

Cooperative POST Soybean Glyphosate Tank-Mix - Site 2.

Trial ID: 09-10B-E180

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: SEEDED 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
 Pest 4 Type: W Code: ABUTH Abutilon theophrasti Medicus velvetleaf

Plot Width, Unit: 10 FT Site Type: FIELD
 Plot Length, Unit: 24 FT Tillage Type: REDUCED-TILL
 Replications: 3 Study Design: Randomized Complete Block

Prior Crops, Year
 1. ZEAMD 2008

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

% OM: 2 Texture: SILT LOAM
 pH: 6.2 Soil Name: PIERRON
 CEC: 11 Fert. Level: P1 88 LB/A, K 445 LB/A

	Application Description			
	A	B	C	D
Application Date:	06-30-09	07-20-09	07-27-09	07-27-09
Time of Day:	20:25	8:30	15:15	16:00
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	68 F	84 F	84 F
% Relative Humidity:	80	92	78	78
Wind Velocity, Unit:	3 MPH	3 MPH	4 MPH	4 MPH
Wind Direction:	NW	SE	S	S
Dew Presence (Y/N):	N	N	N	N
Soil Moisture:	NORMAL	NORMAL	NORMAL	NORMAL
% Cloud Cover:	15	10	10	10

	06-30-09	07-20-09	07-27-09	07-27-09
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	07-20-09	07-27-09	07-27-09
Application Date:	06-30-09	07-20-09	07-27-09	07-27-09
Weed Code:	AMBTR	AMBTR	AMBTR	AMBTR
Stage Majority (leaves):	NA	4	6	3
Stage Min, Max:		2 6	3 8	2 6
Height Majority:		5 IN	5 IN	3.5 IN
Height Min, Max:		2 7	2.5 10	1.5 5
Density, Unit:		1 FT2	1 FT2	0.7 FT2
Weed Code:	IPOSS	IPOSS	IPOSS	IPOSS
Stage Majority (leaves):	NA	4	7	3
Stage Min, Max:		2 6	3 10	2 5
Height Majority:		3 IN	4 IN	2.5 IN
Height Min, Max:		1 4	1.5 7	1.5 4
Density, Unit:		2 FT2	1.5 FT2	0.6 FT2
Weed Code:	AMATA	AMATA	AMATA	AMATA
Stage Majority (leaves):	NA	2	5	NA
Stage Min, Max:		2 4	3 8	
Height Majority:		2 IN	4.5 IN	
Height Min, Max:		1 4	2 6	
Density, Unit:		0.1 FT2	0.01 FT2	
Weed Code:	ABUTH	ABUTH	ABUTH	ABUTH
Stage Majority (leaves):	NA	2	3	NA
Stage Min, Max:		COTY 6	1 5	
Height Majority:		3 IN	2.5 IN	
Height Min, Max:		0.5 5	1 4	
Density, Unit:		2 FT2	1.5 FT2	

	Application Equipment			
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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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					
1	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	B	13.4	abc	38	a-g	0 h
1	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	B			0	g	0 c
2	ROUNDUP P-MAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	MPOST	B	12.7	b-e	41	a-e	0 h
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	B			0	g	0 c
3	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	MPOST	B	13.0	a-e	34	d-g	0 h
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	B			0	g	0 c
4	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	B	13.1	a-e	39	a-g	0 h
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	B			0	g	0 c
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	12.1	e	46	ab	0 h
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	B			0	g	0 c
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	13.5	ab	39	a-g	26 b
6	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	MPOST	B			13	b	2 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	13.7	a	30	fg	30 a
7	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	MPOST	B			15	a	4 a
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	13.0	a-e	33	efg	17 d
8	FLEXSTAR	1.88	EC	0.147	lb ai/a	10	fl oz/a	MPOST	B			8	d	0 c
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	13.1	a-d	34	d-g	20 c
9	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	MPOST	B			10	c	3 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	12.4	de	43	a-d	0 h
10	FIRSTRATE	84	WG	0.0158	lb ai/a	0.3	oz/a	MPOST	B			0	g	0 c
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	13.1	a-d	36	b-g	19 cd
11	RESOURCE	0.86	EC	0.027	lb ai/a	4	fl oz/a	MPOST	B			8	d	0 c
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	13.5	ab	29	g	24 b
12	RESOURCE	0.86	EC	0.054	lb ai/a	8	fl oz/a	MPOST	B			12	b	2 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	12.5	cde	39	a-g	18 d
13	CADET	0.91	EC	0.00427	lb ai/a	0.6	fl oz/a	MPOST	B			8	d	3 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	13.4	abc	37	a-g	7 g
14	PURSUIT	2	SL	0.0625	lb ai/a	4	fl oz/a	MPOST	B			1	g	0 c
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	13.3	a-d	43	a-d	0 h
15	SYNCHRONY XP	28.4	WG			0.375	oz/a	MPOST	B			0	g	0 c
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	13.0	a-e	37	a-g	0 h
16	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C			0	g	0 c
17	ROUNDUP P-MAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	LPOST	C	12.9	a-e	43	a-d	0 h
17	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C			0	g	0 c
18	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	LPOST	C	13.1	a-d	41	a-e	0 h
18	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C			0	g	0 c

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										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	13.8	a	35	c-g	25	b	2	b		
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	13.4	abc	39	a-g	31	a	16	a	4	a
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	12.5	cde	47	a	13	f	5	e	0	c
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	13.4	abc	30	fg	15	e	10	c	0	c
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	13.1	a-e	40	a-f	0	h	0	g	0	c
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	13.3	abc	35	c-g	14	ef	7	d	0	c
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	13.3	a-d	38	a-g	19	cd	12	b	0	c
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	13.2	a-d	38	a-g	15	e	7	d	0	c
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	13.2	a-d	39	a-g	6	g	3	f	0	c
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	12.6	b-e	45	abc	0	h	0	g	0	c
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	13.5	abc	40	a-f	0	h	0	g	0	c
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									12.9	a-e	18	h	0	h	0	g	0	c
LSD (P=.05)										0.97	10.4	1.9	1.6	1.6					
Replicate F										57.695	25.200	1.361	1.987	2.218					
Replicate Prob(F)										0.0001	0.0001	0.2649	0.1467	0.1183					
Treatment F										1.354	2.527	253.059	102.513	5.233					
Treatment Prob(F)										0.1647	0.0015	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 20 DA-A 0 DA-B	Control Percent 14 DAT	Control Percent 28 DAT	Control Percent 56 DAT	Control Percent 20 DA-A 0 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		96	a-d	93	b-g	86	a-e	
1	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	B							95	ab
2	ROUNDUP P-MAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	MPOST	B		96	a-d	94	a-g	87	a-e	
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	B							97	ab
3	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	MPOST	B		96	a-d	94	a-f	85	b-e	
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	B							97	ab
4	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	B		95	bcd	95	a-e	93	ab	
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	B							97	ab
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		96	a-d	96	abc	90	a-d	
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	B							97	ab
5	ROUNDUP P-MAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	LPOST	C							97	a
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C							92	a
6	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	B		96	abc	95	a-d	89	a-d	
6	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	MPOST	B							97	ab
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	B							96	a
7	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	B		97	abc	94	a-g	82	c-f	
7	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	MPOST	B							97	ab
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	B							96	a
8	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	B		95	bcd	93	b-g	78	ef	
8	FLEXSTAR	1.88	EC	0.147	lb ai/a	10	fl oz/a	MPOST	B							96	ab
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	B							96	a
9	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	B		96	a-d	96	ab	88	a-d	
9	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	MPOST	B							98	a
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	B							97	a
10	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	B		95	bcd	94	a-f	87	a-e	
10	FIRSTRATE	84	WG	0.0158	lb ai/a	0.3	oz/a	MPOST	B							96	ab
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	B							97	a
11	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	B		93	de	88	hij	78	ef	
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	a
12	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	B		95	bcd	90	f-i	74	f	
12	RESOURCE	0.86	EC	0.054	lb ai/a	8	fl oz/a	MPOST	B							97	ab
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	B							96	a
13	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	B		96	a-d	92	c-h	84	b-e	
13	CADET	0.91	EC	0.00427	lb ai/a	0.6	fl oz/a	MPOST	B							96	ab
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	B							93	ab
14	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	B		95	a-d	94	a-g	86	a-e	
14	PURSUIT	2	SL	0.0625	lb ai/a	4	fl oz/a	MPOST	B							97	ab
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	B							96	a
15	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	B		97	ab	93	b-g	91	abc	
15	SYNCHRONY XP	28.4	WG			0.375	oz/a	MPOST	B							96	ab
15	CLASSIC	25	WG	0.00504	lb ai/a			MPOST	B							94	a
15	HARMONY SG	50	SG	0.00162	lb ai/a			MPOST	B							89	abc
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		89	fg	84	k	81	def	
16	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C							78	g
17	ROUNDUP P-MAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	LPOST	C		90	f	90	ghi	91	abc	
17	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C							78	ef
18	ROUNDUP P-MAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	LPOST	C		93	de	91	e-h	88	a-d	
18	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C							91	cd
																89	a-d
																87	a-f

Cooperative POST Soybean Glyphosate Tank-Mix - Site 2.

Trial ID: 09-10B-E180

Location: Belleville Res. Center

Pest Code Crop Code Rating Date Rating Data Type Rating Unit Rating Timing Trt-Eval Interval										AMBT Control Percent 20 DA-A 0 DA-B	AMBT Control Percent 14 DAT	AMBT Control Percent 28 DAT	AMBT Control Percent 56 DAT	IPOSS Control Percent 20 DA-A 0 DA-B	IPOSS Control Percent 14 DAT	IPOSS Control Percent 28 DAT	IPOSS 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		94	bcd	94	a-g	92	ab										
19	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	LPOST	C						84	f	81	de	81	efg						
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		95	bcd	94	a-g	91	ab										
20	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	LPOST	C						89	de	83	cde	82	d-g						
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		96	a-d	94	a-f	90	a-d										
21	FLEXSTAR	1.88	EC	0.147	lb ai/a	10	fl oz/a	LPOST	C						94	bc	91	abc	89	a-d						
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	98	a	95	a										
22	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	LPOST	C						96	ab	95	a	93	a						
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		85	h	86	ijk	92	ab										
23	FIRSTRATE	84	WG	0.0158	lb ai/a	0.3	oz/a	LPOST	C						87	def	82	de	83	b-g						
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		86	gh	84	jk	85	b-e										
24	RESOURCE	0.86	EC	0.027	lb ai/a	4	fl oz/a	LPOST	C						86	ef	81	de	83	c-g						
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		91	ef	91	d-h	90	a-d										
25	RESOURCE	0.86	EC	0.054	lb ai/a	8	fl oz/a	LPOST	C						91	cd	85	b-e	83	b-g						
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		91	ef	90	f-i	92	ab										
26	CADET	0.91	EC	0.00427	lb ai/a	0.6	fl oz/a	LPOST	C						91	cd	82	cde	79	g						
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		87	gh	88	hij	93	ab										
27	PURSUIT	2	SL	0.0625	lb ai/a	4	fl oz/a	LPOST	C						79	g	70	f	78	g						
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		90	f	90	e-i	92	ab										
28	SYNCHRONY XP	28.4	WG			0.375	oz/a	LPOST	C						78	g	70	f	81	efg						
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		86	a	94	cd	93	b-g	91	abc	96	a	94	bc	93	ab	90	ab
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	i	0	l	0	g	0	b	0	h	0	g	0	h
LSD (P=.05)											2.9	2.7	4.3	9.6	2.9	3.8	8.7	7.0								
Replicate F										1.000	3.559	7.580	12.303	1.000	2.746	8.062	1.529									
Replicate Prob(F)										0.5000	0.0351	0.0012	0.0001	0.5000	0.0728	0.0008	0.2256									
Treatment F										16770.252	329.573	128.641	24.468	20880.252	179.294	35.355	45.966									
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001									

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

Cooperative POST Soybean Glyphosate Tank-Mix - Site 2.

Trial ID: 09-10B-E180

Location: Belleville Res. Center

										AMATA	AMATA	AMATA	AMATA	ABUTH	ABUTH	ABUTH	ABUTH
Pest Code Crop Code Rating Date Rating Data Type Rating Unit Rating Timing Trt-Eval Interval										Control Percent 20 DA-A 0 DA-B	Control Percent 14 DAT	Control Percent 28 DAT	Control Percent 56 DAT	Control Percent 20 DA-A 0 DA-B	Control Percent 14 DAT	Control Percent 28 DAT	Control Percent 56 DAT
Trt	Treatment No. 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	MPOST	B		99 a	97 c	97 b		97 bcd	96 a-e	95 a-e
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	99 ab	98 ab		97 a-d	96 b-e	96 a-e
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	99 a		97 a-d	96 cde	96 a-e
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	99 a		97 bcd	96 cde	96 a-e
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		97 bcd	96 cde	95 a-e
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	99 a	99 a		96 cd	95 e	94 e
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	99 a		97 bcd	96 a-e	96 a-e
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		98 abc	98 ab	97 abc
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	99 a		97 a-d	97 a-d	94 de
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 a	99 a	98 ab		98 abc	98 a	96 a-e
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	99 a	99 a		97 a-d	97 abc	97 ab
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	98 abc	98 ab		98 abc	96 a-e	97 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		99 a	98 abc	97 b		98 ab	96 a-e	94 e
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		99 a	98 abc	98 ab		98 a	97 a-d	97 abc
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		99 a	99 a	99 a		98 abc	97 a-d	96 a-e
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		99 a	99 a	99 a		97 a-d	96 cde	95 cde
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		99 a	99 a	99 a		96 d	96 b-e	96 a-e
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		99 a	99 a	99 a		97 a-d	97 a-d	97 abc
18	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C								

Cooperative POST Soybean Glyphosate Tank-Mix - Site 2.

Trial ID: 09-10B-E180

Location: Belleville Res. Center

Pest Code	Crop Code	Rating Date	Rating Data Type	Rating Unit	Rating Timing	Trt-Eval Interval	AMATA	AMATA	AMATA	AMATA	ABUTH	ABUTH	ABUTH	ABUTH
							Control Percent 20 DA-A 0 DA-B	Control Percent 14 DAT	Control Percent 28 DAT	Control Percent 56 DAT	Control Percent 20 DA-A 0 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		99 a	99 a	99 a	97 a-d
19	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	LPOST	C					97 a-d
19	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C					97 abc
20	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C		99 a	99 a	99 a	98 a
20	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	LPOST	C					97 abc
20	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C					97 ab
21	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C		99 a	99 a	99 a	97 a-d
21	FLEXSTAR	1.88	EC	0.147	lb ai/a	10	fl oz/a	LPOST	C					96 cde
21	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C					96 a-e
22	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C		99 a	99 a	99 a	97 bcd
22	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	LPOST	C					97 a-e
22	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C					95 b-e
23	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C		98 b	98 bc	98 ab	98 a
23	FIRSTRATE	84	WG	0.0158	lb ai/a	0.3	oz/a	LPOST	C					97 abc
23	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C					98 a
24	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C		99 a	99 a	99 a	98 ab
24	RESOURCE	0.86	EC	0.027	lb ai/a	4	fl oz/a	LPOST	C					96 b-e
24	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C					96 a-e
25	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C		99 a	99 a	99 a	98 abc
25	RESOURCE	0.86	EC	0.054	lb ai/a	8	fl oz/a	LPOST	C					96 a-e
25	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C					97 a-d
26	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C		99 a	99 a	99 a	98 ab
26	CADET	0.91	EC	0.00427	lb ai/a	0.6	fl oz/a	LPOST	C					98 ab
26	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C					97 ab
27	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C		99 a	99 a	99 a	97 a-d
27	PURSUIT	2	SL	0.0625	lb ai/a	4	fl oz/a	LPOST	C					97 a-d
27	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C					96 a-e
28	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C		99 a	99 a	99 a	98 ab
28	SYNCHRONY XP	28.4	WG	0.00504	lb ai/a	0.375	oz/a	LPOST	C					96 a-e
28	CLASSIC	25	WG	0.00162	lb ai/a			LPOST	C					97 a-d
28	HARMONY SG	50	SG					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	99 a	98 ab	98 abc	98 ab	95 a
29	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W	D					96 cd
29	N-PAK AMS	100	SL	5	% v/v	5	% v/v	4"W	D					95 de
30	NONTREATED									0 b	0 c	0 d	0 c	0 b
														0 e
														0 f
														0 f
	LSD (P=.05)									0.0	0.7	1.2	1.7	5.0
														1.5
														2.0
														2.5
	Replicate F									0.000	0.732	0.528	0.286	1.000
	Replicate Prob(F)									1.0000	0.4853	0.5925	0.7523	0.5000
	Treatment F									0.000	4962.339	1856.930	929.601	6768.751
	Treatment Prob(F)									1.0000	0.0001	0.0001	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 2.

Trial ID: 09-10B-E180

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 20 DA-A were on 7-20-09.
Ratings at 7 days after the MPOST, LPOST and 4"W applications were on 7-27-09, 8-3-09, and 8-3-09, respectively.
Ratings at 14 days after the MPOST, LPOST and 4"W applications were on 8-3-09, 8-10-09, and 8-10-09, respectively.
Ratings at 28 days after the MPOST, LPOST and 4"W applications were on 8-17-09, 8-24-09, and 8-24-09, respectively.
Ratings at 56 days after the MPOST, LPOST and 4"W applications were on 9-14-09, 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 7-20-09 were;
Plot 130- 4 AMBTR, 14 IPOSS, 2 ABUTH, 2 SETFA, 4 CYPES
Plot 205- 1 AMBTR, 8 IPOSS, 4 ABUTH, 3 AMATA, 2 CYPES
Plot 313- 8 AMBTR, 8 IPOSS, 10 ABUTH, 1 PANDI, 2 SETFA
9. Harvested 11-8-09, (2) 30 inch rows by 21 ft.