

Residual Tank-Mix Partners in Soybean.

Trial ID: 11-DSO-ISA-ResTM 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: 5-20-11

Objectives: Evaluate glyphosate-resistant waterhemp control with residual herbicide tank-mixtures.

Crop 1: GLXMA Soybean Variety: AG 4005 Description: RR
 Planting Method: SEEDED Planting Date: 5-20-11
 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 marestail

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. GLXMA 2010

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

% Sand: 15.4 % OM: 2.4 Texture: SILT LOAM
 % Silt: 64.7 pH: 6.1 Soil Name: OKAW
 % Clay: 19.9 CEC: 10.5 Fert. Level: P1 53 LB/A, K 352 LB/A

Application Description

A

Application Date: 5-20-11
 Time of Day: 18:45
 Application Method: Spray
 Application Timing: 0-7DBP
 Application Placement: BROSOI
 Applied By: JRK+LAH
 Air Temperature, Unit: 80 F
 % Relative Humidity: 55
 Wind Velocity, Unit: 3 MPH
 Wind Direction: S
 Dew Presence (Y/N): N
 Soil Temperature, Unit: 74 F
 Soil Moisture: NORMAL
 % Cloud Cover: 100

20-5-11
 Crop stage at application: NA

Pest Stage At Each Application

Application Date: 5-20-11
 Weed Code: AMATA
 Stage Majority (leaves): NA

Application Equipment

Appl. Equipment: CO2 sprayer
 Operating Pressure: 30 PSI
 Nozzle Type: Flat fan
 Nozzle Size: XR 8002
 Boom Length, Unit: 6.67 FT
 Spray Volume, Unit: 15 GPA

Southern Illinois University

Residual Tank-Mix Partners in Soybean.

Trial ID: 11-DSO-ISA-ResTM Location: De Soto, IL

Pest Code	Crop Code	GLXMA							Growth Stage	Appl Code
		6-10-11	6-10-11	7-1-11	7-22-11	6-10-11	7-1-11	7-22-11		
Rating Date	Rating Data Type	1.0m Row	Injury	Injury	Injury	Stunt	Stunt	Stunt		
Rating Unit	Rating Timing	3 WAP	3 WAP	6 WAP	9 WAP	3 WAP	6 WAP	9 WAP		
Trt-Eval Interval										
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit			
1	SPARTAN SC	4 SC		0.125 lb ai/a	4 fl oz/a			0-7DBP A	24 def 4 b-e 0 a 0 a 4 b-e 0 a 0 a	
2	SPARTAN SC	4 SC		0.25 lb ai/a	8 fl oz/a			0-7DBP A	30 abc 7 b 0 a 0 a 7 b 0 a 0 a	
3	VALOR SX	51 WG		0.064 lb ai/a	2 oz/a			0-7DBP A	31 ab 2 def 0 a 0 a 2 def 0 a 0 a	
4	VALOR SX	51 WG		0.08 lb ai/a	2.5 oz/a			0-7DBP A	28 a-e 4 b-e 0 a 0 a 4 b-e 0 a 0 a	
5	SPARTAN SC	4 SC		0.125 lb ai/a	4 fl oz/a			0-7DBP A	28 a-e 5 bcd 0 a 0 a 5 bcd 0 a 0 a	
5	PROWL H2O	3.8 CS		1.19 lb ai/a	2.5 pt/a			0-7DBP A		
6	SPARTAN SC	4 SC		0.125 lb ai/a	4 fl oz/a			0-7DBP A	30 abc 3 c-f 0 a 0 a 3 c-f 0 a 0 a	
6	BOUNDARY	6.5 EC		1.7 lb ai/a	2.1 pt/a			0-7DBP A		
7	SPARTAN SC	4 SC		0.125 lb ai/a	4 fl oz/a			0-7DBP A	29 a-d 2 def 0 a 0 a 2 def 0 a 0 a	
7	PREFIX	5.29 EC		1.65 lb ai/a	2.5 pt/a			0-7DBP A		
8	SPARTAN SC	4 SC		0.125 lb ai/a	4 fl oz/a			0-7DBP A	28 a-e 3 c-f 0 a 0 a 3 c-f 0 a 0 a	
8	SHARPEN	2.85 SC		0.0223 lb ai/a	1.0 fl oz/a			0-7DBP A		
9	SPARTAN SC	4 SC		0.125 lb ai/a	4 fl oz/a			0-7DBP A	27 a-e 5 bcd 0 a 0 a 5 bcd 0 a 0 a	
9	KIH-485	85 WG		0.106 lb ai/a	2 oz/a			0-7DBP A		
10	SPARTAN SC	4 SC		0.25 lb ai/a	8 fl oz/a			0-7DBP A	28 a-e 2 c-f 0 a 0 a 2 c-f 0 a 0 a	
10	PROWL H2O	3.8 CS		1.19 lb ai/a	2.5 pt/a			0-7DBP A		
11	SPARTAN SC	4 SC		0.25 lb ai/a	8 fl oz/a			0-7DBP A	28 a-e 1 ef 0 a 0 a 1 ef 0 a 0 a	
11	BOUNDARY	6.5 EC		1.7 lb ai/a	2.1 pt/a			0-7DBP A		
12	SPARTAN SC	4 SC		0.25 lb ai/a	8 fl oz/a			0-7DBP A	28 a-e 4 b-e 0 a 0 a 4 b-e 0 a 0 a	
12	PREFIX	5.29 EC		1.65 lb ai/a	2.5 pt/a			0-7DBP A		
13	SPARTAN SC	4 SC		0.25 lb ai/a	8 fl oz/a			0-7DBP A	26 b-f 12 a 0 a 0 a 12 a 0 a 0 a	
13	SHARPEN	2.85 SC		0.0223 lb ai/a	1 fl oz/a			0-7DBP A		
14	SPARTAN SC	4 SC		0.25 lb ai/a	8 fl oz/a			0-7DBP A	27 a-e 5 bcd 0 a 0 a 5 bcd 0 a 0 a	
14	KIH-485	85 WG		0.106 lb ai/a	2 oz/a			0-7DBP A		
15	VALOR SX	51 WG		0.064 lb ai/a	2 oz/a			0-7DBP A	26 c-f 4 b-e 0 a 0 a 4 b-e 0 a 0 a	
15	PROWL H2O	3.8 CS		1.19 lb ai/a	2.5 pt/a			0-7DBP A		
16	VALOR SX	51 WG		0.064 lb ai/a	2 oz/a			0-7DBP A	32 a 2 c-f 0 a 0 a 2 c-f 0 a 0 a	
16	BOUNDARY	6.5 EC		1.7 lb ai/a	2.1 pt/a			0-7DBP A		
17	VALOR SX	51 WG		0.064 lb ai/a	2 oz/a			0-7DBP A	28 a-e 5 bc 0 a 0 a 5 bc 0 a 0 a	
17	PREFIX	5.29 EC		1.65 lb ai/a	2.5 pt/a			0-7DBP A		
18	VALOR SX	51 WG		0.064 lb ai/a	2 oz/a			0-7DBP A	29 a-d 7 b 0 a 0 a 7 b 0 a 0 a	
18	SHARPEN	2.85 SC		0.0223 lb ai/a	1.0 fl oz/a			0-7DBP A		
19	VALOR SX	51 WG		0.064 lb ai/a	2 oz/a			0-7DBP A	28 a-e 5 bcd 0 a 0 a 5 bcd 0 a 0 a	
19	KIH-485	85 WG		0.106 lb ai/a	2 oz/a			0-7DBP A		
20	VALOR SX	51 WG		0.08 lb ai/a	2.5 oz/a			0-7DBP A	29 a-d 3 c-f 0 a 0 a 3 c-f 0 a 0 a	
20	PROWL H2O	3.8 CS		1.19 lb ai/a	2.5 pt/a			0-7DBP A		
21	VALOR SX	51 WG		0.08 lb ai/a	2.5 oz/a			0-7DBP A	29 a-d 4 b-e 0 a 0 a 4 b-e 0 a 0 a	
21	BOUNDARY	6.5 EC		1.7 lb ai/a	2.1 pt/a			0-7DBP A		
22	VALOR SX	51 WG		0.08 lb ai/a	2.5 oz/a			0-7DBP A	24 ef 7 b 0 a 0 a 7 b 0 a 0 a	
22	PREFIX	5.29 EC		1.65 lb ai/a	2.5 pt/a			0-7DBP A		
23	VALOR SX	51 WG		0.08 lb ai/a	2.5 oz/a			0-7DBP A	26 c-f 5 bcd 0 a 0 a 5 bcd 0 a 0 a	
23	SHARPEN	2.85 SC		0.0223 lb ai/a	1 fl oz/a			0-7DBP A		
24	VALOR SX	51 WG		0.08 lb ai/a	2.5 oz/a			0-7DBP A	22 f 0 f 0 a 0 a 0 f 0 a 0 a	
24	KIH-485	85 WG		0.106 lb ai/a	2 oz/a			0-7DBP A		
25	NONTREATED								30 abc 0 f 0 a 0 a 0 f 0 a 0 a	
LSD (P=.05)									4.9 3.6 0.0 0.0 3.6 0.0 0.0	

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

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code
Replicate F		2.878		1.963		0.000		0.000	1.963
Replicate Prob(F)		0.0660		0.1516		1.0000		1.0000	0.1516
Treatment F		1.783		3.987		0.000		0.000	3.987
Treatment Prob(F)		0.0440		0.0001		1.0000		1.0000	0.0001

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

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Pest Code				GLXMA		GLXMA		GLXMA		GLXMA		GLXMA		GLXMA	
Crop Code				6-10-11		7-1-11		7-22-11		6-10-11		7-1-11		7-22-11	
Rating Date				Chlorosis		Necrosis		Chlorosis		Necrosis		Chlorosis		Necrosis	
Rating Data Type				Percent		Percent		Percent		Percent		Percent		Percent	
Rating Unit				3 WAP		6 WAP		9 WAP		3 WAP		6 WAP		9 WAP	
Rating Timing															
Trt-Eval Interval															
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
1	SPARTAN SC	4	SC	0.125	lb ai/a	4	fl oz/a	0-7DBP	A	0	a	0	a	0	a
2	SPARTAN SC	4	SC	0.25	lb ai/a	8	fl oz/a	0-7DBP	A	0	a	0	a	0	a
3	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	0-7DBP	A	0	a	0	a	0	a
4	VALOR SX	51	WG	0.08	lb ai/a	2.5	oz/a	0-7DBP	A	0	a	0	a	0	a
5	SPARTAN SC	4	SC	0.125	lb ai/a	4	fl oz/a	0-7DBP	A	0	a	0	a	0	a
5	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	0-7DBP	A						
6	SPARTAN SC	4	SC	0.125	lb ai/a	4	fl oz/a	0-7DBP	A	0	a	0	a	0	a
6	BOUNDARY	6.5	EC	1.7	lb ai/a	2.1	pt/a	0-7DBP	A						
7	SPARTAN SC	4	SC	0.125	lb ai/a	4	fl oz/a	0-7DBP	A	0	a	0	a	0	a
7	PREFIX	5.29	EC	1.65	lb ai/a	2.5	pt/a	0-7DBP	A						
8	SPARTAN SC	4	SC	0.125	lb ai/a	4	fl oz/a	0-7DBP	A	0	a	0	a	0	a
8	SHARPEN	2.85	SC	0.0223	lb ai/a	1.0	fl oz/a	0-7DBP	A						
9	SPARTAN SC	4	SC	0.125	lb ai/a	4	fl oz/a	0-7DBP	A	0	a	0	a	0	a
9	KIH-485	85	WG	0.106	lb ai/a	2	oz/a	0-7DBP	A						
10	SPARTAN SC	4	SC	0.25	lb ai/a	8	fl oz/a	0-7DBP	A	0	a	0	a	0	a
10	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	0-7DBP	A						
11	SPARTAN SC	4	SC	0.25	lb ai/a	8	fl oz/a	0-7DBP	A	0	a	0	a	0	a
11	BOUNDARY	6.5	EC	1.7	lb ai/a	2.1	pt/a	0-7DBP	A						
12	SPARTAN SC	4	SC	0.25	lb ai/a	8	fl oz/a	0-7DBP	A	0	a	0	a	0	a
12	PREFIX	5.29	EC	1.65	lb ai/a	2.5	pt/a	0-7DBP	A						
13	SPARTAN SC	4	SC	0.25	lb ai/a	8	fl oz/a	0-7DBP	A	0	a	0	a	0	a
13	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	0-7DBP	A						
14	SPARTAN SC	4	SC	0.25	lb ai/a	8	fl oz/a	0-7DBP	A	0	a	0	a	0	a
14	KIH-485	85	WG	0.106	lb ai/a	2	oz/a	0-7DBP	A						
15	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	0-7DBP	A	0	a	0	a	0	a
15	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	0-7DBP	A						
16	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	0-7DBP	A	0	a	0	a	0	a
16	BOUNDARY	6.5	EC	1.7	lb ai/a	2.1	pt/a	0-7DBP	A						
17	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	0-7DBP	A	0	a	0	a	0	a
17	PREFIX	5.29	EC	1.65	lb ai/a	2.5	pt/a	0-7DBP	A						
18	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	0-7DBP	A	0	a	0	a	0	a
18	SHARPEN	2.85	SC	0.0223	lb ai/a	1.0	fl oz/a	0-7DBP	A						
19	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	0-7DBP	A	0	a	0	a	0	a
19	KIH-485	85	WG	0.106	lb ai/a	2	oz/a	0-7DBP	A						
20	VALOR SX	51	WG	0.08	lb ai/a	2.5	oz/a	0-7DBP	A	0	a	0	a	0	a
20	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	0-7DBP	A						
21	VALOR SX	51	WG	0.08	lb ai/a	2.5	oz/a	0-7DBP	A	0	a	0	a	0	a
21	BOUNDARY	6.5	EC	1.7	lb ai/a	2.1	pt/a	0-7DBP	A						
22	VALOR SX	51	WG	0.08	lb ai/a	2.5	oz/a	0-7DBP	A	0	a	0	a	0	a
22	PREFIX	5.29	EC	1.65	lb ai/a	2.5	pt/a	0-7DBP	A						
23	VALOR SX	51	WG	0.08	lb ai/a	2.5	oz/a	0-7DBP	A	0	a	0	a	0	a
23	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	0-7DBP	A						
24	VALOR SX	51	WG	0.08	lb ai/a	2.5	oz/a	0-7DBP	A	0	a	0	a	0	a
24	KIH-485	85	WG	0.106	lb ai/a	2	oz/a	0-7DBP	A						
25	NONTREATED									0	a	0	a	0	a
LSD (P=.05)										0.0	0.0	0.0	0.0	0.0	0.0

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Trial ID: 11-DSO-ISA-ResTM Location: De Soto, IL

Pest Code						
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Rating Date	6-10-11	7-1-11	7-22-11	6-10-11	7-1-11	7-22-11
Rating Data Type	Chlorosis	Necrosis	Chlorosis	Necrosis	Chlorosis	Necrosis
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent
Rating Timing	3 WAP	6 WAP	9 WAP	3 WAP	6 WAP	9 WAP
Trt-Eval Interval						

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code
Replicate F		0.000		0.000		0.000		0.000	0.000
Replicate Prob(F)		1.0000		1.0000		1.0000		1.0000	1.0000
Treatment F		0.000		0.000		0.000		0.000	0.000
Treatment Prob(F)		1.0000		1.0000		1.0000		1.0000	1.0000

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

Residual Tank-Mix Partners in Soybean.

Trial ID: 11-DSO-ISA-ResTM

Location: De Soto, IL

Pest Code	Crop Code	Rating Date	Rating Data Type	Rating Unit	Rating Timing	Trt-Eval Interval	AMATA-HR								
							6-10-11 Control Percent 3 WAP	7-1-11 Control Percent 6 WAP	7-22-11 Control Percent 9 WAP						
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
1	SPARTAN SC	4	SC	0.125	lb ai/a	4	fl oz/a	0-7DBP	A	93	f	42	ijk	0	h
2	SPARTAN SC	4	SC	0.25	lb ai/a	8	fl oz/a	0-7DBP	A	97	a-d	82	a-d	30	efg
3	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	0-7DBP	A	92	f	13	l	0	h
4	VALOR SX	51	WG	0.08	lb ai/a	2.5	oz/a	0-7DBP	A	97	bcd	32	k	0	h
5	SPARTAN SC	4	SC	0.125	lb ai/a	4	fl oz/a	0-7DBP	A	94	ef	75	b-e	3	h
5	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	0-7DBP	A						
6	SPARTAN SC	4	SC	0.125	lb ai/a	4	fl oz/a	0-7DBP	A	97	a-d	68	def	12	fgh
6	BOUNDARY	6.5	EC	1.7	lb ai/a	2.1	pt/a	0-7DBP	A						
7	SPARTAN SC	4	SC	0.125	lb ai/a	4	fl oz/a	0-7DBP	A	98	ab	91	ab	70	abc
7	PREFIX	5.29	EC	1.65	lb ai/a	2.5	pt/a	0-7DBP	A						
8	SPARTAN SC	4	SC	0.125	lb ai/a	4	fl oz/a	0-7DBP	A	95	de	57	f-i	13	fgh
8	SHARPEN	2.85	SC	0.0223	lb ai/a	1.0	fl oz/a	0-7DBP	A						
9	SPARTAN SC	4	SC	0.125	lb ai/a	4	fl oz/a	0-7DBP	A	98	abc	72	c-f	32	ef
9	KIH-485	85	WG	0.106	lb ai/a	2	oz/a	0-7DBP	A						
10	SPARTAN SC	4	SC	0.25	lb ai/a	8	fl oz/a	0-7DBP	A	99	a	92	ab	67	bc
10	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	0-7DBP	A						
11	SPARTAN SC	4	SC	0.25	lb ai/a	8	fl oz/a	0-7DBP	A	99	a	94	a	77	abc
11	BOUNDARY	6.5	EC	1.7	lb ai/a	2.1	pt/a	0-7DBP	A						
12	SPARTAN SC	4	SC	0.25	lb ai/a	8	fl oz/a	0-7DBP	A	99	ab	93	a	89	a
12	PREFIX	5.29	EC	1.65	lb ai/a	2.5	pt/a	0-7DBP	A						
13	SPARTAN SC	4	SC	0.25	lb ai/a	8	fl oz/a	0-7DBP	A	99	ab	85	abc	43	de
13	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	0-7DBP	A						
14	SPARTAN SC	4	SC	0.25	lb ai/a	8	fl oz/a	0-7DBP	A	99	a	87	abc	57	cd
14	KIH-485	85	WG	0.106	lb ai/a	2	oz/a	0-7DBP	A						
15	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	0-7DBP	A	96	cde	38	jk	7	h
15	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	0-7DBP	A						
16	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	0-7DBP	A	98	ab	60	e-h	10	fgh
16	BOUNDARY	6.5	EC	1.7	lb ai/a	2.1	pt/a	0-7DBP	A						
17	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	0-7DBP	A	99	ab	91	ab	73	abc
17	PREFIX	5.29	EC	1.65	lb ai/a	2.5	pt/a	0-7DBP	A						
18	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	0-7DBP	A	94	ef	47	g-k	0	h
18	SHARPEN	2.85	SC	0.0223	lb ai/a	1.0	fl oz/a	0-7DBP	A						
19	VALOR SX	51	WG	0.064	lb ai/a	2	oz/a	0-7DBP	A	98	ab	50	g-j	8	gh
19	KIH-485	85	WG	0.106	lb ai/a	2	oz/a	0-7DBP	A						
20	VALOR SX	51	WG	0.08	lb ai/a	2.5	oz/a	0-7DBP	A	97	bcd	57	f-i	10	fgh
20	PROWL H2O	3.8	CS	1.19	lb ai/a	2.5	pt/a	0-7DBP	A						
21	VALOR SX	51	WG	0.08	lb ai/a	2.5	oz/a	0-7DBP	A	98	ab	72	c-f	8	gh
21	BOUNDARY	6.5	EC	1.7	lb ai/a	2.1	pt/a	0-7DBP	A						
22	VALOR SX	51	WG	0.08	lb ai/a	2.5	oz/a	0-7DBP	A	99	a	93	a	87	ab
22	PREFIX	5.29	EC	1.65	lb ai/a	2.5	pt/a	0-7DBP	A						
23	VALOR SX	51	WG	0.08	lb ai/a	2.5	oz/a	0-7DBP	A	98	ab	63	efg	13	fgh
23	SHARPEN	2.85	SC	0.0223	lb ai/a	1	fl oz/a	0-7DBP	A						
24	VALOR SX	51	WG	0.08	lb ai/a	2.5	oz/a	0-7DBP	A	98	ab	43	h-k	5	h
24	KIH-485	85	WG	0.106	lb ai/a	2	oz/a	0-7DBP	A						
25	NONTREATED									0	g	0	l	0	h
LSD (P=.05)										2.1		16.8		21.7	

Residual Tank-Mix Partners in Soybean.

Trial ID: 11-DSO-ISA-ResTM Location: De Soto, IL

Pest Code	AMATA-HR								
Crop Code	AMATA-HR	AMATA-HR	AMATA-HR						
Rating Date	6-10-11	7-1-11	7-22-11						
Rating Data Type	Control	Control	Control						
Rating Unit	Percent	Percent	Percent						
Rating Timing	3 WAP	6 WAP	9 WAP						
Trt-Eval Interval									
Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code
Replicate F		2.332				4.183			4.078
Replicate Prob(F)		0.1080				0.0211			0.0231
Treatment F		717.756				19.604			17.077
Treatment Prob(F)		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: CI/WC at 3, 6, and 9 WAP. Rate components of CI separately: stunting, necrosis, overall injury. Determine soybean population (count plants in 1 meter of row at 2 locations in each plot) at 3 WAP. Photos at all evaluation timings. This study is NOT yielded.
3. Plot area should be no-till and have a blanket burndown of Roundup PowerMax (22 fl oz/A) + 2,4-D (1 pt/A) at 7 DBP on the entire site.
Blanket trial area with glyphosate after the 9 WAP evaluation if needed.
4. Blanket application of Roundup WeatherMax (22 fl oz/A) + 2,4-D LV4 (1 pt/A) + NPAK AMS (2.5 %v/v) was applied to all plots on 4-2-11.
Blanket burndown application of Gramoxone Inteon (3.5 pt/A) plus COC (1% v/v) was applied to all plots on 5-20-11.
5. AMATA-HR = Herbicide-resistant waterhemp (glyphosate).
6. GLXMA Plants 1 m row = Soybean stand counts per 1.0 meter of row (average of 2 subsamples per plot).
WAP = Weeks after planting.
7. Rainfall for the week prior to planting and the 0-7DBP application was 1.2 inch.
Rainfall (weekly totals) for the the next six weeks were 2.18, 0, 0, 0.75, 1.81, and 4.38 inch.