

Southern Illinois University

Soybean Response to Glyphosate Tank-Mixtures: Late Planting Date - June 15.

Trial ID: 13-NF-S-M110 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Trial Status: F one-year/final Initiation Date: 6-28-13 Completion Date: 11-13-13		Trial Location
City: Belleville Country: USA State/Prov.: Illinois IL Postal Code: 62221		

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

Study Director: Bryan Young Title: Professor Organization: Southern Illinois University Address: 1205 Lincoln Drive - AG 176 - MC 4415 Phone No.: 618-453-7679 City+State/Prov: Carbondale IL Mobile No.: 618-713-6471 Postal Code: 62901 E-mail: bgyoung@siu.edu Country: USA	
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Crop Description	
Crop 1: GLXMA Glycine max Soybean Variety: AG 4005 Description: RR1 Planting Rate, Unit: 75 LB/A Planting Date: 6-28-13 Depth, Unit: 1 IN Planting Method: SEEDED Row Spacing, Unit: 30 IN	

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

Site and Design		
Treated Plot Width: 7.5 FT Total Plot Width: 10 FT Site Type: FIELD Treated Plot Length: 25 FT Total Plot Length: 25 FT Experimental Unit: 1 PLOT Tillage Type: REDTIL reduced-till Replications: 4 Study Design: RACOB L Randomized Complete Block (RCB) Untreated Arrangement: INCLUDED single control randomized in each block		
No.	Previous Crop	Year
1.	ZEAMD	2012

Maintenance	
No.	Maintenance Product Name
1.	N 0 LB/A, P2O5 50 LB/A, K2O 150 LB/A

Soil Description		
% OM: 3 Texture: SIL silt loam pH: 6.1 Soil Name: Winfield CEC: 8		
Additional Measured Elements		
Element	Quantity	Unit
P1	52	lb/A
K	262	lb/A

Moisture and Weather Conditions	
Overall Moisture Conditions: ABONOR 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.	5-31-13	3.46	IN	RAIN	rain	2	DAY			
2.	6-2-13					7	DAY	50	80	F
3.	6-9-13					7	DAY	59	94	F
4.	6-10-13	0.48	IN	RAIN	rain	2	DAY			
5.	6-16-13					7	DAY	61	90	F
6.	6-17-13	2.16	IN	RAIN	rain	3	DAY			
7.	6-23-13	5.33	IN	RAIN	rain	2	DAY			
8.	6-23-13					7	DAY	64	92	F
9.	6-26-13	0.46	IN	RAIN	rain	1	DAY			
10.	6-29-13	0.19	IN	RAIN	rain	2	DAY			
11.	6-30-13					7	DAY	61	86	F
12.	7-2-13	2.08	IN	RAIN	rain	2	DAY			
13.	7-7-13					7	DAY	62	94	F
14.	7-10-13	0.2	IN	RAIN	rain	1	DAY			
15.	7-14-13					7	DAY	64	94	F
16.	7-15-13	0.03	IN	RAIN	rain	1	DAY			
17.	7-20-13	0.59	IN	RAIN	rain	1	DAY			
18.	7-21-13					7	DAY	56	91	F
19.	7-26-13	0.03	IN	RAIN	rain	1	DAY			
20.	7-28-13					7	DAY	52	87	F
21.	7-30-13	0.46	IN	RAIN	rain	1	DAY			
22.	8-2-13	0.24	IN	RAIN	rain	1	DAY			
23.	8-4-13					7	DAY	62	87	F
24.	8-8-13	0.03	IN	RAIN	rain	3	DAY			
25.	8-11-13					7	DAY	54	85	F
26.	8-12-13	0.57	IN	RAIN	rain	1	DAY			
27.	8-18-13	0.1	IN	RAIN	rain	1	DAY			
28.	8-18-13					7	DAY	61	91	F
29.	8-25-13					7	DAY	62	100	F
30.	8-31-13	0.74	IN	RAIN	rain	1	DAY			
31.	9-1-13					7	DAY	57	92	F
32.	9-8-13	0.26	IN	RAIN	rain	1	DAY			

Application Description

	A	B	C
Application Date:	7-23-13	7-31-13	8-9-13
Appl. Start Time:	8:00	10:00	9:30
Appl. Stop Time:	9:00	11:20	10:30
Application Method:	Spray	Spray	Spray
Application Timing:	V2-3	V5-6	R2
Application Placement:	BROFOL	BROFOL	BROFOL
Applied By:	LXF	LXF	RJW
Air Temperature, Unit:	82 F	75 F	75 F
% Relative Humidity:	74	94	90
Wind Velocity, Unit:	1 MPH	2 MPH	4 MPH
Wind Direction:	E	E	NE
Dew Presence (Y/N):	N	N	N
Soil Temperature, Unit:	81 F	75 F	75 F
Soil Moisture:	NORMAL	ABONOR	NORMAL
% Cloud Cover:	30	70	50
Next Moisture Occurred On:	7-30-13	8-2-13	8-12-13
Time to Next Moisture, Unit:	7 DAY	2 DAY	3 DAY

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Trial ID: 13-NF-S-M110 Location: Belleville Res. Center Trial Year: 2013
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	A		B		C	
Crop 1 Code, BBCH Scale:	GLXMA		GLXMA		GLXMA	
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:	12	IN	16	IN	22	IN
Height Minimum, Maximum:	10	12	15	16	18	22

Pest Stage At Each Application

	A		B		C	
Pest 1 Code, Type, Scale:	NA	W	NA	W	NA	W
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 Rating Unit Rating Timing Trt-Eval Interval										GLXMA 11-7-13 Height cm At Harvest	GLXMA 11-13-13 Moisture Percent	GLXMA 11-13-13 Test wt. lb/bu	GLXMA 11-13-13 Yield bu/A	GLXMA 11-13-13 200 Seed Wt gram
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
1	ROUNDUP PMAX 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	87.9 a-h	12.8 a	58.1 a	61 ab	34.69 a
2	ROUNDUP PMAX 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	87.7 a-h	12.8 a	58.1 a	54 c-j	35.35 a
3	COBRA ROUNDUP PMAX 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	84.6 e-k	12.6 a	58.1 a	55 c-j	32.24 a
4	COBRA ROUNDUP PMAX 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	85.5 c-k	12.4 a	58.3 a	58 a-f	35.03 a
5	COBRA ROUNDUP PMAX 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	81.4 j-m	12.4 a	58.4 a	53 e-j	32.45 a
6	COBRA ROUNDUP PMAX 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	80.8 klm	12.2 a	58.6 a	55 c-i	34.77 a
7	FLEXSTAR ROUNDUP PMAX 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	86.4 a-j	12.6 a	58.1 a	55 c-i	33.86 a
8	FLEXSTAR ROUNDUP PMAX 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	80.9 klm	12.4 a	58.4 a	55 c-j	34.42 a
9	FLEXSTAR ROUNDUP PMAX 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	85.9 b-k	12.5 a	58.4 a	57 a-g	34.64 a
10	FLEXSTAR ROUNDUP PMAX 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	85.1 c-k	12.7 a	58.1 a	55 a-i	34.93 a
11	CADET ROUNDUP PMAX 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	83.0 h-l	12.4 a	58.4 a	57 a-g	33.61 a
12	CADET ROUNDUP PMAX 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	89.8 abc	12.4 a	58.5 a	62 a	35.07 a
13	CADET ROUNDUP PMAX 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	90.8 ab	12.7 a	58.2 a	61 ab	35.10 a
14	CADET ROUNDUP PMAX 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	86.8 a-i	12.6 a	58.3 a	60 abc	35.46 a
15	ROUNDUP PMAX 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	85.7 b-k	12.5 a	58.4 a	59 a-e	33.79 a
16	ROUNDUP PMAX 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	88.7 a-f	12.6 a	58.3 a	54 c-j	32.66 a

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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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
17	COBRA ROUNDUP PMAX 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	78.2 lm	12.6 a	58.2 a	53 f-j	32.75 a
18	COBRA ROUNDUP PMAX 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	76.8 m	12.3 a	58.6 a	50 ij	32.39 a
19	COBRA ROUNDUP PMAX 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	83.4 g-k	12.4 a	58.5 a	54 d-j	34.22 a
20	COBRA ROUNDUP PMAX 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	82.2 i-l	12.5 a	58.3 a	53 d-j	32.76 a
21	FLEXSTAR ROUNDUP PMAX 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	87.3 a-i	12.7 a	58.1 a	54 d-j	32.61 a
22	FLEXSTAR ROUNDUP PMAX 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	86.1 a-j	12.4 a	58.4 a	55 b-i	32.22 a
23	FLEXSTAR ROUNDUP PMAX 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	85.7 b-k	12.4 a	58.4 a	56 a-i	34.80 a
24	FLEXSTAR ROUNDUP PMAX 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	85.2 c-k	12.6 a	58.3 a	53 e-j	34.98 a
25	CADET ROUNDUP PMAX 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	88.4 a-g	12.3 a	58.5 a	57 a-g	35.15 a
26	CADET ROUNDUP PMAX 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	84.0 f-k	12.7 a	58.2 a	53 d-j	32.62 a
27	CADET ROUNDUP PMAX 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	86.4 a-j	12.5 a	58.5 a	56 a-h	34.84 a
28	CADET ROUNDUP PMAX 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	85.0 c-k	12.8 a	58.0 a	53 d-j	33.07 a
29	ROUNDUP PMAX 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	89.7 a-e	12.4 a	58.5 a	59 a-d	34.57 a
30	ROUNDUP PMAX 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	86.5 a-j	12.5 a	58.3 a	56 a-i	34.09 a
31	COBRA ROUNDUP PMAX 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	87.2 a-i	12.5 a	58.4 a	56 a-i	35.05 a
32	COBRA ROUNDUP PMAX 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	83.3 g-k	12.7 a	58.3 a	49 j	33.60 a

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
33	COBRA ROUNDUP PMAX 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	83.0 h-l	12.4 a	58.4 a	51 hij	34.73 a
34	COBRA ROUNDUP PMAX 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	84.7 d-k	12.4 a	58.6 a	51 g-j	34.76 a
35	FLEXSTAR ROUNDUP PMAX 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	83.5 g-k	12.3 a	58.5 a	54 d-j	34.21 a
36	FLEXSTAR ROUNDUP PMAX 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	86.2 a-j	12.3 a	58.6 a	54 c-j	35.35 a
37	FLEXSTAR ROUNDUP PMAX 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	89.8 abc	12.9 a	58.0 a	58 a-f	35.81 a
38	FLEXSTAR ROUNDUP PMAX 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	84.8 c-k	12.6 a	58.3 a	57 a-g	35.90 a
39	CADET ROUNDUP PMAX 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	89.8 a-d	12.8 a	58.1 a	57 a-g	36.06 a
40	CADET ROUNDUP PMAX 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	88.3 a-g	12.5 a	58.3 a	55 c-j	35.09 a
41	CADET ROUNDUP PMAX 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	87.5 a-h	12.3 a	58.5 a	55 c-j	33.96 a
42	CADET ROUNDUP PMAX 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	88.3 a-g	12.4 a	58.4 a	56 a-i	35.90 a
43	NONTREATED									91.0 a	12.7 a	58.2 a	57 a-h	34.93 a
LSD (P=.05)									5.11	0.72	0.79	6.1	2.725	
Standard Deviation									3.65	0.51	0.56	4.4	1.946	
CV									4.26	4.09	0.97	7.86	5.68	
Replicate F									29.240	0.881	0.800	27.427	23.760	
Replicate Prob(F)									0.0001	0.4531	0.4958	0.0001	0.0001	
Treatment F									3.004	0.425	0.378	1.741	1.318	
Treatment Prob(F)									0.0001	0.9990	0.9997	0.0099	0.1233	

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										Injury Percent	Injury Percent	Injury Percent	Injury Percent	Injury Percent	Injury Percent
										4 DAT	7 DAT	14 DAT	28 DAT	56 DAT	At Harvest
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate	Growth Unit Stage	Appl Code						
1	ROUNDUP PMAX 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	1 o	0 t	0 p	0 k	0 d	0 a
2	ROUNDUP PMAX 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	3 no	0 t	0 p	0 k	0 d	0 a
3	COBRA ROUNDUP PMAX 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	24 fgh	26 ef	19 bc	4 f-i	0 d	0 a
4	COBRA ROUNDUP PMAX 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	26 ef	28 de	18 c	5 efg	0 d	0 a
5	COBRA ROUNDUP PMAX 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	30 cd	34 ab	23 a	8 cd	1 bc	0 a
6	COBRA ROUNDUP PMAX 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	28 de	32 bc	21 b	6 ef	0 d	0 a
7	FLEXSTAR ROUNDUP PMAX 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	19 jk	17 k	12 fg	2 ijk	0 d	0 a
8	FLEXSTAR ROUNDUP PMAX 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	20 ijk	18 jk	13 ef	2 hij	0 d	0 a
9	FLEXSTAR ROUNDUP PMAX 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	21 hij	22 hi	14 ef	2 ijk	0 d	0 a
10	FLEXSTAR ROUNDUP PMAX 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	22 hi	22 hi	13 ef	2 h-k	0 d	0 a
11	CADET ROUNDUP PMAX 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	9 m	6 m-p	5 l-o	0 k	0 d	0 a
12	CADET ROUNDUP PMAX 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	9 m	7 mno	4 l-o	0 k	0 d	0 a
13	CADET ROUNDUP PMAX 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	9 m	7 mn	5 l-o	0 k	0 d	0 a
14	CADET ROUNDUP PMAX 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	10 m	7 m	5 l-o	0 k	0 d	0 a
15	ROUNDUP PMAX 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	1 o	1 st	0 p	0 k	0 d	0 a
16	ROUNDUP PMAX 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	1 o	4 o-s	0 p	0 k	0 d	0 a

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Soybean Response to Glyphosate Tank-Mixtures: Late Planting Date - June 15.

Trial ID: 13-NF-S-M110 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval										GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
										Injury Percent	Injury Percent	Injury Percent	Injury Percent	Injury Percent	Injury Percent
										4 DAT	7 DAT	14 DAT	28 DAT	56 DAT	At Harvest
Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
17	COBRA ROUNDUP PMAX 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	31 bc	30 cd	6 j-m	2 ijk	1 cd	0 a
18	COBRA ROUNDUP PMAX 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	33 ab	36 a	7 jkl	4 f-i	2 ab	0 a
19	COBRA ROUNDUP PMAX 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	34 a	35 a	8 hij	5 efg	1 bc	0 a
20	COBRA ROUNDUP PMAX 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	33 ab	36 a	8 hij	5 efg	3 a	0 a
21	FLEXSTAR ROUNDUP PMAX 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	23 gh	22 ghi	3 o	1 jk	0 d	0 a
22	FLEXSTAR ROUNDUP PMAX 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	23 fgh	24 fgh	4 no	0 k	0 d	0 a
23	FLEXSTAR ROUNDUP PMAX 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	23 gh	21 hij	4 no	0 k	0 d	0 a
24	FLEXSTAR ROUNDUP PMAX 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	25 efg	25 fg	3 o	1 jk	1 cd	0 a
25	CADET ROUNDUP PMAX 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	15 l	14 l	3 o	0 k	0 d	0 a
26	CADET ROUNDUP PMAX 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	18 k	17 k	3 o	0 k	0 d	0 a
27	CADET ROUNDUP PMAX 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	19 jk	17 k	3 o	0 k	0 d	0 a
28	CADET ROUNDUP PMAX 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	21 hij	20 ij	4 mno	0 k	0 d	0 a
29	ROUNDUP PMAX 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 o	0 t	0 p	0 k	0 d	0 a
30	ROUNDUP PMAX 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 o	0 t	0 p	0 k	0 d	0 a
31	COBRA ROUNDUP PMAX 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	26 ef	16 kl	17 cd	9 bcd	0 d	0 a
32	COBRA ROUNDUP PMAX 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	28 de	17 k	17 cd	10 abc	1 cd	0 a

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Soybean Response to Glyphosate Tank-Mixtures: Late Planting Date - June 15.

Trial ID: 13-NF-S-M110 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

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 Injury Percent At Harvest
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
33	COBRA ROUNDUP PMAX 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	31 bc	22 hi	19 bc	11 ab 2 bc 0 a
34	COBRA ROUNDUP PMAX 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	29 cd	17 k	15 de	11 a 3 a 0 a
35	FLEXSTAR ROUNDUP PMAX 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	5 n	5 m-r	7 ijk	5 efg 0 d 0 a
36	FLEXSTAR ROUNDUP PMAX 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	9 m	6 m-q	9 hi	5 efg 0 d 0 a
37	FLEXSTAR ROUNDUP PMAX 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	10 m	7 m	10 gh	5 efg 0 d 0 a
38	FLEXSTAR ROUNDUP PMAX 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	10 m	7 m	10 gh	7 de 0 d 0 a
39	CADET ROUNDUP PMAX 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 n	2 rst	3 o	3 ghi 0 d 0 a
40	CADET ROUNDUP PMAX 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 n	3 q-t	6 j-m	4 fgh 0 d 0 a
41	CADET ROUNDUP PMAX 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 n	4 p-s	6 k-n	4 fgh 0 d 0 a
42	CADET ROUNDUP PMAX 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	6 n	4 n-r	5 k-o	4 f-i 0 d 0 a
43	NONTREATED									0 o	0 t	0 p	0 k 0 d 0 a
LSD (P=.05)								2.9	2.9	2.3	2.1	1.1	0.0
Standard Deviation								2.1	2.1	1.6	1.5	0.8	0.0
CV								12.94	14.19	21.12	53.93	231.82	0.0
Replicate F								3.773	4.746	0.800	2.142	1.007	0.000
Replicate Prob(F)								0.0124	0.0036	0.4959	0.0982	0.3921	1.0000
Treatment F								115.210	119.172	65.052	18.103	3.856	0.000
Treatment Prob(F)								0.0001	0.0001	0.0001	0.0001	0.0001	1.0000

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Soybean Response to Glyphosate Tank-Mixtures: Late Planting Date - June 15.

Trial ID: 13-NF-S-M110 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval									GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
									Stunt Percent	Stunt Percent	Stunt Percent	Stunt Percent	Stunt Percent	Stunt Percent
									4 DAT	7 DAT	14 DAT	28 DAT	56 DAT	At Harvest
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Other Rate	Other Rate	Growth Unit	Appl Stage	Appl Code				
1	ROUNDUP PMAX 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 h	0 j	0 h	0 d
2	ROUNDUP PMAX 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 h	0 j	0 h	0 d
3	COBRA ROUNDUP PMAX 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		3 efg	13 bc	7 bc	4 cde
4	COBRA ROUNDUP PMAX 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		3 efg	13 bc	8 b	5 bc
5	COBRA ROUNDUP PMAX 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		8 bc	18 a	12 a	8 a
6	COBRA ROUNDUP PMAX 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		5 def	15 b	9 b	6 b
7	FLEXSTAR ROUNDUP PMAX 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 h	3 hi	3 def	2 fgh
8	FLEXSTAR ROUNDUP PMAX 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 h	6 efg	6 c	2 d-g
9	FLEXSTAR ROUNDUP PMAX 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		2 fgh	9 de	4 d	2 fgh
10	FLEXSTAR ROUNDUP PMAX 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		5 def	10 cd	6 c	2 efg
11	CADET ROUNDUP PMAX 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 h	0 j	0 h	0 h
12	CADET ROUNDUP PMAX 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 h	0 j	0 h	0 h
13	CADET ROUNDUP PMAX 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 h	0 j	0 h	0 h
14	CADET ROUNDUP PMAX 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 h	0 j	0 h	0 h
15	ROUNDUP PMAX 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 h	0 j	0 h	0 h
16	ROUNDUP PMAX 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 h	0 j	0 h	0 h

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Soybean Response to Glyphosate Tank-Mixtures: Late Planting Date - June 15.

Trial ID: 13-NF-S-M110 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval										GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
										Stunt Percent	Stunt Percent	Stunt Percent	Stunt Percent	Stunt Percent	Stunt Percent
										4 DAT	7 DAT	14 DAT	28 DAT	56 DAT	At Harvest
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
17	COBRA ROUNDUP PMAX 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	11 a	8 def	1 fgh	2 fgh	1 cd	0 a
18	COBRA ROUNDUP PMAX 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	13 a	9 def	2 e-h	4 cde	2 ab	0 a
19	COBRA ROUNDUP PMAX 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	13 a	9 d	3 de	5 bc	1 cd	0 a
20	COBRA ROUNDUP PMAX 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	11 a	9 def	2 d-g	5 bc	3 a	0 a
21	FLEXSTAR ROUNDUP PMAX 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	8 bc	6 fg	0 h	1 gh	0 d	0 a
22	FLEXSTAR ROUNDUP PMAX 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	8 bc	5 gh	0 h	0 h	0 d	0 a
23	FLEXSTAR ROUNDUP PMAX 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	9 b	5 gh	0 h	0 h	0 d	0 a
24	FLEXSTAR ROUNDUP PMAX 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	7 bcd	4 ghi	0 h	1 gh	1 cd	0 a
25	CADET ROUNDUP PMAX 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	2 fgh	0 j	0 h	0 h	0 d	0 a
26	CADET ROUNDUP PMAX 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	4 ef	2 ij	0 h	0 h	0 d	0 a
27	CADET ROUNDUP PMAX 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	6 cde	2 ij	0 h	0 h	0 d	0 a
28	CADET ROUNDUP PMAX 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	7 bcd	2 hij	0 h	0 h	0 d	0 a
29	ROUNDUP PMAX 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 h	0 j	0 h	0 h	0 d	0 a
30	ROUNDUP PMAX 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 h	0 j	0 h	0 h	0 d	0 a
31	COBRA ROUNDUP PMAX 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	1 gh	0 j	1 gh	2 fgh	0 d	0 a
32	COBRA ROUNDUP PMAX 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	3 fg	2 ij	1 gh	3 c-f	1 cd	0 a

Southern Illinois University

Soybean Response to Glyphosate Tank-Mixtures: Late Planting Date - June 15.

Trial ID: 13-NF-S-M110 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval								GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
								Stunt Percent	Stunt Percent	Stunt Percent	Stunt Percent	Stunt Percent	Stunt Percent
								4 DAT	7 DAT	14 DAT	28 DAT	56 DAT	At Harvest
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
33	COBRA ROUNDUP PMAX 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	3 efg	2 hij	1 fgh	3 d-g 2 bc 0 a
34	COBRA ROUNDUP PMAX 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	2 fgh	2 ij	1 gh	4 bcd 3 a 0 a
35	FLEXSTAR ROUNDUP PMAX 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	0 h	0 j	0 h	0 h 0 d 0 a
36	FLEXSTAR ROUNDUP PMAX 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	0 h	0 j	0 h	0 h 0 d 0 a
37	FLEXSTAR ROUNDUP PMAX 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	0 h	0 j	0 h	0 h 0 d 0 a
38	FLEXSTAR ROUNDUP PMAX 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	0 h	0 j	0 h	0 h 0 d 0 a
39	CADET ROUNDUP PMAX 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	0 h	0 j	0 h	0 h 0 d 0 a
40	CADET ROUNDUP PMAX 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	0 h	0 j	0 h	0 h 0 d 0 a
41	CADET ROUNDUP PMAX 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	0 h	0 j	0 h	0 h 0 d 0 a
42	CADET ROUNDUP PMAX 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	0 h	0 j	0 h	0 h 0 d 0 a
43	NONTREATED									0 h	0 j	0 h	0 h 0 d 0 a
LSD (P=.05)								2.6	2.6	1.9	1.8	1.1	0.0
Standard Deviation								1.9	1.9	1.4	1.3	0.8	0.0
CV								62.85	53.24	90.92	98.88	240.13	0.0
Replicate F								0.658	0.609	0.872	1.215	1.105	0.000
Replicate Prob(F)								0.5797	0.6106	0.4575	0.3070	0.3498	1.0000
Treatment F								17.119	26.425	18.276	9.379	3.751	0.000
Treatment Prob(F)								0.0001	0.0001	0.0001	0.0001	0.0001	1.0000

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Investigator: Bryan Young

Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval								GLXMA Chlorosis Percent 4 DAT	GLXMA Chlorosis Percent 7 DAT	GLXMA Chlorosis Percent 14 DAT	GLXMA Chlorosis Percent 28 DAT	GLXMA Chlorosis Percent 56 DAT	GLXMA Chlorosis Percent 56 DAT
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	ROUNDUP PMAX 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	1 bc	0 e	0 a	0 a
2	ROUNDUP PMAX 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	3 a	0 e	0 a	0 a
3	COBRA ROUNDUP PMAX 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 e	0 a	0 a
4	COBRA ROUNDUP PMAX 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 e	0 a	0 a
5	COBRA ROUNDUP PMAX 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 e	0 a	0 a
6	COBRA ROUNDUP PMAX 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 e	0 a	0 a
7	FLEXSTAR ROUNDUP PMAX 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 e	0 a	0 a
8	FLEXSTAR ROUNDUP PMAX 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 e	0 a	0 a
9	FLEXSTAR ROUNDUP PMAX 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 e	0 a	0 a
10	FLEXSTAR ROUNDUP PMAX 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	0 e	0 a	0 a
11	CADET ROUNDUP PMAX 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 e	0 a	0 a
12	CADET ROUNDUP PMAX 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 e	0 a	0 a
13	CADET ROUNDUP PMAX 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 e	0 a	0 a
14	CADET ROUNDUP PMAX 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 e	0 a	0 a
15	ROUNDUP PMAX 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	1 bc	1 e	0 a	0 a
16	ROUNDUP PMAX 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	1 bc	4 d	0 a	0 a

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Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval									GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
									Chlorosis Percent	Chlorosis Percent	Chlorosis Percent	Chlorosis Percent	Chlorosis Percent	Chlorosis Percent
									4 DAT	7 DAT	14 DAT	28 DAT	56 DAT	56 DAT
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
17	COBRA ROUNDUP PMAX 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	1 bc	6 c	0 a	0 a	0 a
18	COBRA ROUNDUP PMAX 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	1 b	10 a	0 a	0 a	0 a
19	COBRA ROUNDUP PMAX 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	0 c	7 b	0 a	0 a	0 a
20	COBRA ROUNDUP PMAX 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	0 c	10 a	0 a	0 a	0 a
21	FLEXSTAR ROUNDUP PMAX 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	0 c	4 d	0 a	0 a	0 a
22	FLEXSTAR ROUNDUP PMAX 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 a	7 b	0 a	0 a	0 a
23	FLEXSTAR ROUNDUP PMAX 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	0 c	4 d	0 a	0 a	0 a
24	FLEXSTAR ROUNDUP PMAX 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	3 a	8 b	0 a	0 a	0 a
25	CADET ROUNDUP PMAX 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	0 c	4 d	0 a	0 a	0 a
26	CADET ROUNDUP PMAX 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	1 bc	6 c	0 a	0 a	0 a
27	CADET ROUNDUP PMAX 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	0 c	3 d	0 a	0 a	0 a
28	CADET ROUNDUP PMAX 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	1 bc	6 c	0 a	0 a	0 a
29	ROUNDUP PMAX 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 c	0 e	0 a	0 a	0 a
30	ROUNDUP PMAX 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 c	0 e	0 a	0 a	0 a
31	COBRA ROUNDUP PMAX 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	0 c	0 e	0 a	0 a	0 a
32	COBRA ROUNDUP PMAX 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	0 c	0 e	0 a	0 a	0 a

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Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval								GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
								Chlorosis Percent	Chlorosis Percent	Chlorosis Percent	Chlorosis Percent	Chlorosis Percent	Chlorosis Percent
								4 DAT	7 DAT	14 DAT	28 DAT	56 DAT	56 DAT
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
33	COBRA	2 EC		0.188 lb ai/a		12 fl oz/a		R2	C	0 c	0 e	0 a	0 a
	ROUNDUP PMAX	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 c	0 e	0 a	0 a
	ROUNDUP PMAX	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 c	0 e	0 a	0 a
	ROUNDUP PMAX	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 c	0 e	0 a	0 a
	ROUNDUP PMAX	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 c	0 e	0 a	0 a
	ROUNDUP PMAX	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 c	0 e	0 a	0 a
	ROUNDUP PMAX	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 c	0 e	0 a	0 a
	ROUNDUP PMAX	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 c	0 e	0 a	0 a
	ROUNDUP PMAX	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 c	0 e	0 a	0 a
	ROUNDUP PMAX	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 c	0 e	0 a	0 a
	ROUNDUP PMAX	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 c	0 e	0 a	0 a
LSD (P=.05)								1.2	1.0	0.0	0.0	0.0	0.0
Standard Deviation								0.8	0.7	0.0	0.0	0.0	0.0
CV								279.84	39.62	0.0	0.0	0.0	0.0
Replicate F								2.708	6.392	0.000	0.000	0.000	0.000
Replicate Prob(F)								0.0481	0.0005	1.0000	1.0000	1.0000	1.0000
Treatment F								2.737	70.931	0.000	0.000	0.000	0.000
Treatment Prob(F)								0.0001	0.0001	1.0000	1.0000	1.0000	1.0000

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									Necrosis Percent	Necrosis Percent	Necrosis Percent	Necrosis Percent	Necrosis Percent	Necrosis Percent
									4 DAT	7 DAT	14 DAT	28 DAT	56 DAT	56 DAT
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Other Rate	Other Rate	Growth Unit	Appl Code					
1	ROUNDUP PMAX 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 p	0 p	0 q	0 f	0 a
2	ROUNDUP PMAX 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 p	0 p	0 q	0 f	0 a
3	COBRA ROUNDUP PMAX 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	23 ef	18 bcd	13 cde	0 f	0 a
4	COBRA ROUNDUP PMAX 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	25 de	20 bc	11 efg	0 f	0 a
5	COBRA ROUNDUP PMAX 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	26 bcd	20 b	15 bc	0 f	0 a
6	COBRA ROUNDUP PMAX 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	25 de	20 bc	14 bcd	0 f	0 a
7	FLEXSTAR ROUNDUP PMAX 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	19 hi	11 i	7 klm	0 f	0 a
8	FLEXSTAR ROUNDUP PMAX 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	20 gh	12 hi	9 h-k	0 f	0 a
9	FLEXSTAR ROUNDUP PMAX 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	20 gh	14 gh	9 g-j	0 f	0 a
10	FLEXSTAR ROUNDUP PMAX 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	20 gh	12 hi	8 i-l	0 f	0 a
11	CADET ROUNDUP PMAX 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	8 mn	6 jkl	4 op	0 f	0 a
12	CADET ROUNDUP PMAX 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	9 m	7 jk	4 nop	0 f	0 a
13	CADET ROUNDUP PMAX 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	9 m	7 j	4 nop	0 f	0 a
14	CADET ROUNDUP PMAX 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	10 m	7 j	4 op	0 f	0 a
15	ROUNDUP PMAX 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 p	0 p	0 q	0 f	0 a
16	ROUNDUP PMAX 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 p	0 p	0 q	0 f	0 a

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Soybean Response to Glyphosate Tank-Mixtures: Late Planting Date - June 15.

Trial ID: 13-NF-S-M110 Location: Belleville Res. Center Trial Year: 2013
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	56 DAT
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
17	COBRA ROUNDUP PMAX 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	26 bcd	25 a	6 l-o	0 f	0 a
18	COBRA ROUNDUP PMAX 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	26 a-d	25 a	6 l-o	0 f	0 a
19	COBRA ROUNDUP PMAX 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	28 ab	25 a	6 lmn	0 f	0 a
20	COBRA ROUNDUP PMAX 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	28 abc	26 a	6 lmn	0 f	0 a
21	FLEXSTAR ROUNDUP PMAX 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	19 ghi	17 def	3 p	0 f	0 a
22	FLEXSTAR ROUNDUP PMAX 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	19 ghi	18 cde	4 op	0 f	0 a
23	FLEXSTAR ROUNDUP PMAX 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	17 hij	17 def	4 op	0 f	0 a
24	FLEXSTAR ROUNDUP PMAX 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	21 fg	20 b	3 p	0 f	0 a
25	CADET ROUNDUP PMAX 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	13 l	11 i	3 p	0 f	0 a
26	CADET ROUNDUP PMAX 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	14 kl	12 hi	3 p	0 f	0 a
27	CADET ROUNDUP PMAX 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	16 jkl	15 fg	3 p	0 f	0 a
28	CADET ROUNDUP PMAX 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	17 ijk	16 ef	4 nop	0 f	0 a
29	ROUNDUP PMAX 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 p	0 p	0 q	0 f	0 a
30	ROUNDUP PMAX 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 p	0 p	0 q	0 f	0 a
31	COBRA ROUNDUP PMAX 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	25 cde	16 def	16 ab	7 a	0 a
32	COBRA ROUNDUP PMAX 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	25 cde	15 fg	16 ab	6 a	0 a

Southern Illinois University

Soybean Response to Glyphosate Tank-Mixtures: Late Planting Date - June 15.

Trial ID: 13-NF-S-M110 Location: Belleville Res. Center Trial Year: 2013
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	56 DAT
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
33	COBRA ROUNDUP PMAX 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	29 a	19 bc	18 a	7 a 0 a 0 a
34	COBRA ROUNDUP PMAX 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	27 a-d	16 efg	12 def	6 a 0 a 0 a
35	FLEXSTAR ROUNDUP PMAX 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	5 o	5 k-n	7 j-m	5 bc 0 a 0 a
36	FLEXSTAR ROUNDUP PMAX 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	9 m	6 j-m	9 g-j	5 b 0 a 0 a
37	FLEXSTAR ROUNDUP PMAX 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	10 m	7 j	10 fgh	5 b 0 a 0 a
38	FLEXSTAR ROUNDUP PMAX 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	10 m	7 j	10 f-i	5 b 0 a 0 a
39	CADET ROUNDUP PMAX 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 o	2 o	3 p	3 e 0 a 0 a
40	CADET ROUNDUP PMAX 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 o	3 no	6 lmn	3 e 0 a 0 a
41	CADET ROUNDUP PMAX 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 o	4 mno	6 l-o	4 cd 0 a 0 a
42	CADET ROUNDUP PMAX 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	6 no	4 l-o	5 m-p	4 de 0 a 0 a
43	NONTREATED									0 p	0 p	0 q	0 f 0 a 0 a
LSD (P=.05)								2.6	2.1	2.3	0.6	0.0	0.0
Standard Deviation								1.8	1.5	1.6	0.4	0.0	0.0
CV								12.97	13.38	26.63	31.47	0.0	0.0
Replicate F								2.037	2.766	1.494	2.410	0.000	0.000
Replicate Prob(F)								0.1120	0.0446	0.2194	0.0701	1.0000	1.0000
Treatment F								110.878	116.207	35.257	116.189	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: Late Planting Date - June 15.

Trial ID: 13-NF-S-M110 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Trial Comments

1. Protocol: ISA - Glyph_Tm_Lplant-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), 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 June 15.
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 7-27-13, 8-4-13, and 8-13-13, respectively.
Ratings at 7 days after the V2-3, V5-6, and R2 applications were on 7-30-13, 8-7-13, and 8-16-13, respectively.
Ratings at 14 days after the V2-3, V5-6, and R2 applications were on 8-6-13, 8-14-13, and 8-23-13, respectively.
Ratings at 28 days after the V2-3, V5-6, and R2 applications were on 8-20-13, 8-28-13, and 9-6-13, respectively.
Ratings at 56 days after the V2-3, V5-6, and R2 applications were on 9-17-13, 9-25-13, and 10-4-13, respectively.
6. Harvested 11-13-13, (2) 30 inch rows by 22 ft.