

## Cooperative POST Soybean Glyphosate Tank-Mix Adjuvants - Site 1.

Trial ID: 08-10A-N60

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: 06-27-08

Objectives: Determine the role of adjuvants used in tank-mixtures  
 of broadleaf herbicides with glyphosate.

Crop 1: GLXMA Soybean Variety: AG 4404 RR/STS  
 Planting Method: SEEDS Planting Date: 06-27-08  
 Rate, Unit: 75 LB/A Depth, Unit: 1.0 IN  
 Row Spacing, Unit: 30 IN

Pest 1 Type: W Code: ABUTH Abutilon theophrasti Medicus velvetleaf  
 Pest 2 Type: W Code: AMATA Amaranthus rudis Sauer waterhemp, common  
 Pest 3 Type: W Code: AMBTR Ambrosia trifida L. ragweed, giant  
 Pest 4 Type: W Code: IPOSS Ipomoea sp. morningglory, species  
 Pest 5 Type: W Code: SETFA Setaria faberi Herrm. foxtail, giant

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 2007

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

% OM: 2 Texture: SILT LOAM  
 pH: 6.1 Soil Name: PIERRON  
 CEC: 12 Fert. Level: P1 77 LB/A, K 441 LB/A

## Application Description

A

Application Date: 07-17-08  
 Time of Day: 11:00  
 Application Method: Spray  
 Application Timing: MPOST  
 Application Placement: BROFOL  
 Applied By: TGM  
 Air Temperature, Unit: 86 F  
 % Relative Humidity: 50  
 Wind Velocity, Unit: 1 MPH  
 Dew Presence (Y/N): N  
 Soil Temperature, Unit: 82 F  
 Soil Moisture: NORMAL  
 % Cloud Cover: 0

07-17-08

Crop stage at application: V2  
 Height Min, Max (inch): 5 7

## Pest Stage At Each Application

Application Date: 07-17-08  
 Weed Code: ABUTH  
 Stage Majority (leaves): 3  
 Stage Min, Max: COTY 5  
 Height Majority: 3 IN  
 Height Min, Max: 1 5  
 Density, Unit: 1 FT2  
 Weed Code: AMATA  
 Stage Majority (leaves): 4  
 Stage Min, Max: COTY 10  
 Height Majority: 3 IN  
 Height Min, Max: 0.5 6  
 Density, Unit: 10 FT2  
 Weed Code: AMBTR  
 Stage Majority (leaves): 4  
 Stage Min, Max: 2 6  
 Height Majority: 5 IN  
 Height Min, Max: 2 10  
 Density, Unit: 0.5 FT2  
 Weed Code: IPOSS  
 Stage Majority (leaves): 3  
 Stage Min, Max: COTY 6  
 Height Majority: 4 IN  
 Height Min, Max: 1 5  
 Density, Unit: 1 FT2  
 Weed Code: SETFA  
 Stage Majority (leaves): 4  
 Stage Min, Max: 2 5  
 Height Majority: 5 IN  
 Height Min, Max: 2 7  
 Density, Unit: 1 FT2

Cooperative POST Soybean Glyphosate Tank-Mix Adjuvants - Site 1.

Trial ID: 08-10A-N60

Location: Belleville Res. Center

**Application Equipment**

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

Cooperative POST Soybean Glyphosate Tank-Mix Adjuvants - Site 1.

Trial ID: 08-10A-N60 Location: Belleville Res. Center

Pest Code										GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA						
Crop Code										10-31-08	10-31-08	07-24-08	07-31-08	08-14-08	09-11-08						
Rating Date										Moisture	Yield	Injury	Injury	Injury	Injury						
Rating Data Type										Percent	bu/A	Percent	Percent	Percent	Percent						
Rating Unit																					
Rating Timing																					
Trt-Eval Interval												7 DA-A	14 DA-A	28 DA-A	56 DA-A						
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	A	12.1	abc	43	abc	0	i	0	a	0	g	0	b
1	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A												
2	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A	12.0	bc	39	a-e	25	c	0	a	8	b-e	1	a
2	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	MPOST	A												
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A												
3	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A	13.1	a	36	c-f	31	ab	0	a	10	abc	0	b
3	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	MPOST	A												
3	PREFERENCE	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A												
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A												
4	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A	12.1	abc	40	a-e	31	ab	0	a	11	ab	0	b
4	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	MPOST	A												
4	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	MPOST	A												
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A												
5	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A	12.5	abc	43	abc	33	a	0	a	12	a	0	b
5	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	MPOST	A												
5	SUPERB HC	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A												
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A												
6	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A	12.4	abc	40	a-e	31	ab	0	a	9	a-d	0	b
6	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	MPOST	A												
6	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A												
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A												
7	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A	12.1	abc	37	b-f	29	b	0	a	12	a	0	b
7	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	MPOST	A												
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A												
8	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A	12.6	abc	46	a	29	b	0	a	9	a-d	0	b
8	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	MPOST	A												
8	PREFERENCE	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A												
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A												
9	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A	12.1	abc	35	def	33	a	0	a	13	a	0	b
9	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	MPOST	A												
9	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	MPOST	A												
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A												
10	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A	12.6	abc	38	a-e	34	a	0	a	11	ab	0	b
10	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	MPOST	A												
10	SUPERB HC	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A												
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A												
11	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A	12.8	ab	34	ef	33	a	0	a	10	abc	1	a
11	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	MPOST	A												
11	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A												
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A												
12	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A	12.8	ab	43	abc	12	h	0	a	5	ef	0	b
12	FLEXSTAR	1.88	EC	0.147	lb ai/a	10	fl oz/a	MPOST	A												
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A												
13	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A	11.8	bc	41	a-e	18	ef	0	a	6	def	0	b
13	FLEXSTAR	1.88	EC	0.147	lb ai/a	10	fl oz/a	MPOST	A												
13	PREFERENCE	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A												
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A												
14	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A	12.1	abc	45	ab	13	h	0	a	4	fg	0	b
14	FLEXSTAR	1.88	EC	0.147	lb ai/a	10	fl oz/a	MPOST	A												
14	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	MPOST	A												
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A												
15	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A	12.1	abc	41	a-e	16	fg	0	a	4	fg	0	b
15	FLEXSTAR	1.88	EC	0.147	lb ai/a	10	fl oz/a	MPOST	A												
15	SUPERB HC	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A												
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A												

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Rating Date								Moisture	Yield	Injury	Injury	Injury	Injury								
Rating Data Type								Percent	bu/A	Percent	Percent	Percent	Percent								
Rating Unit																					
Rating Timing																					
Trt-Eval Interval								7 DA-A	14 DA-A	28 DA-A	56 DA-A										
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code												
16	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A	11.9	bc	43	abc	14	gh	0	a	4	fg	0	b
16	FLEXSTAR	1.88	EC	0.147	lb ai/a	10	fl oz/a	MPOST	A												
16	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A												
16	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A												
17	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A	11.9	bc	43	abc	20	de	0	a	6	def	0	b
17	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	MPOST	A												
17	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A												
18	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A	11.8	bc	45	a	20	de	0	a	7	c-f	0	b
18	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	MPOST	A												
18	PREFERENCE	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A												
18	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A												
19	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A	12.0	bc	42	a-d	21	d	0	a	6	def	0	b
19	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	MPOST	A												
19	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	MPOST	A												
19	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A												
20	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A	11.9	bc	46	a	22	cd	0	a	6	def	0	b
20	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	MPOST	A												
20	SUPERB HC	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A												
20	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A												
21	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A	11.7	c	40	a-e	21	de	0	a	6	def	0	b
21	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	MPOST	A												
21	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A												
21	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A												
22	NONTREATED									12.7	abc	29	f	0	i	0	a	0	g	0	b
LSD (P=.05)										1.07		7.9		3.1		0.0		3.8		0.8	
Replicate F										2.316		7.138		0.090		0.000		27.950		2.100	
Replicate Prob(F)										0.1111		0.0021		0.9142		1.0000		0.0001		0.1351	
Treatment F										1.115		2.382		85.779		0.000		7.693		1.000	
Treatment Prob(F)										0.3707		0.0082		0.0001		1.0000		0.0001		0.4832	

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

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										ABUTH	ABUTH	ABUTH	ABUTH	ABUTH
										07-17-08	07-31-08	08-14-08	09-11-08	10-02-08
										Plants	Control	Control	Control	Plants
										0.5 m2	Percent	Percent	Percent	0.5 m2
										Rating Unit	Rating Unit	Rating Unit	Rating Unit	Rating Unit
										0 DA-A	14 DA-A	28 DA-A	56 DA-A	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	MPOST	A		98 abc	98 ab	99 a	0.0 b
1	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
2	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		95 a-d	96 a-d	97 a-d	2.0 b
2	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	MPOST	A					
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
3	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		98 ab	96 a-d	97 a-d	1.7 b
3	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	MPOST	A					
3	PREFERENCE	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A					
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
4	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		95 a-d	92 d	95 bcd	0.7 b
4	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	MPOST	A					
4	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	MPOST	A					
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
5	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		99 a	98 ab	98 ab	0.0 b
5	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	MPOST	A					
5	SUPERB HC	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A					
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
6	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		98 ab	94 bcd	98 abc	0.7 b
6	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	MPOST	A					
6	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A					
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
7	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		99 a	98 a	99 a	0.3 b
7	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	MPOST	A					
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
8	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		93 bcd	95 a-d	95 a-d	0.3 b
8	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	MPOST	A					
8	PREFERENCE	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A					
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
9	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		93 cd	93 cd	93 d	1.0 b
9	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	MPOST	A					
9	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	MPOST	A					
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
10	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		95 a-d	97 abc	96 a-d	1.3 b
10	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	MPOST	A					
10	SUPERB HC	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A					
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
11	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		98 a	97 ab	97 a-d	1.3 b
11	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	MPOST	A					
11	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A					
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
12	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		96 a-d	96 a-d	98 abc	0.7 b
12	FLEXSTAR	1.88	EC	0.147	lb ai/a	10	fl oz/a	MPOST	A					
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
13	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		92 d	94 a-d	94 cd	0.0 b
13	FLEXSTAR	1.88	EC	0.147	lb ai/a	10	fl oz/a	MPOST	A					
13	PREFERENCE	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A					
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
14	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		92 d	97 ab	97 a-d	2.3 b
14	FLEXSTAR	1.88	EC	0.147	lb ai/a	10	fl oz/a	MPOST	A					
14	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	MPOST	A					
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
15	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		93 cd	95 a-d	98 abc	0.7 b
15	FLEXSTAR	1.88	EC	0.147	lb ai/a	10	fl oz/a	MPOST	A					
15	SUPERB HC	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A					
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					

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Pest Code	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH
Crop Code					
Rating Date	07-17-08	07-31-08	08-14-08	09-11-08	10-02-08
Rating Data Type	Plants	Control	Control	Control	Plants
Rating Unit	0.5 m2	Percent	Percent	Percent	0.5 m2
Rating Timing					
Trt-Eval Interval	0 DA-A	14 DA-A	28 DA-A	56 DA-A	EOS

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
16	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A			97 abc	97 ab	98 ab	0.0 b
16	FLEXSTAR	1.88	EC	0.147	lb ai/a	10	fl oz/a	MPOST	A						
16	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A						
16	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A						
17	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A			95 a-d	98 ab	98 ab	1.0 b
17	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	MPOST	A						
17	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A						
18	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A			98 abc	97 ab	99 a	0.0 b
18	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	MPOST	A						
18	PREFERENCE	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A						
18	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A						
19	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A			95 a-d	96 a-d	97 a-d	0.3 b
19	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	MPOST	A						
19	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	MPOST	A						
19	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A						
20	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A			96 a-d	97 ab	97 a-d	1.0 b
20	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	MPOST	A						
20	SUPERB HC	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A						
20	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A						
21	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A			96 a-d	97 ab	99 a	0.0 b
21	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	MPOST	A						
21	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A						
21	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A						
22	NONTREATED									5.3	0 e	0 e	0 e	7.7 a	
LSD (P=.05)											4.8	4.1	3.7	3.14	
Replicate F											3.247	0.190	6.970	1.617	
Replicate Prob(F)											0.0488	0.8279	0.0024	0.2105	
Treatment F											150.125	201.388	257.660	2.192	
Treatment Prob(F)											0.0001	0.0001	0.0001	0.0151	

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

## Cooperative POST Soybean Glyphosate Tank-Mix Adjuvants - Site 1.

Trial ID: 08-10A-N60

Location: Belleville Res. Center

										AMATA	AMATA	AMATA	AMATA	AMATA
										07-17-08	07-31-08	08-14-08	09-11-08	10-02-08
										Plants	Control	Control	Control	Plants
										0.5 m2	Percent	Percent	Percent	0.5 m2
										Rating Unit				
										Rating Timing				
										Trt-Eval Interval				
										0 DA-A	14 DA-A	28 DA-A	56 DA-A	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	MPOST	A		99 a	96 b	96 b	0.7 a
1	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
2	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		99 a	98 ab	98 ab	0.0 a
2	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	MPOST	A					
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
3	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		99 a	96 b	97 ab	0.7 a
3	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	MPOST	A					
3	PREFERENCE	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A					
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
4	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		98 b	98 ab	98 a	0.3 a
4	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	MPOST	A					
4	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	MPOST	A					
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
5	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		99 a	99 a	99 a	0.0 a
5	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	MPOST	A					
5	SUPERB HC	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A					
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
6	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		99 a	99 a	99 a	0.0 a
6	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	MPOST	A					
6	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A					
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
7	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		99 a	99 a	98 a	0.0 a
7	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	MPOST	A					
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
8	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		99 a	99 a	98 a	0.3 a
8	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	MPOST	A					
8	PREFERENCE	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A					
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
9	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		99 a	99 a	98 a	0.3 a
9	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	MPOST	A					
9	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	MPOST	A					
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
10	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		99 a	99 a	99 a	0.0 a
10	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	MPOST	A					
10	SUPERB HC	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A					
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
11	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		99 a	98 ab	99 a	0.0 a
11	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	MPOST	A					
11	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A					
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
12	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		99 a	99 a	98 ab	0.0 a
12	FLEXSTAR	1.88	EC	0.147	lb ai/a	10	fl oz/a	MPOST	A					
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
13	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		99 a	98 ab	98 ab	0.7 a
13	FLEXSTAR	1.88	EC	0.147	lb ai/a	10	fl oz/a	MPOST	A					
13	PREFERENCE	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A					
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
14	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		99 a	98 ab	98 ab	0.0 a
14	FLEXSTAR	1.88	EC	0.147	lb ai/a	10	fl oz/a	MPOST	A					
14	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	MPOST	A					
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
15	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		98 b	98 ab	98 a	0.0 a
15	FLEXSTAR	1.88	EC	0.147	lb ai/a	10	fl oz/a	MPOST	A					
15	SUPERB HC	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A					
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					

Cooperative POST Soybean Glyphosate Tank-Mix Adjuvants - Site 1.

Trial ID: 08-10A-N60 Location: Belleville Res. Center

Pest Code	AMATA	AMATA	AMATA	AMATA	AMATA
Crop Code					
Rating Date	07-17-08	07-31-08	08-14-08	09-11-08	10-02-08
Rating Data Type	Plants	Control	Control	Control	Plants
Rating Unit	0.5 m2	Percent	Percent	Percent	0.5 m2
Rating Timing					
Trt-Eval Interval	0 DA-A	14 DA-A	28 DA-A	56 DA-A	EOS

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
16	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A					
16	FLEXSTAR	1.88	EC	0.147	lb ai/a	10	fl oz/a	MPOST	A		99 a	99 a	99 a	0.0 a
16	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A					
16	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
17	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A					
17	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	MPOST	A		99 a	99 a	98 a	0.0 a
17	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
18	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A					
18	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	MPOST	A		99 a	99 a	99 a	0.0 a
18	PREFERENCE	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A					
18	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
19	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A					
19	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	MPOST	A		99 a	99 a	99 a	0.0 a
19	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	MPOST	A					
19	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
20	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A					
20	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	MPOST	A		99 a	99 a	98 a	0.0 a
20	SUPERB HC	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A					
20	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
21	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A					
21	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	MPOST	A		99 a	99 a	99 a	0.0 a
21	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A					
21	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
22	NONTREATED									3.5	0 c	0 c	0 c	0.3 a
LSD (P=.05)											1.1	2.4	2.1	0.74
Replicate F											2.100	12.490	17.092	5.495
Replicate Prob(F)											0.1351	0.0001	0.0001	0.0076
Treatment F											2887.933	631.579	842.054	0.903
Treatment Prob(F)											0.0001	0.0001	0.0001	0.5883

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

## Cooperative POST Soybean Glyphosate Tank-Mix Adjuvants - Site 1.

Trial ID: 08-10A-N60

Location: Belleville Res. Center

										AMBTR	AMBTR	AMBTR	AMBTR	AMBTR	
										07-17-08	07-31-08	08-14-08	09-11-08	10-02-08	
										Plants	Control	Control	Control	Plants	
										0.5 m2	Percent	Percent	Percent	0.5 m2	
										Rating Unit					
										Rating Timing					
										Trt-Eval Interval	0 DA-A	14 DA-A	28 DA-A	56 DA-A	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	MPOST	A		99 a	99 a	99 a	0.0	b
1	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A						
2	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		98 a	98 a	97 ab	1.0	ab
2	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	MPOST	A						
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A						
3	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		99 a	96 b	98 ab	0.0	b
3	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	MPOST	A						
3	PREFERENCE	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A						
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A						
4	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		99 a	98 ab	96 ab	1.0	ab
4	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	MPOST	A						
4	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	MPOST	A						
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A						
5	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		98 a	98 a	97 ab	0.3	ab
5	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	MPOST	A						
5	SUPERB HC	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A						
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A						
6	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		98 a	98 a	96 b	1.7	a
6	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	MPOST	A						
6	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A						
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A						
7	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		99 a	99 a	99 a	0.0	b
7	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	MPOST	A						
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A						
8	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		98 a	99 a	98 ab	1.0	ab
8	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	MPOST	A						
8	PREFERENCE	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A						
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A						
9	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		98 a	99 a	97 ab	0.0	b
9	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	MPOST	A						
9	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	MPOST	A						
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A						
10	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		99 a	99 a	96 ab	0.0	b
10	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	MPOST	A						
10	SUPERB HC	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A						
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A						
11	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		98 a	99 a	98 ab	0.0	b
11	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	MPOST	A						
11	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A						
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A						
12	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		99 a	99 a	98 ab	0.7	ab
12	FLEXSTAR	1.88	EC	0.147	lb ai/a	10	fl oz/a	MPOST	A						
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A						
13	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		99 a	99 a	98 ab	0.3	ab
13	FLEXSTAR	1.88	EC	0.147	lb ai/a	10	fl oz/a	MPOST	A						
13	PREFERENCE	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A						
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A						
14	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		99 a	99 a	99 a	0.0	b
14	FLEXSTAR	1.88	EC	0.147	lb ai/a	10	fl oz/a	MPOST	A						
14	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	MPOST	A						
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A						
15	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		99 a	98 a	99 ab	0.0	b
15	FLEXSTAR	1.88	EC	0.147	lb ai/a	10	fl oz/a	MPOST	A						
15	SUPERB HC	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A						
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A						



## Cooperative POST Soybean Glyphosate Tank-Mix Adjuvants - Site 1.

Trial ID: 08-10A-N60

Location: Belleville Res. Center

										IPOSS	IPOSS	IPOSS	IPOSS	IPOSS
										07-17-08	07-31-08	08-14-08	09-11-08	10-02-08
										Plants	Control	Control	Control	Plants
										0.5 m2	Percent	Percent	Percent	0.5 m2
										Rating Unit	Rating Unit	Rating Unit	Rating Unit	Rating Unit
										0 DA-A	14 DA-A	28 DA-A	56 DA-A	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	MPOST	A		43 h	73 b-e	83 ab	5.3 ab
1	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
2	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		60 g	72 cde	78 bc	4.0 b
2	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	MPOST	A					
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
3	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		60 g	68 e	67 c	7.7 ab
3	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	MPOST	A					
3	PREFERENCE	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A					
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
4	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		67 fg	78 b-e	80 bc	4.3 ab
4	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	MPOST	A					
4	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	MPOST	A					
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
5	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		73 ef	75 b-e	88 ab	4.3 ab
5	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	MPOST	A					
5	SUPERB HC	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A					
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
6	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		75 def	80 bcd	82 ab	4.7 ab
6	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	MPOST	A					
6	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A					
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
7	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		83 bcd	82 a-d	83 ab	2.7 b
7	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	MPOST	A					
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
8	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		78 de	77 b-e	87 ab	9.3 a
8	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	MPOST	A					
8	PREFERENCE	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A					
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
9	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		80 de	68 e	85 ab	4.7 ab
9	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	MPOST	A					
9	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	MPOST	A					
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
10	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		82 cde	78 b-e	82 ab	4.0 b
10	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	MPOST	A					
10	SUPERB HC	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A					
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
11	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		77 de	77 b-e	82 ab	4.7 ab
11	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	MPOST	A					
11	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A					
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
12	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		78 de	72 cde	89 ab	6.3 ab
12	FLEXSTAR	1.88	EC	0.147	lb ai/a	10	fl oz/a	MPOST	A					
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
13	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		83 bcd	71 de	79 bc	5.0 ab
13	FLEXSTAR	1.88	EC	0.147	lb ai/a	10	fl oz/a	MPOST	A					
13	PREFERENCE	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A					
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
14	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		83 bcd	75 b-e	85 ab	4.7 ab
14	FLEXSTAR	1.88	EC	0.147	lb ai/a	10	fl oz/a	MPOST	A					
14	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	MPOST	A					
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
15	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		92 ab	82 abc	94 a	5.3 ab
15	FLEXSTAR	1.88	EC	0.147	lb ai/a	10	fl oz/a	MPOST	A					
15	SUPERB HC	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A					
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					

## Cooperative POST Soybean Glyphosate Tank-Mix Adjuvants - Site 1.

Trial ID: 08-10A-N60

Location: Belleville Res. Center

Pest Code										IPOSS	IPOSS	IPOSS	IPOSS	IPOSS
Crop Code										07-17-08	07-31-08	08-14-08	09-11-08	10-02-08
Rating Date										Plants	Control	Control	Control	Plants
Rating Data Type										0.5 m2	Percent	Percent	Percent	0.5 m2
Rating Unit														
Rating Timing														
Trt-Eval Interval										0 DA-A	14 DA-A	28 DA-A	56 DA-A	EOS
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code					
16	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		95 a	82 abc	90 ab	5.0 ab
16	FLEXSTAR	1.88	EC	0.147	lb ai/a	10	fl oz/a	MPOST	A					
16	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A					
16	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
17	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		94 a	83 ab	89 ab	4.0 b
17	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	MPOST	A					
17	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
18	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		94 a	78 b-e	91 ab	5.3 ab
18	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	MPOST	A					
18	PREFERENCE	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A					
18	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
19	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		90 abc	76 b-e	90 ab	3.0 b
19	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	MPOST	A					
19	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	MPOST	A					
19	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
20	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		92 ab	82 a-d	89 ab	4.7 ab
20	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	MPOST	A					
20	SUPERB HC	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A					
20	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
21	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		96 a	92 a	95 a	2.7 b
21	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	MPOST	A					
21	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A					
21	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
22	NONTREATED									13.2	0 i	0 f	0 d	7.2 ab
LSD (P=.05)											10.0	11.1	13.7	5.08
Replicate F											4.374	0.021	0.628	0.145
Replicate Prob(F)											0.0188	0.9790	0.5385	0.8659
Treatment F											38.137	20.123	15.986	0.785
Treatment Prob(F)											0.0001	0.0001	0.0001	0.7209

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

## Cooperative POST Soybean Glyphosate Tank-Mix Adjuvants - Site 1.

Trial ID: 08-10A-N60

Location: Belleville Res. Center

										SETFA	SETFA	SETFA	SETFA	SETFA
										07-17-08	07-31-08	08-14-08	09-11-08	10-02-08
										Plants	Control	Control	Control	Plants
										0.5 m2	Percent	Percent	Percent	0.5 m2
										0 DA-A	14 DA-A	28 DA-A	56 DA-A	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	MPOST	A		99 a	99 ab	99 a	0.0 b
1	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
2	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		99 a	99 ab	98 ab	1.0 ab
2	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	MPOST	A					
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
3	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		99 a	96 c	96 ab	2.0 ab
3	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	MPOST	A					
3	PREFERENCE	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A					
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
4	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		98 b	97 bc	94 b	2.7 ab
4	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	MPOST	A					
4	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	MPOST	A					
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
5	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		99 a	98 ab	96 ab	1.7 ab
5	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	MPOST	A					
5	SUPERB HC	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A					
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
6	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		98 ab	99 ab	98 ab	3.0 ab
6	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	MPOST	A					
6	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A					
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
7	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		99 a	99 ab	99 a	0.0 b
7	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	MPOST	A					
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
8	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		99 a	98 ab	98 ab	2.3 ab
8	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	MPOST	A					
8	PREFERENCE	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A					
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
9	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		99 a	98 ab	94 b	2.7 ab
9	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	MPOST	A					
9	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	MPOST	A					
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
10	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		99 a	98 ab	95 ab	1.7 ab
10	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	MPOST	A					
10	SUPERB HC	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A					
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
11	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		99 a	98 ab	98 ab	0.3 b
11	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	MPOST	A					
11	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A					
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
12	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		99 a	99 a	99 a	0.0 b
12	FLEXSTAR	1.88	EC	0.147	lb ai/a	10	fl oz/a	MPOST	A					
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
13	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		99 a	99 ab	99 a	0.3 b
13	FLEXSTAR	1.88	EC	0.147	lb ai/a	10	fl oz/a	MPOST	A					
13	PREFERENCE	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A					
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
14	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		99 a	98 ab	99 a	0.0 b
14	FLEXSTAR	1.88	EC	0.147	lb ai/a	10	fl oz/a	MPOST	A					
14	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	MPOST	A					
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					
15	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A		99 a	98 ab	99 a	0.0 b
15	FLEXSTAR	1.88	EC	0.147	lb ai/a	10	fl oz/a	MPOST	A					
15	SUPERB HC	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A					
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A					

## Cooperative POST Soybean Glyphosate Tank-Mix Adjuvants - Site 1.

Trial ID: 08-10A-N60

Location: Belleville Res. Center

		SETFA					
		07-17-08	07-31-08	08-14-08	09-11-08	10-02-08	
		Plants	Control	Control	Control	Plants	
		0.5 m2	Percent	Percent	Percent	0.5 m2	
		0 DA-A	14 DA-A	28 DA-A	56 DA-A	EOS	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Other Rate Unit	Growth Stage	Appl Code
16	ROUNDUP P-MAX	4.5	SL	0.77 lb ae/a	22 fl oz/a	MPOST A	
16	FLEXSTAR	1.88	EC	0.147 lb ai/a	10 fl oz/a	MPOST A	99 a
16	DESTINY HC	100	SL	0.5 % v/v	0.5 % v/v	MPOST A	99 ab
16	N-PAK AMS	100	SL	5 % v/v	5 % v/v	MPOST A	99 a
17	ROUNDUP P-MAX	4.5	SL	0.77 lb ae/a	22 fl oz/a	MPOST A	
17	FLEXSTAR	1.88	EC	0.294 lb ai/a	20 fl oz/a	MPOST A	99 a
17	N-PAK AMS	100	SL	5 % v/v	5 % v/v	MPOST A	99 a
18	ROUNDUP P-MAX	4.5	SL	0.77 lb ae/a	22 fl oz/a	MPOST A	
18	FLEXSTAR	1.88	EC	0.294 lb ai/a	20 fl oz/a	MPOST A	99 a
18	PREFERENCE	100	SL	0.5 % v/v	0.5 % v/v	MPOST A	99 ab
18	N-PAK AMS	100	SL	5 % v/v	5 % v/v	MPOST A	99 a
19	ROUNDUP P-MAX	4.5	SL	0.77 lb ae/a	22 fl oz/a	MPOST A	
19	FLEXSTAR	1.88	EC	0.294 lb ai/a	20 fl oz/a	MPOST A	99 a
19	PRIME OIL COC	100	SL	1 % v/v	1 % v/v	MPOST A	98 ab
19	N-PAK AMS	100	SL	5 % v/v	5 % v/v	MPOST A	98 ab
20	ROUNDUP P-MAX	4.5	SL	0.77 lb ae/a	22 fl oz/a	MPOST A	
20	FLEXSTAR	1.88	EC	0.294 lb ai/a	20 fl oz/a	MPOST A	99 a
20	SUPERB HC	100	SL	0.5 % v/v	0.5 % v/v	MPOST A	99 ab
20	N-PAK AMS	100	SL	5 % v/v	5 % v/v	MPOST A	99 a
21	ROUNDUP P-MAX	4.5	SL	0.77 lb ae/a	22 fl oz/a	MPOST A	
21	FLEXSTAR	1.88	EC	0.294 lb ai/a	20 fl oz/a	MPOST A	99 a
21	DESTINY HC	100	SL	0.5 % v/v	0.5 % v/v	MPOST A	99 a
21	N-PAK AMS	100	SL	5 % v/v	5 % v/v	MPOST A	99 a
22	NONTREATED						3.8
LSD (P=.05)							0.9
Replicate F							2.048
Replicate Prob(F)							11.832
Treatment F							8.806
Treatment Prob(F)							9.449
							0.1417
							0.0001
							0.0006
							0.0004
							4190.606
							1030.151
							201.572
							1.275
							0.0001
							0.0001
							0.0001
							0.2457

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; late-season rating of all plots at 56 DAT or at crop harvest.
3. MPOST = 3-5"W.
4. Take weed counts in nontreated at the "B" application timing (No./0.5 m2).
5. Yield if possible.
6. DA-A = Days after MPOST application. 0.5 m2 = 0.5 square meter. EOS = End of season.
7. At the Belleville Research Center the above normal rainfall in spring 2008 (no more than four consecutive rain-free days between March 22 and June 15) delayed corn and soybean planting until mid-June.
8. IPOSS = Morningglory species including IPOHE and IPOLA.
9. Harvested 10-31-08, (2) 30 inch rows by 19 ft.