 F	80 F
% Relative Humidity:	62	59	62
Wind Velocity, Unit:	4 MPH	0 MPH	0 MPH
Wind Direction:	SW		
Dew Presence (Y/N):	N no	N no	N no
Soil Temperature, Unit:	74 F	81 F	83 F
Soil Moisture:	NORMAL	BELNOR	BELNOR
% Cloud Cover:	80	0	80
Next Rain Occurred On:	6-17-12	7-8-12	7-29-12

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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:	V3		V6		R2	
Stage Minimum, Percent:	V2		V5		R2	
Stage Maximum, Percent:	V3		V6		R2	
Height, Unit:	6	IN	12	IN	18	IN
Height Minimum, Maximum:	4	6	10	12	15	18

Pest Stage At Each Application						
	A		B		C	
Pest 1 Code, Type, Scale:	NA	W DESC	NA	W DESC	NA	W DESC
Stage Majority, Percent:	NA		NA		NA	

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:	7.5 FT		7.5 FT		7.5 FT	
Spray Volume, Unit:	15	GPA	15	GPA	15	GPA

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Pest Code Crop Code Rating Date Rating Type							GLXMA 10-11-12 Height	GLXMA 10-25-12 Moisture	GLXMA 10-25-12 Test wt.	GLXMA 10-25-12 Yield	GLXMA 10-25-12 200 Seed Wt			
Rating Unit Rating Timing Trt-Eval Interval							cm	Percent	lb/bu	bu/A	gram			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate	Growth Unit	Appl Stage	Code					
1	ROUNDUP P-MAX N-PAK AMS	4.5 SL 100 SL		0.77 lb ae/a 5 % v/v	22 fl oz/a 5 % v/v		V2-3 V2-3	A A		85 a	12.4 a	57.4 a	53 a	40.77 d-j
2	ROUNDUP P-MAX N-PAK AMS	4.5 SL 100 SL		1.55 lb ae/a 5 % v/v	44 fl oz/a 5 % v/v		V2-3 V2-3	A A		87 a	12.2 a	57.4 a	54 a	40.77 d-j
3	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.094 lb ai/a 0.77 lb ae/a 5 % v/v	6 fl oz/a 22 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A		86 a	12.4 a	57.2 a	58 a	39.16 j
4	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.094 lb ai/a 1.55 lb ae/a 5 % v/v	6 fl oz/a 44 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A		86 a	12.4 a	57.2 a	55 a	40.21 hij
5	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.188 lb ai/a 0.77 lb ae/a 5 % v/v	12 fl oz/a 22 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A		89 a	12.6 a	57.1 a	62 a	40.12 ij
6	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.188 lb ai/a 1.55 lb ae/a 5 % v/v	12 fl oz/a 44 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A		88 a	12.6 a	56.8 a	60 a	40.52 e-j
7	FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL		0.235 lb ai/a 0.77 lb ae/a 5 % v/v	1 pt/a 22 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A		86 a	12.5 a	56.9 a	57 a	40.53 e-j
8	FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL		0.235 lb ai/a 1.55 lb ae/a 5 % v/v	1 pt/a 44 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A		84 a	12.1 a	57.4 a	53 a	41.13 c-i
9	FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL		0.375 lb ai/a 0.77 lb ae/a 5 % v/v	1.6 pt/a 22 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A		87 a	12.6 a	56.9 a	58 a	40.22 g-j
10	FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL		0.375 lb ai/a 1.55 lb ae/a 5 % v/v	1.6 pt/a 44 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A		90 a	12.5 a	57.1 a	60 a	40.29 f-j
11	CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL		0.00427 lb ai/a 0.77 lb ae/a 5 % v/v	0.6 fl oz/a 22 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A		88 a	12.3 a	57.0 a	57 a	41.26 b-i
12	CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL		0.00427 lb ai/a 1.55 lb ae/a 5 % v/v	0.6 fl oz/a 44 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A		89 a	12.9 a	56.9 a	57 a	40.66 e-j
13	CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL		0.0064 lb ai/a 0.77 lb ae/a 5 % v/v	0.9 fl oz/a 22 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A		87 a	12.6 a	57.1 a	54 a	41.90 a-f
14	CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL		0.0064 lb ai/a 1.55 lb ae/a 5 % v/v	0.9 fl oz/a 44 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A		90 a	12.8 a	57.1 a	57 a	41.30 b-i
15	ROUNDUP P-MAX N-PAK AMS	4.5 SL 100 SL		0.77 lb ae/a 5 % v/v	22 fl oz/a 5 % v/v		V5-6 V5-6	B B		87 a	12.8 a	56.9 a	56 a	42.05 a-e
16	ROUNDUP P-MAX N-PAK AMS	4.5 SL 100 SL		1.55 lb ae/a 5 % v/v	44 fl oz/a 5 % v/v		V5-6 V5-6	B B		90 a	12.7 a	57.1 a	51 a	41.96 a-e

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 Crop Code Rating Date Rating Type								GLXMA 10-11-12 Height	GLXMA 10-25-12 Moisture	GLXMA 10-25-12 Test wt.	GLXMA 10-25-12 Yield	GLXMA 10-25-12 200 Seed Wt
Rating Unit Rating Timing Trt-Eval Interval								cm	Percent	lb/bu	bu/A	gram
Trt Treatment No. Name								EOS				
Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
17 COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL	0.094 lb ai/a 0.77 lb ae/a 5 % v/v	6 fl oz/a 22 fl oz/a 5 % v/v	V5-6 V5-6 V5-6	B B B	90 a	12.3 a	57.4 a	55 a	42.04 a-e		
18 COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL	0.094 lb ai/a 1.55 lb ae/a 5 % v/v	6 fl oz/a 44 fl oz/a 5 % v/v	V5-6 V5-6 V5-6	B B B	86 a	12.4 a	57.5 a	50 a	41.30 b-i		
19 COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL	0.188 lb ai/a 0.77 lb ae/a 5 % v/v	12 fl oz/a 22 fl oz/a 5 % v/v	V5-6 V5-6 V5-6	B B B	87 a	12.1 a	57.5 a	54 a	43.23 a		
20 COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL	0.188 lb ai/a 1.55 lb ae/a 5 % v/v	12 fl oz/a 44 fl oz/a 5 % v/v	V5-6 V5-6 V5-6	B B B	92 a	12.5 a	57.4 a	55 a	42.36 a-d		
21 FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL	0.235 lb ai/a 0.77 lb ae/a 5 % v/v	1 pt/a 22 fl oz/a 5 % v/v	V5-6 V5-6 V5-6	B B B	91 a	12.4 a	57.3 a	59 a	41.59 b-i		
22 FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL	0.235 lb ai/a 1.55 lb ae/a 5 % v/v	1 pt/a 44 fl oz/a 5 % v/v	V5-6 V5-6 V5-6	B B B	88 a	12.8 a	56.9 a	52 a	42.40 abc		
23 FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL	0.375 lb ai/a 0.77 lb ae/a 5 % v/v	1.6 pt/a 22 fl oz/a 5 % v/v	V5-6 V5-6 V5-6	B B B	90 a	12.5 a	57.2 a	60 a	41.95 a-e		
24 FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL	0.375 lb ai/a 1.55 lb ae/a 5 % v/v	1.6 pt/a 44 fl oz/a 5 % v/v	V5-6 V5-6 V5-6	B B B	91 a	12.5 a	57.1 a	54 a	41.57 b-i		
25 CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL	0.00427 lb ai/a 0.77 lb ae/a 5 % v/v	0.6 fl oz/a 22 fl oz/a 5 % v/v	V5-6 V5-6 V5-6	B B B	89 a	12.7 a	57.1 a	60 a	41.29 b-i		
26 CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL	0.00427 lb ai/a 1.55 lb ae/a 5 % v/v	0.6 fl oz/a 44 fl oz/a 5 % v/v	V5-6 V5-6 V5-6	B B B	92 a	12.6 a	56.9 a	58 a	42.81 ab		
27 CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL	0.0064 lb ai/a 0.77 lb ae/a 5 % v/v	0.9 fl oz/a 22 fl oz/a 5 % v/v	V5-6 V5-6 V5-6	B B B	92 a	12.6 a	56.8 a	60 a	41.09 c-i		
28 CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL	0.0064 lb ai/a 1.55 lb ae/a 5 % v/v	0.9 fl oz/a 44 fl oz/a 5 % v/v	V5-6 V5-6 V5-6	B B B	88 a	12.5 a	57.0 a	53 a	41.57 b-i		
29 ROUNDUP P-MAX N-PAK AMS	4.5 SL 100 SL	0.77 lb ae/a 5 % v/v	22 fl oz/a 5 % v/v	R2 R2	C C	89 a	12.8 a	56.9 a	59 a	41.64 a-i		
30 ROUNDUP P-MAX N-PAK AMS	4.5 SL 100 SL	1.55 lb ae/a 5 % v/v	44 fl oz/a 5 % v/v	R2 R2	C C	86 a	12.8 a	56.6 a	52 a	41.84 a-g		
31 COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL	0.094 lb ai/a 0.77 lb ae/a 5 % v/v	6 fl oz/a 22 fl oz/a 5 % v/v	R2 R2 R2	C C C	88 a	12.5 a	57.1 a	57 a	41.66 a-i		
32 COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL	0.094 lb ai/a 1.55 lb ae/a 5 % v/v	6 fl oz/a 44 fl oz/a 5 % v/v	R2 R2 R2	C C C	89 a	12.4 a	57.1 a	55 a	41.06 c-i		

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Location: Belleville Res. Center

Investigator: Bryan Young

Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	GLXMA 10-11-12 Height	GLXMA 10-25-12 Moisture	GLXMA 10-25-12 Test wt.	GLXMA 10-25-12 Yield	GLXMA 10-25-12 200 Seed Wt				
							cm	Percent	lb/bu	bu/A	gram				
							EOS								
Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
33	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.188 lb ai/a 0.77 lb ae/a 5 % v/v	ai/a ae/a v/v	12 fl oz/a 22 fl oz/a 5 % v/v		R2 R2 R2	C C C	89 a	12.4 a	57.3 a	56 a	41.20 b-i	
34	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.188 lb ai/a 1.55 lb ae/a 5 % v/v	ai/a ae/a v/v	12 fl oz/a 44 fl oz/a 5 % v/v		R2 R2 R2	C C C	89 a	12.5 a	57.0 a	56 a	41.65 a-i	
35	FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL		0.235 lb ai/a 0.77 lb ae/a 5 % v/v	ai/a ae/a v/v	1 pt/a 22 fl oz/a 5 % v/v		R2 R2 R2	C C C	91 a	12.3 a	57.0 a	59 a	41.43 b-i	
36	FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL		0.235 lb ai/a 1.55 lb ae/a 5 % v/v	ai/a ae/a v/v	1 pt/a 44 fl oz/a 5 % v/v		R2 R2 R2	C C C	89 a	12.2 a	57.3 a	53 a	41.74 a-i	
37	FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL		0.375 lb ai/a 0.77 lb ae/a 5 % v/v	ai/a ae/a v/v	1.6 pt/a 22 fl oz/a 5 % v/v		R2 R2 R2	C C C	88 a	12.5 a	57.1 a	58 a	40.90 c-i	
38	FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL		0.375 lb ai/a 1.55 lb ae/a 5 % v/v	ai/a ae/a v/v	1.6 pt/a 44 fl oz/a 5 % v/v		R2 R2 R2	C C C	89 a	12.2 a	57.2 a	54 a	41.91 a-f	
39	CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL		0.00427 lb ai/a 0.77 lb ae/a 5 % v/v	ai/a ae/a v/v	0.6 fl oz/a 22 fl oz/a 5 % v/v		R2 R2 R2	C C C	91 a	12.3 a	57.3 a	58 a	40.96 c-i	
40	CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL		0.00427 lb ai/a 1.55 lb ae/a 5 % v/v	ai/a ae/a v/v	0.6 fl oz/a 44 fl oz/a 5 % v/v		R2 R2 R2	C C C	89 a	12.1 a	57.4 a	57 a	41.59 b-i	
41	CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL		0.0064 lb ai/a 0.77 lb ae/a 5 % v/v	ai/a ae/a v/v	0.9 fl oz/a 22 fl oz/a 5 % v/v		R2 R2 R2	C C C	88 a	12.1 a	57.7 a	53 a	41.12 c-i	
42	CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL		0.0064 lb ai/a 1.55 lb ae/a 5 % v/v	ai/a ae/a v/v	0.9 fl oz/a 44 fl oz/a 5 % v/v		R2 R2 R2	C C C	85 a	12.6 a	57.3 a	55 a	41.32 b-i	
43	NONTREATED										88 a	12.3 a	57.4 a	58 a	41.75 a-h
LSD (P=.05)							6.4	0.77	0.76	9.2	1.624				
Standard Deviation							4.6	0.55	0.54	6.6	1.160				
CV							5.17	4.41	0.95	11.74	2.81				
Replicate F							2.127	1.463	0.170	3.329	10.124				
Replicate Prob(F)							0.1002	0.2279	0.9162	0.0218	0.0001				
Treatment F							0.785	0.615	0.661	0.744	1.725				
Treatment Prob(F)							0.8145	0.9641	0.9374	0.8641	0.0112				

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Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval							GLXMA Injury Percent 4 DAT	GLXMA Injury Percent 7 DAT	GLXMA Injury Percent 14 DAT	GLXMA Injury Percent 28 DAT	GLXMA Injury Percent 56 DAT	GLXMA 10-11-12 Injury Percent EOS			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
1	ROUNDUP P-MAX N-PAK AMS	4.5 SL 100 SL		0.77 lb ae/a 5 % v/v		22 fl oz/a 5 % v/v		V2-3 V2-3	A A	0 q	0 q	0 r	0 i	0 c	0 a
2	ROUNDUP P-MAX N-PAK AMS	4.5 SL 100 SL		1.55 lb ae/a 5 % v/v		44 fl oz/a 5 % v/v		V2-3 V2-3	A A	0 q	0 q	0 r	0 i	0 c	0 a
3	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.094 lb ai/a 0.77 lb ae/a 5 % v/v		6 fl oz/a 22 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A	15 bc	15 cd	10 cd	1 g	1 a	0 a
4	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.094 lb ai/a 1.55 lb ae/a 5 % v/v		6 fl oz/a 44 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A	16 b	17 b	11 c	1 g	1 a	0 a
5	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.188 lb ai/a 0.77 lb ae/a 5 % v/v		12 fl oz/a 22 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A	18 a	19 a	15 a	1 g	1 a	0 a
6	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.188 lb ai/a 1.55 lb ae/a 5 % v/v		12 fl oz/a 44 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A	18 a	19 a	15 a	1 g	1 a	0 a
7	FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL		0.235 lb ai/a 0.77 lb ae/a 5 % v/v		1 pt/a 22 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A	12 de	12 ij	9 de	1 g	1 a	0 a
8	FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL		0.235 lb ai/a 1.55 lb ae/a 5 % v/v		1 pt/a 44 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A	13 d	13 gh	9 de	1 g	1 b	0 a
9	FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL		0.375 lb ai/a 0.77 lb ae/a 5 % v/v		1.6 pt/a 22 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A	14 c	14 de	11 c	1 g	1 a	0 a
10	FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL		0.375 lb ai/a 1.55 lb ae/a 5 % v/v		1.6 pt/a 44 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A	16 b	16 bc	12 b	1 g	1 b	0 a
11	CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL		0.00427 lb ai/a 0.77 lb ae/a 5 % v/v		0.6 fl oz/a 22 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A	7 hi	8 lm	3 mn	0 i	0 c	0 a
12	CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL		0.00427 lb ai/a 1.55 lb ae/a 5 % v/v		0.6 fl oz/a 44 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A	8 h	10 k	3 mn	0 i	0 c	0 a
13	CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL		0.0064 lb ai/a 0.77 lb ae/a 5 % v/v		0.9 fl oz/a 22 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A	11 fg	11 jk	4 klm	0 i	0 c	0 a
14	CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL		0.0064 lb ai/a 1.55 lb ae/a 5 % v/v		0.9 fl oz/a 44 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A	11 ef	10 k	4 klm	0 i	0 c	0 a
15	ROUNDUP P-MAX N-PAK AMS	4.5 SL 100 SL		0.77 lb ae/a 5 % v/v		22 fl oz/a 5 % v/v		V5-6 V5-6	B B	0 q	0 q	0 r	0 i	0 c	0 a
16	ROUNDUP P-MAX N-PAK AMS	4.5 SL 100 SL		1.55 lb ae/a 5 % v/v		44 fl oz/a 5 % v/v		V5-6 V5-6	B B	0 q	0 q	0 r	0 i	0 c	0 a

Southern Illinois University

Soybean Response to Glyphosate Tank-Mixtures: Early Planting Date- May 1.

Trial ID: 12-3-W240

Location: Belleville Res. Center

Investigator: Bryan Young

Pest Code Crop Code Rating Date Rating Type								GLXMA Injury Percent	GLXMA Injury Percent	GLXMA Injury Percent	GLXMA Injury Percent	GLXMA Injury Percent	GLXMA 10-11-12 Injury Percent		
Rating Unit Rating Timing Trt-Eval Interval								4 DAT	7 DAT	14 DAT	28 DAT	56 DAT	EOS		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
17	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.094 lb ai/a 0.77 lb ae/a 5 % v/v	ai/a ae/a v/v	6 fl oz/a 22 fl oz/a 5 % v/v	oz/a oz/a v/v	V5-6 V5-6 V5-6	B B B	7 ij	7 lm	5 jk	3 d	0 c	0 a
18	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.094 lb ai/a 1.55 lb ae/a 5 % v/v	ai/a ae/a v/v	6 fl oz/a 44 fl oz/a 5 % v/v	oz/a oz/a v/v	V5-6 V5-6 V5-6	B B B	8 hi	8 lm	5 jk	3 d	0 c	0 a
19	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.188 lb ai/a 0.77 lb ae/a 5 % v/v	ai/a ae/a v/v	12 fl oz/a 22 fl oz/a 5 % v/v	oz/a oz/a v/v	V5-6 V5-6 V5-6	B B B	8 h	8 l	6 i	3 d	0 c	0 a
20	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.188 lb ai/a 1.55 lb ae/a 5 % v/v	ai/a ae/a v/v	12 fl oz/a 44 fl oz/a 5 % v/v	oz/a oz/a v/v	V5-6 V5-6 V5-6	B B B	10 g	10 k	6 hi	3 cd	0 c	0 a
21	FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL		0.235 lb ai/a 0.77 lb ae/a 5 % v/v	ai/a ae/a v/v	1 pt/a 22 fl oz/a 5 % v/v	pt/a oz/a v/v	V5-6 V5-6 V5-6	B B B	3 p	3 p	1 qr	0 i	0 c	0 a
22	FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL		0.235 lb ai/a 1.55 lb ae/a 5 % v/v	ai/a ae/a v/v	1 pt/a 44 fl oz/a 5 % v/v	pt/a oz/a v/v	V5-6 V5-6 V5-6	B B B	3 op	4 p	1 qr	0 hi	0 c	0 a
23	FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL		0.375 lb ai/a 0.77 lb ae/a 5 % v/v	ai/a ae/a v/v	1.6 pt/a 22 fl oz/a 5 % v/v	pt/a oz/a v/v	V5-6 V5-6 V5-6	B B B	3 p	4 op	2 opq	1 g	0 c	0 a
24	FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL		0.375 lb ai/a 1.55 lb ae/a 5 % v/v	ai/a ae/a v/v	1.6 pt/a 44 fl oz/a 5 % v/v	pt/a oz/a v/v	V5-6 V5-6 V5-6	B B B	5 lmn	7 m	4 klm	1 fg	0 c	0 a
25	CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL		0.00427 lb ai/a 0.77 lb ae/a 5 % v/v	ai/a ae/a v/v	0.6 fl oz/a 22 fl oz/a 5 % v/v	fl oz/a oz/a v/v	V5-6 V5-6 V5-6	B B B	3 p	3 p	2 pq	0 i	0 c	0 a
26	CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL		0.00427 lb ai/a 1.55 lb ae/a 5 % v/v	ai/a ae/a v/v	0.6 fl oz/a 44 fl oz/a 5 % v/v	fl oz/a oz/a v/v	V5-6 V5-6 V5-6	B B B	3 op	3 p	1 pq	0 i	0 c	0 a
27	CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL		0.0064 lb ai/a 0.77 lb ae/a 5 % v/v	ai/a ae/a v/v	0.9 fl oz/a 22 fl oz/a 5 % v/v	fl oz/a oz/a v/v	V5-6 V5-6 V5-6	B B B	3 p	3 p	1 qr	0 i	0 c	0 a
28	CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL		0.0064 lb ai/a 1.55 lb ae/a 5 % v/v	ai/a ae/a v/v	0.9 fl oz/a 44 fl oz/a 5 % v/v	fl oz/a oz/a v/v	V5-6 V5-6 V5-6	B B B	3 p	3 p	1 pq	0 i	0 c	0 a
29	ROUNDUP P-MAX N-PAK AMS	4.5 SL 100 SL		0.77 lb ae/a 5 % v/v	ae/a v/v	22 fl oz/a 5 % v/v	oz/a v/v	R2 R2	C C	0 q	0 q	0 r	0 i	0 c	0 a
30	ROUNDUP P-MAX N-PAK AMS	4.5 SL 100 SL		1.55 lb ae/a 5 % v/v	ae/a v/v	44 fl oz/a 5 % v/v	oz/a v/v	R2 R2	C C	0 q	0 q	3 mno	0 i	0 c	0 a
31	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.094 lb ai/a 0.77 lb ae/a 5 % v/v	ai/a ae/a v/v	6 fl oz/a 22 fl oz/a 5 % v/v	oz/a oz/a v/v	R2 R2 R2	C C C	10 g	12 hi	6 hi	5 b	0 c	0 a
32	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.094 lb ai/a 1.55 lb ae/a 5 % v/v	ai/a ae/a v/v	6 fl oz/a 44 fl oz/a 5 % v/v	oz/a oz/a v/v	R2 R2 R2	C C C	10 g	13 fgh	9 ef	6 a	0 c	0 a

Southern Illinois University

Soybean Response to Glyphosate Tank-Mixtures: Early Planting Date- May 1.

Trial ID: 12-3-W240

Location: Belleville Res. Center

Investigator: Bryan Young

Pest Code							GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Crop Code							Injury	Injury	Injury	Injury	Injury	GLXMA
Rating Date							Percent	Percent	Percent	Percent	Percent	10-11-12
Rating Type							4 DAT	7 DAT	14 DAT	28 DAT	56 DAT	Injury
Rating Unit												Percent
Rating Timing												
Trt-Eval Interval												EOS
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Other Rate	Other Rate	Growth Unit	Appl Stage	Code		
33	COBRA	2 EC		0.188 lb ai/a		12 fl oz/a		R2	C		12 ef	14 def
	ROUNDUP P-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		R2	C			7 gh
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		R2	C			5 ab
												0 c
												0 a
34	COBRA	2 EC		0.188 lb ai/a		12 fl oz/a		R2	C		12 de	14 efg
	ROUNDUP P-MAX	4.5 SL		1.55 lb ae/a		44 fl oz/a		R2	C			8 fg
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		R2	C			6 a
												0 c
												0 a
35	FLEXSTAR	1.88 EC		0.235 lb ai/a		1 pt/a		R2	C		5 lm	5 no
	ROUNDUP P-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		R2	C			3 lm
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		R2	C			1 gh
												0 c
												0 a
36	FLEXSTAR	1.88 EC		0.235 lb ai/a		1 pt/a		R2	C		6 jkl	8 lm
	ROUNDUP P-MAX	4.5 SL		1.55 lb ae/a		44 fl oz/a		R2	C			5 ij
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		R2	C			3 d
												0 c
												0 a
37	FLEXSTAR	1.88 EC		0.375 lb ai/a		1.6 pt/a		R2	C		4 mno	5 n
	ROUNDUP P-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		R2	C			4 jkl
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		R2	C			2 e
												0 c
												0 a
38	FLEXSTAR	1.88 EC		0.375 lb ai/a		1.6 pt/a		R2	C		6 jk	8 lm
	ROUNDUP P-MAX	4.5 SL		1.55 lb ae/a		44 fl oz/a		R2	C			5 ij
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		R2	C			4 c
												0 c
												0 a
39	CADET	0.91 EC		0.00427 lb ai/a		0.6 fl oz/a		R2	C		4 nop	4 op
	ROUNDUP P-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		R2	C			2 nop
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		R2	C			1 gh
												0 c
												0 a
40	CADET	0.91 EC		0.00427 lb ai/a		0.6 fl oz/a		R2	C		4 m-p	5 no
	ROUNDUP P-MAX	4.5 SL		1.55 lb ae/a		44 fl oz/a		R2	C			4 klm
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		R2	C			2 ef
												0 c
												0 a
41	CADET	0.91 EC		0.0064 lb ai/a		0.9 fl oz/a		R2	C		5 klm	6 n
	ROUNDUP P-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		R2	C			3 mn
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		R2	C			2 e
												0 c
												0 a
42	CADET	0.91 EC		0.0064 lb ai/a		0.9 fl oz/a		R2	C		5 lm	5 n
	ROUNDUP P-MAX	4.5 SL		1.55 lb ae/a		44 fl oz/a		R2	C			3 mn
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		R2	C			1 g
												0 c
												0 a
43	NONTREATED						0 q	0 q	0 r	0 i	0 c	0 a
LSD (P=.05)							1.1	1.2	1.1	0.6	0.2	0.0
Standard Deviation							0.8	0.8	0.8	0.4	0.1	0.0
CV							11.26	10.99	16.14	30.78	62.32	0.0
Replicate F							0.861	2.617	0.334	1.303	0.656	0.000
Replicate Prob(F)							0.4634	0.0539	0.8009	0.2763	0.5806	1.0000
Treatment F							188.275	179.110	117.029	63.146	46.893	0.000
Treatment Prob(F)							0.0001	0.0001	0.0001	0.0001	0.0001	1.0000

Southern Illinois University

Soybean Response to Glyphosate Tank-Mixtures: Early Planting Date- May 1.

Trial ID: 12-3-W240

Location: Belleville Res. Center

Investigator: Bryan Young

Pest Code Crop Code Rating Date Rating Type							GLXMA Stunt Percent	GLXMA Stunt Percent	GLXMA Stunt Percent	GLXMA Stunt Percent	GLXMA Stunt Percent	GLXMA 10-11-12 Stunt Percent
Rating Unit Rating Timing Trt-Eval Interval							4 DAT	7 DAT	14 DAT	28 DAT	56 DAT	EOS
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Rate	Growth Unit	Appl Stage	Code			
1	ROUNDUP P-MAX N-PAK AMS	4.5 SL 100 SL		0.77 lb ae/a 5 % v/v	22 fl oz/a 5 % v/v		V2-3 V2-3	A A		0 a	0 a	0 a
2	ROUNDUP P-MAX N-PAK AMS	4.5 SL 100 SL		1.55 lb ae/a 5 % v/v	44 fl oz/a 5 % v/v		V2-3 V2-3	A A		0 a	0 a	0 a
3	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.094 lb ai/a 0.77 lb ae/a 5 % v/v	6 fl oz/a 22 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A		0 a	0 a	0 a
4	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.094 lb ai/a 1.55 lb ae/a 5 % v/v	6 fl oz/a 44 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A		0 a	0 a	1 c
5	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.188 lb ai/a 0.77 lb ae/a 5 % v/v	12 fl oz/a 22 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A		0 a	1 a	3 a
6	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.188 lb ai/a 1.55 lb ae/a 5 % v/v	12 fl oz/a 44 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A		0 a	1 a	3 a
7	FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL		0.235 lb ai/a 0.77 lb ae/a 5 % v/v	1 pt/a 22 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A		0 a	0 a	2 b
8	FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL		0.235 lb ai/a 1.55 lb ae/a 5 % v/v	1 pt/a 44 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A		0 a	0 a	2 b
9	FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL		0.375 lb ai/a 0.77 lb ae/a 5 % v/v	1.6 pt/a 22 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A		0 a	0 a	2 c
10	FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL		0.375 lb ai/a 1.55 lb ae/a 5 % v/v	1.6 pt/a 44 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A		0 a	0 a	2 b
11	CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL		0.00427 lb ai/a 0.77 lb ae/a 5 % v/v	0.6 fl oz/a 22 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A		0 a	0 a	0 d
12	CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL		0.00427 lb ai/a 1.55 lb ae/a 5 % v/v	0.6 fl oz/a 44 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A		0 a	0 a	0 d
13	CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL		0.0064 lb ai/a 0.77 lb ae/a 5 % v/v	0.9 fl oz/a 22 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A		0 a	0 a	0 d
14	CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL		0.0064 lb ai/a 1.55 lb ae/a 5 % v/v	0.9 fl oz/a 44 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A		0 a	0 a	0 d
15	ROUNDUP P-MAX N-PAK AMS	4.5 SL 100 SL		0.77 lb ae/a 5 % v/v	22 fl oz/a 5 % v/v		V5-6 V5-6	B B		0 a	0 a	0 d
16	ROUNDUP P-MAX N-PAK AMS	4.5 SL 100 SL		1.55 lb ae/a 5 % v/v	44 fl oz/a 5 % v/v		V5-6 V5-6	B B		0 a	0 a	0 d

Southern Illinois University

Soybean Response to Glyphosate Tank-Mixtures: Early Planting Date- May 1.

Trial ID: 12-3-W240

Location: Belleville Res. Center

Investigator: Bryan Young

Pest Code Crop Code Rating Date Rating Type								GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA		
Rating Unit								Stunt	Stunt	Stunt	Stunt	Stunt	GLXMA 10-11-12 Stunt		
Rating Timing								Percent	Percent	Percent	Percent	Percent	Percent		
Trt-Eval Interval								4 DAT	7 DAT	14 DAT	28 DAT	56 DAT	EOS		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
17	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.094 lb ai/a 0.77 lb ae/a 5 % v/v	ai/a ae/a v/v	6 fl oz/a 22 fl oz/a 5 % v/v	oz/a oz/a v/v	V5-6 V5-6 V5-6	B B B	0 a	0 a	0 d	0 a	0 a	0 a
18	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.094 lb ai/a 1.55 lb ae/a 5 % v/v	ai/a ae/a v/v	6 fl oz/a 44 fl oz/a 5 % v/v	oz/a oz/a v/v	V5-6 V5-6 V5-6	B B B	0 a	0 a	0 d	0 a	0 a	0 a
19	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.188 lb ai/a 0.77 lb ae/a 5 % v/v	ai/a ae/a v/v	12 fl oz/a 22 fl oz/a 5 % v/v	oz/a oz/a v/v	V5-6 V5-6 V5-6	B B B	0 a	0 a	0 d	0 a	0 a	0 a
20	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.188 lb ai/a 1.55 lb ae/a 5 % v/v	ai/a ae/a v/v	12 fl oz/a 44 fl oz/a 5 % v/v	oz/a oz/a v/v	V5-6 V5-6 V5-6	B B B	0 a	0 a	0 d	0 a	0 a	0 a
21	FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL		0.235 lb ai/a 0.77 lb ae/a 5 % v/v	ai/a ae/a v/v	1 pt/a 22 fl oz/a 5 % v/v	pt/a oz/a v/v	V5-6 V5-6 V5-6	B B B	0 a	0 a	0 d	0 a	0 a	0 a
22	FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL		0.235 lb ai/a 1.55 lb ae/a 5 % v/v	ai/a ae/a v/v	1 pt/a 44 fl oz/a 5 % v/v	pt/a oz/a v/v	V5-6 V5-6 V5-6	B B B	0 a	0 a	0 d	0 a	0 a	0 a
23	FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL		0.375 lb ai/a 0.77 lb ae/a 5 % v/v	ai/a ae/a v/v	1.6 pt/a 22 fl oz/a 5 % v/v	pt/a oz/a v/v	V5-6 V5-6 V5-6	B B B	0 a	0 a	0 d	0 a	0 a	0 a
24	FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL		0.375 lb ai/a 1.55 lb ae/a 5 % v/v	ai/a ae/a v/v	1.6 pt/a 44 fl oz/a 5 % v/v	pt/a oz/a v/v	V5-6 V5-6 V5-6	B B B	0 a	0 a	0 d	0 a	0 a	0 a
25	CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL		0.00427 lb ai/a 0.77 lb ae/a 5 % v/v	ai/a ae/a v/v	0.6 fl oz/a 22 fl oz/a 5 % v/v	oz/a oz/a v/v	V5-6 V5-6 V5-6	B B B	0 a	0 a	0 d	0 a	0 a	0 a
26	CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL		0.00427 lb ai/a 1.55 lb ae/a 5 % v/v	ai/a ae/a v/v	0.6 fl oz/a 44 fl oz/a 5 % v/v	oz/a oz/a v/v	V5-6 V5-6 V5-6	B B B	0 a	0 a	0 d	0 a	0 a	0 a
27	CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL		0.0064 lb ai/a 0.77 lb ae/a 5 % v/v	ai/a ae/a v/v	0.9 fl oz/a 22 fl oz/a 5 % v/v	oz/a oz/a v/v	V5-6 V5-6 V5-6	B B B	0 a	0 a	0 d	0 a	0 a	0 a
28	CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL		0.0064 lb ai/a 1.55 lb ae/a 5 % v/v	ai/a ae/a v/v	0.9 fl oz/a 44 fl oz/a 5 % v/v	oz/a oz/a v/v	V5-6 V5-6 V5-6	B B B	0 a	0 a	0 d	0 a	0 a	0 a
29	ROUNDUP P-MAX N-PAK AMS	4.5 SL 100 SL		0.77 lb ae/a 5 % v/v	ae/a v/v	22 fl oz/a 5 % v/v	oz/a v/v	R2 R2	C C	0 a	0 a	0 d	0 a	0 a	0 a
30	ROUNDUP P-MAX N-PAK AMS	4.5 SL 100 SL		1.55 lb ae/a 5 % v/v	ae/a v/v	44 fl oz/a 5 % v/v	oz/a v/v	R2 R2	C C	0 a	0 a	0 d	0 a	0 a	0 a
31	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.094 lb ai/a 0.77 lb ae/a 5 % v/v	ai/a ae/a v/v	6 fl oz/a 22 fl oz/a 5 % v/v	oz/a oz/a v/v	R2 R2 R2	C C C	0 a	0 a	0 d	0 a	0 a	0 a
32	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.094 lb ai/a 1.55 lb ae/a 5 % v/v	ai/a ae/a v/v	6 fl oz/a 44 fl oz/a 5 % v/v	oz/a oz/a v/v	R2 R2 R2	C C C	0 a	0 a	0 d	0 a	0 a	0 a

Southern Illinois University

Soybean Response to Glyphosate Tank-Mixtures: Early Planting Date- May 1.

Trial ID: 12-3-W240

Location: Belleville Res. Center

Investigator: Bryan Young

Pest Code							GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Crop Code							Stunt	Stunt	Stunt	Stunt	Stunt	GLXMA
Rating Date							Percent	Percent	Percent	Percent	Percent	10-11-12
Rating Type							4 DAT	7 DAT	14 DAT	28 DAT	56 DAT	Stunt
Rating Unit												Percent
Rating Timing												
Trt-Eval Interval												EOS
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Other Rate	Other Rate	Growth Unit	Appl Stage	Code		
33	COBRA	2 EC		0.188 lb ai/a		12 fl oz/a		R2	C		0 a	0 a
	ROUNDUP P-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		R2	C			
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		R2	C			
34	COBRA	2 EC		0.188 lb ai/a		12 fl oz/a		R2	C		0 a	0 a
	ROUNDUP P-MAX	4.5 SL		1.55 lb ae/a		44 fl oz/a		R2	C			
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		R2	C			
35	FLEXSTAR	1.88 EC		0.235 lb ai/a		1 pt/a		R2	C		0 a	0 a
	ROUNDUP P-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		R2	C			
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		R2	C			
36	FLEXSTAR	1.88 EC		0.235 lb ai/a		1 pt/a		R2	C		0 a	0 a
	ROUNDUP P-MAX	4.5 SL		1.55 lb ae/a		44 fl oz/a		R2	C			
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		R2	C			
37	FLEXSTAR	1.88 EC		0.375 lb ai/a		1.6 pt/a		R2	C		0 a	0 a
	ROUNDUP P-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		R2	C			
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		R2	C			
38	FLEXSTAR	1.88 EC		0.375 lb ai/a		1.6 pt/a		R2	C		0 a	0 a
	ROUNDUP P-MAX	4.5 SL		1.55 lb ae/a		44 fl oz/a		R2	C			
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		R2	C			
39	CADET	0.91 EC		0.00427 lb ai/a		0.6 fl oz/a		R2	C		0 a	0 a
	ROUNDUP P-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		R2	C			
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		R2	C			
40	CADET	0.91 EC		0.00427 lb ai/a		0.6 fl oz/a		R2	C		0 a	0 a
	ROUNDUP P-MAX	4.5 SL		1.55 lb ae/a		44 fl oz/a		R2	C			
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		R2	C			
41	CADET	0.91 EC		0.0064 lb ai/a		0.9 fl oz/a		R2	C		0 a	0 a
	ROUNDUP P-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		R2	C			
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		R2	C			
42	CADET	0.91 EC		0.0064 lb ai/a		0.9 fl oz/a		R2	C		0 a	0 a
	ROUNDUP P-MAX	4.5 SL		1.55 lb ae/a		44 fl oz/a		R2	C			
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		R2	C			
43	NONTREATED						0 a	0 a	0 d	0 a	0 a	0 a
LSD (P=.05)							0.0	0.6	0.7	0.0	0.0	0.0
Standard Deviation							0.0	0.5	0.5	0.0	0.0	0.0
CV							0.0	659.23	143.65	0.0	0.0	0.0
Replicate F							0.000	0.880	1.038	0.000	0.000	0.000
Replicate Prob(F)							1.0000	0.4537	0.3783	1.0000	1.0000	1.0000
Treatment F							0.000	1.369	11.386	0.000	0.000	0.000
Treatment Prob(F)							1.0000	0.0945	0.0001	1.0000	1.0000	1.0000

Southern Illinois University

Soybean Response to Glyphosate Tank-Mixtures: Early Planting Date- May 1.

Trial ID: 12-3-W240

Location: Belleville Res. Center

Investigator: Bryan Young

Pest Code Crop Code Rating Date Rating Type							GLXMA Chlorosis Percent	GLXMA Chlorosis Percent	GLXMA Chlorosis Percent	GLXMA Chlorosis Percent	GLXMA Chlorosis Percent	GLXMA 10-11-12 Chlorosis Percent			
Rating Unit Rating Timing Trt-Eval Interval							4 DAT	7 DAT	14 DAT	28 DAT	56 DAT	EOS			
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Rate	Growth Unit	Stage	Appl Code						
1	ROUNDUP P-MAX N-PAK AMS	4.5 SL 100 SL		0.77 lb ae/a 5 % v/v	22 fl oz/a 5 % v/v		V2-3 V2-3	A A		0 c	0 g	0 f	0 e	0 a	0 a
2	ROUNDUP P-MAX N-PAK AMS	4.5 SL 100 SL		1.55 lb ae/a 5 % v/v	44 fl oz/a 5 % v/v		V2-3 V2-3	A A		0 c	0 g	0 f	0 e	0 a	0 a
3	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.094 lb ai/a 0.77 lb ae/a 5 % v/v	6 fl oz/a 22 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A		0 c	0 g	0 f	0 e	0 a	0 a
4	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.094 lb ai/a 1.55 lb ae/a 5 % v/v	6 fl oz/a 44 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A		0 c	0 g	0 f	0 e	0 a	0 a
5	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.188 lb ai/a 0.77 lb ae/a 5 % v/v	12 fl oz/a 22 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A		0 c	0 g	0 f	0 e	0 a	0 a
6	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.188 lb ai/a 1.55 lb ae/a 5 % v/v	12 fl oz/a 44 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A		0 c	0 g	0 f	0 e	0 a	0 a
7	FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL		0.235 lb ai/a 0.77 lb ae/a 5 % v/v	1 pt/a 22 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A		0 c	0 g	0 f	0 e	0 a	0 a
8	FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL		0.235 lb ai/a 1.55 lb ae/a 5 % v/v	1 pt/a 44 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A		0 c	0 g	0 f	0 e	0 a	0 a
9	FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL		0.375 lb ai/a 0.77 lb ae/a 5 % v/v	1.6 pt/a 22 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A		0 c	0 g	0 f	0 e	0 a	0 a
10	FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL		0.375 lb ai/a 1.55 lb ae/a 5 % v/v	1.6 pt/a 44 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A		0 c	1 f	0 f	0 e	0 a	0 a
11	CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL		0.00427 lb ai/a 0.77 lb ae/a 5 % v/v	0.6 fl oz/a 22 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A		0 c	0 g	0 f	0 e	0 a	0 a
12	CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL		0.00427 lb ai/a 1.55 lb ae/a 5 % v/v	0.6 fl oz/a 44 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A		0 c	0 g	0 f	0 e	0 a	0 a
13	CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL		0.0064 lb ai/a 0.77 lb ae/a 5 % v/v	0.9 fl oz/a 22 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A		0 c	0 g	0 f	0 e	0 a	0 a
14	CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL		0.0064 lb ai/a 1.55 lb ae/a 5 % v/v	0.9 fl oz/a 44 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A		0 c	0 g	0 f	0 e	0 a	0 a
15	ROUNDUP P-MAX N-PAK AMS	4.5 SL 100 SL		0.77 lb ae/a 5 % v/v	22 fl oz/a 5 % v/v		V5-6 V5-6	B B		0 c	0 g	0 f	0 e	0 a	0 a
16	ROUNDUP P-MAX N-PAK AMS	4.5 SL 100 SL		1.55 lb ae/a 5 % v/v	44 fl oz/a 5 % v/v		V5-6 V5-6	B B		0 c	0 g	0 f	0 e	0 a	0 a

Southern Illinois University

Soybean Response to Glyphosate Tank-Mixtures: Early Planting Date- May 1.

Trial ID: 12-3-W240

Location: Belleville Res. Center

Investigator: Bryan Young

Pest Code Crop Code Rating Date Rating Type								GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA		
Rating Unit Rating Timing Trt-Eval Interval								Chlorosis	Chlorosis	Chlorosis	Chlorosis	Chlorosis	Chlorosis		
								Percent	Percent	Percent	Percent	Percent	Percent		
								4 DAT	7 DAT	14 DAT	28 DAT	56 DAT	EOS		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
17	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.094 lb ai/a 0.77 lb ae/a 5 % v/v	ai/a ae/a v/v	6 fl oz/a 22 fl oz/a 5 % v/v	oz/a oz/a v/v	V5-6 V5-6 V5-6	B B B	0 c	0 g	0 f	0 e	0 a	0 a
18	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.094 lb ai/a 1.55 lb ae/a 5 % v/v	ai/a ae/a v/v	6 fl oz/a 44 fl oz/a 5 % v/v	oz/a oz/a v/v	V5-6 V5-6 V5-6	B B B	0 c	0 g	0 f	0 e	0 a	0 a
19	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.188 lb ai/a 0.77 lb ae/a 5 % v/v	ai/a ae/a v/v	12 fl oz/a 22 fl oz/a 5 % v/v	oz/a oz/a v/v	V5-6 V5-6 V5-6	B B B	0 c	0 g	0 f	0 e	0 a	0 a
20	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.188 lb ai/a 1.55 lb ae/a 5 % v/v	ai/a ae/a v/v	12 fl oz/a 44 fl oz/a 5 % v/v	oz/a oz/a v/v	V5-6 V5-6 V5-6	B B B	0 c	0 g	1 ef	0 e	0 a	0 a
21	FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL		0.235 lb ai/a 0.77 lb ae/a 5 % v/v	ai/a ae/a v/v	1 pt/a 22 fl oz/a 5 % v/v	pt/a oz/a v/v	V5-6 V5-6 V5-6	B B B	0 c	1 f	1 cde	0 e	0 a	0 a
22	FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL		0.235 lb ai/a 1.55 lb ae/a 5 % v/v	ai/a ae/a v/v	1 pt/a 44 fl oz/a 5 % v/v	pt/a oz/a v/v	V5-6 V5-6 V5-6	B B B	0 c	3 d	1 cde	0 e	0 a	0 a
23	FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL		0.375 lb ai/a 0.77 lb ae/a 5 % v/v	ai/a ae/a v/v	1.6 pt/a 22 fl oz/a 5 % v/v	pt/a oz/a v/v	V5-6 V5-6 V5-6	B B B	0 c	3 c	2 bc	1 bc	0 a	0 a
24	FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL		0.375 lb ai/a 1.55 lb ae/a 5 % v/v	ai/a ae/a v/v	1.6 pt/a 44 fl oz/a 5 % v/v	pt/a oz/a v/v	V5-6 V5-6 V5-6	B B B	0 c	5 a	3 a	2 a	0 a	0 a
25	CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL		0.00427 lb ai/a 0.77 lb ae/a 5 % v/v	ai/a ae/a v/v	0.6 fl oz/a 22 fl oz/a 5 % v/v	fl oz/a oz/a v/v	V5-6 V5-6 V5-6	B B B	0 c	0 g	0 f	0 e	0 a	0 a
26	CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL		0.00427 lb ai/a 1.55 lb ae/a 5 % v/v	ai/a ae/a v/v	0.6 fl oz/a 44 fl oz/a 5 % v/v	fl oz/a oz/a v/v	V5-6 V5-6 V5-6	B B B	1 b	0 g	0 ef	0 e	0 a	0 a
27	CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL		0.0064 lb ai/a 0.77 lb ae/a 5 % v/v	ai/a ae/a v/v	0.9 fl oz/a 22 fl oz/a 5 % v/v	fl oz/a oz/a v/v	V5-6 V5-6 V5-6	B B B	0 c	0 g	0 f	0 e	0 a	0 a
28	CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL		0.0064 lb ai/a 1.55 lb ae/a 5 % v/v	ai/a ae/a v/v	0.9 fl oz/a 44 fl oz/a 5 % v/v	fl oz/a oz/a v/v	V5-6 V5-6 V5-6	B B B	0 c	0 g	0 f	0 e	0 a	0 a
29	ROUNDUP P-MAX N-PAK AMS	4.5 SL 100 SL		0.77 lb ae/a 5 % v/v	ae/a v/v	22 fl oz/a 5 % v/v	oz/a v/v	R2 R2	C C	0 c	0 g	0 f	0 e	0 a	0 a
30	ROUNDUP P-MAX N-PAK AMS	4.5 SL 100 SL		1.55 lb ae/a 5 % v/v	ae/a v/v	44 fl oz/a 5 % v/v	oz/a v/v	R2 R2	C C	0 c	0 g	3 a	0 e	0 a	0 a
31	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.094 lb ai/a 0.77 lb ae/a 5 % v/v	ai/a ae/a v/v	6 fl oz/a 22 fl oz/a 5 % v/v	oz/a oz/a v/v	R2 R2 R2	C C C	0 c	0 g	1 ef	0 e	0 a	0 a
32	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.094 lb ai/a 1.55 lb ae/a 5 % v/v	ai/a ae/a v/v	6 fl oz/a 44 fl oz/a 5 % v/v	oz/a oz/a v/v	R2 R2 R2	C C C	0 c	0 g	3 a	1 cd	0 a	0 a

Southern Illinois University

Soybean Response to Glyphosate Tank-Mixtures: Early Planting Date- May 1.

Trial ID: 12-3-W240

Location: Belleville Res. Center

Investigator: Bryan Young

Pest Code							GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	
Crop Code							Chlorosis	Chlorosis	Chlorosis	Chlorosis	Chlorosis	Chlorosis	
Rating Date							Percent	Percent	Percent	Percent	Percent	Percent	
Rating Type							4 DAT	7 DAT	14 DAT	28 DAT	56 DAT	EOS	
Rating Unit													
Rating Timing													
Trt-Eval Interval													
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Other Rate	Other Rate	Growth Unit	Appl Stage	Code			
33	COBRA	2 EC		0.188 lb ai/a		12 fl oz/a		R2	C		0 c	0 g	
	ROUNDUP P-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		R2	C			0 a	
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		R2	C			0 a	
34	COBRA	2 EC		0.188 lb ai/a		12 fl oz/a		R2	C		0 c	0 g	
	ROUNDUP P-MAX	4.5 SL		1.55 lb ae/a		44 fl oz/a		R2	C		3 a	1 cd	
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		R2	C		0 a	0 a	
35	FLEXSTAR	1.88 EC		0.235 lb ai/a		1 pt/a		R2	C		1 b	2 e	
	ROUNDUP P-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		R2	C		2 cd	0 e	
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		R2	C		0 a	0 a	
36	FLEXSTAR	1.88 EC		0.235 lb ai/a		1 pt/a		R2	C		1 a	3 cd	
	ROUNDUP P-MAX	4.5 SL		1.55 lb ae/a		44 fl oz/a		R2	C		3 ab	2 ab	
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		R2	C		0 a	0 a	
37	FLEXSTAR	1.88 EC		0.375 lb ai/a		1.6 pt/a		R2	C		2 a	3 cd	
	ROUNDUP P-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		R2	C		2 bc	1 bc	
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		R2	C		0 a	0 a	
38	FLEXSTAR	1.88 EC		0.375 lb ai/a		1.6 pt/a		R2	C		2 a	4 b	
	ROUNDUP P-MAX	4.5 SL		1.55 lb ae/a		44 fl oz/a		R2	C		3 a	2 a	
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		R2	C		0 a	0 a	
39	CADET	0.91 EC		0.00427 lb ai/a		0.6 fl oz/a		R2	C		0 c	0 g	
	ROUNDUP P-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		R2	C		0 f	0 e	
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		R2	C		0 a	0 a	
40	CADET	0.91 EC		0.00427 lb ai/a		0.6 fl oz/a		R2	C		0 c	0 g	
	ROUNDUP P-MAX	4.5 SL		1.55 lb ae/a		44 fl oz/a		R2	C		2 cd	0 e	
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		R2	C		0 a	0 a	
41	CADET	0.91 EC		0.0064 lb ai/a		0.9 fl oz/a		R2	C		0 c	0 g	
	ROUNDUP P-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		R2	C		1 def	0 e	
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		R2	C		0 a	0 a	
42	CADET	0.91 EC		0.0064 lb ai/a		0.9 fl oz/a		R2	C		0 c	0 g	
	ROUNDUP P-MAX	4.5 SL		1.55 lb ae/a		44 fl oz/a		R2	C		1 ef	0 e	
	N-PAK AMS	100 SL		5 % v/v		5 % v/v		R2	C		0 a	0 a	
43	NONTREATED											0 c	0 g
												0 f	0 e
												0 a	0 a
LSD (P=.05)							0.4	0.5	0.8	0.5	0.0	0.0	
Standard Deviation							0.3	0.4	0.5	0.4	0.0	0.0	
CV							258.04	67.93	80.34	145.37	0.0	0.0	
Replicate F							1.152	0.552	1.479	1.541	0.000	0.000	
Replicate Prob(F)							0.3309	0.6475	0.2236	0.2073	1.0000	1.0000	
Treatment F							5.682	45.782	14.255	9.625	0.000	0.000	
Treatment Prob(F)							0.0001	0.0001	0.0001	0.0001	1.0000	1.0000	

Southern Illinois University

Soybean Response to Glyphosate Tank-Mixtures: Early Planting Date- May 1.

Trial ID: 12-3-W240

Location: Belleville Res. Center

Investigator: Bryan Young

Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval									GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	
									Necrosis Percent	Necrosis Percent	Necrosis Percent	Necrosis Percent	Necrosis Percent	Necrosis Percent	
									4 DAT	7 DAT	14 DAT	28 DAT	56 DAT	10-11-12 EOS	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
1	ROUNDUP P-MAX N-PAK AMS	4.5 SL 100 SL		0.77 lb ae/a 5 % v/v		22 fl oz/a 5 % v/v		V2-3 V2-3	A A	0 k	0 q	0 m	0 f	0 a	0 a
2	ROUNDUP P-MAX N-PAK AMS	4.5 SL 100 SL		1.55 lb ae/a 5 % v/v		44 fl oz/a 5 % v/v		V2-3 V2-3	A A	0 k	0 q	0 m	0 f	0 a	0 a
3	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.094 lb ai/a 0.77 lb ae/a 5 % v/v		6 fl oz/a 22 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A	10 cd	10 de	7 b	0 f	0 a	0 a
4	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.094 lb ai/a 1.55 lb ae/a 5 % v/v		6 fl oz/a 44 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A	12 b	12 abc	7 b	0 f	0 a	0 a
5	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.188 lb ai/a 0.77 lb ae/a 5 % v/v		12 fl oz/a 22 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A	14 a	12 ab	10 a	0 f	0 a	0 a
6	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.188 lb ai/a 1.55 lb ae/a 5 % v/v		12 fl oz/a 44 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A	14 a	12 a	10 a	0 f	0 a	0 a
7	FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL		0.235 lb ai/a 0.77 lb ae/a 5 % v/v		1 pt/a 22 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A	10 d	8 ghi	5 e	0 f	0 a	0 a
8	FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL		0.235 lb ai/a 1.55 lb ae/a 5 % v/v		1 pt/a 44 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A	10 cd	8 gh	5 e	0 f	0 a	0 a
9	FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL		0.375 lb ai/a 0.77 lb ae/a 5 % v/v		1.6 pt/a 22 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A	10 cd	10 ef	7 b	0 f	0 a	0 a
10	FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL		0.375 lb ai/a 1.55 lb ae/a 5 % v/v		1.6 pt/a 44 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A	11 bc	11 cde	7 bc	0 f	0 a	0 a
11	CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL		0.00427 lb ai/a 0.77 lb ae/a 5 % v/v		0.6 fl oz/a 22 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A	7 ef	7 hi	3 fgh	0 f	0 a	0 a
12	CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL		0.00427 lb ai/a 1.55 lb ae/a 5 % v/v		0.6 fl oz/a 44 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A	8 e	7 hi	3 fgh	0 f	0 a	0 a
13	CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL		0.0064 lb ai/a 0.77 lb ae/a 5 % v/v		0.9 fl oz/a 22 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A	10 cd	8 gh	4 fg	0 f	0 a	0 a
14	CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL		0.0064 lb ai/a 1.55 lb ae/a 5 % v/v		0.9 fl oz/a 44 fl oz/a 5 % v/v		V2-3 V2-3 V2-3	A A A	11 c	8 gh	4 f	0 f	0 a	0 a
15	ROUNDUP P-MAX N-PAK AMS	4.5 SL 100 SL		0.77 lb ae/a 5 % v/v		22 fl oz/a 5 % v/v		V5-6 V5-6	B B	0 k	0 q	0 m	0 f	0 a	0 a
16	ROUNDUP P-MAX N-PAK AMS	4.5 SL 100 SL		1.55 lb ae/a 5 % v/v		44 fl oz/a 5 % v/v		V5-6 V5-6	B B	0 k	0 q	0 m	0 f	0 a	0 a

Southern Illinois University

Soybean Response to Glyphosate Tank-Mixtures: Early Planting Date- May 1.

Trial ID: 12-3-W240

Location: Belleville Res. Center

Investigator: Bryan Young

Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval								GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	
								Necrosis Percent	Necrosis Percent	Necrosis Percent	Necrosis Percent	Necrosis Percent	GLXMA 10-11-12 Necrosis Percent	
								4 DAT	7 DAT	14 DAT	28 DAT	56 DAT	EOS	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate	Growth Stage	Appl Code						
17	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.094 lb ai/a 0.77 lb ae/a 5 % v/v	6 fl oz/a 22 fl oz/a 5 % v/v		V5-6 V5-6 V5-6	B B B	7 f	7 ij	4 fg	2 bc	0 a	0 a
18	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.094 lb ai/a 1.55 lb ae/a 5 % v/v	6 fl oz/a 44 fl oz/a 5 % v/v		V5-6 V5-6 V5-6	B B B	7 f	7 ij	4 fg	2 bc	0 a	0 a
19	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.188 lb ai/a 0.77 lb ae/a 5 % v/v	12 fl oz/a 22 fl oz/a 5 % v/v		V5-6 V5-6 V5-6	B B B	7 ef	7 hi	5 e	2 bc	0 a	0 a
20	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.188 lb ai/a 1.55 lb ae/a 5 % v/v	12 fl oz/a 44 fl oz/a 5 % v/v		V5-6 V5-6 V5-6	B B B	8 e	9 fg	5 e	2 b	0 a	0 a
21	FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL		0.235 lb ai/a 0.77 lb ae/a 5 % v/v	1 pt/a 22 fl oz/a 5 % v/v		V5-6 V5-6 V5-6	B B B	3 j	3 p	1 lm	0 f	0 a	0 a
22	FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL		0.235 lb ai/a 1.55 lb ae/a 5 % v/v	1 pt/a 44 fl oz/a 5 % v/v		V5-6 V5-6 V5-6	B B B	3 j	3 p	1 kl	0 f	0 a	0 a
23	FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL		0.375 lb ai/a 0.77 lb ae/a 5 % v/v	1.6 pt/a 22 fl oz/a 5 % v/v		V5-6 V5-6 V5-6	B B B	3 j	2 p	1 lm	0 f	0 a	0 a
24	FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL		0.375 lb ai/a 1.55 lb ae/a 5 % v/v	1.6 pt/a 44 fl oz/a 5 % v/v		V5-6 V5-6 V5-6	B B B	5 gh	3 p	1 kl	0 f	0 a	0 a
25	CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL		0.00427 lb ai/a 0.77 lb ae/a 5 % v/v	0.6 fl oz/a 22 fl oz/a 5 % v/v		V5-6 V5-6 V5-6	B B B	3 j	3 op	2 jk	0 f	0 a	0 a
26	CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL		0.00427 lb ai/a 1.55 lb ae/a 5 % v/v	0.6 fl oz/a 44 fl oz/a 5 % v/v		V5-6 V5-6 V5-6	B B B	3 j	3 op	1 kl	0 f	0 a	0 a
27	CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL		0.0064 lb ai/a 0.77 lb ae/a 5 % v/v	0.9 fl oz/a 22 fl oz/a 5 % v/v		V5-6 V5-6 V5-6	B B B	3 j	3 op	1 kl	0 f	0 a	0 a
28	CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL		0.0064 lb ai/a 1.55 lb ae/a 5 % v/v	0.9 fl oz/a 44 fl oz/a 5 % v/v		V5-6 V5-6 V5-6	B B B	3 j	3 nop	1 kl	0 f	0 a	0 a
29	ROUNDUP P-MAX N-PAK AMS	4.5 SL 100 SL		0.77 lb ae/a 5 % v/v	22 fl oz/a 5 % v/v		R2 R2	C C	0 k	0 q	0 m	0 f	0 a	0 a
30	ROUNDUP P-MAX N-PAK AMS	4.5 SL 100 SL		1.55 lb ae/a 5 % v/v	44 fl oz/a 5 % v/v		R2 R2	C C	0 k	0 q	0 m	0 f	0 a	0 a
31	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.094 lb ai/a 0.77 lb ae/a 5 % v/v	6 fl oz/a 22 fl oz/a 5 % v/v		R2 R2 R2	C C C	8 e	10 de	5 de	4 a	0 a	0 a
32	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.094 lb ai/a 1.55 lb ae/a 5 % v/v	6 fl oz/a 44 fl oz/a 5 % v/v		R2 R2 R2	C C C	8 e	11 bcd	6 de	4 a	0 a	0 a

Southern Illinois University

Soybean Response to Glyphosate Tank-Mixtures: Early Planting Date- May 1.

Trial ID: 12-3-W240

Location: Belleville Res. Center

Investigator: Bryan Young

Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval								GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	
								Necrosis Percent	Necrosis Percent	Necrosis Percent	Necrosis Percent	Necrosis Percent	GLXMA 10-11-12 Necrosis Percent	
								4 DAT	7 DAT	14 DAT	28 DAT	56 DAT	EOS	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate	Growth Stage	Appl Code						
33	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.188 lb ai/a 0.77 lb ae/a 5 % v/v	12 fl oz/a 22 fl oz/a 5 % v/v		R2 R2 R2	C C C	8 e	12 ab	6 cd	5 a	0 a	0 a
34	COBRA ROUNDUP P-MAX N-PAK AMS	2 EC 4.5 SL 100 SL		0.188 lb ai/a 1.55 lb ae/a 5 % v/v	12 fl oz/a 44 fl oz/a 5 % v/v		R2 R2 R2	C C C	8 e	12 abc	6 de	5 a	0 a	0 a
35	FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL		0.235 lb ai/a 0.77 lb ae/a 5 % v/v	1 pt/a 22 fl oz/a 5 % v/v		R2 R2 R2	C C C	4 hij	4 no	2 ijk	1 e	0 a	0 a
36	FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL		0.235 lb ai/a 1.55 lb ae/a 5 % v/v	1 pt/a 44 fl oz/a 5 % v/v		R2 R2 R2	C C C	5 gh	5 kl	3 hi	2 d	0 a	0 a
37	FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL		0.375 lb ai/a 0.77 lb ae/a 5 % v/v	1.6 pt/a 22 fl oz/a 5 % v/v		R2 R2 R2	C C C	3 ij	4 no	3 hi	1 e	0 a	0 a
38	FLEXSTAR ROUNDUP P-MAX N-PAK AMS	1.88 EC 4.5 SL 100 SL		0.375 lb ai/a 1.55 lb ae/a 5 % v/v	1.6 pt/a 44 fl oz/a 5 % v/v		R2 R2 R2	C C C	4 ghi	4 lmn	2 hij	2 cd	0 a	0 a
39	CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL		0.00427 lb ai/a 0.77 lb ae/a 5 % v/v	0.6 fl oz/a 22 fl oz/a 5 % v/v		R2 R2 R2	C C C	4 hij	4 mno	2 hij	1 e	0 a	0 a
40	CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL		0.00427 lb ai/a 1.55 lb ae/a 5 % v/v	0.6 fl oz/a 44 fl oz/a 5 % v/v		R2 R2 R2	C C C	4 g-j	5 klm	3 hi	2 cd	0 a	0 a
41	CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL		0.0064 lb ai/a 0.77 lb ae/a 5 % v/v	0.9 fl oz/a 22 fl oz/a 5 % v/v		R2 R2 R2	C C C	5 g	6 jk	3 gh	2 bc	0 a	0 a
42	CADET ROUNDUP P-MAX N-PAK AMS	0.91 EC 4.5 SL 100 SL		0.0064 lb ai/a 1.55 lb ae/a 5 % v/v	0.9 fl oz/a 44 fl oz/a 5 % v/v		R2 R2 R2	C C C	5 gh	5 kl	3 gh	1 e	0 a	0 a
43	NONTREATED								0 k	0 q	0 m	0 f	0 a	0 a
LSD (P=.05)									1.1	1.1	0.8	0.5	0.0	0.0
Standard Deviation									0.8	0.8	0.5	0.4	0.0	0.0
CV									13.36	13.95	17.22	40.95	0.0	0.0
Replicate F									1.020	0.717	0.488	1.186	0.000	0.000
Replicate Prob(F)									0.3864	0.5434	0.6913	0.3177	1.0000	1.0000
Treatment F									108.453	97.135	94.045	60.561	0.000	0.000
Treatment Prob(F)									0.0001	0.0001	0.0001	0.0001	1.0000	1.0000

Soybean Response to Glyphosate Tank-Mixtures: Early Planting Date- May 1.

Trial ID: 12-3-W240

Location: Belleville Res. Center

Investigator: Bryan Young

Trial Comments

1. Protocol: ISA - Glyph_Tm_Eplant-SIU.
2. Trial is to be maintained weed-free for the duration of the study.
Blanket PRE application of Dual Magnum (1.27 lbai/A) plus Firstrate (0.031 lbai/A) was applied 5-19-12, then hand-weeded as needed.
Ratings: CI (overall, stunting, chlorosis, necrosis) at 4, 7, 14, 28 and 56 DAT.
CI/ stunting and plant heights at harvest.
3. Target planting date is May 1.
4. Yield is required. Measure weight of 200 seeds/plot.
5. DAT = Days after various postemergence applications
Ratings at 4 days after the V2-3, V5-6, and R2 applications were on 6-19-12, 7-6-12, and 7-13-12, respectively.
Ratings at 7 days after the V2-3, V5-6, and R2 applications were on 6-22-12, 7-9-12, and 7-16-12, respectively.
Ratings at 14 days after the V2-3, V5-6, and R2 applications were on 6-29-12, 7-16-12, and 7-23-12, respectively.
Ratings at 28 days after the V2-3, V5-6, and R2 applications were on 7-13-12, 7-30-12, and 8-6-12, respectively.
Ratings at 56 days after the V2-3, V5-6, and R2 applications were on 8-10-12, 8-27-12, and 9-3-12, respectively.
6. Harvested 10-25-12, (2) 30 inch rows by 22 ft.