

Southern Illinois University

Efficacy of CHA-044 Postemergence in Soybean.

Trial ID: 12-2B-MMW50  
 Location: Belleville Res. Center  
 Investigator: Bryan Young

General Trial Information	
<b>Study Director:</b> Bryan Young	<b>Investigator:</b> Bryan Young <b>Title:</b> Professor
<b>Trial Status:</b> F - one-year/final	
<b>Initiation Date:</b> 5-22-12	
Trial Location	
<b>City:</b> Belleville	
<b>State/Prov.:</b> IL	
<b>Postal Code:</b> 62221	
<b>Country:</b> USA	

**Objectives:**  
 To determine herbicidal efficacy and selectvity of CHA-044 when applied postemergence to soybean in 2012.

Personnel	
<b>Study Director:</b> Bryan Young	<b>Title:</b> Professor
<b>Investigator:</b> Bryan Young	
<b>Affiliation:</b> Southern Illinois University	
<b>Address:</b> 1205 Lincoln Drive - AG 176 - MC 4415	
<b>Location:</b> Carbondale IL	
<b>Postal Code:</b> 62901	<b>E-mail:</b> bgyoung@siu.edu
<b>Phone No.:</b> 618-453-7679	<b>Mobile No.:</b> 618-713-6471

Crop Description	
<b>Crop 1:</b> GLXMA Glycine max Soybean	<b>Description:</b> LL
<b>Variety:</b> HS 43L12	<b>Planting Date:</b> 5-22-12
<b>BBCH Scale:</b> BSOY	<b>Rate, Unit:</b> 75 LB/A
<b>Planting Method:</b> SEEDED Seeded	
<b>Depth, Unit:</b> 1 IN	
<b>Row Spacing, Unit:</b> 30 IN	

Pest Description	
<b>Pest 1 Type:</b> W <b>Code:</b> AMBTR - Ambrosia trifida L.	<b>Common Name:</b> ragweed, giant
<b>Pest 2 Type:</b> W <b>Code:</b> AMATA - Amaranthus rudis Sauer	<b>Common Name:</b> waterhemp, common
<b>Pest 3 Type:</b> W <b>Code:</b> ABUTH - Abutilon theophrasti Medik.	<b>Common Name:</b> velvetleaf
<b>Pest 4 Type:</b> W <b>Code:</b> IPOHE - Ipomoea hederacea (L.) Jacq.	<b>Common Name:</b> morningglory, ivyleaf
	<b>Description:</b> Mostly IPOHE, some PHBPU (tall mg.)

Site and Design	
<b>Plot Width, Unit:</b> 10 FT	<b>Site Type:</b> FIELD field
<b>Plot Length, Unit:</b> 28 FT	
<b>Plot Area, Unit:</b> 280 FT2	<b>Tillage Type:</b> REDTIL reduced-till
<b>Replications:</b> 4	<b>Study Design:</b> RACOB� Randomized Complete Block (RCB)

No.	Previous Crop	Year
1.	ZEAMD	2011

Maintenance	
No.	Maintenance Treatment Name
1.	N 0 LB/A, P205 50 LB/A, K20 150 LB/A

Soil Description	
<b>% OM:</b> 1.6	<b>Texture:</b> SIL SILT LOAM
<b>pH:</b> 6.8	<b>Soil Name:</b> PIERRON
<b>CEC:</b> 8	

Additional Measured Elements		
Element	Quantity	Unit
P1	77	LB/A
K	252	LB/A

Southern Illinois University

Efficacy of CHA-044 Postemergence in Soybean.

Trial ID: 12-2B-MMW50

Location: Belleville Res. Center

Investigator: Bryan Young

**Moisture and Weather Conditions**

**Overall Moisture Conditions:** BELNOR below normal  
**Closest Weather Station:** ICN - Belleville IL **Distance, Unit:** 0.5 MI

No.	Date	Amount	Unit	Type	Type Description	Interval	Unit	Min Temp	Max Temp	Temp Unit
1.	4-24-12					7	DAY	42.6	74.3	F
2.	4-29-12	3.06	IN	RAIN	rain					
3.	4-30-12	0.66	IN	RAIN	rain					
4.	5-1-12	0.13	IN	RAIN	rain					
5.	5-1-12					7	DAY	33.5	76	F
6.	5-4-12	0.25	IN	RAIN	rain					
7.	5-7-12	0.29	IN	RAIN	rain					
8.	5-8-12					7	DAY	47.5	87.8	F
9.	5-15-12					7	DAY	37.7	81.3	F
10.	5-21-12	0.18	IN	RAIN	rain					
11.	5-22-12					7	DAY	47.6	82.3	F
12.	5-29-12					7	DAY	48.1	90	F
13.	5-30-12	0.07	IN	RAIN	rain					
14.	5-31-12	0.21	IN	RAIN	rain					
15.	6-5-12					7	DAY	50.2	90.1	F
16.	6-11-12	0.75	IN	RAIN	rain					
17.	6-12-12					7	DAY	52.4	93.6	F
18.	6-17-12	0.36	IN	RAIN	rain					
19.	6-19-12					7	DAY	56.3	94	F
20.	6-26-12					7	DAY	51.8	105.4	F
21.	7-3-12					7	DAY	68.9	104.7	F
22.	7-8-12	0.28	IN	RAIN	rain					
23.	7-10-12					7	DAY	63.4	95	F
24.	7-17-12					7	DAY	61	102.2	F
25.	7-24-12					7	DAY	61	103	F
26.	7-29-12	0.15	IN	RAIN	rain					
27.	7-31-12					7	DAY	60.2	99.1	F
28.	8-5-12	0.18	IN	RAIN	rain					
29.	8-7-12					7	DAY	50.2	99.8	F
30.	8-13-12	0.88	IN	RAIN	rain					
31.	8-14-12					7	DAY	51	95.6	F
32.	8-17-12	1.19	IN	RAIN	rain					
33.	8-21-12					7	DAY	54.7	94.2	F
34.	8-26-12	0.04	IN	RAIN	rain					
35.	8-27-12	1.66	IN	RAIN	rain					
36.	8-31-12	0.11	IN	RAIN	rain					

**Application Description**

	A
Application Date:	6-8-12
Time of Day:	9:00
Application Method:	Spray
Application Timing:	2"W
Application Placement:	BROFOL
Applied By:	JRK
Air Temperature, Unit:	79 F
% Relative Humidity:	39
Wind Velocity, Unit:	0 MPH
Dew Presence (Y/N):	N no
Soil Temperature, Unit:	72 F
Soil Moisture:	BELNOR
% Cloud Cover:	0
Next Rain Occurred On:	6-11-12

Efficacy of CHA-044 Postemergence in Soybean.

Trial ID: 12-2B-MMW50

Location: Belleville Res. Center

Investigator: Bryan Young

## Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	GLXMA BSOY
Stage Scale Used:	DESC
Stage Majority, Percent:	V1
Stage Minimum, Percent:	VC
Stage Maximum, Percent:	V1
Height, Unit:	4 IN
Height Minimum, Maximum:	3 4

## Pest Stage At Each Application

	A
Pest 1 Code, Type, Scale:	AMBTR W DESC
Stage Majority, Percent:	4
Stage Minimum, Percent:	Coty
Stage Maximum, Percent:	6
Height, Unit:	2 IN
Height Minimum, Maximum:	1 4
Density, Unit:	0.3 FT2
Pest 2 Code, Type, Scale:	AMATA W DESC
Stage Majority, Percent:	4
Stage Minimum, Percent:	2
Stage Maximum, Percent:	6
Height, Unit:	2 IN
Height Minimum, Maximum:	0.5 3
Density, Unit:	0.01 FT2
Pest 3 Code, Type, Scale:	ABUTH W DESC
Stage Majority, Percent:	2
Stage Minimum, Percent:	Coty
Stage Maximum, Percent:	4
Height, Unit:	2 IN
Height Minimum, Maximum:	0.5 3
Density, Unit:	0.01 FT2
Pest 4 Code, Type, Scale:	IPOHE W DESC
Stage Majority, Percent:	NA

## Application Equipment

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

Southern Illinois University

Efficacy of CHA-044 Postemergence in Soybean.

Trial ID: 12-2B-MMW50

Location: Belleville Res. Center

Investigator: Bryan Young

Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	GLXMA 10-30-12 Moisture	GLXMA 10-30-12 Test wt.	GLXMA 10-30-12 Yield	GLXMA 6-22-12 Injury	GLXMA 7-6-12 Injury	GLXMA 7-20-12 Injury		
							Percent	lb/bu	bu/A	Percent	Percent	Percent		
										14 DA-A	28 DA-A	42 DA-A		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Rate	Growth Stage	Appl Code						
1	CHA-044	5.25	EC	1.31 lb ai/a	32 fl oz/a	2"W	A		12.0 a	57.3 a	54 a	5 cd	0 a	0 a
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	2"W	A							
	N-PAK AMS	100	SL	5 % v/v	5 % v/v	2"W	A							
2	CHA-044	5.25	EC	1.64 lb ai/a	40 fl oz/a	2"W	A		12.1 a	57.1 a	50 a	6 c	0 a	0 a
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	2"W	A							
	N-PAK AMS	100	SL	5 % v/v	5 % v/v	2"W	A							
3	RHYTHM	1.88	ME	0.375 lb ai/a	25.5 fl oz/a	2"W	A		12.0 a	57.2 a	55 a	8 ab	0 a	0 a
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	2"W	A							
	N-PAK AMS	100	SL	5 % v/v	5 % v/v	2"W	A							
4	DAWN	2	AS	0.375 lb ai/a	24 fl oz/a	2"W	A		11.8 a	57.4 a	57 a	3 d	0 a	0 a
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	2"W	A							
	N-PAK AMS	100	SL	5 % v/v	5 % v/v	2"W	A							
5	PREFIX	5.29	EC	1.32 lb ai/a	32 fl oz/a	2"W	A		11.9 a	57.3 a	54 a	6 bc	0 a	0 a
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	2"W	A							
	N-PAK AMS	100	SL	5 % v/v	5 % v/v	2"W	A							
6	PREFIX	5.29	EC	1.65 lb ai/a	40 fl oz/a	2"W	A		11.9 a	57.3 a	55 a	9 a	0 a	0 a
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	2"W	A							
	N-PAK AMS	100	SL	5 % v/v	5 % v/v	2"W	A							
7	NONTREATED								11.9 a	57.1 a	23 b	0 e	0 a	0 a
LSD (P=.05)							0.56	0.46	9.4	2.2	0.0	0.0		
Standard Deviation							0.38	0.31	6.3	1.5	0.0	0.0		
CV							3.14	0.54	12.71	28.92	0.0	0.0		
Replicate F							3.558	3.309	0.391	1.110	0.000	0.000		
Replicate Prob(F)							0.0351	0.0438	0.7611	0.3710	1.0000	1.0000		
Treatment F							0.275	0.361	14.041	16.288	0.000	0.000		
Treatment Prob(F)							0.9415	0.8940	0.0001	0.0001	1.0000	1.0000		

Means followed by same letter do not significantly differ (P=.05, LSD)  
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Southern Illinois University

Efficacy of CHA-044 Postemergence in Soybean.

Trial ID: 12-2B-MMW50

Location: Belleville Res. Center

Investigator: Bryan Young

Pest Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA								
Crop Code	6-22-12	7-6-12	7-20-12	6-22-12	7-6-12	7-20-12								
Rating Date	Chlorosis	Chlorosis	Chlorosis	Necrosis	Necrosis	Necrosis								
Rating Type	Percent	Percent	Percent	Percent	Percent	Percent								
Rating Unit	14 DA-A	28 DA-A	42 DA-A	14 DA-A	28 DA-A	42 DA-A								
Rating Timing														
Trt-Eval Interval														
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Rate	Growth Stage	Appl Code						
1	CHA-044	5.25	EC	1.31 lb ai/a	32 fl oz/a	2"W	A	0 a	0 a	0 a	3 b	0 a	0 a	
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	2"W	A							
	N-PAK AMS	100	SL	5 % v/v	5 % v/v	2"W	A							
2	CHA-044	5.25	EC	1.64 lb ai/a	40 fl oz/a	2"W	A	0 a	0 a	0 a	3 b	0 a	0 a	
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	2"W	A							
	N-PAK AMS	100	SL	5 % v/v	5 % v/v	2"W	A							
3	RHYTHM	1.88	ME	0.375 lb ai/a	25.5 fl oz/a	2"W	A	0 a	0 a	0 a	4 ab	0 a	0 a	
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	2"W	A							
	N-PAK AMS	100	SL	5 % v/v	5 % v/v	2"W	A							
4	DAWN	2	AS	0.375 lb ai/a	24 fl oz/a	2"W	A	0 a	0 a	0 a	3 b	0 a	0 a	
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	2"W	A							
	N-PAK AMS	100	SL	5 % v/v	5 % v/v	2"W	A							
5	PREFIX	5.29	EC	1.32 lb ai/a	32 fl oz/a	2"W	A	0 a	0 a	0 a	3 b	0 a	0 a	
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	2"W	A							
	N-PAK AMS	100	SL	5 % v/v	5 % v/v	2"W	A							
6	PREFIX	5.29	EC	1.65 lb ai/a	40 fl oz/a	2"W	A	0 a	0 a	0 a	4 a	0 a	0 a	
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	2"W	A							
	N-PAK AMS	100	SL	5 % v/v	5 % v/v	2"W	A							
7	NONTREATED							0 a	0 a	0 a	0 c	0 a	0 a	
LSD (P=.05)		0.0		0.0	0.0			0.0	0.0	0.0	0.8	0.0	0.0	
Standard Deviation		0.0		0.0	0.0			0.0	0.0	0.0	0.5	0.0	0.0	
CV		0.0		0.0	0.0			0.0	0.0	0.0	19.71	0.0	0.0	
Replicate F		0.000		0.000	0.000			0.000	0.000	0.000	1.737	0.000	0.000	
Replicate Prob(F)		1.0000		1.0000	1.0000			1.0000	1.0000	1.0000	0.1953	1.0000	1.0000	
Treatment F		0.000		0.000	0.000			0.000	0.000	0.000	21.947	0.000	0.000	
Treatment Prob(F)		1.0000		1.0000	1.0000			1.0000	1.0000	1.0000	0.0001	1.0000	1.0000	

Southern Illinois University

Efficacy of CHA-044 Postemergence in Soybean.

Trial ID: 12-2B-MMW50

Location: Belleville Res. Center

Investigator: Bryan Young

Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval							GLXMA 6-22-12 Stunt Percent	GLXMA 7-6-12 Stunt Percent	GLXMA 7-20-12 Stunt Percent	AMBTR 6-22-12 Control Percent	AMBTR 6-29-12 Control Percent	AMBTR 7-13-12 Control Percent	
							14 DA-A	28 DA-A	42 DA-A	14 DA-A	21 DA-A	35 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Unit	Growth Stage	Appl Code					
1	CHA-044	5.25	EC	1.31 lb ai/a	32 fl oz/a	2"W	A		0 b	0 a	0 a	98 a	
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	2"W	A					94 a	
	N-PAK AMS	100	SL	5 % v/v	5 % v/v	2"W	A					95 a	
2	CHA-044	5.25	EC	1.64 lb ai/a	40 fl oz/a	2"W	A		0 b	0 a	0 a	98 a	
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	2"W	A					95 a	
	N-PAK AMS	100	SL	5 % v/v	5 % v/v	2"W	A					96 a	
3	RHYTHM	1.88	ME	0.375 lb ai/a	25.5 fl oz/a	2"W	A		1 ab	0 a	0 a	99 a	
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	2"W	A					97 a	
	N-PAK AMS	100	SL	5 % v/v	5 % v/v	2"W	A					97 a	
4	DAWN	2	AS	0.375 lb ai/a	24 fl oz/a	2"W	A		0 b	0 a	0 a	98 a	
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	2"W	A					96 a	
	N-PAK AMS	100	SL	5 % v/v	5 % v/v	2"W	A					97 a	
5	PREFIX	5.29	EC	1.32 lb ai/a	32 fl oz/a	2"W	A		0 b	0 a	0 a	99 a	
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	2"W	A					96 a	
	N-PAK AMS	100	SL	5 % v/v	5 % v/v	2"W	A					97 a	
6	PREFIX	5.29	EC	1.65 lb ai/a	40 fl oz/a	2"W	A		3 a	0 a	0 a	99 a	
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	2"W	A					96 a	
	N-PAK AMS	100	SL	5 % v/v	5 % v/v	2"W	A					97 a	
7	NONTREATED							0 b	0 a	0 a	0 b	0 b	0 b
LSD (P=.05)							1.7	0.0	0.0	1.7	5.1	3.3	
Standard Deviation							1.1	0.0	0.0	1.1	3.4	2.3	
CV							201.17	0.0	0.0	1.33	4.18	2.73	
Replicate F							1.946	0.000	0.000	0.406	2.173	1.811	
Replicate Prob(F)							0.1584	1.0000	1.0000	0.7507	0.1266	0.1812	
Treatment F							3.450	0.000	0.000	4375.265	445.484	1045.962	
Treatment Prob(F)							0.0190	1.0000	1.0000	0.0001	0.0001	0.0001	

Southern Illinois University

Efficacy of CHA-044 Postemergence in Soybean.

Trial ID: 12-2B-MMW50

Location: Belleville Res. Center

Investigator: Bryan Young

Pest Code	AMATA	AMATA	AMATA	ABUTH	ABUTH	ABUTH								
Crop Code														
Rating Date	6-22-12	6-29-12	7-13-12	6-22-12	6-29-12	7-13-12								
Rating Type	Control	Control	Control	Control	Control	Control								
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent								
Rating Timing														
Trt-Eval Interval	14 DA-A	21 DA-A	35 DA-A	14 DA-A	21 DA-A	35 DA-A								
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Unit	Growth Stage	Appl Code						
1	CHA-044	5.25	EC	1.31 lb ai/a	32 fl oz/a	2"W	A		99 a	99 a	99 a	77 b	87 a	70 a
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	2"W	A							
	N-PAK AMS	100	SL	5 % v/v	5 % v/v	2"W	A							
2	CHA-044	5.25	EC	1.64 lb ai/a	40 fl oz/a	2"W	A		99 a	99 a	99 a	80 ab	86 a	69 a
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	2"W	A							
	N-PAK AMS	100	SL	5 % v/v	5 % v/v	2"W	A							
3	RHYTHM	1.88	ME	0.375 lb ai/a	25.5 fl oz/a	2"W	A		99 a	99 a	99 a	81 a	85 a	70 a
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	2"W	A							
	N-PAK AMS	100	SL	5 % v/v	5 % v/v	2"W	A							
4	DAWN	2	AS	0.375 lb ai/a	24 fl oz/a	2"W	A		99 a	99 a	99 a	76 b	84 a	70 a
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	2"W	A							
	N-PAK AMS	100	SL	5 % v/v	5 % v/v	2"W	A							
5	PREFIX	5.29	EC	1.32 lb ai/a	32 fl oz/a	2"W	A		99 a	99 a	99 a	80 ab	82 a	74 a
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	2"W	A							
	N-PAK AMS	100	SL	5 % v/v	5 % v/v	2"W	A							
6	PREFIX	5.29	EC	1.65 lb ai/a	40 fl oz/a	2"W	A		99 a	99 a	99 a	80 ab	83 a	71 a
	LIBERTY 280	2.34	EC	0.53 lb ai/a	29 fl oz/a	2"W	A							
	N-PAK AMS	100	SL	5 % v/v	5 % v/v	2"W	A							
7	NONTREATED								0 b	0 b	0 b	0 c	0 b	0 b
LSD (P=.05)	0.0	0.0	0.0	3.8	10.5	9.8								
Standard Deviation	0.0	0.0	0.0	2.5	7.1	6.6								
CV	0.0	0.0	0.0	3.7	9.81	10.93								
Replicate F	0.000	0.000	0.000	0.190	9.795	8.162								
Replicate Prob(F)	1.0000	1.0000	1.0000	0.9019	0.0005	0.0012								
Treatment F	0.000	0.000	0.000	569.891	81.026	65.286								
Treatment Prob(F)	1.0000	1.0000	1.0000	0.0001	0.0001	0.0001								

Southern Illinois University

Efficacy of CHA-044 Postemergence in Soybean.

Trial ID: 12-2B-MMW50

Location: Belleville Res. Center

Investigator: Bryan Young

Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval							IPOHE	IPOHE	IPOHE			
							6-22-12 Control Percent	6-29-12 Control Percent	7-13-12 Control Percent			
							14 DA-A	21 DA-A	35 DA-A			
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Unit	Other Rate	Other Unit	Growth Stage	Appl Code			
1	CHA-044	5.25	EC	1.31	lb ai/a	32	fl oz/a	2"W	A	70 c	71 b	65 ab
	LIBERTY 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	2"W	A			
	N-PAK AMS	100	SL	5 %	v/v	5 %	v/v	2"W	A			
2	CHA-044	5.25	EC	1.64	lb ai/a	40	fl oz/a	2"W	A	70 c	71 b	66 ab
	LIBERTY 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	2"W	A			
	N-PAK AMS	100	SL	5 %	v/v	5 %	v/v	2"W	A			
3	RHYTHM	1.88	ME	0.375	lb ai/a	25.5	fl oz/a	2"W	A	75 ab	73 ab	67 ab
	LIBERTY 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	2"W	A			
	N-PAK AMS	100	SL	5 %	v/v	5 %	v/v	2"W	A			
4	DAWN	2	AS	0.375	lb ai/a	24	fl oz/a	2"W	A	71 bc	76 a	71 a
	LIBERTY 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	2"W	A			
	N-PAK AMS	100	SL	5 %	v/v	5 %	v/v	2"W	A			
5	PREFIX	5.29	EC	1.32	lb ai/a	32	fl oz/a	2"W	A	73 abc	75 ab	63 b
	LIBERTY 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	2"W	A			
	N-PAK AMS	100	SL	5 %	v/v	5 %	v/v	2"W	A			
6	PREFIX	5.29	EC	1.65	lb ai/a	40	fl oz/a	2"W	A	76 a	76 a	69 ab
	LIBERTY 280	2.34	EC	0.53	lb ai/a	29	fl oz/a	2"W	A			
	N-PAK AMS	100	SL	5 %	v/v	5 %	v/v	2"W	A			
7	NONTREATED									0 d	0 c	0 c
LSD (P=.05)							4.2	4.0	6.5			
Standard Deviation							2.8	2.7	4.4			
CV							4.5	4.29	7.66			
Replicate F							0.911	3.081	0.205			
Replicate Prob(F)							0.4551	0.0537	0.8914			
Treatment F							386.165	425.919	133.945			
Treatment Prob(F)							0.0001	0.0001	0.0001			



Efficacy of CHA-044 Postemergence in Soybean.

Trial ID: 12-2B-MMW50

Location: Belleville Res. Center

Investigator: Bryan Young

Trial Comments

1. Protocol: Cheminova (HGLXMAFOMME1204).
2. Ratings: CI as overall/chlorosis/necrosis/stunting at 14, 28, and 42 DAT.  
WC at 14, 21, and 35 DAT.
3. Yield.
4. Rainfall following the PRE application was 0.75 inch 3 days later and 0.36 inch 9 days later.
5. Harvested 10-30-12, (2) 30 inch rows by 25 ft.