

Residual Efficacy and Selectivity of CHA-2745 when Applied Postemergence to Soybean.

Trial ID: 15-2A-M110 Location: Belleville Res. Center Trial Year: 2015  
Investigator: Ronald F. Krausz

**Trial Status:** F one-year/final  
**Initiation Date:** 6-12-15  
**Completion Date:** 10-21-15

**Trial Location**

**City:** Belleville **Country:** USA  
**State/Prov.:** Illinois IL  
**Postal Code:** 62221

**Objectives:**

To compare the activity of CHA-2745 when applied postemergence in combination with several herbicides to soybean, and compare performance when applied with Glyphos X-tra.

**Contacts**

**Study Director:** Ronald F. Krausz **Title:** Researcher/Farm Manager  
**Organization:** Belleville Research Center - Southern Illinois Univ Carbondale  
**Address:** 2036 Charles Lane **Phone No.:** 618-566-4761  
**City+State/Prov:** Belleville, IL **E-mail:** rkrausz@siu.edu  
**Postal Code:** 62221  
**Country:** USA

**Crop Description**

**Crop 1:** GLXMA Glycine max Soybean  
**Variety:** AG3832 **BBCH Scale:** BSOY  
**Description:** RR2Y  
**Planting Date:** 6-12-15  
**Planting Rate, Unit:** 140000 S/A **Planting Method:** SEEDED  
**Depth, Unit:** 1.5 IN  
**Row Spacing, Unit:** 30 IN

**Pest Description**

**Pest 1 Type:** W **Code:** PANDI *Panicum dichotomiflorum* Michx.  
**Common Name:** panicum, fall

**Pest 2 Type:** W **Code:** AMBTR *Ambrosia trifida* L.  
**Common Name:** ragweed, giant

**Pest 3 Type:** W **Code:** AMBEL *Ambrosia artemisiifolia* L.  
**Common Name:** ragweed, common

**Pest 4 Type:** W **Code:** AMATA *Amaranthus rudis* Sauer  
**Common Name:** waterhemp, common

**Pest 5 Type:** W **Code:** ABUTH *Abutilon theophrasti* Medik.  
**Common Name:** velvetleaf

**Pest 6 Type:** W **Code:** IPOHE *Ipomoea hederacea* (L.) Jacq.  
**Common Name:** morningglory, ivyleaf

**Site and Design**

**Treated Plot Width:** 7.5 FT **Total Plot Width:** 10 FT **Site Type:** FIELD  
**Treated Plot Length:** 28 FT **Total Plot Length:** 28 FT **Experimental Unit:** 1 PLOT  
**Tillage Type:** REDTIL reduced-till  
**Study Design:** RACOB� Randomized Complete Block (RCB)  
**Replications:** 4  
**Untreated Arrangement:** INCLUDED single control randomized in each block

No.	Previous Crop	Year
1.	ZEAMD	2014

**Maintenance**

No.	Maintenance Product Name
1.	N 0 LB/A, P2O5 50 LB/A, K2O 150 LB/A

**Soil Description**

**Description Name:** 02a\_2013  
**% OM:** 2.5 **Texture:** SIL silt loam  
**pH:** 6.7 **Soil Name:** Pierron  
**CEC:** 6

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**Additional Measured Elements**

Element	Quantity	Unit
P1	65	lb/A
K	262	lb/A

**Moisture and Weather Conditions**

**Overall Moisture Conditions:** ABONOR  
**Closest Weather Station:** ICN - Belleville IL

**Distance, Unit:** 0.5 MI

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No.	Date	Amount	Unit	Type	Type Description	Interval	Unit	Min Temp	Max Temp	Temp Unit
1.	4-29-15					7	DAY	36	84	F
2.	5-6-15					7	DAY	49	85	F
3.	5-8-15	4.09	IN	RAIN	rain	4	DAY			
4.	5-13-15					7	DAY	45	83	F
5.	5-14-15	0.33	IN	RAIN	rain	4	DAY			
6.	5-20-15					7	DAY	44	85	F
7.	5-20-15	0.16	IN	RAIN	rain	1	DAY			
8.	5-24-15	0.89	IN	RAIN	rain	1	DAY			
9.	5-26-15	0.59	IN	RAIN	rain	2	DAY			
10.	5-27-15					7	DAY	55	84	F
11.	5-29-15	2.15	IN	RAIN	rain	2	DAY			
12.	6-3-15					7	DAY	53	89	F
13.	6-5-15	0.17	IN	RAIN	rain	1	DAY			
14.	6-8-15	0.66	IN	RAIN	rain	1	DAY			
15.	6-10-15					7	DAY	64	91	F
16.	6-14-15	0.16	IN	RAIN	rain	1	DAY			
17.	6-15-15	0.11	IN	RAIN	rain	1	DAY			
18.	6-16-15	2.25	IN	RAIN	rain	1	DAY			
19.	6-17-15					7	DAY	69	91	F
20.	6-17-15	0.09	IN	RAIN	rain	1	DAY			
21.	6-18-15	0.14	IN	RAIN	rain	1	DAY			
22.	6-19-15	3.29	IN	RAIN	rain	1	DAY			
23.	6-20-15	0.2	IN	RAIN	rain	2	DAY			
24.	6-24-15					7	DAY	62	93	F
25.	6-25-15	1.66	IN	RAIN	rain	2	DAY			
26.	6-28-15	0.6	IN	RAIN	rain	2	DAY			
27.	7-1-15					7	DAY	63	88	F
28.	7-1-15	0.64	IN	RAIN	rain	2	DAY			
29.	7-7-15	1.33	IN	RAIN	rain	2	DAY			
30.	7-8-15					7	DAY	59	97	F
31.	7-10-15	0.26	IN	RAIN	rain	1	DAY			
32.	7-15-15					7	DAY	69	93	F
33.	7-19-15	0.35	IN	RAIN	rain	2	DAY			
34.	7-22-15					7	DAY	65	95	F
35.	7-26-15	1.21	IN	RAIN	rain	3	DAY			
36.	7-29-15					7	DAY	65	93	F
37.	8-5-15	2.25	IN	RAIN	rain	1	DAY			
38.	8-9-15	0.47	IN	RAIN	rain	1	DAY			
39.	8-12-15					7	DAY	63	89	F
40.	8-18-15	2.23	IN	RAIN	rain	2	DAY			
41.	8-19-15					7	DAY	52	82	F
42.	8-22-15	0.18	IN	RAIN	rain	1	DAY			
43.	8-26-15					7	DAY	54	91	F
44.	9-2-15					7	DAY	68	94	F
45.	9-8-15	1.93	IN	RAIN	rain	2	DAY			
46.	9-9-15					7	DAY	47	83	F
47.	9-11-15	0.4	IN	RAIN	rain	1	DAY			
48.	9-16-15					7	DAY	51	90	F
49.	9-19-15	0.14	IN	RAIN	rain	1	DAY			
50.	9-23-15					7	DAY	54	85	F
51.	9-28-15	0.13	IN	RAIN	rain	1	DAY			

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	<b>A</b>
<b>Application Date:</b>	6-29-15
<b>Appl. Start Time:</b>	9:45
<b>Appl. Stop Time:</b>	10:30
<b>Application Method:</b>	Spray
<b>Application Timing:</b>	2-3"W
<b>Application Placement:</b>	BROFOL
<b>Applied By:</b>	MEJ
<b>Air Temperature, Unit:</b>	77 F
<b>% Relative Humidity:</b>	71
<b>Wind Velocity, Unit:</b>	7 MPH
<b>Wind Direction:</b>	W
<b>Dew Presence (Y/N):</b>	N
<b>Soil Temperature, Unit:</b>	76 F
<b>Soil Moisture:</b>	ABONOR
<b>% Cloud Cover:</b>	50
<b>Next Moisture Occurred On:</b>	7-1-15
<b>Time to Next Moisture, Unit:</b>	2 DAY

**Crop Stage At Each Application**

	<b>A</b>
<b>Crop 1 Code, BBCH Scale:</b>	GLXMA
<b>Stage Scale Used:</b>	DESC
<b>Stage Majority, Percent:</b>	V2
<b>Stage Minimum, Percent:</b>	V1
<b>Stage Maximum, Percent:</b>	V2
<b>Height, Unit:</b>	6 IN
<b>Height Minimum, Maximum:</b>	4 6

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**Pest Stage At Each Application**

	<b>A</b>
<b>Pest 1 Code, Type, Scale:</b>	PANDI W
<b>Stage Majority, Percent:</b>	3
<b>Stage Minimum, Percent:</b>	1
<b>Stage Maximum, Percent:</b>	3
<b>Height, Unit:</b>	4 IN
<b>Height Minimum, Maximum:</b>	3 6
<b>Density, Unit:</b>	0.01 FT2
<b>Pest 2 Code, Type, Scale:</b>	AMBTR W
<b>Stage Majority, Percent:</b>	4
<b>Stage Minimum, Percent:</b>	2
<b>Stage Maximum, Percent:</b>	6
<b>Height, Unit:</b>	3 IN
<b>Height Minimum, Maximum:</b>	2.5 4
<b>Density, Unit:</b>	0.1 FT2
<b>Pest 3 Code, Type, Scale:</b>	AMBEL W
<b>Stage Majority, Percent:</b>	4
<b>Stage Minimum, Percent:</b>	4
<b>Stage Maximum, Percent:</b>	4
<b>Height, Unit:</b>	2 IN
<b>Height Minimum, Maximum:</b>	1.5 3
<b>Density, Unit:</b>	0.01 FT2
<b>Pest 4 Code, Type, Scale:</b>	AMATA W
<b>Stage Majority, Percent:</b>	4
<b>Stage Minimum, Percent:</b>	2
<b>Stage Maximum, Percent:</b>	4
<b>Height, Unit:</b>	1 IN
<b>Height Minimum, Maximum:</b>	0.5 1
<b>Density, Unit:</b>	0.01 FT2
<b>Pest 5 Code, Type, Scale:</b>	ABUTH W
<b>Stage Majority, Percent:</b>	NA
<b>Pest 6 Code, Type, Scale:</b>	IPOHE W
<b>Stage Majority, Percent:</b>	4
<b>Stage Minimum, Percent:</b>	2
<b>Stage Maximum, Percent:</b>	4
<b>Height, Unit:</b>	3 IN
<b>Height Minimum, Maximum:</b>	1 4
<b>Density, Unit:</b>	0.01 FT2

**Application Equipment**

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

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Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	GLXMA 10-21-15 Moisture Percent	GLXMA 10-21-15 Test wt. lb/bu	GLXMA 10-21-15 Yield bu/A	GLXMA 7-13-15 Chlorosis Percent	GLXMA 7-13-15 Necrosis Percent	GLXMA 7-13-15 Stunt Percent			
										14 DA-A	14 DA-A	14 DA-A			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
1	NONTREATED									9.0 a	58.0 a	17 g	0	0	0
2	GLYFOS X-TRA N-PAK AMS	3 SL 100 SL		0.75 lb ae/a 2.5 % v/v		32 fl oz/a 2.5 % v/v		2-3"W 2-3"W	A A	8.8 a	58.2 a	54 a	0 a	0 e	0 a
3	CHA-2745 GLYFOS X-TRA N-PAK AMS	5 EC 3 SL 100 SL		1 lb ai/a 0.75 lb ae/a 2.5 % v/v		25.6 fl oz/a 32 fl oz/a 2.5 % v/v		2-3"W 2-3"W 2-3"W	A A A	8.6 a	58.4 a	51 a	0 a	0 e	0 a
4	DAWN COC (PRIME OIL)	2 AS 100 SL		0.3 lb ai/a 1.25 % v/v		19.2 fl oz/a 1.25 % v/v		2-3"W 2-3"W	A A	8.8 a	58.2 a	23 fg	0 a	5 d	0 a
5	CHA-2745 DAWN COC (PRIME OIL)	5 EC 2 AS 100 SL		1 lb ai/a 0.3 lb ai/a 1.25 % v/v		25.6 fl oz/a 19.2 fl oz/a 1.25 % v/v		2-3"W 2-3"W 2-3"W	A A A	8.7 a	58.2 a	17 g	0 a	10 b	0 a
6	PREFIX COC (PRIME OIL)	5.29 EC 100 SL		1.32 lb ai/a 1.25 % v/v		32 fl oz/a 1.25 % v/v		2-3"W 2-3"W	A A	8.8 a	58.2 a	31 ef	0 a	10 b	0 a
7	CHA-2745 DAWN GLYFOS X-TRA N-PAK AMS	5 EC 2 AS 3 SL 100 SL		1 lb ai/a 0.3 lb ai/a 0.75 lb ae/a 2.5 % v/v		25.6 fl oz/a 19.2 fl oz/a 32 fl oz/a 2.5 % v/v		2-3"W 2-3"W 2-3"W 2-3"W	A A A A	8.5 a	58.4 a	50 a	0 a	10 b	0 a
8	PREFIX GLYFOS X-TRA N-PAK AMS	5.29 EC 3 SL 100 SL		1.32 lb ai/a 0.75 lb ae/a 2.5 % v/v		32 fl oz/a 32 fl oz/a 2.5 % v/v		2-3"W 2-3"W 2-3"W	A A A	8.7 a	58.3 a	48 ab	0 a	10 b	0 a
9	HARASS GLYFOS X-TRA N-PAK AMS	75 WG 3 SL 100 SL		0.005 lb ai/a 0.75 lb ae/a 2.5 % v/v		0.107 oz/a 32 fl oz/a 2.5 % v/v		2-3"W 2-3"W 2-3"W	A A A	8.8 a	58.2 a	50 a	0 a	0 e	0 a
10	CHA-2745 HARASS GLYFOS X-TRA N-PAK AMS	5 EC 75 WG 3 SL 100 SL		1 lb ai/a 0.005 lb ai/a 0.75 lb ae/a 2.5 % v/v		25.6 fl oz/a 0.107 oz/a 32 fl oz/a 2.5 % v/v		2-3"W 2-3"W 2-3"W 2-3"W	A A A A	8.6 a	58.4 a	53 a	0 a	0 e	0 a
11	CHA-060 GLYFOS X-TRA N-PAK AMS	25 WG 3 SL 100 SL		0.008 lb ai/a 0.75 lb ae/a 2.5 % v/v		0.51 oz/a 32 fl oz/a 2.5 % v/v		2-3"W 2-3"W 2-3"W	A A A	8.7 a	58.2 a	53 a	0 a	0 e	0 a
12	CHA-2745 CHA-060 GLYFOS X-TRA N-PAK AMS	5 EC 25 WG 3 SL 100 SL		1 lb ai/a 0.008 lb ai/a 0.75 lb ae/a 2.5 % v/v		25.6 fl oz/a 0.51 oz/a 32 fl oz/a 2.5 % v/v		2-3"W 2-3"W 2-3"W 2-3"W	A A A A	8.7 a	58.2 a	47 abc	0 a	0 e	0 a
13	DAWN CLETHODIM COC (PRIME OIL)	2 AS 2 EC 100 SL		0.3 lb ai/a 0.188 lb ai/a 1.25 % v/v		19.2 fl oz/a 12 fl oz/a 1.25 % v/v		2-3"W 2-3"W 2-3"W	A A A	8.8 a	58.1 a	40 bcd	0 a	8 c	0 a
14	CHA-2745 DAWN CLETHODIM COC (PRIME OIL)	5 EC 2 AS 2 EC 100 SL		1 lb ai/a 0.3 lb ai/a 0.188 lb ai/a 1.25 % v/v		25.6 fl oz/a 19.2 fl oz/a 12 fl oz/a 1.25 % v/v		2-3"W 2-3"W 2-3"W 2-3"W	A A A A	8.9 a	58.1 a	39 cde	0 a	15 a	0 a

Means followed by same letter do not significantly differ (P= 0.05, LSD)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Missing data estimates are included in columns: Average=6,7,9,10,11,12,19,26,13,20,27,14,21,28,15,22,29,16,23,30,17,24,31,18,25,32

Could not calculate LSD (% mean diff) for columns 10,12,19,26 because error mean square = 0.

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Pest Code								GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA		
Crop Code								10-21-15	10-21-15	10-21-15	7-13-15	7-13-15	7-13-15		
Rating Date								Moisture	Test wt.	Yield	Chlorosis	Necrosis	Stunt		
Rating Type								Percent	lb/bu	bu/A	Percent	Percent	Percent		
Rating Unit															
Rating Timing															
Trt-Eval Interval											14 DA-A	14 DA-A	14 DA-A		
Trt. No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
15	COBRA	2	EC	0.2	lb ai/a	12.8	fl oz/a	2-3"W	A	8.9 a	58.1 a	36 de	0 a	15 a	0 a
	CLETHODIM	2	EC	0.188	lb ai/a	12	fl oz/a	2-3"W	A						
	COC (PRIME OIL)	100	SL	1.25	% v/v	1.25	% v/v	2-3"W	A						
16	CHA-2745	5	EC	1	lb ai/a	25.6	fl oz/a	2-3"W	A	8.9 a	58.1 a	38 cde	0 a	15 a	0 a
	COBRA	2	EC	0.2	lb ai/a	12.8	fl oz/a	2-3"W	A						
	CLETHODIM	2	EC	0.188	lb ai/a	12	fl oz/a	2-3"W	A						
	COC (PRIME OIL)	100	SL	1.25	% v/v	1.25	% v/v	2-3"W	A						
LSD P=.05								0.42	0.35	9.1	.	1.1	.		
Standard Deviation								0.29	0.24	6.4	0.0	0.8	0.0		
CV								3.34	0.42	15.73	0.0	11.75	0.0		
Replicate F								0.540	1.207	1.963	0.000	0.952	0.000		
Replicate Prob(F)								0.6577	0.3195	0.1339	1.0000	0.4245	1.0000		
Treatment F								0.859	0.941	15.894	0.000	255.918	0.000		
Treatment Prob(F)								0.6113	0.5302	0.0001	1.0000	0.0001	1.0000		

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Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	GLXMA 7-27-15 Injury Percent	GLXMA 8-10-15 Injury Percent	PANDI 7-13-15 Control Percent	PANDI 7-27-15 Control Percent	PANDI 8-10-15 Control Percent	
							28 DA-A	42 DA-A	14 DA-A	28 DA-A	42 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
1	NONTREATED									0	0	0
2	GLYFOS X-TRA N-PAK AMS	3 SL 100 SL		0.75 lb ae/a 2.5 % v/v		32 fl oz/a 2.5 % v/v		2-3"W 2-3"W	A A	0 a	0 a	98 b 98 b
3	CHA-2745 GLYFOS X-TRA N-PAK AMS	5 EC 3 SL 100 SL		1 lb ai/a 0.75 lb ae/a 2.5 % v/v		25.6 fl oz/a 32 fl oz/a 2.5 % v/v		2-3"W 2-3"W 2-3"W	A A A	0 a	0 a	99 a 99 a 99 a
4	DAWN COC (PRIME OIL)	2 AS 100 SL		0.3 lb ai/a 1.25 % v/v		19.2 fl oz/a 1.25 % v/v		2-3"W 2-3"W	A A	0 a	0 a	0 c 0 c
5	CHA-2745 DAWN COC (PRIME OIL)	5 EC 2 AS 100 SL		1 lb ai/a 0.3 lb ai/a 1.25 % v/v		25.6 fl oz/a 19.2 fl oz/a 1.25 % v/v		2-3"W 2-3"W 2-3"W	A A A	0 a	0 a	0 c 0 c 0 c
6	PREFIX COC (PRIME OIL)	5.29 EC 100 SL		1.32 lb ai/a 1.25 % v/v		32 fl oz/a 1.25 % v/v		2-3"W 2-3"W	A A	0 a	0 a	0 c 0 c
7	CHA-2745 DAWN GLYFOS X-TRA N-PAK AMS	5 EC 2 AS 3 SL 100 SL		1 lb ai/a 0.3 lb ai/a 0.75 lb ae/a 2.5 % v/v		25.6 fl oz/a 19.2 fl oz/a 32 fl oz/a 2.5 % v/v		2-3"W 2-3"W 2-3"W 2-3"W	A A A A	0 a	0 a	99 a 99 a 99 a 99 a
8	PREFIX GLYFOS X-TRA N-PAK AMS	5.29 EC 3 SL 100 SL		1.32 lb ai/a 0.75 lb ae/a 2.5 % v/v		32 fl oz/a 32 fl oz/a 2.5 % v/v		2-3"W 2-3"W 2-3"W	A A A	0 a	0 a	99 a 99 a 99 a
9	HARASS GLYFOS X-TRA N-PAK AMS	75 WG 3 SL 100 SL		0.005 lb ai/a 0.75 lb ae/a 2.5 % v/v		0.107 oz/a 32 fl oz/a 2.5 % v/v		2-3"W 2-3"W 2-3"W	A A A	0 a	0 a	99 a 99 a 99 a
10	CHA-2745 HARASS GLYFOS X-TRA N-PAK AMS	5 EC 75 WG 3 SL 100 SL		1 lb ai/a 0.005 lb ai/a 0.75 lb ae/a 2.5 % v/v		25.6 fl oz/a 0.107 oz/a 32 fl oz/a 2.5 % v/v		2-3"W 2-3"W 2-3"W 2-3"W	A A A A	0 a	0 a	99 a 99 a 99 a 99 a
11	CHA-060 GLYFOS X-TRA N-PAK AMS	25 WG 3 SL 100 SL		0.008 lb ai/a 0.75 lb ae/a 2.5 % v/v		0.51 oz/a 32 fl oz/a 2.5 % v/v		2-3"W 2-3"W 2-3"W	A A A	0 a	0 a	99 a 99 a 99 a
12	CHA-2745 CHA-060 GLYFOS X-TRA N-PAK AMS	5 EC 25 WG 3 SL 100 SL		1 lb ai/a 0.008 lb ai/a 0.75 lb ae/a 2.5 % v/v		25.6 fl oz/a 0.51 oz/a 32 fl oz/a 2.5 % v/v		2-3"W 2-3"W 2-3"W 2-3"W	A A A A	0 a	0 a	99 a 99 a 99 a 99 a
13	DAWN CLETHODIM COC (PRIME OIL)	2 AS 2 EC 100 SL		0.3 lb ai/a 0.188 lb ai/a 1.25 % v/v		19.2 fl oz/a 12 fl oz/a 1.25 % v/v		2-3"W 2-3"W 2-3"W	A A A	0 a	0 a	99 a 99 a 99 a
14	CHA-2745 DAWN CLETHODIM COC (PRIME OIL)	5 EC 2 AS 2 EC 100 SL		1 lb ai/a 0.3 lb ai/a 0.188 lb ai/a 1.25 % v/v		25.6 fl oz/a 19.2 fl oz/a 12 fl oz/a 1.25 % v/v		2-3"W 2-3"W 2-3"W 2-3"W	A A A A	0 a	0 a	99 a 99 a 99 a 99 a

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Pest Code							GLXMA	GLXMA	PANDI	PANDI	PANDI
Crop Code							7-27-15	8-10-15	7-13-15	7-27-15	8-10-15
Rating Date							Injury	Injury	Control	Control	Control
Rating Type							Percent	Percent	Percent	Percent	Percent
Rating Unit											
Rating Timing											
Trt-Eval Interval							28 DA-A	42 DA-A	14 DA-A	28 DA-A	42 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Other Rate	Other Unit	Growth Stage	Appl Code			
15	COBRA	2	EC	0.2 lb ai/a	12.8 fl oz/a		2-3"W	A	0 a	0 a	99 a
	CLETHODIM	2	EC	0.188 lb ai/a	12 fl oz/a		2-3"W	A			99 a
	COC (PRIME OIL)	100	SL	1.25 % v/v	1.25 % v/v		2-3"W	A			99 a
16	CHA-2745	5	EC	1 lb ai/a	25.6 fl oz/a		2-3"W	A	0 a	0 a	99 a
	COBRA	2	EC	0.2 lb ai/a	12.8 fl oz/a		2-3"W	A			99 a
	CLETHODIM	2	EC	0.188 lb ai/a	12 fl oz/a		2-3"W	A			99 a
	COC (PRIME OIL)	100	SL	1.25 % v/v	1.25 % v/v		2-3"W	A			99 a
LSD P=.05							.	.	0.7	0.7	0.7
Standard Deviation							0.0	0.0	0.5	0.5	0.5
CV							0.0	0.0	0.63	0.63	0.63
Replicate F							0.000	0.000	0.952	0.952	0.952
Replicate Prob(F)							1.0000	1.0000	0.4245	0.4245	0.4245
Treatment F							0.000	0.000	26944.050	26944.050	26944.050
Treatment Prob(F)							1.0000	1.0000	0.0001	0.0001	0.0001

## Residual Efficacy and Selectivity of CHA-2745 when Applied Postemergence to Soybean.

Trial ID: 15-2A-M110 Location: Belleville Res. Center Trial Year: 2015  
Investigator: Ronald F. Krausz

Pest Code		Crop Code		Rating Date		Rating Type		Rating Unit		Rating Timing		Trt-Eval Interval		AMBTR	AMBTR	AMBTR	AMBEL	AMBEL	AMBEL
No. Name		Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent	Control Percent
1 NONTREATED														0	0	0	0	0	0
2 GLYFOS X-TRA N-PAK AMS		3 SL 100 SL		0.75 lb ae/a 2.5 % v/v		32 fl oz/a 2.5 % v/v		2-3"W 2-3"W	A A	98 a	98 a	98 a	99 a	99 a	99 a				
3 CHA-2745 GLYFOS X-TRA N-PAK AMS		5 EC 3 SL 100 SL		1 lb ai/a 0.75 lb ae/a 2.5 % v/v		25.6 fl oz/a 32 fl oz/a 2.5 % v/v		2-3"W 2-3"W 2-3"W	A A A	94 a	94 a	94 a	99 a	99 a	99 a				
4 DAWN COC (PRIME OIL)		2 AS 100 SL		0.3 lb ai/a 1.25 % v/v		19.2 fl oz/a 1.25 % v/v		2-3"W 2-3"W	A A	50 b	45 b	45 b	99 a	99 a	99 a				
5 CHA-2745 DAWN COC (PRIME OIL)		5 EC 2 AS 100 SL		1 lb ai/a 0.3 lb ai/a 1.25 % v/v		25.6 fl oz/a 19.2 fl oz/a 1.25 % v/v		2-3"W 2-3"W 2-3"W	A A A	29 bc	23 bc	23 bc	99 a	99 a	99 a				
6 PREFIX COC (PRIME OIL)		5.29 EC 100 SL		1.32 lb ai/a 1.25 % v/v		32 fl oz/a 1.25 % v/v		2-3"W 2-3"W	A A	51 b	46 b	46 b	99 a	99 a	99 a				
7 CHA-2745 DAWN GLYFOS X-TRA N-PAK AMS		5 EC 2 AS 3 SL 100 SL		1 lb ai/a 0.3 lb ai/a 0.75 lb ae/a 2.5 % v/v		25.6 fl oz/a 19.2 fl oz/a 32 fl oz/a 2.5 % v/v		2-3"W 2-3"W 2-3"W 2-3"W	A A A A	99 a	99 a	99 a	99 a	99 a	99 a				
8 PREFIX GLYFOS X-TRA N-PAK AMS		5.29 EC 3 SL 100 SL		1.32 lb ai/a 0.75 lb ae/a 2.5 % v/v		32 fl oz/a 32 fl oz/a 2.5 % v/v		2-3"W 2-3"W 2-3"W	A A A	98 a	98 a	98 a	99 a	99 a	99 a				
9 HARASS GLYFOS X-TRA N-PAK AMS		75 WG 3 SL 100 SL		0.005 lb ai/a 0.75 lb ae/a 2.5 % v/v		0.107 oz/a 32 fl oz/a 2.5 % v/v		2-3"W 2-3"W 2-3"W	A A A	97 a	95 a	95 a	99 a	99 a	99 a				
10 CHA-2745 HARASS GLYFOS X-TRA N-PAK AMS		5 EC 75 WG 3 SL 100 SL		1 lb ai/a 0.005 lb ai/a 0.75 lb ae/a 2.5 % v/v		25.6 fl oz/a 0.107 oz/a 32 fl oz/a 2.5 % v/v		2-3"W 2-3"W 2-3"W 2-3"W	A A A A	95 a	95 a	95 a	99 a	99 a	99 a				
11 CHA-060 GLYFOS X-TRA N-PAK AMS		25 WG 3 SL 100 SL		0.008 lb ai/a 0.75 lb ae/a 2.5 % v/v		0.51 oz/a 32 fl oz/a 2.5 % v/v		2-3"W 2-3"W 2-3"W	A A A	97 a	97 a	97 a	99 a	99 a	99 a				
12 CHA-2745 CHA-060 GLYFOS X-TRA N-PAK AMS		5 EC 25 WG 3 SL 100 SL		1 lb ai/a 0.008 lb ai/a 0.75 lb ae/a 2.5 % v/v		25.6 fl oz/a 0.51 oz/a 32 fl oz/a 2.5 % v/v		2-3"W 2-3"W 2-3"W 2-3"W	A A A A	98 a	98 a	98 a	99 a	99 a	99 a				
13 DAWN CLETHODIM COC (PRIME OIL)		2 AS 2 EC 100 SL		0.3 lb ai/a 0.188 lb ai/a 1.25 % v/v		19.2 fl oz/a 12 fl oz/a 1.25 % v/v		2-3"W 2-3"W 2-3"W	A A A	25 bc	25 bc	25 bc	99 a	99 a	99 a				
14 CHA-2745 DAWN CLETHODIM COC (PRIME OIL)		5 EC 2 AS 2 EC 100 SL		1 lb ai/a 0.3 lb ai/a 0.188 lb ai/a 1.25 % v/v		25.6 fl oz/a 19.2 fl oz/a 12 fl oz/a 1.25 % v/v		2-3"W 2-3"W 2-3"W 2-3"W	A A A A	5 c	0 c	0 c	99 a	99 a	99 a				

Residual Efficacy and Selectivity of CHA-2745 when Applied Postemergence to Soybean.

Trial ID: 15-2A-M110 Location: Belleville Res. Center Trial Year: 2015  
 Investigator: Ronald F. Krausz

Pest Code		AMBTR	AMBTR	AMBTR	AMBEL	AMBEL	AMBEL																
Crop Code																							
Rating Date		7-13-15	7-27-15	8-10-15	7-13-15	7-27-15	8-10-15																
Rating Type		Control	Control	Control	Control	Control	Control																
Rating Unit		Percent	Percent	Percent	Percent	Percent	Percent																
Rating Timing																							
Trt-Eval Interval		14 DA-A	28 DA-A	42 DA-A	14 DA-A	28 DA-A	42 DA-A																
Trt. No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code														
15	COBRA	2	EC	0.2	lb ai/a	12.8	fl oz/a	2-3"	W	A	45	b	45	b	45	b	99	a	99	a	99	a	
	CLETHODIM	2	EC	0.188	lb ai/a	12	fl oz/a	2-3"	W	A													
	COC (PRIME OIL)	100	SL	1.25	% v/v	1.25	% v/v	2-3"	W	A													
16	CHA-2745	5	EC	1	lb ai/a	25.6	fl oz/a	2-3"	W	A	26	bc	24	bc	24	bc	99	a	99	a	99	a	
	COBRA	2	EC	0.2	lb ai/a	12.8	fl oz/a	2-3"	W	A													
	CLETHODIM	2	EC	0.188	lb ai/a	12	fl oz/a	2-3"	W	A													
	COC (PRIME OIL)	100	SL	1.25	% v/v	1.25	% v/v	2-3"	W	A													
LSD P=.05						37.0					37.0		39.6		39.6		0.3		0.3		0.3		0.3
Standard Deviation						25.9					25.9		27.7		27.7		0.2		0.2		0.2		0.2
CV						38.67					38.67		42.39		42.39		0.19		0.19		0.19		0.19
Replicate F						4.166					4.166		4.144		4.144		0.488		0.488		0.488		0.488
Replicate Prob(F)						0.0117					0.0117		0.0120		0.0120		0.6927		0.6927		0.6927		0.6927
Treatment F						7.171					7.171		6.880		6.880		1.262		1.262		1.262		1.262
Treatment Prob(F)						0.0001					0.0001		0.0001		0.0001		0.2726		0.2726		0.2726		0.2726

## Residual Efficacy and Selectivity of CHA-2745 when Applied Postemergence to Soybean.

Trial ID: 15-2A-M110 Location: Belleville Res. Center Trial Year: 2015  
Investigator: Ronald F. Krausz

Pest Code				AMATA	AMATA	AMATA	ABUTH	ABUTH	ABUTH
Crop Code									
Rating Date				7-13-15	7-27-15	8-10-15	7-13-15	7-27-15	8-10-15
Rating Type				Control	Control	Control	Control	Control	Control
Rating Unit				Percent	Percent	Percent	Percent	Percent	Percent
Rating Timing									
Trt-Eval Interval				14 DA-A	28 DA-A	42 DA-A	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	NONTREATED								0
2	GLYFOS X-TRA N-PAK AMS	3 SL 100 SL		0.75 lb ae/a 2.5 % v/v	32 fl oz/a 2.5 % v/v		2-3"W 2-3"W	A A	99 a
3	CHA-2745 GLYFOS X-TRA N-PAK AMS	5 EC 3 SL 100 SL		1 lb ai/a 0.75 lb ae/a 2.5 % v/v	25.6 fl oz/a 32 fl oz/a 2.5 % v/v		2-3"W 2-3"W 2-3"W	A A A	99 a
4	DAWN COC (PRIME OIL)	2 AS 100 SL		0.3 lb ai/a 1.25 % v/v	19.2 fl oz/a 1.25 % v/v		2-3"W 2-3"W	A A	99 a
5	CHA-2745 DAWN COC (PRIME OIL)	5 EC 2 AS 100 SL		1 lb ai/a 0.3 lb ai/a 1.25 % v/v	25.6 fl oz/a 19.2 fl oz/a 1.25 % v/v		2-3"W 2-3"W 2-3"W	A A A	99 a
6	PREFIX COC (PRIME OIL)	5.29 EC 100 SL		1.32 lb ai/a 1.25 % v/v	32 fl oz/a 1.25 % v/v		2-3"W 2-3"W	A A	99 a
7	CHA-2745 DAWN GLYFOS X-TRA N-PAK AMS	5 EC 2 AS 3 SL 100 SL		1 lb ai/a 0.3 lb ai/a 0.75 lb ae/a 2.5 % v/v	25.6 fl oz/a 19.2 fl oz/a 32 fl oz/a 2.5 % v/v		2-3"W 2-3"W 2-3"W 2-3"W	A A A A	99 a
8	PREFIX GLYFOS X-TRA N-PAK AMS	5.29 EC 3 SL 100 SL		1.32 lb ai/a 0.75 lb ae/a 2.5 % v/v	32 fl oz/a 32 fl oz/a 2.5 % v/v		2-3"W 2-3"W 2-3"W	A A A	99 a
9	HARASS GLYFOS X-TRA N-PAK AMS	75 WG 3 SL 100 SL		0.005 lb ai/a 0.75 lb ae/a 2.5 % v/v	0.107 oz/a 32 fl oz/a 2.5 % v/v		2-3"W 2-3"W 2-3"W	A A A	99 a
10	CHA-2745 HARASS GLYFOS X-TRA N-PAK AMS	5 EC 75 WG 3 SL 100 SL		1 lb ai/a 0.005 lb ai/a 0.75 lb ae/a 2.5 % v/v	25.6 fl oz/a 0.107 oz/a 32 fl oz/a 2.5 % v/v		2-3"W 2-3"W 2-3"W 2-3"W	A A A A	99 a
11	CHA-060 GLYFOS X-TRA N-PAK AMS	25 WG 3 SL 100 SL		0.008 lb ai/a 0.75 lb ae/a 2.5 % v/v	0.51 oz/a 32 fl oz/a 2.5 % v/v		2-3"W 2-3"W 2-3"W	A A A	99 a
12	CHA-2745 CHA-060 GLYFOS X-TRA N-PAK AMS	5 EC 25 WG 3 SL 100 SL		1 lb ai/a 0.008 lb ai/a 0.75 lb ae/a 2.5 % v/v	25.6 fl oz/a 0.51 oz/a 32 fl oz/a 2.5 % v/v		2-3"W 2-3"W 2-3"W 2-3"W	A A A A	99 a
13	DAWN CLETHODIM COC (PRIME OIL)	2 AS 2 EC 100 SL		0.3 lb ai/a 0.188 lb ai/a 1.25 % v/v	19.2 fl oz/a 12 fl oz/a 1.25 % v/v		2-3"W 2-3"W 2-3"W	A A A	99 a
14	CHA-2745 DAWN CLETHODIM COC (PRIME OIL)	5 EC 2 AS 2 EC 100 SL		1 lb ai/a 0.3 lb ai/a 0.188 lb ai/a 1.25 % v/v	25.6 fl oz/a 19.2 fl oz/a 12 fl oz/a 1.25 % v/v		2-3"W 2-3"W 2-3"W 2-3"W	A A A A	99 a

Residual Efficacy and Selectivity of CHA-2745 when Applied Postemergence to Soybean.

Trial ID: 15-2A-M110 Location: Belleville Res. Center Trial Year: 2015  
 Investigator: Ronald F. Krausz

Pest Code							AMATA	AMATA	AMATA	ABUTH	ABUTH	ABUTH
Crop Code												
Rating Date							7-13-15	7-27-15	8-10-15	7-13-15	7-27-15	8-10-15
Rating Type							Control	Control	Control	Control	Control	Control
Rating Unit							Percent	Percent	Percent	Percent	Percent	Percent
Rating Timing												
Trt-Eval Interval							14 DA-A	28 DA-A	42 DA-A	14 DA-A	28 DA-A	42 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
15	COBRA	2	EC	0.2	lb ai/a	12.8	fl oz/a	2-3"W	A	99 a	99 a	99 a
	CLETHODIM	2	EC	0.188	lb ai/a	12	fl oz/a	2-3"W	A			
	COC (PRIME OIL)	100	SL	1.25	% v/v	1.25	% v/v	2-3"W	A			
16	CHA-2745	5	EC	1	lb ai/a	25.6	fl oz/a	2-3"W	A	99 a	99 a	99 a
	COBRA	2	EC	0.2	lb ai/a	12.8	fl oz/a	2-3"W	A			
	CLETHODIM	2	EC	0.188	lb ai/a	12	fl oz/a	2-3"W	A			
	COC (PRIME OIL)	100	SL	1.25	% v/v	1.25	% v/v	2-3"W	A			
LSD P=.05							0.3	1.7	1.7	0.2	0.4	0.4
Standard Deviation							0.2	1.2	1.2	0.1	0.3	0.3
CV							0.23	1.24	1.24	0.13	0.27	0.27
Replicate F							1.031	0.701	0.701	0.952	0.025	0.025
Replicate Prob(F)							0.3891	0.5572	0.5572	0.4245	0.9944	0.9944
Treatment F							1.079	2.904	2.904	0.952	0.865	0.865
Treatment Prob(F)							0.4042	0.0041	0.0041	0.5154	0.5994	0.5994

## Residual Efficacy and Selectivity of CHA-2745 when Applied Postemergence to Soybean.

Trial ID: 15-2A-M110 Location: Belleville Res. Center Trial Year: 2015  
Investigator: Ronald F. Krausz

Pest Code										IPOHE	IPOHE	IPOHE
Crop Code										7-13-15	7-27-15	8-10-15
Rating Date										Control	Control	Control
Rating Type										Percent	Percent	Percent
Rating Unit										14 DA-A	28 DA-A	42 DA-A
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	NONTREATED									0	0	0
2	GLYFOS X-TRA N-PAK AMS	3 SL 100 SL		0.75 lb 2.5 %	ae/a v/v	32 fl oz/a 2.5 %		2-3"W 2-3"W	A A	99 a	99 a	99 a
3	CHA-2745 GLYFOS X-TRA N-PAK AMS	5 EC 3 SL 100 SL		1 lb 0.75 lb 2.5 %	ai/a ae/a v/v	25.6 fl oz/a 32 fl oz/a 2.5 %		2-3"W 2-3"W 2-3"W	A A A	99 a	99 a	99 a
4	DAWN COC (PRIME OIL)	2 AS 100 SL		0.3 lb 1.25 %	ai/a v/v	19.2 fl oz/a 1.25 %		2-3"W 2-3"W	A A	99 a	99 a	99 a
5	CHA-2745 DAWN COC (PRIME OIL)	5 EC 2 AS 100 SL		1 lb 0.3 lb 1.25 %	ai/a ai/a v/v	25.6 fl oz/a 19.2 fl oz/a 1.25 %		2-3"W 2-3"W 2-3"W	A A A	99 a	99 a	99 a
6	PREFIX COC (PRIME OIL)	5.29 EC 100 SL		1.32 lb 1.25 %	ai/a v/v	32 fl oz/a 1.25 %		2-3"W 2-3"W	A A	99 a	99 a	99 a
7	CHA-2745 DAWN GLYFOS X-TRA N-PAK AMS	5 EC 2 AS 3 SL 100 SL		1 lb 0.3 lb 0.75 lb 2.5 %	ai/a ai/a ae/a v/v	25.6 fl oz/a 19.2 fl oz/a 32 fl oz/a 2.5 %		2-3"W 2-3"W 2-3"W 2-3"W	A A A A	99 a	99 a	99 a
8	PREFIX GLYFOS X-TRA N-PAK AMS	5.29 EC 3 SL 100 SL		1.32 lb 0.75 lb 2.5 %	ai/a ae/a v/v	32 fl oz/a 32 fl oz/a 2.5 %		2-3"W 2-3"W 2-3"W	A A A	99 a	99 a	99 a
9	HARASS GLYFOS X-TRA N-PAK AMS	75 WG 3 SL 100 SL		0.005 lb 0.75 lb 2.5 %	ai/a ae/a v/v	0.107 oz/a 32 fl oz/a 2.5 %		2-3"W 2-3"W 2-3"W	A A A	99 a	99 a	99 a
10	CHA-2745 HARASS GLYFOS X-TRA N-PAK AMS	5 EC 75 WG 3 SL 100 SL		1 lb 0.005 lb 0.75 lb 2.5 %	ai/a ai/a ae/a v/v	25.6 fl oz/a 0.107 oz/a 32 fl oz/a 2.5 %		2-3"W 2-3"W 2-3"W 2-3"W	A A A A	99 a	99 a	99 a
11	CHA-060 GLYFOS X-TRA N-PAK AMS	25 WG 3 SL 100 SL		0.008 lb 0.75 lb 2.5 %	ai/a ae/a v/v	0.51 oz/a 32 fl oz/a 2.5 %		2-3"W 2-3"W 2-3"W	A A A	99 a	99 a	99 a
12	CHA-2745 CHA-060 GLYFOS X-TRA N-PAK AMS	5 EC 25 WG 3 SL 100 SL		1 lb 0.008 lb 0.75 lb 2.5 %	ai/a ai/a ae/a v/v	25.6 fl oz/a 0.51 oz/a 32 fl oz/a 2.5 %		2-3"W 2-3"W 2-3"W 2-3"W	A A A A	99 a	99 a	99 a
13	DAWN CLETHODIM COC (PRIME OIL)	2 AS 2 EC 100 SL		0.3 lb 0.188 lb 1.25 %	ai/a ai/a v/v	19.2 fl oz/a 12 fl oz/a 1.25 %		2-3"W 2-3"W 2-3"W	A A A	99 a	99 a	99 a
14	CHA-2745 DAWN CLETHODIM COC (PRIME OIL)	5 EC 2 AS 2 EC 100 SL		1 lb 0.3 lb 0.188 lb 1.25 %	ai/a ai/a ai/a v/v	25.6 fl oz/a 19.2 fl oz/a 12 fl oz/a 1.25 %		2-3"W 2-3"W 2-3"W 2-3"W	A A A A	99 a	99 a	99 a

## Residual Efficacy and Selectivity of CHA-2745 when Applied Postemergence to Soybean.

Trial ID: 15-2A-M110 Location: Belleville Res. Center Trial Year: 2015  
Investigator: Ronald F. Krausz

Pest Code										IPOHE	IPOHE	IPOHE
Crop Code												
Rating Date										7-13-15	7-27-15	8-10-15
Rating Type										Control	Control	Control
Rating Unit										Percent	Percent	Percent
Rating Timing												
Trt-Eval Interval										14 DA-A	28 DA-A	42 DA-A
Trt. No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
15	COBRA	2	EC	0.2	lb ai/a	12.8	fl oz/a	2-3"W	A	99 a	99 a	99 a
	CLETHODIM	2	EC	0.188	lb ai/a	12	fl oz/a	2-3"W	A			
	COC (PRIME OIL)	100	SL	1.25	% v/v	1.25	% v/v	2-3"W	A			
16	CHA-2745	5	EC	1	lb ai/a	25.6	fl oz/a	2-3"W	A	99 a	99 a	99 a
	COBRA	2	EC	0.2	lb ai/a	12.8	fl oz/a	2-3"W	A			
	CLETHODIM	2	EC	0.188	lb ai/a	12	fl oz/a	2-3"W	A			
	COC (PRIME OIL)	100	SL	1.25	% v/v	1.25	% v/v	2-3"W	A			
LSD P=.05										0.3	0.3	0.3
Standard Deviation										0.2	0.2	0.2
CV										0.23	0.19	0.19
Replicate F										1.183	0.620	0.620
Replicate Prob(F)										0.3284	0.6061	0.6061
Treatment F										0.829	0.864	0.864
Treatment Prob(F)										0.6345	0.6007	0.6007

Residual Efficacy and Selectivity of CHA-2745 when Applied Postemergence to Soybean.

Trial ID: 15-2A-M110      Location: Belleville Res. Center      Trial Year: 2015  
Investigator: Ronald F. Krausz

Trial Comments

1. Protocol: Cheminova (HGLXMAPET1503).
2. Ratings:  
CI as chlorosis, necrosis, and stunting at 14, 28, and 42 DA-A.  
WC at 14, 28, and 42 DA-A.
3. Yield optional (do not sell grain from coded treatments).
4. Photos.
5. Report daily rainfall and air temperature, and first rainfall after application.
6. Report weeds at application.
7. Use Arrow for the Clethodim.
8. Rainfall following the 2-3"W application was 1.97 inch over 8 days beginning 2 days later.
9. Missing data for plots 404 and 411 was due to spray equipment malfunction.
10. Harvested 10-21-15, (2) 30 inch rows by 25 ft.