

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

Trial ID: 11-T2

Location: Belleville Res Center

Investigator: Bryan Young, Professor, Southern Illinois University, bgyoung@siu.edu  
 City State Zip Country: Belleville IL 62221 USA  
 Trial Status: FINAL Initiation Date: 5-24-11

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

Crop 1: GLXMA Soybean Variety: AG 4005 Description: RR  
 Planting Method: SEEDED Planting Date: 5-24-11  
 Rate, Unit: 75 LB/A Depth, Unit: 1.0 IN  
 Row Spacing, Unit: 30 IN

Code: NA

Plot Width, Unit: 10 FT Site Type: FIELD  
 Plot Length, Unit: 27 FT Tillage Type: REDUCED-TILL  
 Replications: 4 Study Design: Randomized Complete Block

Prior Crops, Year  
 1. ZEAMD 2010

Field Prep./Maintenance: N 0 LB/A, P205 50 LB/A, K20 100 LB/A

% OM: 1.9 Texture: SILT LOAM  
 pH: 6.3 Soil Name: BETHALTO  
 CEC: 13 Fert. Level: P1: 79 LB/A, K: 387 LB/A

## Application Description

	A	B	C
Application Date:	6-20-11	7-1-11	7-11-11
Time of Day:	10:30	7:45	6:45
Application Method:	Spray	Spray	Spray
Application Timing:	V2-3	V5-6	R2
Application Placement:	BROFOL	BROFOL	BROFOL
Applied By:	LAH	LAH	LAH
Air Temperature, Unit:	86 F	80 F	83 F
% Relative Humidity:	60	72	85
Wind Velocity, Unit:	5 MPH	2 MPH	1 MPH
Wind Direction:	S	SW	N
Dew Presence (Y/N):	N	N	N
Soil Temperature, Unit:	77 F	78 F	83 F
Soil Moisture:	ABONOR	ABONOR	ABONOR
% Cloud Cover:	0	0	16

	A	B	C
Crop stage at application:	20-6-11	1-7-11	11-7-11
Height Min, Max (inch):	V2-V3 4	V5-V6 6 9	R2 13 12 18

## Pest Stage At Each Application

	A	B	C
Application Date:	6-20-11	7-1-11	7-11-11
Weed Code:	NA	NA	NA
Stage Majority (leaves):	NA	NA	NA

## Application Equipment

	A	B	C
Appl. Equipment:	CO2 sprayer	CO2 sprayer	CO2 sprayer
Operating Pressure:	30 PSI	30 PSI	30 PSI
Nozzle Type:	Flat fan	Flat fan	Flat fan
Nozzle Size:	XR 8002	XR 8002	XR 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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Crop Code  
Rating Date  
Rating Data Type  
Rating Unit  
Rating Timing  
Trt-Eval Interval

GLXMA GLXMA GLXMA GLXMA  
10-22-11 10-22-11  
Height Moisture Yield Seed wt  
Inch Percent bu/A g/ 200  
EOS

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	A	45.2	a-i	12.6	a-e
1	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A			68	b-g
32.0													a-d
2	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V2-3	A	45.8	a-i	12.5	a-g
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A			71	a-f
32.0													a-f
3	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	V2-3	A	45.5	a-i	12.2	d-g
3	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	A			69	a-g
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A				31.6
31.6													a-g
4	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	V2-3	A	46.0	a-i	12.6	a-g
4	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V2-3	A			66	efg
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A				31.7
31.7													a-g
5	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	V2-3	A	45.2	a-i	12.6	a-e
5	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	A			67	c-g
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A				31.6
31.6													a-g
6	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	V2-3	A	44.2	b-i	12.5	a-g
6	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V2-3	A			67	d-g
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A				31.0
31.0													b-g
7	FLEXSTAR	1.88	EC	0.235	lb ai/a	1	pt/a	V2-3	A	47.2	a-f	12.4	a-g
7	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	A			73	a-d
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A				31.8
31.8													a-g
8	FLEXSTAR	1.88	EC	0.235	lb ai/a	1	pt/a	V2-3	A	45.9	a-i	12.2	b-g
8	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V2-3	A			65	fg
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A				31.5
31.5													a-g
9	FLEXSTAR	1.88	EC	0.375	lb ai/a	1.6	pt/a	V2-3	A	47.4	a-e	12.6	a-f
9	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	A			72	a-d
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A				31.4
31.4													a-g
10	FLEXSTAR	1.88	EC	0.375	lb ai/a	1.6	pt/a	V2-3	A	47.7	abc	12.4	a-g
10	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V2-3	A			71	a-f
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A				31.7
31.7													a-g
11	CADET	0.91	EC	0.00427	lb ai/a	0.6	fl oz/a	V2-3	A	46.0	a-i	12.7	a-d
11	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	A			69	a-g
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A				31.8
31.8													a-g
12	CADET	0.91	EC	0.00427	lb ai/a	0.6	fl oz/a	V2-3	A	44.8	a-i	12.5	a-g
12	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V2-3	A			70	a-g
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A				31.2
31.2													b-g
13	CADET	0.91	EC	0.0064	lb ai/a	0.9	fl oz/a	V2-3	A	47.6	a-d	12.1	efg
13	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	A			70	a-g
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A				32.0
32.0													a-e
14	CADET	0.91	EC	0.0064	lb ai/a	0.9	fl oz/a	V2-3	A	42.3	hi	12.1	efg
14	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V2-3	A			74	ab
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A				31.0
31.0													b-g
15	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V5-6	B	45.8	a-i	12.3	b-g
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B			65	g
31.0													b-g
16	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V5-6	B	44.9	a-i	12.5	a-g
16	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B			68	b-g
31.3													b-g
17	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	V5-6	B	45.9	a-i	12.4	a-g
17	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V5-6	B			74	a
17	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B				32.2
32.2													ab
18	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	V5-6	B	45.8	a-i	12.8	ab
18	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V5-6	B			69	a-g
18	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B				31.9
31.9													a-f
19	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	V5-6	B	46.4	a-h	12.5	a-g
19	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V5-6	B			66	efg
19	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B				31.3
31.3													a-g

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GLXMA GLXMA GLXMA GLXMA  
10-22-11 10-22-11  
Height Moisture Yield Seed wt  
Inch Percent bu/A g/ 200  
EOS

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code								
20	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	V5-6	B	44.3	b-i	12.7	a-d	68	b-g	31.0	b-g
20	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V5-6	B								
20	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B								
21	FLEXSTAR	1.88	EC	0.235	lb ai/a	1	pt/a	V5-6	B	45.7	a-i	12.7	abc	69	a-g	30.7	b-g
21	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V5-6	B								
21	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B								
22	FLEXSTAR	1.88	EC	0.235	lb ai/a	1	pt/a	V5-6	B	46.4	a-h	12.5	a-g	69	a-g	33.0	a
22	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V5-6	B								
22	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B								
23	FLEXSTAR	1.88	EC	0.375	lb ai/a	1.6	pt/a	V5-6	B	48.0	ab	12.4	a-g	70	a-g	31.4	a-g
23	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V5-6	B								
23	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B								
24	FLEXSTAR	1.88	EC	0.375	lb ai/a	1.6	pt/a	V5-6	B	45.0	a-i	12.2	c-g	69	a-g	31.2	b-g
24	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V5-6	B								
24	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B								
25	CADET	0.91	EC	0.00427	lb ai/a	0.6	fl oz/a	V5-6	B	43.5	d-i	12.1	fg	69	a-g	31.3	a-g
25	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V5-6	B								
25	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B								
26	CADET	0.91	EC	0.00427	lb ai/a	0.6	fl oz/a	V5-6	B	46.7	a-g	12.2	b-g	69	a-g	30.1	g
26	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V5-6	B								
26	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B								
27	CADET	0.91	EC	0.0064	lb ai/a	0.9	fl oz/a	V5-6	B	46.4	a-h	12.5	a-g	69	a-g	31.9	a-f
27	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V5-6	B								
27	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B								
28	CADET	0.91	EC	0.0064	lb ai/a	0.9	fl oz/a	V5-6	B	44.2	b-i	12.0	g	69	a-g	30.6	b-g
28	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V5-6	B								
28	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B								
29	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R2	C	44.3	b-i	12.2	b-g	67	c-g	30.1	g
29	N-PAK AMS	100	SL	5	% v/v	5	% v/v	R2	C								
30	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	R2	C	43.0	ghi	12.3	b-g	64	g	30.3	efg
30	N-PAK AMS	100	SL	5	% v/v	5	% v/v	R2	C								
31	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	R2	C	41.9	i	12.5	a-g	66	efg	30.2	fg
31	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R2	C								
31	N-PAK AMS	100	SL	5	% v/v	5	% v/v	R2	C								
32	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	R2	C	44.6	b-i	12.6	a-f	65	fg	30.5	c-g
32	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	R2	C								
32	N-PAK AMS	100	SL	5	% v/v	5	% v/v	R2	C								
33	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	R2	C	43.0	f-i	12.9	a	69	a-g	30.3	d-g
33	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R2	C								
33	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	43.4	e-i	12.7	abc	65	g	30.1	g
34	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	R2	C								
34	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	46.8	a-g	12.5	a-g	69	a-g	32.3	ab
35	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R2	C								
35	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	42.2	i	12.6	a-g	66	efg	31.4	a-g
36	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	R2	C								
36	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	45.5	a-i	12.4	a-g	69	a-g	31.3	a-g
37	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R2	C								
37	N-PAK AMS	100	SL	5	% v/v	5	% v/v	R2	C								

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 Trt-Eval Interval

GLXMA	GLXMA	GLXMA	GLXMA
	10-22-11	10-22-11	
Height	Moisture	Yield	Seed wt
Inch	Percent	bu/A	g/ 200
EOS			

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	438	439	440	441				
38	FLEXSTAR	1.88	EC	0.375	lb ai/a	1.6	pt/a	R2	C	43.8	c-i	12.6	a-e	71	a-f	31.6	a-g
38	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	R2	C								
38	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	48.9	a	12.2	d-g	72	a-e	32.1	abc
39	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R2	C								
39	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	46.0	a-i	12.6	a-e	68	a-g	31.4	a-g
40	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	R2	C								
40	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	47.7	abc	12.3	b-g	69	a-g	31.9	a-f
41	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R2	C								
41	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	42.8	ghi	12.6	a-g	68	b-g	30.1	g
42	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	R2	C								
42	N-PAK AMS	100	SL	5	% v/v	5	% v/v	R2	C								
43	NONTREATED									47.8	abc	12.3	b-g	73	abc	31.3	a-g
LSD (P=.05)										4.19		0.54		5.9		1.73	
Replicate F										36.964		73.786		19.023		45.431	
Replicate Prob(F)										0.0001		0.0001		0.0001		0.0001	
Treatment F										1.320		1.102		1.282		1.228	
Treatment Prob(F)										0.1220		0.3341		0.1483		0.1931	

Means followed by same letter do not significantly differ (P=.05, LSD)

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Pest Code		GLXMA GLXMA GLXMA GLXMA GLXMA GLXMA																			
Crop Code																					
Rating Date																					
Rating Data Type		Injury Injury Injury Injury Injury Injury																			
Rating Unit		Percent Percent Percent Percent Percent Percent																			
Rating Timing		4 DAT 7 DAT 14 DAT 28 DAT 56 DAT EOS																			
Trt-Eval Interval																					
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code												
1	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	A	0	k	0	o	0	o	1	jk	0	a	0	a
1	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A												
2	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V2-3	A	0	k	0	o	0	o	0	k	0	a	0	a
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A												
3	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	V2-3	A	21	de	25	bc	10	d-g	0	k	0	a	0	a
3	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	A												
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A												
4	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	V2-3	A	21	de	24	cd	11	c-f	2	g-k	0	a	0	a
4	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V2-3	A												
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A												
5	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	V2-3	A	31	a	30	a	14	ab	5	a-e	0	a	0	a
5	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	A												
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A												
6	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	V2-3	A	28	b	29	ab	11	b-e	6	abc	0	a	0	a
6	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V2-3	A												
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A												
7	FLEXSTAR	1.88	EC	0.235	lb ai/a	1	pt/a	V2-3	A	16	f	21	c-f	6	i-n	0	k	0	a	0	a
7	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	A												
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A												
8	FLEXSTAR	1.88	EC	0.235	lb ai/a	1	pt/a	V2-3	A	16	f	21	c-f	8	g-k	1	jk	0	a	0	a
8	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V2-3	A												
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A												
9	FLEXSTAR	1.88	EC	0.375	lb ai/a	1.6	pt/a	V2-3	A	18	ef	24	cd	7	h-m	1	ijk	0	a	0	a
9	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	A												
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A												
10	FLEXSTAR	1.88	EC	0.375	lb ai/a	1.6	pt/a	V2-3	A	21	de	25	bc	8	g-k	2	g-k	0	a	0	a
10	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V2-3	A												
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A												
11	CADET	0.91	EC	0.00427	lb ai/a	0.6	fl oz/a	V2-3	A	8	hij	15	hi	4	mn	0	k	0	a	0	a
11	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	A												
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A												
12	CADET	0.91	EC	0.00427	lb ai/a	0.6	fl oz/a	V2-3	A	8	hij	16	gh	5	k-n	0	k	0	a	0	a
12	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V2-3	A												
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A												
13	CADET	0.91	EC	0.0064	lb ai/a	0.9	fl oz/a	V2-3	A	10	g-j	19	fg	4	mn	0	k	0	a	0	a
13	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	A												
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A												
14	CADET	0.91	EC	0.0064	lb ai/a	0.9	fl oz/a	V2-3	A	11	gh	16	ghi	4	mn	0	k	0	a	0	a
14	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V2-3	A												
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A												
15	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V5-6	B	0	k	0	o	0	o	0	k	0	a	0	a
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B												
16	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V5-6	B	0	k	3	mno	4	n	0	k	0	a	0	a
16	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B												
17	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	V5-6	B	24	cd	17	gh	11	b-e	2	f-k	0	a	0	a
17	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V5-6	B												
17	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B												
18	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	V5-6	B	28	b	21	def	12	bcd	5	a-d	0	a	0	a
18	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V5-6	B												
18	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B												
19	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	V5-6	B	25	bc	20	efg	9	e-h	3	d-h	0	a	0	a
19	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V5-6	B												
19	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B												

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

Trial ID: 11-T2

Location: Belleville Res Center

Pest Code		GLXMA GLXMA GLXMA GLXMA GLXMA GLXMA													
Crop Code															
Rating Date															
Rating Data Type															
Rating Unit		Injury Percent 4 DAT    Injury Percent 7 DAT    Injury Percent 14 DAT    Injury Percent 28 DAT    Injury Percent 56 DAT    Injury Percent EOS													
Rating Timing															
Trt-Eval Interval															
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
20	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	V5-6	B	31 a	23 c-f	16 a	7 a	0 a	0 a
20	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V5-6	B						
20	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B						
21	FLEXSTAR	1.88	EC	0.235	lb ai/a	1	pt/a	V5-6	B	8 ij	7 kl	6 h-n	2 g-k	0 a	0 a
21	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V5-6	B						
21	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B						
22	FLEXSTAR	1.88	EC	0.235	lb ai/a	1	pt/a	V5-6	B	10 ghi	14 hi	8 g-k	2 f-j	0 a	0 a
22	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V5-6	B						
22	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B						
23	FLEXSTAR	1.88	EC	0.375	lb ai/a	1.6	pt/a	V5-6	B	11 g	9 jk	7 h-m	2 f-j	0 a	0 a
23	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V5-6	B						
23	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B						
24	FLEXSTAR	1.88	EC	0.375	lb ai/a	1.6	pt/a	V5-6	B	18 f	12 ij	11 b-e	3 e-i	0 a	0 a
24	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V5-6	B						
24	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B						
25	CADET	0.91	EC	0.00427	lb ai/a	0.6	fl oz/a	V5-6	B	7 j	5 lmn	8 f-j	1 ijk	0 a	0 a
25	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V5-6	B						
25	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B						
26	CADET	0.91	EC	0.00427	lb ai/a	0.6	fl oz/a	V5-6	B	7 ij	8 kl	7 h-m	1 ijk	0 a	0 a
26	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V5-6	B						
26	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B						
27	CADET	0.91	EC	0.0064	lb ai/a	0.9	fl oz/a	V5-6	B	8 ij	8 kl	6 h-n	1 jk	0 a	0 a
27	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V5-6	B						
27	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B						
28	CADET	0.91	EC	0.0064	lb ai/a	0.9	fl oz/a	V5-6	B	10 ghi	9 jk	8 g-k	2 g-k	0 a	0 a
28	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V5-6	B						
28	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B						
29	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R2	C	0 k	1 o	0 o	1 jk	0 a	0 a
29	N-PAK AMS	100	SL	5	% v/v	5	% v/v	R2	C						
30	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	R2	C	1 k	2 no	0 o	2 f-j	0 a	0 a
30	N-PAK AMS	100	SL	5	% v/v	5	% v/v	R2	C						
31	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	R2	C	25 bc	21 def	8 f-i	3 e-j	0 a	0 a
31	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R2	C						
31	N-PAK AMS	100	SL	5	% v/v	5	% v/v	R2	C						
32	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	R2	C	26 bc	21 def	10 d-g	6 abc	0 a	0 a
32	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	R2	C						
32	N-PAK AMS	100	SL	5	% v/v	5	% v/v	R2	C						
33	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	R2	C	24 c	25 cd	11 b-e	2 f-k	0 a	0 a
33	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R2	C						
33	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	28 b	23 cde	13 abc	6 ab	0 a	0 a
34	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	R2	C						
34	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	8 hij	8 kl	6 i-n	3 e-j	0 a	0 a
35	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R2	C						
35	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	9 g-j	9 jk	7 g-l	4 b-f	0 a	0 a
36	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	R2	C						
36	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	9 g-j	8 kl	5 j-n	1 h-k	0 a	0 a
37	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R2	C						
37	N-PAK AMS	100	SL	5	% v/v	5	% v/v	R2	C						

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

Trial ID: 11-T2

Location: Belleville Res Center

Pest Code  
 Crop Code  
 Rating Date  
 Rating Data Type  
 Rating Unit  
 Rating Timing  
 Trt-Eval Interval

GLXMA GLXMA GLXMA GLXMA GLXMA GLXMA  
 Injury Injury Injury Injury Injury Injury  
 Percent Percent Percent Percent Percent Percent  
 4 DAT 7 DAT 14 DAT 28 DAT 56 DAT EOS

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code												
38	FLEXSTAR	1.88	EC	0.375	lb ai/a	1.6	pt/a	R2	C	10	g-j	9	jk	6	h-n	4	b-f	0	a	0	a
38	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	R2	C												
38	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	8	hij	6	klm	5	lmn	1	ijk	0	a	0	a
39	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R2	C												
39	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	8	ij	6	klm	4	n	4	c-g	0	a	0	a
40	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	R2	C												
40	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	9	g-j	8	kl	6	i-n	2	g-k	0	a	0	a
41	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R2	C												
41	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	10	ghi	8	kl	6	h-n	4	b-f	0	a	0	a
42	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	R2	C												
42	N-PAK AMS	100	SL	5	% v/v	5	% v/v	R2	C												
43	NONTREATED									0	k	0	o	0	o	0	k	0	a	0	a
LSD (P=.05)										3.1	3.9	2.9	2.1	0.0	0.0						
Replicate F										1.639	0.903	7.609	3.141	0.000	0.000						
Replicate Prob(F)										0.1838	0.4419	0.0001	0.0277	1.0000	1.0000						
Treatment F										71.862	39.712	14.811	6.047	0.000	0.000						
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	1.0000	1.0000						

Means followed by same letter do not significantly differ (P=.05, LSD)

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

Trial ID: 11-T2

Location: Belleville Res Center

Pest Code  
Crop Code  
Rating Date  
Rating Data Type  
Rating Unit  
Rating Timing  
Trt-Eval Interval

GLXMA GLXMA GLXMA GLXMA GLXMA GLXMA  
Stunt Stunt Stunt Stunt Stunt Stunt  
Percent Percent Percent Percent Percent Percent  
4 DAT 7 DAT 14 DAT 28 DAT 56 DAT EOS

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Stunt Percent 4 DAT	Stunt Percent 7 DAT	Stunt Percent 14 DAT	Stunt Percent 28 DAT	Stunt Percent 56 DAT	Stunt Percent EOS
1	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	A	0 e	0 g	0 j	0 i	0 a	0 a
1	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A						
2	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V2-3	A	0 e	0 g	0 j	0 i	0 a	0 a
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A						
3	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	V2-3	A	0 e	5 abc	5 b-e	0 i	0 a	0 a
3	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	A						
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A						
4	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	V2-3	A	0 e	5 abc	6 bcd	2 f-i	0 a	0 a
4	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V2-3	A						
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A						
5	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	V2-3	A	1 e	6 a	9 a	5 bcd	0 a	0 a
5	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	A						
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A						
6	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	V2-3	A	0 e	6 a	7 ab	6 ab	0 a	0 a
6	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V2-3	A						
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A						
7	FLEXSTAR	1.88	EC	0.235	lb ai/a	1	pt/a	V2-3	A	0 e	5 a-d	3 d-i	0 i	0 a	0 a
7	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	A						
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A						
8	FLEXSTAR	1.88	EC	0.235	lb ai/a	1	pt/a	V2-3	A	0 e	4 b-e	5 b-e	1 hi	0 a	0 a
8	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V2-3	A						
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A						
9	FLEXSTAR	1.88	EC	0.375	lb ai/a	1.6	pt/a	V2-3	A	0 e	5 abc	3 d-i	1 hi	0 a	0 a
9	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	A						
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A						
10	FLEXSTAR	1.88	EC	0.375	lb ai/a	1.6	pt/a	V2-3	A	0 e	5 a-d	4 c-h	2 f-i	0 a	0 a
10	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V2-3	A						
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A						
11	CADET	0.91	EC	0.00427	lb ai/a	0.6	fl oz/a	V2-3	A	0 e	3 cde	2 f-j	0 i	0 a	0 a
11	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	A						
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A						
12	CADET	0.91	EC	0.00427	lb ai/a	0.6	fl oz/a	V2-3	A	0 e	4 b-e	3 e-j	0 i	0 a	0 a
12	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V2-3	A						
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A						
13	CADET	0.91	EC	0.0064	lb ai/a	0.9	fl oz/a	V2-3	A	0 e	5 a-d	1 hij	0 i	0 a	0 a
13	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	A						
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A						
14	CADET	0.91	EC	0.0064	lb ai/a	0.9	fl oz/a	V2-3	A	0 e	3 cde	2 g-j	0 i	0 a	0 a
14	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V2-3	A						
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A						
15	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V5-6	B	0 e	0 g	0 j	0 i	0 a	0 a
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B						
16	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V5-6	B	0 e	0 g	0 j	0 i	0 a	0 a
16	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B						
17	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	V5-6	B	5 cd	5 a-d	4 c-g	2 e-h	0 a	0 a
17	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V5-6	B						
17	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B						
18	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	V5-6	B	8 b	6 ab	5 b-f	5 abc	0 a	0 a
18	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V5-6	B						
18	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B						
19	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	V5-6	B	7 b	5 a-d	2 f-j	3 c-f	0 a	0 a
19	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V5-6	B						
19	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B						



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

Trial ID: 11-T2

Location: Belleville Res Center

Pest Code  
Crop Code  
Rating Date  
Rating Data Type  
Rating Unit  
Rating Timing  
Trt-Eval Interval

GLXMA GLXMA GLXMA GLXMA GLXMA GLXMA  
Stunt Stunt Stunt Stunt Stunt Stunt  
Percent Percent Percent Percent Percent Percent  
4 DAT 7 DAT 14 DAT 28 DAT 56 DAT EOS

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Stunt Percent 4 DAT	Stunt Percent 7 DAT	Stunt Percent 14 DAT	Stunt Percent 28 DAT	Stunt Percent 56 DAT	Stunt Percent EOS
20	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	V5-6	B	10 a	6 a	6 abc	7 a	0 a	0 a
20	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V5-6	B						
20	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B						
21	FLEXSTAR	1.88	EC	0.235	lb ai/a	1	pt/a	V5-6	B	1 e	1 fg	1 ij	2 f-i	0 a	0 a
21	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V5-6	B						
21	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B						
22	FLEXSTAR	1.88	EC	0.235	lb ai/a	1	pt/a	V5-6	B	1 e	3 def	0 j	2 e-h	0 a	0 a
22	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V5-6	B						
22	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B						
23	FLEXSTAR	1.88	EC	0.375	lb ai/a	1.6	pt/a	V5-6	B	4 d	2 efg	0 j	2 e-h	0 a	0 a
23	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V5-6	B						
23	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B						
24	FLEXSTAR	1.88	EC	0.375	lb ai/a	1.6	pt/a	V5-6	B	6 bc	3 cde	2 f-j	3 d-g	0 a	0 a
24	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V5-6	B						
24	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B						
25	CADET	0.91	EC	0.00427	lb ai/a	0.6	fl oz/a	V5-6	B	0 e	0 g	1 hij	1 hi	0 a	0 a
25	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V5-6	B						
25	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B						
26	CADET	0.91	EC	0.00427	lb ai/a	0.6	fl oz/a	V5-6	B	1 e	0 g	0 j	1 hi	0 a	0 a
26	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V5-6	B						
26	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B						
27	CADET	0.91	EC	0.0064	lb ai/a	0.9	fl oz/a	V5-6	B	1 e	0 g	0 j	1 hi	0 a	0 a
27	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V5-6	B						
27	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B						
28	CADET	0.91	EC	0.0064	lb ai/a	0.9	fl oz/a	V5-6	B	1 e	1 fg	0 j	2 f-i	0 a	0 a
28	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V5-6	B						
28	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B						
29	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R2	C	0 e	0 g	0 j	0 i	0 a	0 a
29	N-PAK AMS	100	SL	5	% v/v	5	% v/v	R2	C						
30	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	R2	C	0 e	0 g	0 j	0 i	0 a	0 a
30	N-PAK AMS	100	SL	5	% v/v	5	% v/v	R2	C						
31	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	R2	C	0 e	4 b-e	3 d-i	2 e-h	0 a	0 a
31	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R2	C						
31	N-PAK AMS	100	SL	5	% v/v	5	% v/v	R2	C						
32	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	R2	C	0 e	4 b-e	2 f-j	3 d-g	0 a	0 a
32	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	R2	C						
32	N-PAK AMS	100	SL	5	% v/v	5	% v/v	R2	C						
33	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	R2	C	0 e	4 b-e	2 f-j	1 hi	0 a	0 a
33	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R2	C						
33	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 e	5 a-d	3 e-i	4 cde	0 a	0 a
34	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	R2	C						
34	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 e	0 g	1 ij	1 ghi	0 a	0 a
35	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R2	C						
35	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 e	0 g	1 ij	2 f-i	0 a	0 a
36	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	R2	C						
36	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 e	0 g	1 ij	1 hi	0 a	0 a
37	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R2	C						
37	N-PAK AMS	100	SL	5	% v/v	5	% v/v	R2	C						

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

Trial ID: 11-T2

Location: Belleville Res Center

Pest Code  
 Crop Code  
 Rating Date  
 Rating Data Type  
 Rating Unit  
 Rating Timing  
 Trt-Eval Interval

GLXMA GLXMA GLXMA GLXMA GLXMA GLXMA

Stunt Stunt Stunt Stunt Stunt Stunt  
 Percent Percent Percent Percent Percent Percent  
 4 DAT 7 DAT 14 DAT 28 DAT 56 DAT EOS

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Unit	Growth Stage	Appl Code	Stunt Percent 4 DAT	Stunt Percent 7 DAT	Stunt Percent 14 DAT	Stunt Percent 28 DAT	Stunt Percent 56 DAT	Stunt Percent EOS
38	FLEXSTAR	1.88	EC	0.375	lb ai/a	1.6	pt/a	R2	C	0 e	0 g	0 j	2 f-i	0 a	0 a
38	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	R2	C						
38	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 e	0 g	0 j	0 i	0 a	0 a
39	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R2	C						
39	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 e	0 g	0 j	1 hi	0 a	0 a
40	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	R2	C						
40	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 e	0 g	0 j	0 i	0 a	0 a
41	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R2	C						
41	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 e	0 g	0 j	1 ghi	0 a	0 a
42	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	R2	C						
42	N-PAK AMS	100	SL	5	% v/v	5	% v/v	R2	C						
43	NONTREATED									0 e	0 g	0 j	0 i	0 a	0 a
LSD (P=.05)										1.6	2.2	2.7	1.8	0.0	0.0
Replicate F										0.614	2.026	0.610	1.638	0.000	0.000
Replicate Prob(F)										0.6072	0.1136	0.6097	0.1839	1.0000	1.0000
Treatment F										17.185	8.462	5.284	6.393	0.000	0.000
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	1.0000	1.0000

Means followed by same letter do not significantly differ (P=.05, LSD)

Southern Illinois University

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

Trial ID: 11-T2

Location: Belleville Res Center

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

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

Trial ID: 11-T2

Location: Belleville Res Center

Pest Code								GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Crop Code								Chlorosis	Chlorosis	Chlorosis	Chlorosis	Chlorosis	Chlorosis
Rating Date								Percent	Percent	Percent	Percent	Percent	Percent
Rating Data Type								4 DAT	7 DAT	14 DAT	28 DAT	56 DAT	EOS
Rating Unit													
Rating Timing													
Trt-Eval Interval													
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
20	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	V5-6	B	0 h	3 ef	3 ab	0 e
20	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V5-6	B				0 a
20	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B				0 a
21	FLEXSTAR	1.88	EC	0.235	lb ai/a	1	pt/a	V5-6	B	0 h	0 h	1 fg	0 e
21	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V5-6	B				0 a
21	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B				0 a
22	FLEXSTAR	1.88	EC	0.235	lb ai/a	1	pt/a	V5-6	B	0 h	4 de	3 a-d	0 e
22	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V5-6	B				0 a
22	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B				0 a
23	FLEXSTAR	1.88	EC	0.375	lb ai/a	1.6	pt/a	V5-6	B	0 h	0 h	0 g	0 e
23	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V5-6	B				0 a
23	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B				0 a
24	FLEXSTAR	1.88	EC	0.375	lb ai/a	1.6	pt/a	V5-6	B	0 h	2 efg	2 b-e	0 e
24	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V5-6	B				0 a
24	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B				0 a
25	CADET	0.91	EC	0.00427	lb ai/a	0.6	fl oz/a	V5-6	B	0 h	0 h	1 fg	0 e
25	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V5-6	B				0 a
25	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B				0 a
26	CADET	0.91	EC	0.00427	lb ai/a	0.6	fl oz/a	V5-6	B	0 h	3 de	1 efg	0 e
26	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V5-6	B				0 a
26	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B				0 a
27	CADET	0.91	EC	0.0064	lb ai/a	0.9	fl oz/a	V5-6	B	0 h	2 efg	1 efg	0 e
27	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V5-6	B				0 a
27	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B				0 a
28	CADET	0.91	EC	0.0064	lb ai/a	0.9	fl oz/a	V5-6	B	0 h	2 efg	2 c-f	0 e
28	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V5-6	B				0 a
28	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B				0 a
29	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R2	C	0 h	1 gh	0 g	1 de
29	N-PAK AMS	100	SL	5	% v/v	5	% v/v	R2	C				0 a
30	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	R2	C	1 g	2 efg	0 g	2 ab
30	N-PAK AMS	100	SL	5	% v/v	5	% v/v	R2	C				0 a
31	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	R2	C	14 b	6 bc	0 g	1 de
31	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R2	C				0 a
31	N-PAK AMS	100	SL	5	% v/v	5	% v/v	R2	C				0 a
32	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	R2	C	16 a	7 ab	1 efg	3 a
32	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	R2	C				0 a
32	N-PAK AMS	100	SL	5	% v/v	5	% v/v	R2	C				0 a
33	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	R2	C	14 b	9 a	1 d-g	1 bcd
33	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R2	C				0 a
33	N-PAK AMS	100	SL	5	% v/v	5	% v/v	R2	C				0 a
34	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	R2	C	17 a	7 ab	3 a-d	3 a
34	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	R2	C				0 a
34	N-PAK AMS	100	SL	5	% v/v	5	% v/v	R2	C				0 a
35	FLEXSTAR	1.88	EC	0.235	lb ai/a	1	pt/a	R2	C	5 cd	3 de	0 g	1 bcd
35	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R2	C				0 a
35	N-PAK AMS	100	SL	5	% v/v	5	% v/v	R2	C				0 a
36	FLEXSTAR	1.88	EC	0.235	lb ai/a	1	pt/a	R2	C	5 cd	5 cd	3 a-d	3 a
36	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	R2	C				0 a
36	N-PAK AMS	100	SL	5	% v/v	5	% v/v	R2	C				0 a
37	FLEXSTAR	1.88	EC	0.375	lb ai/a	1.6	pt/a	R2	C	6 c	3 def	1 d-g	1 de
37	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R2	C				0 a
37	N-PAK AMS	100	SL	5	% v/v	5	% v/v	R2	C				0 a

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

Trial ID: 11-T2

Location: Belleville Res Center

Pest Code								GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA		
Crop Code								Chlorosis	Chlorosis	Chlorosis	Chlorosis	Chlorosis	Chlorosis		
Rating Date								Percent	Percent	Percent	Percent	Percent	Percent		
Rating Data Type								4 DAT	7 DAT	14 DAT	28 DAT	56 DAT	EOS		
Rating Unit															
Rating Timing															
Trt-Eval Interval															
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
38	FLEXSTAR	1.88	EC	0.375	lb ai/a	1.6	pt/a	R2	C	5 cde	4 de	3 a-d	3 a	0 a	0 a
38	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	R2	C						
38	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	4 ef	2 efg	3 a-d	1 cde	0 a	0 a
39	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R2	C						
39	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	3 f	2 efg	3 abc	3 a	0 a	0 a
40	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	R2	C						
40	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	4 def	3 def	3 ab	2 abc	0 a	0 a
41	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R2	C						
41	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	5 cd	3 ef	4 a	3 a	0 a	0 a
42	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	R2	C						
42	N-PAK AMS	100	SL	5	% v/v	5	% v/v	R2	C						
43	NONTREATED									0 h	0 h	0 g	0 e	0 a	0 a
LSD (P=.05)										1.1	1.9	1.5	1.1	0.0	0.0
Replicate F										2.046	1.915	7.333	5.977	0.000	0.000
Replicate Prob(F)										0.1108	0.1305	0.0001	0.0008	1.0000	1.0000
Treatment F										137.252	11.089	5.449	6.191	0.000	0.000
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	1.0000	1.0000

Means followed by same letter do not significantly differ (P=.05, LSD)

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

Trial ID: 11-T2

Location: Belleville Res Center

Pest Code								GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA		
Crop Code								Necrosis	Necrosis	Necrosis	Necrosis	Necrosis	Necrosis		
Rating Date								Percent	Percent	Percent	Percent	Percent	Percent		
Rating Data Type								4 DAT	7 DAT	14 DAT	28 DAT	56 DAT	EOS		
Rating Unit															
Rating Timing															
Trt-Eval Interval															
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
1	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	A	0 m	0 m	0 n	0 a	0 a	0 a
1	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A						
2	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V2-3	A	0 m	0 m	0 n	0 a	0 a	0 a
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A						
3	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	V2-3	A	21 bc	20 bcd	5 fgh	0 a	0 a	0 a
3	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	A						
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A						
4	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	V2-3	A	21 bc	19 cde	5 efg	0 a	0 a	0 a
4	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V2-3	A						
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A						
5	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	V2-3	A	30 a	24 a	5 efg	0 a	0 a	0 a
5	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	A						
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A						
6	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	V2-3	A	28 a	23 ab	5 fgh	0 a	0 a	0 a
6	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V2-3	A						
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A						
7	FLEXSTAR	1.88	EC	0.235	lb ai/a	1	pt/a	V2-3	A	16 d	17 efg	3 jkl	0 a	0 a	0 a
7	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	A						
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A						
8	FLEXSTAR	1.88	EC	0.235	lb ai/a	1	pt/a	V2-3	A	16 d	17 def	3 i-l	0 a	0 a	0 a
8	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V2-3	A						
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A						
9	FLEXSTAR	1.88	EC	0.375	lb ai/a	1.6	pt/a	V2-3	A	18 cd	19 cde	4 h-k	0 a	0 a	0 a
9	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	A						
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A						
10	FLEXSTAR	1.88	EC	0.375	lb ai/a	1.6	pt/a	V2-3	A	21 bc	21 bc	4 g-j	0 a	0 a	0 a
10	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V2-3	A						
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A						
11	CADET	0.91	EC	0.00427	lb ai/a	0.6	fl oz/a	V2-3	A	8 f-j	12 ij	2 lm	0 a	0 a	0 a
11	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	A						
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A						
12	CADET	0.91	EC	0.00427	lb ai/a	0.6	fl oz/a	V2-3	A	8 f-j	13 hij	2 kl	0 a	0 a	0 a
12	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V2-3	A						
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A						
13	CADET	0.91	EC	0.0064	lb ai/a	0.9	fl oz/a	V2-3	A	10 e-h	14 ghi	3 jkl	0 a	0 a	0 a
13	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	A						
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A						
14	CADET	0.91	EC	0.0064	lb ai/a	0.9	fl oz/a	V2-3	A	11 e	13 hij	2 kl	0 a	0 a	0 a
14	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V2-3	A						
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V2-3	A						
15	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V5-6	B	0 m	0 m	0 n	0 a	0 a	0 a
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B						
16	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V5-6	B	0 m	0 m	0 n	0 a	0 a	0 a
16	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B						
17	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	V5-6	B	19 bc	12 ij	6 cde	0 a	0 a	0 a
17	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V5-6	B						
17	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B						
18	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	V5-6	B	20 bc	11 j	6 def	0 a	0 a	0 a
18	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V5-6	B						
18	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B						
19	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	V5-6	B	18 cd	15 fgh	6 cde	0 a	0 a	0 a
19	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V5-6	B						
19	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B						

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

Trial ID: 11-T2

Location: Belleville Res Center

Pest Code								GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA								
Crop Code								Necrosis	Necrosis	Necrosis	Necrosis	Necrosis	Necrosis								
Rating Date								Percent	Percent	Percent	Percent	Percent	Percent								
Rating Data Type								4 DAT	7 DAT	14 DAT	28 DAT	56 DAT	EOS								
Rating Unit																					
Rating Timing																					
Trt-Eval Interval																					
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code												
20	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	V5-6	B	21	b	14	hij	7	bcd	0	a	0	a	0	a
20	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V5-6	B												
20	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B												
21	FLEXSTAR	1.88	EC	0.235	lb ai/a	1	pt/a	V5-6	B	6	ijk	7	kl	5	efg	0	a	0	a	0	a
21	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V5-6	B												
21	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B												
22	FLEXSTAR	1.88	EC	0.235	lb ai/a	1	pt/a	V5-6	B	9	e-i	7	k	5	efg	0	a	0	a	0	a
22	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V5-6	B												
22	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B												
23	FLEXSTAR	1.88	EC	0.375	lb ai/a	1.6	pt/a	V5-6	B	8	g-j	7	kl	7	bcd	0	a	0	a	0	a
23	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V5-6	B												
23	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B												
24	FLEXSTAR	1.88	EC	0.375	lb ai/a	1.6	pt/a	V5-6	B	11	e	6	kl	7	abc	0	a	0	a	0	a
24	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V5-6	B												
24	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B												
25	CADET	0.91	EC	0.00427	lb ai/a	0.6	fl oz/a	V5-6	B	7	ijk	5	kl	6	cde	0	a	0	a	0	a
25	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V5-6	B												
25	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B												
26	CADET	0.91	EC	0.00427	lb ai/a	0.6	fl oz/a	V5-6	B	7	ijk	5	kl	6	def	0	a	0	a	0	a
26	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V5-6	B												
26	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B												
27	CADET	0.91	EC	0.0064	lb ai/a	0.9	fl oz/a	V5-6	B	7	h-k	6	kl	5	efg	0	a	0	a	0	a
27	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V5-6	B												
27	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B												
28	CADET	0.91	EC	0.0064	lb ai/a	0.9	fl oz/a	V5-6	B	9	e-i	6	kl	6	cde	0	a	0	a	0	a
28	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	V5-6	B												
28	N-PAK AMS	100	SL	5	% v/v	5	% v/v	V5-6	B												
29	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R2	C	0	m	0	m	0	n	0	a	0	a	0	a
29	N-PAK AMS	100	SL	5	% v/v	5	% v/v	R2	C												
30	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	R2	C	0	m	0	m	0	n	0	a	0	a	0	a
30	N-PAK AMS	100	SL	5	% v/v	5	% v/v	R2	C												
31	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	R2	C	11	e	13	hij	5	efg	0	a	0	a	0	a
31	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R2	C												
31	N-PAK AMS	100	SL	5	% v/v	5	% v/v	R2	C												
32	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	R2	C	10	efg	13	hij	7	abc	0	a	0	a	0	a
32	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	R2	C												
32	N-PAK AMS	100	SL	5	% v/v	5	% v/v	R2	C												
33	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	R2	C	11	ef	13	hij	8	ab	0	a	0	a	0	a
33	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R2	C												
33	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	11	e	13	hij	8	a	0	a	0	a	0	a
34	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	R2	C												
34	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	3	l	4	kl	5	fgh	0	a	0	a	0	a
35	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R2	C												
35	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	4	kl	5	kl	4	ghi	0	a	0	a	0	a
36	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	R2	C												
36	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	3	l	5	kl	3	h-l	0	a	0	a	0	a
37	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R2	C												
37	N-PAK AMS	100	SL	5	% v/v	5	% v/v	R2	C												



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

Trial ID: 11-T2

Location: Belleville Res Center

									GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	
									Necrosis	Necrosis	Necrosis	Necrosis	Necrosis	Necrosis	
									Percent	Percent	Percent	Percent	Percent	Percent	
									4 DAT	7 DAT	14 DAT	28 DAT	56 DAT	EOS	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
38	FLEXSTAR	1.88	EC	0.375	lb ai/a	1.6	pt/a	R2	C	5 jkl	6 kl	4 h-k	0 a	0 a	0 a
38	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	R2	C						
38	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	5 kl	4 l	2 lm	0 a	0 a	0 a
39	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R2	C						
39	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	4 kl	4 l	1 mn	0 a	0 a	0 a
40	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	R2	C						
40	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	5 jkl	5 kl	2 kl	0 a	0 a	0 a
41	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	R2	C						
41	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	5 jkl	5 kl	2 kl	0 a	0 a	0 a
42	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	R2	C						
42	N-PAK AMS	100	SL	5	% v/v	5	% v/v	R2	C						
43	NONTREATED									0 m	0 m	0 n	0 a	0 a	0 a
LSD (P=.05)										2.8	2.8	1.4	0.0	0.0	0.0
Replicate F										3.733	2.557	3.779	0.000	0.000	0.000
Replicate Prob(F)										0.0131	0.0582	0.0123	1.0000	1.0000	1.0000
Treatment F										62.188	45.583	22.968	0.000	0.000	0.000
Treatment Prob(F)										0.0001	0.0001	0.0001	1.0000	1.0000	1.0000

Means followed by same letter do not significantly differ (P=.05, LSD)

Trial Comments

1. Protocol: ISA - Glyph\_Tm\_Eplant-SIU.
2. Trial is to be maintained weed-free for the duration of the study.  
A blanket PRE application of Dual Magnum (1.27 lbai/A) plus Firstrate (0.031 lbai/A) was applied on 5-24-11.  
Plots were 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 applications. EOS = End of season.  
Ratings at 4 days after the V2-3, V5-6, and R2 application were on 6-24-11, 7-5-11, and 7-15-11, respectively.  
Ratings at 7 days after the V2-3, V5-6, and R2 application were on 6-27-11, 7-8-11, and 7-18-11, respectively.  
Ratings at 14 days after the V2-3, V5-6, and R2 application were on 7-4-11, 7-15-11, and 7-25-11, respectively.  
Ratings at 28 days after the V2-3, V5-6, and R2 application were on 7-18-11, 7-29-11, and 8-8-11, respectively.  
Ratings at 56 days after the V2-3, V5-6, and R2 application were on 8-15-11, 8-26-11, and 9-5-11, respectively.
6. Missing data in some plots was due to standing water.
7. GLXMA Seed wt g/ 200 = Soybean seed weight per 200 seeds.
8. Harvested 10-22-11, (2) 30 inch rows by 24 ft.