

Southern Illinois University

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

Trial ID: 13-NF-S-N120 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Trial Status: F one-year/final Initiation Date: 5-26-13 Completion Date: 11-11-13		Trial Location
City: Belleville State/Prov.: Illinois 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.

Study Director: Bryan Young Organization: Southern Illinois University Address: 1205 Lincoln Drive - AG 176 - MC 4415 City+State/Prov: Carbondale IL Postal Code: 62901 Country: USA		Title: Professor Phone No.: 618-453-7679 Mobile No.: 618-713-6471 E-mail: bgyoung@siu.edu
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Crop 1: GLXMA Glycine max Soybean Variety: AG 4005 BBCH Scale: BSOY Description: RR1		Crop Description
Planting Rate, Unit: 75 LB/A Depth, Unit: 1 IN Row Spacing, Unit: 30 IN	Planting Date: 5-26-13 Planting Method: SEEDED	

Pest 1 Type: W Code: NA Common Name: crop tolerance only	Pest Description
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Treated Plot Width: 7.5 FT Total Plot Width: 10 FT Treated Plot Length: 25 FT Total Plot Length: 25 FT		Site Type: FIELD Experimental Unit: 1 PLOT Tillage Type: REDTIL reduced-till Study Design: RACOB� Randomized Complete Block (RCB)						
Replications: 4 Untreated Arrangement: INCLUDED single control randomized in each block								
<table border="1"> <thead> <tr> <th>No.</th> <th>Previous Crop</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>ZEAMD</td> <td>2012</td> </tr> </tbody> </table>	No.	Previous Crop	Year	1.	ZEAMD	2012		
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1.	ZEAMD	2012						

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

% OM: 3 Texture: SIL silt loam pH: 6.1 Soil Name: Winfield CEC: 8		Soil Description									
Additional Measured Elements											
<table border="1"> <thead> <tr> <th>Element</th> <th>Quantity</th> <th>Unit</th> </tr> </thead> <tbody> <tr> <td>P1</td> <td>52</td> <td>lb/A</td> </tr> <tr> <td>K</td> <td>262</td> <td>lb/A</td> </tr> </tbody> </table>	Element		Quantity	Unit	P1	52	lb/A	K	262	lb/A	
Element	Quantity		Unit								
P1	52	lb/A									
K	262	lb/A									

Overall Moisture Conditions: ABONOR Closest Weather Station: ICN - Belleville IL	Moisture and Weather Conditions 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.	4-7-13					7	DAY	34	82	F
2.	4-10-13	1.4	IN	RAIN	rain	2	DAY			
3.	4-14-13					7	DAY	31	82	F
4.	4-16-13	1.05	IN	RAIN	rain	2	DAY			
5.	4-18-13	5.2	IN	RAIN	rain	1	DAY			
6.	4-21-13					7	DAY	35	72	F
7.	4-23-13	1.35	IN	RAIN	rain	2	DAY			
8.	4-27-13	0.3	IN	RAIN	rain	2	DAY			
9.	4-28-13					7	DAY	41	83	F
10.	5-3-13	3.07	IN	RAIN	rain	4	DAY			
11.	5-5-13					7	DAY	46	80	F
12.	5-9-13	0.35	IN	RAIN	rain	2	DAY			
13.	5-12-13					7	DAY	39	92	F
14.	5-16-13	0.55	IN	RAIN	rain	2	DAY			
15.	5-19-13					7	DAY	45	88	F
16.	5-20-13	0.67	IN	RAIN	rain	2	DAY			
17.	5-26-13					7	DAY	56	86	F
18.	5-27-13	1.23	IN	RAIN	rain	2	DAY			
19.	5-30-13	0.51	IN	RAIN	rain	3	DAY			
20.	5-31-13	3.46	IN	RAIN	rain	2	DAY			
21.	6-2-13					7	DAY	50	80	F
22.	6-9-13					7	DAY	59	94	F
23.	6-10-13	0.48	IN	RAIN	rain	2	DAY			
24.	6-16-13					7	DAY	61	90	F
25.	6-17-13	2.16	IN	RAIN	rain	3	DAY			
26.	6-23-13					7	DAY	64	92	F
27.	6-23-13	5.33	IN	RAIN	rain	2	DAY			
28.	6-26-13	0.46	IN	RAIN	rain	1	DAY			
29.	6-29-13	0.19	IN	RAIN	rain	2	DAY			
30.	6-30-13					7	DAY	61	86	F
31.	7-2-13	2.08	IN	RAIN	rain	2	DAY			
32.	7-7-13					7	DAY	62	94	F
33.	7-10-13	0.2	IN	RAIN	rain	1	DAY			
34.	7-14-13					7	DAY	64	94	F
35.	7-15-13	0.03	IN	RAIN	rain	1	DAY			
36.	7-20-13	0.59	IN	RAIN	rain	1	DAY			
37.	7-21-13					7	DAY	56	91	F
38.	7-26-13	0.03	IN	RAIN	rain	1	DAY			
39.	7-28-13					7	DAY	52	87	F
40.	7-30-13	0.46	IN	RAIN	rain	1	DAY			
41.	8-2-13	0.24	IN	RAIN	rain	1	DAY			
42.	8-4-13					7	DAY	62	87	F
43.	8-8-13	0.03	IN	RAIN	rain	3	DAY			
44.	8-11-13					7	DAY	54	85	F
45.	8-12-13	0.57	IN	RAIN	rain	1	DAY			
46.	8-18-13	0.1	IN	RAIN	rain	1	DAY			
47.	8-18-13					7	DAY	61	91	F
48.	8-25-13					7	DAY	62	100	F
49.	8-31-13	0.74	IN	RAIN	rain	1	DAY			
50.	9-1-13					7	DAY	57	92	F
51.	9-8-13	0.26	IN	RAIN	rain	1	DAY			

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Application Description

	A	B	C
Application Date:	6-22-13	7-5-13	7-14-13
Appl. Start Time:	6:15	9:30	7:15
Appl. Stop Time:	7:00	11:00	8:40
Application Method:	Spray	Spray	Spray
Application Timing:	V2-3	V5-6	R2
Application Placement:	BROFOL	BROFOL	BROFOL
Applied By:	NTH	LXF	LXF
Air Temperature, Unit:	75 F	70 F	72 F
% Relative Humidity:	87	100	87
Wind Velocity, Unit:	2 MPH	1 MPH	1 MPH
Wind Direction:	S	W	E
Dew Presence (Y/N):	Y	Y	Y
Soil Temperature, Unit:	76 F	75 F	77 F
Soil Moisture:	NORMAL	ABONOR	NORMAL
% Cloud Cover:	50	100	5
Next Moisture Occurred On:	6-22-13	7-10-13	7-20-13
Time to Next Moisture, Unit:	9 HR	5 DAY	6 DAY

Crop Stage At Each Application

	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:	8 IN	14 IN	18 IN
Height Minimum, Maximum:	6 8	12 14	16 20

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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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	102.34 a-g	13.3 a	57.1 a	63 a-e	36.71 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	102.98 a-f	13.1 a	57.2 a	64 abc	37.26 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	93.98 i	13.2 a	56.9 a	57 c-l	35.39 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	100.97 a-h	13.2 a	57.1 a	55 f-l	34.75 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	97.16 e-i	13.0 a	57.1 a	57 c-l	34.59 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	96.31 f-i	12.9 a	57.2 a	55 h-l	35.70 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	101.49 a-g	13.1 a	57.2 a	64 abc	37.77 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	104.35 abc	13.0 a	57.2 a	61 a-i	36.55 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	103.51 a-e	13.3 a	57.2 a	57 c-l	35.40 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	102.45 a-g	13.1 a	57.2 a	54 i-l	36.04 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	100.65 a-i	12.9 a	57.3 a	57 c-l	35.24 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	97.47 d-i	12.7 a	57.5 a	60 a-i	36.08 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	101.71 a-g	13.2 a	57.1 a	57 c-l	34.75 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	102.98 a-f	13.2 a	57.2 a	61 a-i	35.55 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	101.49 a-g	13.3 a	57.1 a	67 a	35.93 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	103.08 a-e	13.0 a	57.4 a	67 ab	36.83 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	Rate Unit	Other Rate	Other Rate	Other 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	94.30 hi	13.0 a	57.2 a	56 d-l 35.79 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	98.21 b-i	13.1 a	57.3 a	57 c-l 36.73 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	97.90 c-i	13.3 a	56.9 a	62 a-h 36.44 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	97.79 c-i	13.3 a	57.1 a	56 d-l 35.60 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	99.59 a-i	13.1 a	57.3 a	56 d-l 35.91 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	97.68 c-i	13.2 a	57.0 a	57 c-l 34.98 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	99.91 a-i	13.0 a	57.2 a	60 a-i 36.48 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	101.39 a-g	13.2 a	57.0 a	52 kl 34.40 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	105.52 a	13.2 a	57.1 a	63 a-d 35.87 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	101.49 a-g	13.0 a	57.2 a	63 a-f 37.07 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	100.54 a-i	12.9 a	57.4 a	63 a-g 36.24 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	100.33 a-i	12.9 a	57.3 a	58 c-l 35.93 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	104.67 ab	13.0 a	57.3 a	61 a-i 36.34 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	104.78 ab	12.9 a	57.5 a	62 a-g 35.90 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	98.85 a-i	13.1 a	57.1 a	56 e-l 35.49 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	95.99 ghi	13.3 a	57.1 a	51 l 34.09 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	94.30 hi	13.0 a	57.3 a	55 g-l 34.95 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	101.18 a-g	13.1 a	57.3 a	58 c-l 35.54 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	99.17 a-i	13.2 a	57.1 a	62 a-g 36.48 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	103.72 a-e	13.3 a	57.2 a	64 abc 36.25 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	99.70 a-i	13.3 a	57.2 a	62 a-h 35.37 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	98.85 a-i	13.3 a	57.0 a	52 kl 35.09 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	103.93 a-d	13.5 a	56.8 a	67 a 37.89 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	100.97 a-h	13.3 a	56.9 a	60 a-j 35.94 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	104.14 a-d	13.0 a	57.2 a	58 c-l 35.51 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	99.06 a-i	13.1 a	57.0 a	53 jkl 34.78 a	
43	NONTREATED									104.03 a-d	13.0 a	57.3 a	59 b-k 35.99 a	
LSD (P=.05)										6.730	0.61	0.76	7.5	2.132
Standard Deviation										4.807	0.44	0.54	5.4	1.523
CV										4.78	3.33	0.95	9.06	4.25
Replicate F										34.778	1.248	1.294	25.520	15.633
Replicate Prob(F)										0.0001	0.2952	0.2793	0.0001	0.0001
Treatment F										1.570	0.529	0.332	2.348	1.239
Treatment Prob(F)										0.0294	0.9903	1.0000	0.0001	0.1832

Southern Illinois University

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

Trial ID: 13-NF-S-N120 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	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	0 u	0 q	1 ij	0 f	0 b
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 u	0 q	0 j	0 f	0 b
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	20 fgh	23 b-e	14 bc	3 b-f	0 b
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	22 efg	26 abc	17 ab	5 ab	0 b
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	25 bcd	30 a	18 a	5 ab	0 b
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	27 abc	29 a	18 a	6 a	0 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	11 n-q	14 jkl	7 ef	0 f	0 b
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	14 k-n	15 ijk	7 ef	0 f	0 b
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	15 j-m	16 h-k	11 cd	0 f	0 b
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	18 ghi	20 e-h	11 cd	2 c-f	0 b
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	7 t	9 no	4 f-i	0 f	0 b
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 p-t	9 no	5 fgh	1 ef	0 b
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 p-t	9 no	4 f-i	0 f	0 b
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	11 n-r	10 lmn	5 fgh	0 f	0 b
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 u	0 q	0 j	0 f	0 b
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 u	0 q	0 j	0 f	0 b

Southern Illinois University

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

Trial ID: 13-NF-S-N120 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	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	23 def	23 c-f	11 cd	3 a-e	1 b	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	23 cde	24 bcd	12 c	3 b-e	1 b	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	27 ab	27 ab	11 cd	5 ab	1 b	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	29 a	29 a	12 c	4 abc	2 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	13 k-o	13 klm	5 fgh	2 c-f	0 b	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	18 hi	17 hij	6 efg	3 b-e	0 b	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	16 ijk	15 ijk	5 fgh	2 c-f	0 b	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	19 fgh	18 ghi	6 efg	4 a-d	1 b	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	12 l-o	7 nop	3 g-j	1 def	0 b	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 k-n	9 no	3 g-j	1 def	0 b	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	12 m-p	9 no	3 g-j	2 c-f	0 b	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	15 i-l	11 lmn	4 f-i	1 def	0 b	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 u	0 q	0 j	0 f	0 b	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 u	0 q	2 hij	0 f	0 b	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	17 hij	19 fgh	11 cd	2 c-f	0 b	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	20 e-h	22 def	12 c	1 ef	0 b	0 a

Southern Illinois University

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

Trial ID: 13-NF-S-N120 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	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	20 e-h	24 bcd	14 bc	2 c-f	0 b	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	20 fgh	22 d-g	13 c	2 c-f	0 b	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	7 st	6 op	6 efg	2 c-f	0 b	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	8 q-t	8 nop	7 ef	0 f	0 b	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 o-s	9 mno	7 ef	0 f	0 b	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	11 n-q	11 lmn	8 de	2 c-f	0 b	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	6 t	5 p	6 efg	0 f	0 b	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	8 rst	6 op	7 ef	1 ef	0 b	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	9 p-t	6 op	6 efg	0 f	0 b	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	11 n-q	8 nop	8 de	2 c-f	0 b	0 a
43	NONTREATED									0 u	0 q	0 j	0 f	0 b	0 a
LSD (P=.05)									3.4	3.8	3.3	2.6	0.8	0.0	
Standard Deviation									2.4	2.7	2.3	1.8	0.6	0.0	
CV									19.03	21.26	32.78	129.02	486.94	0.0	
Replicate F									28.328	21.751	10.375	1.893	4.788	0.000	
Replicate Prob(F)									0.0001	0.0001	0.0001	0.1341	0.0034	1.0000	
Treatment F									45.340	45.166	18.322	3.026	1.684	0.000	
Treatment Prob(F)									0.0001	0.0001	0.0001	0.0001	0.0144	1.0000	

Southern Illinois University

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

Trial ID: 13-NF-S-N120 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						
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 f	0 b	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 h	0 j	0 h	0 f	0 b	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	6 b-e	10 abc	8 bc	3 cde	0 b	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	3 e-h	10 ab	10 ab	5 abc	0 b	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	6 a-d	11 a	12 a	5 ab	0 b	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	8 abc	10 ab	11 a	6 a	0 b	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 h	2 g-j	0 h	0 f	0 b	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 h	2 g-j	1 gh	0 f	0 b	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 h	3 e-j	4 def	0 f	0 b	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	3 d-g	5 d-h	7 cd	2 def	0 b	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 h	0 j	0 h	0 f	0 b	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 h	0 j	0 h	0 f	0 b	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 h	0 j	0 h	0 f	0 b	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 h	0 j	0 h	0 f	0 b	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 h	0 j	0 h	0 f	0 b	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 h	0 j	0 h	0 f	0 b	0 a

Southern Illinois University

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

Trial ID: 13-NF-S-N120 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	5 c-g	6 c-f	4 def	3 bcd	1 b	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	6 c-f	7 b-e	4 def	2 def	1 b	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	9 ab	8 bcd	3 efg	2 def	1 b	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	9 a	10 abc	5 de	2 def	2 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 h	2 hij	1 fgh	1 def	0 b	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 fgh	4 d-i	1 gh	1 ef	0 b	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	3 fgh	3 f-j	0 h	0 f	0 b	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	2 gh	4 e-j	1 fgh	1 def	1 b	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 h	0 j	0 h	0 f	0 b	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	0 h	0 j	0 h	0 f	0 b	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 h	0 j	0 h	0 f	0 b	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	0 h	1 ij	0 h	0 f	0 b	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 f	0 b	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 f	0 b	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 h	3 e-j	1 fgh	0 f	0 b	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 h	3 f-j	3 e-h	0 f	0 b	0 a

Southern Illinois University

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

Trial ID: 13-NF-S-N120 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	0 h	5 d-g	4 def	1 def	0 b	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	0 h	2 g-j	2 e-h	0 f	0 b	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 f	0 b	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 f	0 b	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	1 ij	0 h	0 f	0 b	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	1 ij	1 fgh	0 f	0 b	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 f	0 b	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 f	0 b	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 f	0 b	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 f	0 b	0 a
43	NONTREATED									0 h	0 j	0 h	0 f	0 b	0 a
LSD (P=.05)										3.2	3.6	3.0	2.3	0.8	0.0
Standard Deviation										2.3	2.6	2.2	1.6	0.6	0.0
CV										160.74	100.48	112.9	219.81	486.94	0.0
Replicate F										8.951	7.108	10.447	6.052	4.788	0.000
Replicate Prob(F)										0.0001	0.0002	0.0001	0.0007	0.0034	1.0000
Treatment F										5.372	7.154	8.649	3.177	1.684	0.000
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0144	1.0000

Southern Illinois University

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

Trial ID: 13-NF-S-N120 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 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 At Harvest
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	0 c	0 a	1 bcd	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 c	0 a	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	0 c	0 a	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	0 c	0 a	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	0 c	0 a	0 d	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 a	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	0 c	0 a	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	0 c	0 a	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	0 c	0 a	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	0 c	0 a	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	0 c	0 a	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	0 c	0 a	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	0 c	0 a	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	0 c	0 a	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	0 c	0 a	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	0 c	0 a	0 d	0 a

Southern Illinois University

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

Trial ID: 13-NF-S-N120 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
									Chlorosis Percent	Chlorosis Percent	Chlorosis Percent	Chlorosis Percent	Chlorosis Percent	Chlorosis 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	0 c	0 a	0 d	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	0 c	0 a	0 d	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	0 a	0 d	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	2 b	0 a	0 d	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	0 a	0 d	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	1 bc	0 a	0 d	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	0 a	0 d	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	1 bc	0 a	0 d	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	0 a	0 d	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	0 a	0 d	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	1 bc	0 a	0 d	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	3 a	0 a	0 d	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 a	0 d	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 a	2 ab	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 a	0 d	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 a	1 bcd	0 a	0 a

Southern Illinois University

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

Trial ID: 13-NF-S-N120 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
										Chlorosis Percent	Chlorosis Percent	Chlorosis Percent	Chlorosis Percent	Chlorosis Percent	Chlorosis 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	2	EC	0.188	lb ai/a	12	fl oz/a	R2	C	0 c	0 a	1 cd	0 a	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 a	1 abc	0 a	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 a	0 d	0 a	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 a	2 a	0 a	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 a	1 abc	0 a	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 a	1 abc	0 a	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 a	0 d	0 a	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 a	1 bcd	0 a	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 a	0 d	0 a	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 a	1 bc	0 a	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 a	0 d	0 a	0 a	0 a
LSD (P=.05)										0.9	0.0	0.9	0.0	0.0	0.0
Standard Deviation										0.6	0.0	0.6	0.0	0.0	0.0
CV										365.67	0.0	245.53	0.0	0.0	0.0
Replicate F										0.749	0.000	0.668	0.000	0.000	0.000
Replicate Prob(F)										0.5246	1.0000	0.5732	1.0000	1.0000	1.0000
Treatment F										2.716	0.000	2.670	0.000	0.000	0.000
Treatment Prob(F)										0.0001	1.0000	0.0001	1.0000	1.0000	1.0000

Southern Illinois University

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

Trial ID: 13-NF-S-N120 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	At Harvest
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	0 q	0 r	0 i	0 c	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 q	0 r	0 i	0 c	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	14 hij	16 c-g	6 ef	0 c	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	19 cde	18 bc	7 cd	0 c	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	19 cde	20 b	6 ef	0 c	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	19 b-e	20 ab	6 cde	0 c	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	11 klm	12 ij	5 efg	0 c	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	14 hij	14 hi	6 ef	0 c	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	15 ghi	15 fgh	6 ef	0 c	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	15 f-i	16 d-h	5 efg	0 c	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	7 op	8 l-p	4 gh	0 c	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 no	9 l-o	4 gh	1 bc	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 no	9 l-o	4 gh	0 c	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	11 lmn	10 jkl	5 fg	0 c	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 q	0 r	0 i	0 c	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 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: 13-NF-S-N120 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	At Harvest
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate	Other 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	20 bcd	18 bcd	6 ef	1 abc	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	21 abc	19 bc	6 ef	1 bc	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	22 a	20 b	6 cde	3 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	21 ab	22 a	6 ef	2 ab	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	10 mn	9 k-n	3 h	2 ab	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	16 fgh	14 hi	3 h	1 abc	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	13 i-l	11 jk	3 h	1 bc	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	17 def	14 gh	3 h	2 ab	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	12 j-m	7 nop	3 h	1 bc	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	13 ijk	9 l-o	3 h	1 abc	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	11 klm	9 l-o	3 h	1 abc	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	14 hij	10 j-m	4 gh	1 bc	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 q	0 r	0 i	0 c	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 q	0 r	0 i	0 c	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	15 f-i	15 e-h	10 ab	2 ab	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	16 fg	17 cde	9 b	1 bc	0 a

Southern Illinois University

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

Trial ID: 13-NF-S-N120 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	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	17 efg	17 c-f	10 ab	1 bc 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	17 ef	18 bc	11 a	2 ab 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	7 op	6 pq	5 efg	2 ab 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	8 op	7 opq	5 efg	0 c 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	7 op	7 nop	5 efg	0 c 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	9 no	8 m-p	6 cde	2 ab 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	6 p	5 q	6 ef	0 c 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	8 op	6 pq	6 de	1 bc 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	9 no	6 pq	6 cde	0 c 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	11 klm	8 l-p	7 c	2 ab 0 a 0 a
43	NONTREATED									0 q	0 r	0 i	0 c 0 a 0 a
LSD (P=.05)								2.4	2.4	1.2	1.3	0.0	0.0
Standard Deviation								1.7	1.7	0.9	0.9	0.0	0.0
CV								15.54	16.78	19.31	144.25	0.0	0.0
Replicate F								24.875	11.327	0.376	0.661	0.000	0.000
Replicate Prob(F)								0.0001	0.0001	0.7703	0.5773	1.0000	1.0000
Treatment F								57.342	57.218	38.830	2.530	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: 13-NF-S-N120 Location: Belleville Res. Center Trial Year: 2013
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 Firstate (0.031 lbai/A) was applied on 5-26-13.
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 6-26-13, 7-9-13, and 7-18-13, respectively.
Ratings at 7 days after the V2-3, V5-6, and R2 applications were on 6-29-13, 7-12-13, and 7-21-13, respectively.
Ratings at 14 days after the V2-3, V5-6, and R2 applications were on 7-6-13, 7-19-13, and 7-28-13, respectively.
Ratings at 28 days after the V2-3, V5-6, and R2 applications were on 7-20-13, 8-2-13, and 8-11-13, respectively.
Ratings at 56 days after the V2-3, V5-6, and R2 applications were on 8-17-13, 8-30-13, and 9-8-13, respectively.
6. Harvested 11-11-13, (2) 30 inch rows by 22 ft.