

ISA POST Tank-Mix Study.

Trial ID: 10-DSO-ISA-TM

Location: De Soto, IL

Investigator: Bryan Young, Professor, Southern Illinois University, bgyoung@siu.edu
 City State Zip Country: De Soto IL 62924 USA
 Trial Status: FINAL Initiation Date: 05-08-10

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: 05-08-10
 Rate, Unit: 75 LB/A Depth, Unit: 1.0 IN
 Row Spacing, Unit: 30 IN

Pest 1 Type: W Code: AMATA Amaranthus rudis Sauer waterhemp, common
 Pest Description: glyphosate-resistant

Plot Width, Unit: 10 FT Site Type: FIELD
 Plot Length, Unit: 30 FT Tillage Type: NO-TILL
 Replications: 3 Study Design: Randomized Complete Block

Prior Crops, Year
 1. ZEAMD 2009

Field Prep./Maintenance: N 13 LB/A, P205 34 LB/A, K20 92 LB/A

% OM: 2.5 Texture: SILT LOAM
 pH: 6.8 Soil Name: OKAW
 CEC: 12 Fert. Level: P1 88 LB/A, K 207 LB/A

	Application Description			
	A	B	C	D
Application Date:	05-08-10	05-27-10	06-04-10	06-10-10
Time of Day:	19:00	18:00	12:00	10:30
Application Method:	Spray	Spray	Spray	Spray
Application Timing:	PRE	MPOST	LPOST	4"W
Application Placement:	BROFOL	BROFOL	BROFOL	BROFOL
Applied By:	DKP	NVH	DKP	DKP
Air Temperature, Unit:	61 F	90 F	91 F	89 F
% Relative Humidity:	50	51	52	77
Wind Velocity, Unit:	5 MPH	4 MPH	4 MPH	2 MPH
Wind Direction:	NW	NW	S	S
Dew Presence (Y/N):	N	N	N	N
Soil Temperature, Unit:	68 F	82 F	80 F	80 F
Soil Moisture:	NORMAL	ABONOR	NORMAL	ABONOR
% Cloud Cover:	30	60	60	50
Crop stage at application:	NA	V1	V3	V5
Height Min, Max (inch):		3 6	4 9	10 14

	Pest Stage At Each Application			
	A	B	C	D
Application Date:	05-08-10	05-27-10	06-04-10	06-10-10
Weed Code:	AMATA	AMATA	AMATA	AMATA
Stage Majority (leaves):	NA	6	12	12
Stage Min, Max:	NA NA	COTY 10	4 20	4 20
Height Majority:		3.75 IN	8 IN	4 IN
Height Min, Max:		0.25 6	2 10	2 10
Density, Unit:		20 FT2	20 FT2	1 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:	6.67 FT	6.67 FT	6.67 FT	6.67 FT
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA	15 GPA

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Location: De Soto, IL

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

GLXMA GLXMA GLXMA GLXMA
09-24-10
Yield Injury Injury Injury
bu/A Percent Percent 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 POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST B	B	31	h-m	0	k
1	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST B	B			0	j
2	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	MPOST B	B	29	klm	0	k
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST B	B			0	j
3	ROUNDUP POWERMAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	MPOST B	B	33	d-j	0	k
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST B	B			0	j
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST B	B	35	b-h	0	k
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST B	B			0	j
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST C	C				
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST C	C				
5	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	MPOST B	B	35	b-h	0	k
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST B	B			0	j
5	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	LPOST C	C				
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST C	C				
6	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST B	B	36	b-g	27	b
6	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	MPOST B	B			13	c
6	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST B	B				
7	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST B	B	34	c-i	33	a
7	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	MPOST B	B			16	a
7	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST B	B				
8	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST B	B	34	c-i	16	ef
8	FLEXSTAR	1.88	EC	0.147	lb ai/a	10	fl oz/a	MPOST B	B			7	fg
8	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST B	B				
9	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST B	B	38	ab	17	de
9	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	MPOST B	B			8	ef
9	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST B	B				
10	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST B	B	33	f-l	0	k
10	FIRSTRATE	84	WG	0.0158	lb ai/a	0.3	oz/a	MPOST B	B			0	j
10	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST B	B				
11	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST B	B	30	i-m	12	gh
11	RESOURCE	0.86	EC	0.027	lb ai/a	4	fl oz/a	MPOST B	B			6	gh
11	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST B	B				
12	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST B	B	30	j-m	13	g
12	RESOURCE	0.86	EC	0.054	lb ai/a	8	fl oz/a	MPOST B	B			7	fg
12	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST B	B				
13	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST B	B	33	d-j	10	h
13	CADET	0.91	EC	0.00427	lb ai/a	0.6	fl oz/a	MPOST B	B			4	h
13	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST B	B				
14	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST B	B	29	m	6	i
14	PURSUIT	2	SL	0.0625	lb ai/a	4	fl oz/a	MPOST B	B			2	i
14	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST B	B				
15	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST B	B	32	g-m	3	j
15	SYNCHRONY XP	28.4	WG			0.375	oz/a	MPOST B	B			0	j
15	CLASSIC	25	WG	0.00504	lb ai/a			MPOST B	B				
15	HARMONY SG	50	SG	0.00162	lb ai/a			MPOST B	B				
15	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST B	B				
16	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST C	C	35	b-g	0	k
16	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST C	C			0	j
17	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	LPOST C	C	36	b-g	0	k
17	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST C	C			0	j
18	ROUNDUP POWERMAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	LPOST C	C	37	a-d	0	k
18	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST C	C			0	j

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Location: De Soto, IL

Pest Code	GLXMA	GLXMA	GLXMA	GLXMA
Crop Code	09-24-10			
Rating Date	Yield	Injury	Injury	Injury
Rating Data Type	bu/A	Percent	Percent	Percent
Rating Unit				
Rating Timing	7 DAT	14 DAT	28 DAT	
Trt-Eval Interval				

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
19	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C	36	b-g	28	b
19	COBRA	2	EC	0.094	lb ai/a	6	fl oz/a	LPOST	C			14	b
19	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C				0 a
20	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C	37	a-e	34	a
20	COBRA	2	EC	0.188	lb ai/a	12	fl oz/a	LPOST	C			14	b
20	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C				0 a
21	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C	36	b-g	19	d
21	FLEXSTAR	1.88	EC	0.147	lb ai/a	10	fl oz/a	LPOST	C			10	d
21	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C				0 a
22	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C	37	a-d	23	c
22	FLEXSTAR	1.88	EC	0.294	lb ai/a	20	fl oz/a	LPOST	C			12	c
22	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C				0 a
23	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C	33	f-l	2	jk
23	FIRSTRATE	84	WG	0.0158	lb ai/a	0.3	oz/a	LPOST	C			0	j
23	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C				0 a
24	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C	34	c-i	14	fg
24	RESOURCE	0.86	EC	0.027	lb ai/a	4	fl oz/a	LPOST	C			7	fg
24	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C				0 a
25	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C	34	c-i	19	d
25	RESOURCE	0.86	EC	0.054	lb ai/a	8	fl oz/a	LPOST	C			9	de
25	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C				0 a
26	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C	36	b-f	13	g
26	CADET	0.91	EC	0.00427	lb ai/a	0.6	fl oz/a	LPOST	C			7	fg
26	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C				0 a
27	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C	33	e-k	6	i
27	PURSUIT	2	SL	0.0625	lb ai/a	4	fl oz/a	LPOST	C			2	i
27	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C				0 a
28	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C	41	a	1	jk
28	SYNCHRONY XP	28.4	WG			0.375	oz/a	LPOST	C			0	j
28	CLASSIC	25	WG	0.00504	lb ai/a			LPOST	C				0 a
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	38	abc	0	k
29	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	4"W	D			0	j
29	N-PAK AMS	100	SL	5	% v/v	5	% v/v	4"W	D				0 a
30	NONTREATED									29	lm	0	k
												0	j
													0 a
LSD (P=.05)										3.9		2.6	1.6
													0.0
Replicate F										2.102		3.360	1.738
Replicate Prob(F)										0.1315		0.0416	0.1848
Treatment F										4.534		142.267	89.323
Treatment Prob(F)										0.0001		0.0001	0.0001

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

ISA POST Tank-Mix Study.

Trial ID: 10-DSO-ISA-TM

Location: De Soto, IL

Pest Code	AMATA-HR	AMATA-HR	AMATA-HR	AMATA-HR
Crop Code				
Rating Date				
Rating Data Type				
Rating Unit	Control	Control	Control	Control
Rating Timing	Percent	Percent	Percent	Percent
Trt-Eval Interval	19 DA-A	14 DAT	28 DAT	56 DAT
	0 DA-B			

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code							
1	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	B		15	jk	3	gh	0	f
1	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	B							
2	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	MPOST	B		35	hi	17	fgh	0	f
2	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	B							
3	ROUNDUP POWERMAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	MPOST	B		33	i	20	efg	7	ef
3	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	B							
4	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	B		55	fg	30	c-f	7	ef
4	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	B							
4	ROUNDUP POWERMAX	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 POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	MPOST	B		62	efg	45	c	15	ef
5	N-PAK AMS	100	SL	5	% v/v	5	% v/v	MPOST	B							
5	ROUNDUP POWERMAX	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 POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	B		97	a	85	ab	73	b
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 POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	B		98	a	94	a	85	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 POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	B		89	abc	86	a	82	ab
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 POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	B		95	a	95	a	91	a
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 POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	B		5	kl	0	h	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 POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	B		57	efg	20	efg	12	ef
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 POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	B		57	efg	23	def	0	f
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 POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	B		53	fg	30	c-f	8	ef
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 POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	B		13	jkl	0	h	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 POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	MPOST	B		27	ij	13	fgh	3	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 POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C		48	gh	37	cde	3	f
16	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C							
17	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	LPOST	C		55	fg	37	cde	10	ef
17	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C							
18	ROUNDUP POWERMAX	4.5	SL	1.55	lb ae/a	44	fl oz/a	LPOST	C		80	bcd	68	b	45	c
18	N-PAK AMS	100	SL	5	% v/v	5	% v/v	LPOST	C							

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Location: De Soto, IL

Pest Code		AMATA-HR	AMATA-HR	AMATA-HR	AMATA-HR
Crop Code					
Rating Date					
Rating Data Type		Control	Control	Control	Control
Rating Unit		Percent	Percent	Percent	Percent
Rating Timing		19 DA-A	14 DAT	28 DAT	56 DAT
Trt-Eval Interval		0 DA-B			

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
19	ROUNDUP POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C		93 ab	90 a	83 ab
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 POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C		97 a	96 a	92 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 POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C		94 a	90 a	84 ab
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 POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C		97 a	97 a	94 a
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 POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C		70 de	45 c	33 cd
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 POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C		67 def	40 cd	35 cd
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 POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C		78 cd	42 c	22 de
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 POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C		57 efg	28 c-f	20 de
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 POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C		62 efg	30 c-f	7 ef
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 POWERMAX	4.5	SL	0.77	lb ae/a	22	fl oz/a	LPOST	C		87 abc	85 ab	79 ab
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	96 a	97 a	97 a	95 a
29	ROUNDUP POWERMAX	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 l	0 h	0 f
LSD (P=.05)										2.5	14.0	17.5	15.6
Replicate F										1.000	4.566	13.301	7.607
Replicate Prob(F)										0.5000	0.0144	0.0001	0.0012
Treatment F										27648.003	36.721	31.256	46.478
Treatment Prob(F)										0.0001	0.0001	0.0001	0.0001

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

Trial Comments

1. Protocol: ISA.
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.

ISA POST Tank-Mix Study.

Trial ID: 10-DSO-ISA-TM

Location: De Soto, IL

4. Take weed counts in nontreated at the "B" application timing (No./0.5 m²).
5. Yield.
6. AMATA-HR = Herbicide-resistant waterhemp (glyphosate).
7. AMATA-HR plants per 0.5 square meter in the nontreated plots on 5-27-10 at the MPOST (B) application were 154, 122, and 212 in plots 130, 217, and 304, respectively.
8. DAT = Days after various POST applications. For treatments 4 and 5 ratings are after the last application.
Ratings at 19 DA-A were on 5-27-10.
Ratings at 7 days after the MPOST, LPOST and 4"W applications were on 6-3-10, 6-11-10, and 6-17-10, respectively.
Ratings at 14 days after the MPOST, LPOST and 4"W applications were on 6-10-10, 6-18-10, and 6-24-10, respectively.
Ratings at 28 days after the MPOST, LPOST and 4"W applications were on 6-24-10, 7-2-10, and 7-8-10, respectively.
Ratings at 56 days after the MPOST, LPOST and 4"W applications were on 7-22-10, 7-30-10, and 8-5-10, respectively.
9. Harvested 9-24-10, (2) 30 inch rows by 26.5 ft.