

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

Trial ID: 11-T3

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: 7-13-11

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: 7-13-11  
 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 0 LB/A, K20 100 LB/A

% OM: 1.8 Texture: SILT LOAM  
 pH: 6.2 Soil Name: BETHALTO  
 CEC: 13 Fert. Level: P1: 94 LB/A, K: 403 LB/A

## Application Description

	A	B	C
Application Date:	8-3-11	8-16-11	8-25-11
Time of Day:	8:30	13:30	8:00
Application Method:	Spray	Spray	Spray
Application Timing:	V2-3	V5-6	R2
Application Placement:	BROFOL	BROFOL	BROFOL
Applied By:	JRK	JRK	RFK
Air Temperature, Unit:	86 F	82 F	83 F
% Relative Humidity:	79	52	50
Wind Velocity, Unit:	4 MPH	4 MPH	3 MPH
Wind Direction:	N	SE	S
Dew Presence (Y/N):	N	N	N
Soil Temperature, Unit:	83 F	74 F	78 F
Soil Moisture:	NORMAL	NORMAL	BELNOR
% Cloud Cover:	50	90	0

Crop stage at application: 3-8-11 16-8-11 25-8-11  
 V2-V3 V5-V6 R2  
 Height Min, Max (inch): 6 8 11 17 19 20

## Pest Stage At Each Application

Application Date: 8-3-11 8-16-11 8-25-11  
 Weed Code: NA NA NA  
 Stage Majority (leaves): NA NA NA

## Application Equipment

	CO2 sprayer	CO2 sprayer	CO2 sprayer
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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Pest Code  
Crop Code  
Rating Date  
Rating Data Type  
Rating Unit  
Rating Timing  
Trt-Eval Interval

GLXMA 10-27-11 Height Inch EOS  
GLXMA 11-2-11 Moisture Percent  
GLXMA 11-2-11 Yield bu/A  
GLXMA 11-2-11 Seed wt g/ 200

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	29.7	a-j	11.0	bcd	48	a-i	34.4	b-g
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	29.2	e-j	11.2	abc	48	b-k	34.3	b-h
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	29.2	e-j	11.0	bcd	46	h-m	34.6	a-d
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	28.9	f-k	11.5	a	44	k-n	34.8	abc
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	28.7	h-l	11.2	a-d	46	g-m	34.2	b-i
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	29.3	c-j	11.3	abc	43	mn	33.9	b-j
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	28.4	i-l	11.3	ab	46	h-m	34.6	a-e
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	29.1	e-k	11.3	ab	47	c-l	34.9	ab
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	28.8	g-k	11.1	bcd	46	h-m	34.2	b-i
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	28.4	i-l	11.1	bcd	45	i-m	34.5	a-f
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	29.8	a-i	11.1	bcd	49	a-g	34.5	b-g
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	29.4	b-j	11.2	abc	47	c-m	34.5	a-f
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	30.3	a-f	11.3	ab	48	a-i	34.6	a-e
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	29.9	a-h	11.1	a-d	48	a-i	34.8	abc
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	30.5	a-e	11.1	bcd	49	a-f	34.6	a-e
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	29.6	a-j	10.8	d	50	abc	33.9	c-k
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	29.0	f-k	10.8	d	43	mn	33.8	c-k
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	27.7	kl	11.1	bcd	41	no	33.6	e-k
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	28.3	jkl	11.2	a-d	41	no	33.4	g-k
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								





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Pest Code														
Crop Code										GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Rating Date														
Rating Data Type										Injury	Injury	Injury	Injury	Injury
Rating Unit										Percent	Percent	Percent	Percent	Percent
Rating Timing										4 DAT	7 DAT	14 DAT	28 DAT	56 DAT
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 p	1 s	1 o	0 h	0 g
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	2 op	5 r	2 o	0 h	0 g
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	12 gh	17 hi	11 gh	0 h	0 g
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	15 ef	21 de	12 fg	1 g	0 g
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	16 ef	21 ef	13 efg	2 fg	0 g
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	18 de	24 c	15 d	3 de	0 g
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	10 h-k	16 i	8 ij	0 h	0 g
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	11 gh	19 fgh	8 ij	0 h	0 g
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	12 gh	17 ghi	11 gh	1 gh	0 g
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	13 fg	21 ef	14 def	3 ef	0 g
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	4 no	7 o-r	5 lmn	0 h	0 g
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	4 no	10 j-m	6 k-n	0 h	0 g
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	6 mn	10 k-n	6 j-m	0 h	0 g
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	5 mn	12 j	7 jk	0 h	0 g
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 p	0 s	0 o	0 h	0 g
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 p	0 s	0 o	0 h	0 g
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	21 cd	24 c	14 de	3 ef	3 ef
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	30 b	31 b	18 c	5 c	4 cd
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	38 a	35 a	20 b	4 cd	4 cd
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					

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Rating Unit										Percent	Percent	Percent	Percent	Percent
Rating Timing										4 DAT	7 DAT	14 DAT	28 DAT	56 DAT
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	40 a	35 a	23 a	8 b	8 b
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	5 mn	8 m-q	5 lmn	2 fg	2 f
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	7 j-m	9 l-p	6 j-m	2 fg	2 f
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	5 mn	8 m-q	6 j-m	2 fg	2 f
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 gh	11 jk	8 ij	2 fg	2 f
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	6 lmn	9 k-o	5 lmn	2 fg	2 f
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	12 gh	10 k-n	5 lmn	2 fg	2 f
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	11 ghi	10 j-m	5 lmn	2 fg	2 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	12 gh	11 jkl	6 k-n	2 fg	2 f
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 p	0 s	0 o	0 h	0 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	0 p	0 s	0 o	0 h	0 g
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	16 ef	18 ghi	16 d	15 a	15 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	18 de	19 efg	18 c	15 a	15 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	21 cd	24 cd	20 b	15 a	15 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	22 c	24 cd	20 b	15 a	15 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	6 mn	6 qr	6 k-n	5 c	5 c
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	8 i-m	9 l-p	9 hi	5 c	5 c
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	8 i-m	8 n-q	7 jk	3 ef	3 ef
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: Late Planting Date- June 15.

Trial ID: 11-T3

Location: Belleville Res. Center

Pest Code													
Crop Code									GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Rating Date													
Rating Data Type									Injury	Injury	Injury	Injury	Injury
Rating Unit									Percent	Percent	Percent	Percent	Percent
Rating Timing									4 DAT	7 DAT	14 DAT	28 DAT	56 DAT
Trt-Eval Interval													

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Unit	Growth Stage	Appl Code	9 h-l	9 k-o	9 hi	4 de	4 de
38	FLEXSTAR	1.88	EC	0.375	lb ai/a	1.6	pt/a	R2	C	9 h-l	9 k-o	9 hi	4 de	4 de
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	7 k-n	6 qr	4 n	2 fg	2 f
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	7 j-m	7 pqr	5 mn	3 ef	3 ef
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 h-l	9 l-p	7 jkl	3 ef	3 ef
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 hij	9 l-p	7 jk	5 c	5 c
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 p	0 s	0 o	0 h	0 g
LSD (P=.05)										3.2	2.3	1.8	1.2	1.1
Replicate F										2.675	2.653	5.581	4.960	5.526
Replicate Prob(F)										0.0501	0.0515	0.0013	0.0027	0.0013
Treatment F										66.198	124.337	95.663	100.057	125.286
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001

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





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

Trial ID: 11-T3

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

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	15 a	11 a	9 a	8 a	8 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	0 i	0 g	0 h	0 g	0 e
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 hi	0 g	0 h	0 g	0 e
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	0 i	0 g	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					
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	1 ghi	1 fg	0 h	0 g	0 e
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 i	0 g	0 h	0 g	0 e
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	3 e-h	1 g	0 h	0 g	1 de
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 hi	0 g	0 h	0 g	0 e
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	2 f-i	1 g	0 h	1 fg	1 e
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 i	0 g	0 h	0 g	0 e
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 i	0 g	0 h	0 g	0 e
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 i	1 g	2 fg	2 c-f	1 e
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 i	1 fg	3 d	1 d-g	1 de
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	3 e-h	4 cd	6 bc	3 c	3 c
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	3 e-h	4 cd	5 c	5 b	5 b
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 i	0 g	0 h	0 g	0 e
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 i	0 g	0 h	0 g	0 e
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 i	0 g	0 h	0 g	0 e
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: Late Planting Date- June 15.

Trial ID: 11-T3

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

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
38	FLEXSTAR	1.88	EC	0.375	lb ai/a	1.6	pt/a	R2	C	0 i	0 g	0 h	1 fg	1 e
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 i	0 g	0 h	0 g	0 e
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 i	0 g	0 h	0 g	1 de
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 i	0 g	0 h	0 g	0 e
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 i	0 g	0 h	0 g	0 e
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 i	0 g	0 h	0 g	0 e
LSD (P=.05)										2.3	1.4	1.0	1.5	1.5
Replicate F										3.599	2.749	1.051	1.476	2.865
Replicate Prob(F)										0.0155	0.0456	0.3723	0.2243	0.0393
Treatment F										21.465	42.887	46.855	10.957	9.999
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001

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

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

Trial ID: 11-T3

Location: Belleville Res. Center

Pest Code														
Crop Code										GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Rating Date														
Rating Data Type										Chlorosis	Chlorosis	Chlorosis	Chlorosis	Chlorosis
Rating Unit										Percent	Percent	Percent	Percent	Percent
Rating Timing										4 DAT	7 DAT	14 DAT	28 DAT	56 DAT
Trt-Eval Interval														

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Chlorosis Percent 4 DAT	Chlorosis Percent 7 DAT	Chlorosis Percent 14 DAT	Chlorosis Percent 28 DAT	Chlorosis Percent 56 DAT
1	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	A	0 e	1 cd	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	1 de	5 a	2 abc	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	1 c	2 abc	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	2 bcd	5 a	2 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	1 de	1 cd	1 de	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	2 b	5 a	1 cd	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	1 de	3 b	1 cd	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	2 bc	5 a	2 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	1 de	1 c	1 bcd	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	4 a	5 a	2 ab	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	1 c	1 de	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	5 a	1 cd	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	1 cde	3 b	2 abc	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	5 a	2 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 e	0 d	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 e	0 d	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 e	0 d	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 e	0 d	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 e	0 d	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: Late Planting Date- June 15.

Trial ID: 11-T3

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  
 Chlorosis Chlorosis Chlorosis Chlorosis Chlorosis  
 Percent Percent Percent Percent Percent  
 4 DAT 7 DAT 14 DAT 28 DAT 56 DAT

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Chlorosis Percent 4 DAT	Chlorosis Percent 7 DAT	Chlorosis Percent 14 DAT	Chlorosis Percent 28 DAT	Chlorosis Percent 56 DAT
20	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	V5-6	B	0 e	0 d	0 e	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	0 e	0 d	0 e	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	0 e	0 d	0 e	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	0 e	0 d	0 e	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	0 e	0 d	0 e	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 d	0 e	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	0 e	0 d	0 e	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	0 e	0 d	0 e	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	0 e	0 d	0 e	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 d	0 e	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 d	0 e	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	0 d	0 e	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	1 cde	0 d	0 e	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	0 d	0 e	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	0 d	0 e	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 d	0 e	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 d	0 e	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 d	0 e	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: Late Planting Date- June 15.

Trial ID: 11-T3

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  
 Chlorosis Chlorosis Chlorosis Chlorosis Chlorosis  
 Percent Percent Percent Percent Percent  
 4 DAT 7 DAT 14 DAT 28 DAT 56 DAT

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Chlorosis Percent 4 DAT	Chlorosis Percent 7 DAT	Chlorosis Percent 14 DAT	Chlorosis Percent 28 DAT	Chlorosis Percent 56 DAT
38	FLEXSTAR	1.88	EC	0.375	lb ai/a	1.6	pt/a	R2	C	0 e	0 d	0 e	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 d	0 e	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	1 de	0 d	0 e	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 d	0 e	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	1 de	0 d	0 e	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 d	0 e	0 a	0 a
LSD (P=.05)										1.1	0.8	0.8	0.0	0.0
Replicate F										1.210	1.248	1.254	0.000	0.000
Replicate Prob(F)										0.3091	0.2954	0.2930	1.0000	1.0000
Treatment F										3.518	38.022	6.988	0.000	0.000
Treatment Prob(F)										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: Late Planting Date- June 15.

Trial ID: 11-T3

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	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Necrosis Percent 4 DAT	Necrosis Percent 7 DAT	Necrosis Percent 14 DAT	Necrosis Percent 28 DAT	Necrosis Percent 56 DAT					
1	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	V2-3	A	0	k	0	q	0	l	0	g	0	g
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	q	0	l	0	g	0	g
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	8	e-h	12	fgh	8	ef	0	g	0	g
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	9	ef	12	efg	8	de	0	g	0	g
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	10	e	14	e	9	cd	0	g	0	g
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	9	ef	13	ef	10	c	1	g	0	g
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	6	ghi	10	h-l	7	gh	0	g	0	g
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	6	hij	10	h-l	6	hi	0	g	0	g
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	7	f-i	12	fgh	8	ef	0	g	0	g
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	6	ghi	11	f-i	9	cd	0	g	0	g
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	3	j	6	op	4	jk	0	g	0	g
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	3	j	5	p	5	ijk	0	g	0	g
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	5	ij	7	nop	4	jk	0	g	0	g
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	5	hij	7	mno	5	ij	0	g	0	g
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	q	0	l	0	g	0	g
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	0	q	0	l	0	g	0	g
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	15	d	16	d	9	cd	10	b	10	b
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	b	19	bc	10	c	10	b	10	b
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	a	24	a	14	a	10	b	10	b
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: Late Planting Date- June 15.

Trial ID: 11-T3

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  
 Necrosis Necrosis Necrosis Necrosis Necrosis  
 Percent Percent Percent Percent Percent  
 4 DAT 7 DAT 14 DAT 28 DAT 56 DAT

Trt No.	Treatment Name	Form Conc	Form Type	Form 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	25 a	24 a	15 a	10 b	10 b
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	5 hij	8 k-o	5 ijk	2 f	2 f
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	6 ghi	9 j-n	6 hi	2 f	2 f
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	5 hij	8 l-o	6 hi	2 f	2 f
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	10 e	11 g-j	7 fg	2 f	2 f
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	6 ghi	9 i-m	5 ij	2 f	2 f
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	9 efg	9 i-m	5 ij	2 f	2 f
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	10 e	10 h-k	5 ij	2 f	2 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	10 e	10 h-k	6 hi	2 f	2 f
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	0 q	0 l	0 g	0 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	0 k	0 q	0 l	0 g	0 g
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	16 cd	17 cd	12 b	15 a	15 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	17 bcd	18 bcd	13 b	15 a	15 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	18 bc	20 b	14 a	15 a	15 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	19 b	20 b	15 a	15 a	15 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	6 ghi	6 op	4 k	5 c	5 c
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	8 e-h	9 j-n	7 gh	5 c	5 c
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	8 e-h	8 mno	5 ij	3 e	3 e
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: Late Planting Date- June 15.

Trial ID: 11-T3

Location: Belleville Res. Center

Pest Code														
Crop Code									GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	
Rating Date														
Rating Data Type									Necrosis	Necrosis	Necrosis	Necrosis	Necrosis	
Rating Unit									Percent	Percent	Percent	Percent	Percent	
Rating Timing									4 DAT	7 DAT	14 DAT	28 DAT	56 DAT	
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	9 ef	9 i-m	7 gh	4 d	4 d
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	7 f-i	6 op	4 jk	2 f	2 f
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	7 f-i	7 nop	5 ijk	3 e	2 f
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 ef	9 j-n	7 gh	3 e	3 e
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	9 ef	9 j-n	7 fg	5 c	5 c
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 q	0 l	0 g	0 g
LSD (P=.05)										2.8	2.1	1.2	0.7	0.6
Replicate F										0.875	0.718	5.615	2.734	1.303
Replicate Prob(F)										0.4563	0.5433	0.0012	0.0465	0.2764
Treatment F										42.363	71.062	87.840	378.696	466.625
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001

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

## Trial Comments

1. Protocol: ISA - Glyph\_Tm\_Lplant-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 7-13-11.  
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 June 15.
4. Yield is required. Measure weight of 200 seeds/plot.
5. DAT = Days after various applications.  
Ratings at 4 days after the V2-3, V5-6, and R2 application were on 8-7-11, 8-20-11, and 8-29-11, respectively.  
Ratings at 7 days after the V2-3, V5-6, and R2 application were on 8-10-11, 8-23-11, and 9-1-11, respectively.  
Ratings at 14 days after the V2-3, V5-6, and R2 application were on 8-17-11, 8-30-11, and 9-8-11, respectively.  
Ratings at 28 days after the V2-3, V5-6, and R2 application were on 8-31-11, 9-13-11, and 9-22-11, respectively.  
Ratings at 56 days after the V2-3, V5-6, and R2 application were on 9-28-11, 10-11-11, and 10-20-11, respectively.
6. GLXMA Seed wt g/ 200 = Soybean seed weight per 200 seeds.
7. Harvested 11-2-11, (2) 30 inch rows by 24 ft.