

Cooperative POST Soybean Glyphosate Tank-Mix Adjuvants - Clinton.

Trial ID: 09-Clinton-TMadj Location: Huey, IL

Investigator: Bryan Young, Professor, Southern Illinois University, bgyoung@siu.edu
 City State Zip Country: Huey IL 62252 USA
 Trial Status: FINAL Initiation Date: 06-12-09

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

Crop 1: GLXMA Soybean Variety: RR
 Planting Method: SEEDED Planting Date: 06-12-09
 LB/A Depth, Unit: 1.5 IN
 Row Spacing, Unit: 15 IN
 Pest 1 Type: W Code: AMATA Amaranthus rudis Sauer waterhemp, common
 Pest Description: PPO-resistant waterhemp
 Pest 2 Type: W Code: MOLVE Mollugo verticillata L. carpetweed
 Plot Width, Unit: 10 FT Site Type: FIELD
 Plot Length, Unit: 30 FT Tillage Type: REDUCED-TILL
 Replications: 3 Study Design: Randomized Complete Block

Texture: SILT LOAM

Application Description

A

Application Date: 07-03-09
 Time of Day: 10:00 AM
 Application Method: Spray
 Application Timing: MPOST
 Application Placement: BROFOL
 Applied By: DKP
 Air Temperature, Unit: 81 F
 % Relative Humidity: 43
 Wind Velocity, Unit: 4 MPH
 Wind Direction: NW
 Dew Presence (Y/N): N
 Soil Temperature, Unit: 78 F
 Soil Moisture: NORMAL
 % Cloud Cover: 20

Crop stage at application: 07-03-09
 V3
 Height Min, Max (inch): 6 8

Pest Stage At Each Application

Application Date: 07-03-09
 Weed Code: AMATA
 Stage Majority (leaves): 8
 Stage Min, Max: 4 12
 Height Majority: 4 IN
 Height Min, Max: 2 10
 Density, Unit: 1 FT2
 Weed Code: MOLVE
 Stage Majority (leaves): 8
 Stage Min, Max: 2 12
 Height Majority: 0.75 IN DIA
 Height Min, Max: 0.25 1.25
 Density, Unit: 10 FT2

Application Equipment

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

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										AMATA-HR			AMATA-HR	AMATA-HR	
Pest Code										GLXMA	GLXMA	GLXMA			
Crop Code										07-10-09	07-17-09	07-31-09	07-17-09	07-31-09	08-28-09
Rating Date										Injury	Injury	Injury	Control	Control	Control
Rating Data Type										Percent	Percent	Percent	Percent	Percent	Percent
Rating Unit															
Rating Timing															
Trt-Eval Interval										7 DA-A	14 DA-A	28 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	A	0 k	0 k	0 a	97 a	98 ab	99 a
1	N-PAK AMS	100 SL		5 % v/v		5 % v/v		MPOST A	A						
2	ROUNDUP P-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		MPOST A	A	22 ef	9 cde	0 a	97 a	99 ab	99 a
2	COBRA	2 EC		0.094 lb ai/a		6 fl oz/a		MPOST A	A						
2	N-PAK AMS	100 SL		5 % v/v		5 % v/v		MPOST A	A						
3	ROUNDUP P-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		MPOST A	A	20 fg	7 efg	0 a	96 a	98 ab	99 a
3	COBRA	2 EC		0.094 lb ai/a		6 fl oz/a		MPOST A	A						
3	PREFERENCE	100 SL		0.5 % v/v		0.5 % v/v		MPOST A	A						
3	N-PAK AMS	100 SL		5 % v/v		5 % v/v		MPOST A	A						
4	ROUNDUP P-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		MPOST A	A	28 c	8 def	0 a	98 a	99 ab	99 a
4	COBRA	2 EC		0.094 lb ai/a		6 fl oz/a		MPOST A	A						
4	PRIME OIL COC	100 SL		1 % v/v		1 % v/v		MPOST A	A						
4	N-PAK AMS	100 SL		5 % v/v		5 % v/v		MPOST A	A						
5	ROUNDUP P-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		MPOST A	A	27 cd	7 efg	0 a	97 a	99 ab	98 a
5	COBRA	2 EC		0.094 lb ai/a		6 fl oz/a		MPOST A	A						
5	SUPERB HC	100 SL		0.5 % v/v		0.5 % v/v		MPOST A	A						
5	N-PAK AMS	100 SL		5 % v/v		5 % v/v		MPOST A	A						
6	ROUNDUP P-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		MPOST A	A	24 de	7 efg	0 a	97 a	99 ab	99 a
6	COBRA	2 EC		0.094 lb ai/a		6 fl oz/a		MPOST A	A						
6	DESTINY HC	100 SL		0.5 % v/v		0.5 % v/v		MPOST A	A						
6	N-PAK AMS	100 SL		5 % v/v		5 % v/v		MPOST A	A						
7	ROUNDUP P-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		MPOST A	A	30 bc	11 bc	0 a	98 a	99 ab	99 a
7	COBRA	2 EC		0.188 lb ai/a		12 fl oz/a		MPOST A	A						
7	N-PAK AMS	100 SL		5 % v/v		5 % v/v		MPOST A	A						
8	ROUNDUP P-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		MPOST A	A	33 ab	10 bcd	0 a	96 a	99 ab	99 a
8	COBRA	2 EC		0.188 lb ai/a		12 fl oz/a		MPOST A	A						
8	PREFERENCE	100 SL		0.5 % v/v		0.5 % v/v		MPOST A	A						
8	N-PAK AMS	100 SL		5 % v/v		5 % v/v		MPOST A	A						
9	ROUNDUP P-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		MPOST A	A	34 a	14 a	0 a	96 a	98 ab	99 a
9	COBRA	2 EC		0.188 lb ai/a		12 fl oz/a		MPOST A	A						
9	PRIME OIL COC	100 SL		1 % v/v		1 % v/v		MPOST A	A						
9	N-PAK AMS	100 SL		5 % v/v		5 % v/v		MPOST A	A						
10	ROUNDUP P-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		MPOST A	A	33 ab	12 ab	0 a	97 a	99 a	99 a
10	COBRA	2 EC		0.188 lb ai/a		12 fl oz/a		MPOST A	A						
10	SUPERB HC	100 SL		0.5 % v/v		0.5 % v/v		MPOST A	A						
10	N-PAK AMS	100 SL		5 % v/v		5 % v/v		MPOST A	A						
11	ROUNDUP P-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		MPOST A	A	30 bc	12 ab	0 a	96 a	99 ab	99 a
11	COBRA	2 EC		0.188 lb ai/a		12 fl oz/a		MPOST A	A						
11	DESTINY HC	100 SL		0.5 % v/v		0.5 % v/v		MPOST A	A						
11	N-PAK AMS	100 SL		5 % v/v		5 % v/v		MPOST A	A						
12	ROUNDUP P-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		MPOST A	A	7 j	3 j	0 a	92 b	97 b	99 a
12	FLEXSTAR	1.88 EC		0.147 lb ai/a		10 fl oz/a		MPOST A	A						
12	N-PAK AMS	100 SL		5 % v/v		5 % v/v		MPOST A	A						
13	ROUNDUP P-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		MPOST A	A	13 i	3 j	0 a	96 a	99 ab	99 a
13	FLEXSTAR	1.88 EC		0.147 lb ai/a		10 fl oz/a		MPOST A	A						
13	PREFERENCE	100 SL		0.5 % v/v		0.5 % v/v		MPOST A	A						
13	N-PAK AMS	100 SL		5 % v/v		5 % v/v		MPOST A	A						
14	ROUNDUP P-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		MPOST A	A	12 i	3 j	0 a	97 a	99 ab	99 a
14	FLEXSTAR	1.88 EC		0.147 lb ai/a		10 fl oz/a		MPOST A	A						
14	PRIME OIL COC	100 SL		1 % v/v		1 % v/v		MPOST A	A						
14	N-PAK AMS	100 SL		5 % v/v		5 % v/v		MPOST A	A						
15	ROUNDUP P-MAX	4.5 SL		0.77 lb ae/a		22 fl oz/a		MPOST A	A	12 i	4 ij	0 a	97 a	99 ab	98 a
15	FLEXSTAR	1.88 EC		0.147 lb ai/a		10 fl oz/a		MPOST A	A						
15	SUPERB HC	100 SL		0.5 % v/v		0.5 % v/v		MPOST A	A						
15	N-PAK AMS	100 SL		5 % v/v		5 % v/v		MPOST A	A						

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										AMATA-HR		
Pest Code										07-17-09	07-31-09	08-28-09
Crop Code										Control	Control	Control
Rating Date										Percent	Percent	Percent
Rating Data Type										Percent	Percent	Percent
Rating Unit										Percent	Percent	Percent
Rating Timing										Percent	Percent	Percent
Trt-Eval Interval										Percent	Percent	Percent
										7 DA-A	14 DA-A	28 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	13 i	4 hij	0 a
16	FLEXSTAR	1.88	EC	0.147	lb ai/a	10	fl oz/a	MPOST	A			96 a
16	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A			99 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	15 hi	5 g-j	0 a
17	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	MPOST	A			95 a
17	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A			98 ab
18	ROUNDUP P-MAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	A	14 hi	4 ij	0 a
18	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	MPOST	A			97 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	17 gh	5 g-j	0 a
19	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	MPOST	A			97 a
19	PRIME OIL COC	100	SL	1	% v/v	1	% v/v	MPOST	A			99 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	17 gh	6 ghi	0 a
20	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	MPOST	A			96 a
20	SUPERB HC	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A			98 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	19 fg	6 fgh	0 a
21	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	MPOST	A			97 a
21	DESTINY HC	100	SL	0.5	% v/v	0.5	% v/v	MPOST	A			98 ab
21	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	A			98 a
22	NONTREATED									0 k	0 k	0 a
LSD (P=.05)										3.7	2.2	0.0
Replicate F										1.109	5.228	0.000
Replicate Prob(F)										0.3392	0.0094	1.0000
Treatment F										60.566	24.997	0.000
Treatment Prob(F)										0.0001	0.0001	1.0000
										3.597	0.143	0.187
										0.0362	0.8671	0.8299
										399.532	1784.870	2348.307
										0.0001	0.0001	0.0001

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

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Pest Code		MOLVE	MOLVE	MOLVE
Crop Code				
Rating Date		07-17-09	07-31-09	08-28-09
Rating Data Type		Control	Control	Control
Rating Unit		Percent	Percent	Percent
Rating Timing				
Trt-Eval Interval		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	97	cd	99 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	97	bcd	99 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	98	a-d	99 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	abc	99 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	98	a-d	99 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	98	a-d	99 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	98	abc	99 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	98	a-d	99 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	98	abc	99 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	ab	99 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	99 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	97	bcd	99 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	98	a-d	99 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	97	d	99 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	a-d	99 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			

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Pest Code	MOLVE	MOLVE	MOLVE
Crop Code			
Rating Date	07-17-09	07-31-09	08-28-09
Rating Data Type	Control	Control	Control
Rating Unit	Percent	Percent	Percent
Rating Timing			
Trt-Eval Interval	14 DA-A	28 DA-A	56 DA-A

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	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		99 a	99 a	99 a
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		98 abc	99 a	99 a
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		97 bcd	98 a	99 a
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		98 a-d	99 a	99 a
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		98 abc	99 a	99 a
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		99 ab	99 a	99 a
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								0 e	0 b	0 b
LSD (P=.05)									1.4	0.7	0.0
Replicate F									0.267	0.920	0.000
Replicate Prob(F)									0.7667	0.4065	1.0000
Treatment F									1778.775	6735.289	0.000
Treatment Prob(F)									0.0001	0.0001	1.0000

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. Crop canopied prior to 28 dat rating.
7. AMATA-HR = Herbicide-resistant waterhemp (PPO).
8. 7/3/09 Weed counts in nontreated. Plot 122: 53 Molve 8 Amata, Plot 212: 74 Molve 6 Amata, Plot 308: 45 Molve 5 Amata
9. Not harvested