

Cooperative POST Soybean Glyphosate Tank-Mix - Site 1.

Trial ID: 09-51E-S150

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: 06-30-09

Objectives: Identify any positive or negative interactions when tank-mixing other broadleaf herbicides with glyphosate to achieve consistent and broad-spectrum weed control.

Crop 1: GLXMA Soybean Variety: AG 4404 Description: RR/STS
 Planting Method: SEEDS Planting Date: 06-30-09
 Rate, Unit: 75 LB/A Depth, Unit: 1.0 IN
 Row Spacing, Unit: 30 IN

Pest 1 Type: W Code: AMBTR Ambrosia trifida L. ragweed, giant
 Pest 2 Type: W Code: IPOSS morningglory, species
 Pest 3 Type: W Code: AMATA Amaranthus rudis Sauer waterhemp, common

Plot Width, Unit: 10 FT Site Type: FIELD
 Plot Length, Unit: 27 FT Tillage Type: REDUCED-TILL
 Replications: 3 Study Design: Randomized Complete Block

Prior Crops, Year
 1. ZEAMD 2008

Field Prep./Maintenance: N 0 LB/A, P205 0 LB/A, K20 150 LB/A

% OM: 2.2 Texture: SILT LOAM
 pH: 6.7 Soil Name: PIERRON
 CEC: 11 Fert. Level: P1: 90 LB/A, K: 409 LB/A

	Application Description			
	A	B	C	D
Application Date:	06-30-09	07-22-09	07-27-09	07-27-09
Time of Day:	16:00	9:15	16:30	17:15
Application Method:	Spray	Spray	Spray	Spray
Application Timing:	PRE	MPOST	LPOST	4"W
Application Placement:	BROSOI	BROSOI	BROSOI	BROSOI
Applied By:	DKP	DKP	DKP	DKP
Air Temperature, Unit:	72 F	73 F	84 F	84 F
% Relative Humidity:	80	92	78	78
Wind Velocity, Unit:	3 MPH	6 MPH	4 MPH	4 MPH
Wind Direction:	NW	N	S	S
Dew Presence (Y/N):	N	N	N	N
Soil Moisture:	NORMAL	NORMAL	NORMAL	NORMAL
% Cloud Cover:	15	85	10	10
Crop stage at application:	NA	V1	V4	V4
Height Min, Max (inch):		2 3 4	6 4 6	

	Pest Stage At Each Application			
	06-30-09	07-22-09	07-27-09	07-27-09
Application Date:	06-30-09	07-22-09	07-27-09	07-27-09
Weed Code:	AMBTR	AMBTR	AMBTR	AMBTR
Stage Majority (leaves):	NA	5	8	4
Stage Min, Max:		2 8	4 10	2 6
Height Majority:		5 IN	9 IN	4 IN
Height Min, Max:		3 10	4 14	3 5
Density, Unit:		1 FT2	1 FT2	0.2 FT2
Weed Code:	IPOSS	IPOSS	IPOSS	IPOSS
Stage Majority (leaves):	NA	6	8	2
Stage Min, Max:		2 8	4 12	2 4
Height Majority:		5 IN	7 IN	3 IN
Height Min, Max:		1 7	2 9	1 4
Density, Unit:		2.5 FT2	2.5 FT2	0.01 FT2
Weed Code:	AMATA	AMATA	AMATA	AMATA
Stage Majority (leaves):	NA	4	8	4
Stage Min, Max:		2 6	4 10	2 4
Height Majority:		4 IN	7 IN	4 IN
Height Min, Max:		1 6	5 10	1 5
Density, Unit:		0.5 FT2	1 FT2	1 FT2

Application Equipment

	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer
Appl. Equipment:	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer
Operating Pressure:	30 PSI	30 PSI	30 PSI	30 PSI
Nozzle Type:	Flat fan	Flat fan	Flat fan	Flat fan
Nozzle Size:	XR 8002	XR 8002	XR 8002	XR 8002
Boom Length, Unit:	7.5 FT	7.5 FT	7.5 FT	7.5 FT
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA	15 GPA

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										GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
										11-08-09	11-08-09			
										Moisture	Yield	Injury	Injury	Injury
										Percent	bu/A	Percent	Percent	Percent
										7 DAT 14 DAT 28 DAT				
Trt	Treatment	Form	Form	Rate	Rate	Other	Other	Growth	Appl					
No.	Name	Conc	Type	Unit	Unit	Rate	Rate	Stage	Code					
1	ROUNDUP P-MAX	4.5	SL	0.77 lb ae/a	22 fl oz/a			MPOST	B	11.9 a	43 ab	0 i	0 i	0 f
1	N-PAK AMS	100	SL	5 % v/v	5 % v/v			MPOST	B					
2	ROUNDUP P-MAX	4.5	SL	1.13 lb ae/a	32 fl oz/a			MPOST	B	11.9 a	37 b-i	0 i	0 i	0 f
2	N-PAK AMS	100	SL	5 % v/v	5 % v/v			MPOST	B					
3	ROUNDUP P-MAX	4.5	SL	1.55 lb ae/a	44 fl oz/a			MPOST	B	11.9 a	39 a-h	0 i	0 i	0 f
3	N-PAK AMS	100	SL	5 % v/v	5 % v/v			MPOST	B					
4	ROUNDUP P-MAX	4.5	SL	0.77 lb ae/a	22 fl oz/a			MPOST	B	12.0 a	41 a-f	0 i	0 i	0 f
4	N-PAK AMS	100	SL	5 % v/v	5 % v/v			MPOST	B					
4	ROUNDUP P-MAX	4.5	SL	0.77 lb ae/a	22 fl oz/a			LPOST	C					
4	N-PAK AMS	100	SL	5 % v/v	5 % v/v			LPOST	C					
5	ROUNDUP P-MAX	4.5	SL	1.13 lb ae/a	32 fl oz/a			MPOST	B	11.9 a	43 a	0 i	0 i	0 f
5	N-PAK AMS	100	SL	5 % v/v	5 % v/v			MPOST	B					
5	ROUNDUP P-MAX	4.5	SL	1.13 lb ae/a	32 fl oz/a			LPOST	C					
5	N-PAK AMS	100	SL	5 % v/v	5 % v/v			LPOST	C					
6	ROUNDUP P-MAX	4.5	SL	0.77 lb ae/a	22 fl oz/a			MPOST	B	11.9 a	34 hi	24 c	12 c	4 ab
6	COBRA	2	EC	0.094 lb ai/a	6 fl oz/a			MPOST	B					
6	N-PAK AMS	100	SL	5 % v/v	5 % v/v			MPOST	B					
7	ROUNDUP P-MAX	4.5	SL	0.77 lb ae/a	22 fl oz/a			MPOST	B	11.7 a	38 a-i	28 b	14 ab	5 a
7	COBRA	2	EC	0.188 lb ai/a	12 fl oz/a			MPOST	B					
7	N-PAK AMS	100	SL	5 % v/v	5 % v/v			MPOST	B					
8	ROUNDUP P-MAX	4.5	SL	0.77 lb ae/a	22 fl oz/a			MPOST	B	11.8 a	37 c-i	16 ef	8 de	0 f
8	FLEXSTAR	1.88	EC	0.147 lb ai/a	10 fl oz/a			MPOST	B					
8	N-PAK AMS	100	SL	5 % v/v	5 % v/v			MPOST	B					
9	ROUNDUP P-MAX	4.5	SL	0.77 lb ae/a	22 fl oz/a			MPOST	B	11.9 a	40 a-g	18 de	9 d	1 ef
9	FLEXSTAR	1.88	EC	0.294 lb ai/a	20 fl oz/a			MPOST	B					
9	N-PAK AMS	100	SL	5 % v/v	5 % v/v			MPOST	B					
10	ROUNDUP P-MAX	4.5	SL	0.77 lb ae/a	22 fl oz/a			MPOST	B	11.8 a	42 abc	0 i	0 i	0 f
10	FIRSTRATE	84	WG	0.0158 lb ai/a	0.3 oz/a			MPOST	B					
10	N-PAK AMS	100	SL	5 % v/v	5 % v/v			MPOST	B					
11	ROUNDUP P-MAX	4.5	SL	0.77 lb ae/a	22 fl oz/a			MPOST	B	11.7 a	34 hi	16 ef	7 ef	2 de
11	RESOURCE	0.86	EC	0.027 lb ai/a	4 fl oz/a			MPOST	B					
11	N-PAK AMS	100	SL	5 % v/v	5 % v/v			MPOST	B					
12	ROUNDUP P-MAX	4.5	SL	0.77 lb ae/a	22 fl oz/a			MPOST	B	11.8 a	36 f-i	19 d	9 d	1 ef
12	RESOURCE	0.86	EC	0.054 lb ai/a	8 fl oz/a			MPOST	B					
12	N-PAK AMS	100	SL	5 % v/v	5 % v/v			MPOST	B					
13	ROUNDUP P-MAX	4.5	SL	0.77 lb ae/a	22 fl oz/a			MPOST	B	11.8 a	34 i	14 g	6 fg	3 cd
13	CADET	0.91	EC	0.00427 lb ai/a	0.6 fl oz/a			MPOST	B					
13	N-PAK AMS	100	SL	5 % v/v	5 % v/v			MPOST	B					
14	ROUNDUP P-MAX	4.5	SL	0.77 lb ae/a	22 fl oz/a			MPOST	B	11.8 a	36 f-i	8 h	5 gh	0 f
14	PURSUIT	2	SL	0.0625 lb ai/a	4 fl oz/a			MPOST	B					
14	N-PAK AMS	100	SL	5 % v/v	5 % v/v			MPOST	B					
15	ROUNDUP P-MAX	4.5	SL	0.77 lb ae/a	22 fl oz/a			MPOST	B	11.8 a	40 a-g	0 i	0 i	0 f
15	SYNCHRONY XP	28.4	WG		0.375 oz/a			MPOST	B					
15	CLASSIC	25	WG	0.00504 lb ai/a				MPOST	B					
15	HARMONY SG	50	SG	0.00162 lb ai/a				MPOST	B					
15	N-PAK AMS	100	SL	5 % v/v	5 % v/v			MPOST	B					
16	ROUNDUP P-MAX	4.5	SL	0.77 lb ae/a	22 fl oz/a			LPOST	C	11.7 a	40 a-f	0 i	0 i	0 f
16	N-PAK AMS	100	SL	5 % v/v	5 % v/v			LPOST	C					
17	ROUNDUP P-MAX	4.5	SL	1.13 lb ae/a	32 fl oz/a			LPOST	C	11.8 a	41 a-e	0 i	0 i	0 f
17	N-PAK AMS	100	SL	5 % v/v	5 % v/v			LPOST	C					
18	ROUNDUP P-MAX	4.5	SL	1.55 lb ae/a	44 fl oz/a			LPOST	C	11.8 a	39 a-i	0 i	0 i	0 f
18	N-PAK AMS	100	SL	5 % v/v	5 % v/v			LPOST	C					

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Pest Code Crop Code Rating Date Rating Data Type Rating Unit Rating Timing Trt-Eval Interval										GLXMA 11-08-09 Moisture Percent	GLXMA 11-08-09 Yield bu/A	GLXMA Injury Percent	GLXMA Injury Percent	GLXMA Injury Percent
										7 DAT 14 DAT 28 DAT				
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
19	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C	11.9 a	37 c-i	24 c	12 c	0 f
19	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	LPOST	C					
19	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C					
20	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C	11.8 a	36 d-i	32 a	15 a	4 bc
20	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	LPOST	C					
20	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C					
21	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C	11.7 a	38 a-i	14 fg	7 ef	0 f
21	FLEXSTAR	1.88	EC	0.147	lb ai/a	10	fl oz/a	LPOST	C					
21	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C					
22	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C	11.8 a	36 e-i	18 d	12 c	0 f
22	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	LPOST	C					
22	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C					
23	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C	11.8 a	38 a-i	0 i	0 i	0 f
23	FIRSTRATE	84	WG	0.0158	lb ai/a	0.3	oz/a	LPOST	C					
23	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C					
24	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C	11.8 a	37 c-i	14 g	7 ef	0 f
24	RESOURCE	0.86	EC	0.027	lb ai/a	4	fl oz/a	LPOST	C					
24	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C					
25	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C	11.8 a	38 b-i	24 c	13 bc	1 ef
25	RESOURCE	0.86	EC	0.054	lb ai/a	8	fl oz/a	LPOST	C					
25	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C					
26	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C	11.9 a	35 ghi	16 ef	9 d	0 f
26	CADET	0.91	EC	0.00427	lb ai/a	0.6	fl oz/a	LPOST	C					
26	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C					
27	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C	11.8 a	37 c-i	7 h	4 h	0 f
27	PURSUIT	2	SL	0.0625	lb ai/a	4	fl oz/a	LPOST	C					
27	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C					
28	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C	11.8 a	40 a-g	0 i	0 i	0 f
28	SYNCHRONY XP	28.4	WG			0.375	oz/a	LPOST	C					
28	CLASSIC	25	WG	0.00504	lb ai/a			LPOST	C					
28	HARMONY SG	50	SG	0.00162	lb ai/a			LPOST	C					
28	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C					
29	AUTHORITY FIRST	70	WG	0.131	lb ai/a	3	oz/a	PRE	A	11.8 a	42 a-d	0 i	0 i	0 f
29	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W	D					
29	N-PAK AMS	100	SL	5	% v/v	5	% v/v	4"W	D					
30	NONTREATED									11.8 a	28 j	0 i	0 i	0 f
LSD (P=.05)										0.27	5.4	1.8	1.5	1.2
Replicate F										0.578	26.247	0.595	0.808	3.545
Replicate Prob(F)										0.5640	0.0001	0.5546	0.4506	0.0353
Treatment F										0.445	2.800	259.537	101.222	10.555
Treatment Prob(F)										0.9902	0.0004	0.0001	0.0001	0.0001

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

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										AMBTR	AMBTR	AMBTR	AMBTR	IPOSS	IPOSS	IPOSS	IPOSS
Pest Code Crop Code Rating Date Rating Data Type Rating Unit Rating Timing Trt-Eval Interval										Control Percent 21 DA-A -1 DA-B	Control Percent 14 DAT	Control Percent 28 DAT	Control Percent 56 DAT	Control Percent 21 DA-A -1 DA-B	Control Percent 14 DAT	Control Percent 28 DAT	Control Percent 56 DAT
Trt	Treatment	Form	Form	Rate	Rate	Other	Other	Growth	Appl								
No.	Name	Conc	Type	Unit	Unit	Rate	Rate	Stage	Code								
1	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	B		95	cde	94	a-f	92	b-f	
1	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	B							69	k
2	ROUNDUP P-MAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	MPOST	B		95	cde	93	c-h	88	ef	
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	B							78	ij
3	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	MPOST	B		96	a-d	96	a-e	93	a-f	
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	B							87	efg
4	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	B		95	cde	95	a-e	95	abc	
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	B							92	bcd
4	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C							90	a-f
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C							90	a-d
5	ROUNDUP P-MAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	MPOST	B		97	a-d	97	abc	96	ab	
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	B							96	ab
5	ROUNDUP P-MAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	LPOST	C							95	a
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C							95	a
6	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	B		96	a-d	94	a-f	93	a-e	
6	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	MPOST	B							89	cde
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	B							83	d-h
7	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	B		99	a	96	a-e	95	abc	
7	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	MPOST	B							93	abc
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	B							82	e-h
8	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	B		97	a-d	97	abc	93	a-f	
8	FLEXSTAR	1.88	EC	0.147	lb ai/a	10	fl oz/a	MPOST	B							97	a
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	B							94	ab
9	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	B		98	a-d	97	abc	96	abc	
9	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	MPOST	B							96	ab
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	B							92	a-e
10	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	B		97	a-d	98	ab	97	ab	
10	FIRSTRATE	84	WG	0.0158	lb ai/a	0.3	oz/a	MPOST	B							77	j
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	B							73	ijk
11	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	B		97	a-d	96	a-e	97	ab	
11	RESOURCE	0.86	EC	0.027	lb ai/a	4	fl oz/a	MPOST	B							96	ab
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	B							95	ab
12	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	B		96	a-d	94	a-g	93	a-f	
12	RESOURCE	0.86	EC	0.054	lb ai/a	8	fl oz/a	MPOST	B							95	ab
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	B							92	a-d
13	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	B		93	ef	89	gh	87	f	
13	CADET	0.91	EC	0.00427	lb ai/a	0.6	fl oz/a	MPOST	B							85	fgh
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	B							80	g-j
14	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	B		97	a-d	91	e-h	88	def	
14	PURSUIT	2	SL	0.0625	lb ai/a	4	fl oz/a	MPOST	B							72	k
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	B							70	kl
15	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	B		98	abc	97	a-d	97	ab	
15	SYNCHRONY XP	28.4	WG			0.375	oz/a	MPOST	B							77	j
15	CLASSIC	25	WG	0.00504	lb ai/a			MPOST	B							73	ijk
15	HARMONY SG	50	SG	0.00162	lb ai/a			MPOST	B							75	ghi
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	B								
16	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C		92	fg	92	d-h	94	abc	
16	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C							72	k
17	ROUNDUP P-MAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	LPOST	C		96	b-e	95	a-e	96	abc	
17	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C							84	gh
18	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	LPOST	C		96	a-d	96	a-e	96	ab	
18	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C							86	e-h

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Pest Code Crop Code Rating Date Rating Data Type Rating Unit Rating Timing Trt-Eval Interval										AMBTR	AMBTR	AMBTR	AMBTR	IPOSS	IPOSS	IPOSS	IPOSS
										Control Percent 21 DA-A -1 DA-B	Control Percent 14 DAT	Control Percent 28 DAT	Control Percent 56 DAT	Control Percent 21 DA-A -1 DA-B	Control Percent 14 DAT	Control Percent 28 DAT	Control Percent 56 DAT
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Other Rate	Other Rate	Unit	Growth Stage	Appl Code							
19	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a		LPOST	C		97	a-d	96	a-e	95	abc
19	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a		LPOST	C						89	def 86 b-g 83 d-g
19	N-PAK AMS	100	SL	5	% v/v	5	% v/v		LPOST	C							
20	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a		LPOST	C		97	a-d	96	a-e	96	abc
20	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a		LPOST	C						87	efg 83 d-h 80 e-i
20	N-PAK AMS	100	SL	5	% v/v	5	% v/v		LPOST	C							
21	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a		LPOST	C		95	de	96	a-e	96	abc
21	FLEXSTAR	1.88	EC	0.147	lb ai/a	10	fl oz/a		LPOST	C						94	ab 91 a-e 84 c-f
21	N-PAK AMS	100	SL	5	% v/v	5	% v/v		LPOST	C							
22	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a		LPOST	C		98	a-d	98	ab	97	ab
22	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a		LPOST	C						96	ab 94 abc 93 abc
22	N-PAK AMS	100	SL	5	% v/v	5	% v/v		LPOST	C							
23	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a		LPOST	C		90	fgh	90	fgh	94	a-d
23	FIRSTRATE	84	WG	0.0158	lb ai/a	0.3	oz/a		LPOST	C						72	k 73 ijk 74 ghi
23	N-PAK AMS	100	SL	5	% v/v	5	% v/v		LPOST	C							
24	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a		LPOST	C		90	fgh	89	gh	93	a-f
24	RESOURCE	0.86	EC	0.027	lb ai/a	4	fl oz/a		LPOST	C						89	def 82 e-h 80 e-i
24	N-PAK AMS	100	SL	5	% v/v	5	% v/v		LPOST	C							
25	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a		LPOST	C		89	gh	88	h	90	c-f
25	RESOURCE	0.86	EC	0.054	lb ai/a	8	fl oz/a		LPOST	C						87	efg 78 g-k 72 ij
25	N-PAK AMS	100	SL	5	% v/v	5	% v/v		LPOST	C							
26	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a		LPOST	C		88	h	89	gh	94	abc
26	CADET	0.91	EC	0.00427	lb ai/a	0.6	fl oz/a		LPOST	C						90	cde 82 f-i 79 f-i
26	N-PAK AMS	100	SL	5	% v/v	5	% v/v		LPOST	C							
27	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a		LPOST	C		92	fg	93	b-h	95	abc
27	PURSUIT	2	SL	0.0625	lb ai/a	4	fl oz/a		LPOST	C						68	k 69 kl 74 ghi
27	N-PAK AMS	100	SL	5	% v/v	5	% v/v		LPOST	C							
28	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a		LPOST	C		89	gh	90	fgh	95	abc
28	SYNCHRONY XP	28.4	WG			0.375	oz/a		LPOST	C						82	hi 82 f-i 84 c-f
28	CLASSIC	25	WG	0.00504	lb ai/a				LPOST	C							
28	HARMONY SG	50	SG	0.00162	lb ai/a				LPOST	C							
28	N-PAK AMS	100	SL	5	% v/v	5	% v/v		LPOST	C							
29	AUTHORITY FIRST	70	WG	0.131	lb ai/a	3	oz/a		PRE	A		94	a	99	ab	99	a
29	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a		4"W	D						99	a 96 ab 87 a-g 95 a
29	N-PAK AMS	100	SL	5	% v/v	5	% v/v		4"W	D							
30	NONTREATED											0	b	0	i	0	i
																0	m 0 k
LSD (P=.05)												5.7		3.3		5.3	
Replicate F												1.000		0.391		0.851	
Replicate Prob(F)												0.5000		0.6783		0.4322	
Treatment F												5005.563		227.446		87.368	
Treatment Prob(F)												0.0002		0.0001		0.0001	

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

Cooperative POST Soybean Glyphosate Tank-Mix - Site 1.

Trial ID: 09-51E-S150

Location: Belleville Res. Center

										AMATA	AMATA	AMATA	AMATA
Pest Code										Control	Control	Control	Control
Crop Code										Percent	Percent	Percent	Percent
Rating Date										21 DA-A	14 DAT	28 DAT	56 DAT
Rating Data Type										-1 DA-B			
Rating Unit													
Rating Timing													
Trt-Eval Interval													
Trt	Treatment	Form	Form	Rate	Rate	Other	Other	Growth	Appl				
No.	Name	Conc	Type	Unit	Unit	Rate	Rate	Stage	Code				
1	ROUNDUP P-MAX	4.5	SL	0.77 lb ae/a	22 fl oz/a			MPOST	B		97 bcd	92 de	92 d
1	N-PAK AMS	100	SL	5 % v/v	5 % v/v			MPOST	B				
2	ROUNDUP P-MAX	4.5	SL	1.13 lb ae/a	32 fl oz/a			MPOST	B		99 a	98 abc	98 ab
2	N-PAK AMS	100	SL	5 % v/v	5 % v/v			MPOST	B				
3	ROUNDUP P-MAX	4.5	SL	1.55 lb ae/a	44 fl oz/a			MPOST	B		99 a	99 a	98 ab
3	N-PAK AMS	100	SL	5 % v/v	5 % v/v			MPOST	B				
4	ROUNDUP P-MAX	4.5	SL	0.77 lb ae/a	22 fl oz/a			MPOST	B		99 a	99 a	98 ab
4	N-PAK AMS	100	SL	5 % v/v	5 % v/v			MPOST	B				
4	ROUNDUP P-MAX	4.5	SL	0.77 lb ae/a	22 fl oz/a			LPOST	C				
4	N-PAK AMS	100	SL	5 % v/v	5 % v/v			LPOST	C				
5	ROUNDUP P-MAX	4.5	SL	1.13 lb ae/a	32 fl oz/a			MPOST	B		99 a	99 a	99 a
5	N-PAK AMS	100	SL	5 % v/v	5 % v/v			MPOST	B				
5	ROUNDUP P-MAX	4.5	SL	1.13 lb ae/a	32 fl oz/a			LPOST	C				
5	N-PAK AMS	100	SL	5 % v/v	5 % v/v			LPOST	C				
6	ROUNDUP P-MAX	4.5	SL	0.77 lb ae/a	22 fl oz/a			MPOST	B		99 a	98 abc	98 ab
6	COBRA	2	EC	0.094 lb ai/a	6 fl oz/a			MPOST	B				
6	N-PAK AMS	100	SL	5 % v/v	5 % v/v			MPOST	B				
7	ROUNDUP P-MAX	4.5	SL	0.77 lb ae/a	22 fl oz/a			MPOST	B		99 a	99 a	98 ab
7	COBRA	2	EC	0.188 lb ai/a	12 fl oz/a			MPOST	B				
7	N-PAK AMS	100	SL	5 % v/v	5 % v/v			MPOST	B				
8	ROUNDUP P-MAX	4.5	SL	0.77 lb ae/a	22 fl oz/a			MPOST	B		99 a	99 a	99 a
8	FLEXSTAR	1.88	EC	0.147 lb ai/a	10 fl oz/a			MPOST	B				
8	N-PAK AMS	100	SL	5 % v/v	5 % v/v			MPOST	B				
9	ROUNDUP P-MAX	4.5	SL	0.77 lb ae/a	22 fl oz/a			MPOST	B		99 a	99 a	98 ab
9	FLEXSTAR	1.88	EC	0.294 lb ai/a	20 fl oz/a			MPOST	B				
9	N-PAK AMS	100	SL	5 % v/v	5 % v/v			MPOST	B				
10	ROUNDUP P-MAX	4.5	SL	0.77 lb ae/a	22 fl oz/a			MPOST	B		99 ab	93 cde	94 bcd
10	FIRSTRATE	84	WG	0.0158 lb ai/a	0.3 oz/a			MPOST	B				
10	N-PAK AMS	100	SL	5 % v/v	5 % v/v			MPOST	B				
11	ROUNDUP P-MAX	4.5	SL	0.77 lb ae/a	22 fl oz/a			MPOST	B		99 a	98 ab	96 a-d
11	RESOURCE	0.86	EC	0.027 lb ai/a	4 fl oz/a			MPOST	B				
11	N-PAK AMS	100	SL	5 % v/v	5 % v/v			MPOST	B				
12	ROUNDUP P-MAX	4.5	SL	0.77 lb ae/a	22 fl oz/a			MPOST	B		98 ab	94 b-e	95 a-d
12	RESOURCE	0.86	EC	0.054 lb ai/a	8 fl oz/a			MPOST	B				
12	N-PAK AMS	100	SL	5 % v/v	5 % v/v			MPOST	B				
13	ROUNDUP P-MAX	4.5	SL	0.77 lb ae/a	22 fl oz/a			MPOST	B		96 de	90 e	93 cd
13	CADET	0.91	EC	0.00427 lb ai/a	0.6 fl oz/a			MPOST	B				
13	N-PAK AMS	100	SL	5 % v/v	5 % v/v			MPOST	B				
14	ROUNDUP P-MAX	4.5	SL	0.77 lb ae/a	22 fl oz/a			MPOST	B		97 bcd	95 a-d	92 d
14	PURSUIT	2	SL	0.0625 lb ai/a	4 fl oz/a			MPOST	B				
14	N-PAK AMS	100	SL	5 % v/v	5 % v/v			MPOST	B				
15	ROUNDUP P-MAX	4.5	SL	0.77 lb ae/a	22 fl oz/a			MPOST	B		98 ab	97 a-d	96 a-d
15	SYNCHRONY XP	28.4	WG		0.375 oz/a			MPOST	B				
15	CLASSIC	25	WG	0.00504 lb ai/a				MPOST	B				
15	HARMONY SG	50	SG	0.00162 lb ai/a				MPOST	B				
15	N-PAK AMS	100	SL	5 % v/v	5 % v/v			MPOST	B				
16	ROUNDUP P-MAX	4.5	SL	0.77 lb ae/a	22 fl oz/a			LPOST	C		97 a-d	96 a-d	96 a-d
16	N-PAK AMS	100	SL	5 % v/v	5 % v/v			LPOST	C				
17	ROUNDUP P-MAX	4.5	SL	1.13 lb ae/a	32 fl oz/a			LPOST	C		98 abc	98 abc	98 ab
17	N-PAK AMS	100	SL	5 % v/v	5 % v/v			LPOST	C				
18	ROUNDUP P-MAX	4.5	SL	1.55 lb ae/a	44 fl oz/a			LPOST	C		96 cde	96 a-d	95 a-d
18	N-PAK AMS	100	SL	5 % v/v	5 % v/v			LPOST	C				

Cooperative POST Soybean Glyphosate Tank-Mix - Site 1.

Trial ID: 09-51E-S150

Location: Belleville Res. Center

Pest Code Crop Code Rating Date Rating Data Type Rating Unit Rating Timing Trt-Eval Interval										AMATA	AMATA	AMATA	AMATA
										Control Percent 21 DA-A -1 DA-B	Control Percent 14 DAT	Control Percent 28 DAT	Control Percent 56 DAT
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
19	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C		98	ab	97
19	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	LPOST	C				
19	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C				
20	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C		99	a	98
20	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	LPOST	C				
20	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C				
21	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C		97	a-d	94
21	FLEXSTAR	1.88	EC	0.147	lb ai/a	10	fl oz/a	LPOST	C				
21	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C				
22	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C		98	abc	98
22	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	LPOST	C				
22	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C				
23	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C		95	e	95
23	FIRSTRATE	84	WG	0.0158	lb ai/a	0.3	oz/a	LPOST	C				
23	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C				
24	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C		98	a-d	92
24	RESOURCE	0.86	EC	0.027	lb ai/a	4	fl oz/a	LPOST	C				
24	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C				
25	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C		97	a-d	96
25	RESOURCE	0.86	EC	0.054	lb ai/a	8	fl oz/a	LPOST	C				
25	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C				
26	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C		97	bcd	95
26	CADET	0.91	EC	0.00427	lb ai/a	0.6	fl oz/a	LPOST	C				
26	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C				
27	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C		96	cde	97
27	PURSUIT	2	SL	0.0625	lb ai/a	4	fl oz/a	LPOST	C				
27	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C				
28	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C		98	abc	98
28	SYNCHRONY XP	28.4	WG			0.375	oz/a	LPOST	C				
28	CLASSIC	25	WG	0.00504	lb ai/a			LPOST	C				
28	HARMONY SG	50	SG	0.00162	lb ai/a			LPOST	C				
28	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C				
29	AUTHORITY FIRST	70	WG	0.131	lb ai/a	3	oz/a	PRE	A		92	a	98
29	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W	D				
29	N-PAK AMS	100	SL	5	% v/v	5	% v/v	4"W	D				
30	NONTREATED										0	b	0
LSD (P=.05)											20.7	1.9	4.7
Replicate F											1.000	3.415	1.102
Replicate Prob(F)											0.5000	0.0396	0.3391
Treatment F											368.889	683.578	115.650
Treatment Prob(F)											0.0027	0.0001	0.0001

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

Trial Comments

1. Protocol: SIU/UIUC/WIU/ISA.
2. Ratings: Visual crop response estimates at 7, 14, and 28 DAT.
Visual estimates of control, by species, at 14 and 28 DAT (rate all plots at 28 days after the LPOST timing);
late-season rating of all plots at 56 DAT or at crop harvest.
Evaluate the PRE/POST treatment prior to the POST application and again based on DAT from the respective POST timing in that treatment.
3. MPOST = 3-5"W; LPOST = 6-10"W.

Cooperative POST Soybean Glyphosate Tank-Mix - Site 1.

Trial ID: 09-51E-S150

Location: Belleville Res. Center

4. Take weed counts in nontreated at the "B" application timing (No./0.5 m²).
5. Yield.
6. DAT = Days after various POST applications. For treatments 4 and 5 ratings are after the last application.
 Ratings at 21 DA-A were on 7-21-09.
 Ratings at 7 days after the MPOST, LPOST and 4"W applications were on 7-29-09, 8-3-09, and 8-3-09, respectively.
 Ratings at 14 days after the MPOST, LPOST and 4"W applications were on 8-5-09, 8-10-09, and 8-10-09, respectively.
 Ratings at 28 days after the MPOST, LPOST and 4"W applications were on 8-19-09, 8-24-09, and 8-24-09, respectively.
 Ratings at 56 days after the MPOST, LPOST and 4"W applications were on 9-16-09, 9-21-09, and 9-21-09, respectively.
7. IPOSS = Morningglory species including IPOHE (ivyleaf morningglory) and IPOLA (pitted morningglory).
8. Weed counts per 0.5 square meter in the nontreated plots on 7-21-09 were:
 Plot 130- 6 AMBTR, 4 IPOSS, 6 ABUTH, 2 AMATA, 2 SETFA
 Plot 211- 1 AMBTR, 3 IPOSS
 Plot 306- 10 AMBTR, 5 IPOSS, 4 AMATA
9. Harvested 11-8-09, (2) 30 inch rows by 24 ft.