

Weed Control With Sonic and Surveil Followed by Durango DMA.

Trial ID: 15-51E-N120 Location: Belleville Res. Center Trial Year: 2015  
Investigator: Ronald F. Krausz

**Trial Status:** F one-year/final  
**Initiation Date:** 6-13-15  
**Completion Date:** 10-20-15

**Trial Location**

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

**Objectives:**

Evaluation of efficacy of Sonic and Surveil followed by Durango DMA on weed control compared to competitors.

**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  
**Postal Code:** 62221 **E-mail:** rkrausz@siu.edu  
**Country:** USA

**Crop Description**

**Crop 1:** GLXMA Glycine max Soybean  
**Variety:** AG3832 **BBCH Scale:** BSOY  
**Description:** RR2Y  
**Planting Date:** 6-13-15  
**Planting Rate, Unit:** 140000 S/A **Planting Method:** SEEDED  
**Depth, Unit:** 1 IN  
**Row Spacing, Unit:** 30 IN

**Pest Description**

**Pest 1 Type:** W **Code:** AMBTR Ambrosia trifida L.  
**Common Name:** ragweed, giant  
**Pest 2 Type:** W **Code:** ABUTH Abutilon theophrasti Medik.  
**Common Name:** velvetleaf  
**Pest 3 Type:** W **Code:** IPOHE Ipomoea hederacea (L.) Jacq.  
**Common Name:** morningglory, ivyleaf  
**Pest 4 Type:** W **Code:** AMATA Amaranthus rudis Sauer  
**Common Name:** waterhemp, common

**Site and Design**

**Treated Plot Width:** 7.5 FT **Total Plot Width:** 10 FT **Site Type:** FIELD  
**Treated Plot Length:** 27 FT **Total Plot Length:** 27 FT **Experimental Unit:** 1 PLOT  
**Tillage Type:** REDTIL reduced-till  
**Replications:** 4 **Study Design:** RACOB� Randomized Complete Block (RCB)  
**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 100 LB/A

**Soil Description**

**Description Name:** 51E 2013  
**% OM:** 2.8 **Texture:** SIL silt loam  
**pH:** 6.1 **Soil Name:** Pierron  
**CEC:** 10

**Additional Measured Elements**

Element	Quantity	Unit
P1	87	lb/A
K	343	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.	8-5-15					7	DAY	64	88	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			

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**Application Description**

	<b>A</b>	<b>B</b>	<b>C</b>
<b>Application Date:</b>	6-13-15	7-15-15	7-6-15
<b>Appl. Start Time:</b>	15:15	10:30	9:15
<b>Appl. Stop Time:</b>	15:55	11:00	9:20
<b>Application Method:</b>	Spray	Spray	Spray
<b>Application Timing:</b>	PRE	4-6"W	V2
<b>Application Placement:</b>	BROSOI	BROFOL	BROFOL
<b>Applied By:</b>	MEJ	MEJ	MEJ
<b>Air Temperature, Unit:</b>	84 F	82 F	81 F
<b>% Relative Humidity:</b>	65	65	88
<b>Wind Velocity, Unit:</b>	10 MPH	1 MPH	5 MPH
<b>Wind Direction:</b>	E	W	S
<b>Dew Presence (Y/N):</b>	N	N	N
<b>Soil Temperature, Unit:</b>	75 F	81 F	77 F
<b>Soil Moisture:</b>	NORMAL	ABONOR	ABONOR
<b>% Cloud Cover:</b>	50	5	50
<b>Next Moisture Occurred On:</b>	6-14-15	7-19-15	7-7-15
<b>Time to Next Moisture, Unit:</b>	18 HR	4 DAY	38 HR

**Crop Stage At Each Application**

	<b>A</b>	<b>B</b>	<b>C</b>
<b>Crop 1 Code, BBCH Scale:</b>	GLXMA	GLXMA	GLXMA
<b>Stage Scale Used:</b>	DESC	DESC	DESC
<b>Stage Majority, Percent:</b>	NA	V4	V2
<b>Stage Minimum, Percent:</b>		V3	V2
<b>Stage Maximum, Percent:</b>		V4	V2
<b>Height, Unit:</b>		10 IN	7 IN
<b>Height Minimum, Maximum:</b>		8 10	5 7

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**Pest Stage At Each Application**

	<b>A</b>	<b>B</b>	<b>C</b>
<b>Pest 1 Code, Type, Scale:</b>	AMBTR W	AMBTR W	AMBTR W
<b>Stage Majority, Percent:</b>	NA	7	4
<b>Stage Minimum, Percent:</b>		4	2
<b>Stage Maximum, Percent:</b>		9	4
<b>Height, Unit:</b>		6 IN	3 IN
<b>Height Minimum, Maximum:</b>		4 10	1.5 4
<b>Density, Unit:</b>		0.01 FT2	0.001 FT2
<b>Pest 2 Code, Type, Scale:</b>	ABUTH W	ABUTH W	ABUTH W
<b>Stage Majority, Percent:</b>	NA	4	NA
<b>Stage Minimum, Percent:</b>		2	
<b>Stage Maximum, Percent:</b>		6	
<b>Height, Unit:</b>		4 IN	
<b>Height Minimum, Maximum:</b>		1 4	
<b>Density, Unit:</b>		0.01 FT2	
<b>Pest 3 Code, Type, Scale:</b>	IPOHE W	IPOHE W	IPOHE W
<b>Stage Majority, Percent:</b>	NA	8	2
<b>Stage Minimum, Percent:</b>		2	2
<b>Stage Maximum, Percent:</b>		12	2
<b>Height, Unit:</b>		4 IN	1 IN
<b>Height Minimum, Maximum:</b>		1 5	1 1.5
<b>Density, Unit:</b>		0.001 FT2	0.001 FT2
<b>Pest 4 Code, Type, Scale:</b>	AMATA W	AMATA W	AMATA W
<b>Stage Majority, Percent:</b>	NA	8	NA
<b>Stage Minimum, Percent:</b>		4	
<b>Stage Maximum, Percent:</b>		16	
<b>Height, Unit:</b>		6 IN	
<b>Height Minimum, Maximum:</b>		2 12	
<b>Density, Unit:</b>		0.01 FT2	

**Application Equipment**

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

## Weed Control With Sonic and Surveil Followed by Durango DMA.

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Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	GLXMA 10-20-15 Moisture Percent	GLXMA 10-20-15 Test wt. lb/bu	GLXMA 10-20-15 Yield bu/A				
Trt-Eval Interval												
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
1	SONIC DURANGO DMA N-PAK AMS	70 4 100	WG SL SL	0.197 1 2.5	lb ai/a lb ae/a % v/v	4.5 32 2.5	oz/a fl oz/a % v/v	PRE 4-6"W 4-6"W	A B B	8.1 a	59.1 a	64 ab
2	SONIC DURANGO DMA N-PAK AMS	70 4 100	WG SL SL	0.263 1 2.5	lb ai/a lb ae/a % v/v	6 32 2.5	oz/a fl oz/a % v/v	PRE 4-6"W 4-6"W	A B B	8.2 a	59.0 a	57 a-d
3	SONIC FIRSTRATE DURANGO DMA N-PAK AMS	70 84 4 100	WG WG SL SL	0.131 0.0158 1 2.5	lb ai/a lb ai/a lb ae/a % v/v	3 0.3 32 2.5	oz/a oz/a fl oz/a % v/v	PRE 4-6"W 4-6"W 4-6"W	A B B B	8.0 a	59.2 a	65 a
4	SURVEIL DURANGO DMA N-PAK AMS	48 4 100	WG SL SL	0.126 1 2.5	lb ai/a lb ae/a % v/v	4.2 32 2.5	oz/a fl oz/a % v/v	PRE 4-6"W 4-6"W	A B B	8.8 a	58.6 a	34 gh
5	VALOR XLT ROUNDUP POWERMAX N-PAK AMS	40.3 4.5 100	WG SL SL	0.088 1.13 2.5	lb ai/a lb ae/a % v/v	3.5 32 2.5	oz/a fl oz/a % v/v	PRE 4-6"W 4-6"W	A B B	8.5 a	58.9 a	40 efg
6	FIERCE XLT ROUNDUP POWERMAX N-PAK AMS	62.41 4.5 100	WG SL SL	0.176 1.13 2.5	lb ai/a lb ae/a % v/v	4.5 32 2.5	oz/a fl oz/a % v/v	PRE 4-6"W 4-6"W	A B B	7.2 a	59.3 a	24 h
7	AUTHORITY XL ROUNDUP POWERMAX N-PAK AMS	70 4.5 100	WG SL SL	0.28 1.13 2.5	lb ai/a lb ae/a % v/v	6.4 32 2.5	oz/a fl oz/a % v/v	PRE 4-6"W 4-6"W	A B B	8.1 a	59.1 a	49 c-f
8	AUTHORITY MAXX ROUNDUP POWERMAX N-PAK AMS	66 4.5 100	WG SL SL	0.264 1.13 2.5	lb ai/a lb ae/a % v/v	6.4 32 2.5	oz/a fl oz/a % v/v	PRE 4-6"W 4-6"W	A B B	8.1 a	59.1 a	52 b-e
9	BROADAXE XC TOUCHDOWN TOTAL N-PAK AMS	7 4.17 100	SC SL SL	1.37 1.04 2.5	lb ai/a lb ae/a % v/v	25 32 2.5	fl oz/a fl oz/a % v/v	PRE 4-6"W 4-6"W	A B B	8.2 a	59.1 a	51 cde
10	BROADAXE XC FLEXSTAR GT 3.5 MSO (MSO ULTRA) N-PAK AMS	7 2.82 100 100	SC SL SL SL	1.37 1.23 1 2.5	lb ai/a lb ae/a % v/v % v/v	25 3.5 1 2.5	fl oz/a pt/a % v/v % v/v	PRE 4-6"W 4-6"W 4-6"W	A B B B	7.9 a	59.3 a	52 b-e
11	BROADAXE XC PREFIX TOUCHDOWN TOTAL N-PAK AMS	7 5.29 4.17 100	SC EC SL SL	1.75 1.32 1.04 2.5	lb ai/a lb ai/a lb ae/a % v/v	32 2 32 2.5	fl oz/a pt/a fl oz/a % v/v	PRE 4-6"W 4-6"W 4-6"W	A B B B	8.4 a	58.9 a	50 c-f
12	BOUNDARY FLEXSTAR GT 3.5 MSO (MSO ULTRA) N-PAK AMS	6.5 2.82 100 100	EC SL SL SL	1.63 1.23 1 2.5	lb ai/a lb ae/a % v/v % v/v	2 3.5 1 2.5	pt/a pt/a % v/v % v/v	PRE 4-6"W 4-6"W 4-6"W	A B B B	7.9 a	59.3 a	66 a
13	PREFIX TOUCHDOWN TOTAL N-PAK AMS	5.29 4.17 100	EC SL SL	1.65 1.04 2.5	lb ai/a lb ae/a % v/v	2.5 32 2.5	pt/a fl oz/a % v/v	PRE 4-6"W 4-6"W	A B B	8.6 a	58.8 a	63 abc

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

Could not calculate LSD (% mean diff) for columns 28 because error mean square = 0.

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Pest Code								GLXMA	GLXMA	GLXMA
Crop Code								10-20-15	10-20-15	10-20-15
Rating Date								Moisture	Test wt.	Yield
Rating Type								Percent	lb/bu	bu/A
Rating Unit										
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	
14	ENVIVE	41.3	WG	0.09	lb ai/a	3.5	oz/a	PRE	A	8.0 a
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B	59.2 a
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B	43 efg
15	ROWEL FX	40.3	WG	0.088	lb ai/a	3.5	oz/a	PRE	A	8.4 a
	WARRANT	3	CS	1.13	lb ai/a	3	pt/a	V2	C	58.9 a
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V2	C	46 d-g
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V2	C	
16	NONTREATED									7.9 a
										59.2 a
										37 fgh
	LSD P=.05									0.96
	Standard Deviation									0.67
	CV									8.16
	Replicate F									0.437
	Replicate Prob(F)									0.7278
	Treatment F									0.5403
	Treatment Prob(F)									0.0019
										1.193
										1.380
										6.710
										0.3232
										0.2126
										0.0001

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Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	GLXMA 6-27-15 Stunt Percent	GLXMA 7-11-15 Stunt Percent 5 DA-C	GLXMA 7-29-15 Stunt Percent 23 DA-C	GLXMA 8-12-15 Stunt Percent 37 DA-C	GLXMA 9-9-15 Stunt Percent 65 DA-C
							14 DA-A	28 DA-A	14 DA-B	28 DA-B	56 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code		
1	SONIC DURANGO DMA N-PAK AMS	70 4 100	WG SL SL	0.197 1 2.5	lb ai/a lb ae/a % v/v	4.5 32 2.5	oz/a fl oz/a % v/v	PRE 4-6" 4-6"	A W B W B	13 b	3 fg 0 g 0 e 0 d
2	SONIC DURANGO DMA N-PAK AMS	70 4 100	WG SL SL	0.263 1 2.5	lb ai/a lb ae/a % v/v	6 32 2.5	oz/a fl oz/a % v/v	PRE 4-6" 4-6"	A W B W B	20 b	10 ef 3 fg 3 de 0 d
3	SONIC FIRSTRATE DURANGO DMA N-PAK AMS	70 84 4 100	WG WG SL SL	0.131 0.0158 1 2.5	lb ai/a lb ai/a lb ae/a % v/v	3 0.3 32 2.5	oz/a oz/a fl oz/a % v/v	PRE 4-6" 4-6" 4-6"	A W B W B W B	3 b	3 fg 0 g 0 e 0 d
4	SURVEIL DURANGO DMA N-PAK AMS	48 4 100	WG SL SL	0.126 1 2.5	lb ai/a lb ae/a % v/v	4.2 32 2.5	oz/a fl oz/a % v/v	PRE 4-6" 4-6"	A W B W B	70 a	40 a 33 ab 28 b 12 b
5	VALOR XLT ROUNDUP POWERMAX N-PAK AMS	40.3 4.5 100	WG SL SL	0.088 1.13 2.5	lb ai/a lb ae/a % v/v	3.5 32 2.5	oz/a fl oz/a % v/v	PRE 4-6" 4-6"	A W B W B	22 b	28 b 28 bc 25 b 12 b
6	FIERCE XLT ROUNDUP POWERMAX N-PAK AMS	62.41 4.5 100	WG SL SL	0.176 1.13 2.5	lb ai/a lb ae/a % v/v	4.5 32 2.5	oz/a fl oz/a % v/v	PRE 4-6" 4-6"	A W B W B	80 a	45 a 43 a 40 a 20 a
7	AUTHORITY XL ROUNDUP POWERMAX N-PAK AMS	70 4.5 100	WG SL SL	0.28 1.13 2.5	lb ai/a lb ae/a % v/v	6.4 32 2.5	oz/a fl oz/a % v/v	PRE 4-6" 4-6"	A W B W B	13 b	20 bcd 20 cde 13 cd 5 c
8	AUTHORITY MAXX ROUNDUP POWERMAX N-PAK AMS	66 4.5 100	WG SL SL	0.264 1.13 2.5	lb ai/a lb ae/a % v/v	6.4 32 2.5	oz/a fl oz/a % v/v	PRE 4-6" 4-6"	A W B W B	25 b	13 cde 12 def 10 cde 0 d
9	BROADAXE XC TOUCHDOWN TOTAL N-PAK AMS	7 4.17 100	SC SL SL	1.37 1.04 2.5	lb ai/a lb ae/a % v/v	25 32 2.5	fl oz/a fl oz/a % v/v	PRE 4-6" 4-6"	A W B W B	18 b	3 fg 5 fg 3 de 0 d
10	BROADAXE XC FLEXSTAR GT 3.5 MSO (MSO ULTRA) N-PAK AMS	7 2.82 100 100	SC SL SL SL	1.37 1.23 1 2.5	lb ai/a lb ae/a % v/v % v/v	25 3.5 1 2.5	fl oz/a pt/a % v/v % v/v	PRE 4-6" 4-6" 4-6"	A W B W B W B	12 b	3 fg 3 fg 3 de 0 d
11	BROADAXE XC PREFIX TOUCHDOWN TOTAL N-PAK AMS	7 5.29 4.17 100	SC EC SL SL	1.75 1.32 1.04 2.5	lb ai/a lb ai/a lb ae/a % v/v	32 2 32 2.5	fl oz/a pt/a fl oz/a % v/v	PRE 4-6" 4-6" 4-6"	A W B W B W B	15 b	12 def 10 efg 10 cde 0 d
12	BOUNDARY FLEXSTAR GT 3.5 MSO (MSO ULTRA) N-PAK AMS	6.5 2.82 100 100	EC SL SL SL	1.63 1.23 1 2.5	lb ai/a lb ae/a % v/v % v/v	2 3.5 1 2.5	pt/a pt/a % v/v % v/v	PRE 4-6" 4-6" 4-6"	A W B W B W B	7 b	0 g 0 g 0 e 0 d
13	PREFIX TOUCHDOWN TOTAL N-PAK AMS	5.29 4.17 100	EC SL SL	1.65 1.04 2.5	lb ai/a lb ae/a % v/v	2.5 32 2.5	pt/a fl oz/a % v/v	PRE 4-6" 4-6"	A W B W B	10 b	0 g 0 g 0 e 0 d

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Pest Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA										
Crop Code	6-27-15	7-11-15	7-29-15	8-12-15	9-9-15										
Rating Date	Stunt	Stunt	Stunt	Stunt	Stunt										
Rating Type	Percent	Percent	Percent	Percent	Percent										
Rating Unit	5 DA-C	5 DA-C	23 DA-C	37 DA-C	65 DA-C										
Rating Timing															
Trt-Eval Interval	14 DA-A	28 DA-A	14 DA-B	28 DA-B	56 DA-B										
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Rate	Unit	Growth Stage	Appl Code					
14	ENVIVE	41.3	WG	0.09	lb ai/a	3.5	oz/a		PRE	A	15 b	22 bc	22 cd	20 bc	10 b
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a		4-6"W	B					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v		4-6"W	B					
15	ROWEL FX	40.3	WG	0.088	lb ai/a	3.5	oz/a		PRE	A	15 b	28 b	23 bc	12 cd	12 b
	WARRANT	3	CS	1.13	lb ai/a	3	pt/a		V2	C					
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a		V2	C					
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v		V2	C					
16	NONTREATED										0	0	0	0	0
LSD P=.05						23.2					9.6	11.5	10.4	4.9	
Standard Deviation						13.9					5.7	6.9	6.2	2.9	
CV						61.53					37.02	50.63	55.65	62.74	
Replicate F						1.938					0.527	0.153	0.100	0.583	
Replicate Prob(F)						0.1629					0.5963	0.8586	0.9054	0.5647	
Treatment F						7.562					19.532	12.431	11.459	15.167	
Treatment Prob(F)						0.0001					0.0001	0.0001	0.0001	0.0001	



Weed Control With Sonic and Surveil Followed by Durango DMA.

Trial ID: 15-51E-N120 Location: Belleville Res. Center Trial Year: 2015  
Investigator: Ronald F. Krausz

Pest Code							GLXMA		
Crop Code							6-27-15		
Rating Date							STDRED		
Rating Type							Percent		
Rating Unit									
Rating Timing									
Trt-Eval Interval							14 DA-A		
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Rate	Other Rate Unit	Growth Stage	Appl Code	
1	SONIC	70	WG	0.197 lb ai/a	4.5 oz/a		PRE	A	12 cd
	DURANGO DMA	4	SL	1 lb ae/a	32 fl oz/a		4-6"W	B	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W	B	
2	SONIC	70	WG	0.263 lb ai/a	6 oz/a		PRE	A	17 cd
	DURANGO DMA	4	SL	1 lb ae/a	32 fl oz/a		4-6"W	B	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W	B	
3	SONIC	70	WG	0.131 lb ai/a	3 oz/a		PRE	A	8 d
	FIRSTRATE	84	WG	0.0158 lb ai/a	0.3 oz/a		4-6"W	B	
	DURANGO DMA	4	SL	1 lb ae/a	32 fl oz/a		4-6"W	B	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W	B	
4	SURVEIL	48	WG	0.126 lb ai/a	4.2 oz/a		PRE	A	96 a
	DURANGO DMA	4	SL	1 lb ae/a	32 fl oz/a		4-6"W	B	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W	B	
5	VALOR XLT	40.3	WG	0.088 lb ai/a	3.5 oz/a		PRE	A	67 ab
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W	B	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W	B	
6	FIERCE XLT	62.41	WG	0.176 lb ai/a	4.5 oz/a		PRE	A	95 a
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W	B	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W	B	
7	AUTHORITY XL	70	WG	0.28 lb ai/a	6.4 oz/a		PRE	A	63 ab
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W	B	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W	B	
8	AUTHORITY MAXX	66	WG	0.264 lb ai/a	6.4 oz/a		PRE	A	38 bcd
	ROUNDUP POWERMAX	4.5	SL	1.13 lb ae/a	32 fl oz/a		4-6"W	B	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W	B	
9	BROADAXE XC	7	SC	1.37 lb ai/a	25 fl oz/a		PRE	A	47 bc
	TOUCHDOWN TOTAL	4.17	SL	1.04 lb ae/a	32 fl oz/a		4-6"W	B	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W	B	
10	BROADAXE XC	7	SC	1.37 lb ai/a	25 fl oz/a		PRE	A	37 bcd
	FLEXSTAR GT 3.5	2.82	SL	1.23 lb ae/a	3.5 pt/a		4-6"W	B	
	MSO (MSO ULTRA)	100	SL	1 % v/v	1 % v/v		4-6"W	B	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W	B	
11	BROADAXE XC	7	SC	1.75 lb ai/a	32 fl oz/a		PRE	A	57 b
	PREFIX	5.29	EC	1.32 lb ai/a	2 pt/a		4-6"W	B	
	TOUCHDOWN TOTAL	4.17	SL	1.04 lb ae/a	32 fl oz/a		4-6"W	B	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W	B	
12	BOUNDARY	6.5	EC	1.63 lb ai/a	2 pt/a		PRE	A	7 d
	FLEXSTAR GT 3.5	2.82	SL	1.23 lb ae/a	3.5 pt/a		4-6"W	B	
	MSO (MSO ULTRA)	100	SL	1 % v/v	1 % v/v		4-6"W	B	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W	B	
13	PREFIX	5.29	EC	1.65 lb ai/a	2.5 pt/a		PRE	A	8 d
	TOUCHDOWN TOTAL	4.17	SL	1.04 lb ae/a	32 fl oz/a		4-6"W	B	
	N-PAK AMS	100	SL	2.5 % v/v	2.5 % v/v		4-6"W	B	

Weed Control With Sonic and Surveil Followed by Durango DMA.

Trial ID: 15-51E-N120 Location: Belleville Res. Center Trial Year: 2015  
Investigator: Ronald F. Krausz

Pest Code										GLXMA
Crop Code										6-27-15
Rating Date										STDRED
Rating Type										Percent
Rating Unit										
Rating Timing										
Trt-Eval Interval										14 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	
14	ENVIVE	41.3	WG	0.09	lb ai/a	3.5	oz/a	PRE	A	63 ab
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B	
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B	
15	ROWEL FX	40.3	WG	0.088	lb ai/a	3.5	oz/a	PRE	A	67 ab
	WARRANT	3	CS	1.13	lb ai/a	3	pt/a	V2	C	
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V2	C	
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V2	C	
16	NONTREATED									0
LSD P=.05										36.8
Standard Deviation										22.0
CV										48.44
Replicate F										11.890
Replicate Prob(F)										0.0002
Treatment F										5.768
Treatment Prob(F)										0.0001

## Weed Control With Sonic and Surveil Followed by Durango DMA.

Trial ID: 15-51E-N120 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	AMBTR	AMBTR	AMBTR			
							6-27-15 Control Percent	7-6-15 Control Percent 23 DA-A	7-11-15 Control Percent 5 DA-C	7-15-15 Control Percent 9 DA-C	7-29-15 Control Percent 23 DA-C	8-12-15 Control Percent 37 DA-C			
							14 DA-A	0 DA-C	28 DA-A	0 DA-B	14 DA-B	28 DA-B			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
1	SONIC DURANGO DMA N-PAK AMS	70 4 100	WG SL SL	0.197 1 2.5	lb ai/a lb ae/a % v/v	4.5 32 2.5	oz/a fl oz/a % v/v	PRE 4-6" 4-6"	A W W	96 a-d	96 a-d	94 abc	94 abc	99 a	97 a
2	SONIC DURANGO DMA N-PAK AMS	70 4 100	WG SL SL	0.263 1 2.5	lb ai/a lb ae/a % v/v	6 32 2.5	oz/a fl oz/a % v/v	PRE 4-6" 4-6"	A W W	96 a-d	96 a-d	94 abc	94 abc	99 a	93 a
3	SONIC FIRSTRATE DURANGO DMA N-PAK AMS	70 84 4 100	WG WG SL SL	0.131 0.0158 1 2.5	lb ai/a lb ai/a lb ae/a % v/v	3 0.3 32 2.5	oz/a oz/a fl oz/a % v/v	PRE 4-6" 4-6" 4-6"	A W W W	98 abc	98 abc	93 abc	93 abc	99 a	99 a
4	SURVEIL DURANGO DMA N-PAK AMS	48 4 100	WG SL SL	0.126 1 2.5	lb ai/a lb ae/a % v/v	4.2 32 2.5	oz/a fl oz/a % v/v	PRE 4-6" 4-6"	A W W	99 a	99 a	99 a	99 a	99 a	90 a
5	VALOR XLT ROUNDUP POWERMAX N-PAK AMS	40.3 4.5 100	WG SL SL	0.088 1.13 2.5	lb ai/a lb ae/a % v/v	3.5 32 2.5	oz/a fl oz/a % v/v	PRE 4-6" 4-6"	A W W	99 a	99 a	99 a	99 a	99 a	90 a
6	FIERCE XLT ROUNDUP POWERMAX N-PAK AMS	62.41 4.5 100	WG SL SL	0.176 1.13 2.5	lb ai/a lb ae/a % v/v	4.5 32 2.5	oz/a fl oz/a % v/v	PRE 4-6" 4-6"	A W W	99 a	99 a	98 ab	98 ab	99 a	60 a
7	AUTHORITY XL ROUNDUP POWERMAX N-PAK AMS	70 4.5 100	WG SL SL	0.28 1.13 2.5	lb ai/a lb ae/a % v/v	6.4 32 2.5	oz/a fl oz/a % v/v	PRE 4-6" 4-6"	A W W	98 ab	98 ab	96 ab	96 ab	99 a	89 a
8	AUTHORITY MAXX ROUNDUP POWERMAX N-PAK AMS	66 4.5 100	WG SL SL	0.264 1.13 2.5	lb ai/a lb ae/a % v/v	6.4 32 2.5	oz/a fl oz/a % v/v	PRE 4-6" 4-6"	A W W	94 a-d	94 a-d	90 bcd	90 bcd	99 a	62 a
9	BROADAXE XC TOUCHDOWN TOTAL N-PAK AMS	7 4.17 100	SC SL SL	1.37 1.04 2.5	lb ai/a lb ae/a % v/v	25 32 2.5	fl oz/a fl oz/a % v/v	PRE 4-6" 4-6"	A W W	92 d	92 d	85 de	85 de	99 a	90 a
10	BROADAXE XC FLEXSTAR GT 3.5 MSO (MSO ULTRA) N-PAK AMS	7 2.82 100 100	SC SL SL SL	1.37 1.23 1 2.5	lb ai/a lb ae/a % v/v % v/v	25 3.5 1 2.5	fl oz/a pt/a % v/v % v/v	PRE 4-6" 4-6" 4-6"	A W W W	92 d	92 d	82 e	82 e	99 a	96 a
11	BROADAXE XC PREFIX TOUCHDOWN TOTAL N-PAK AMS	7 5.29 4.17 100	SC EC SL SL	1.75 1.32 1.04 2.5	lb ai/a lb ai/a lb ae/a % v/v	32 2 32 2.5	fl oz/a pt/a fl oz/a % v/v	PRE 4-6" 4-6" 4-6"	A W W W	94 a-d	94 a-d	85 de	85 de	99 a	95 a
12	BOUNDARY FLEXSTAR GT 3.5 MSO (MSO ULTRA) N-PAK AMS	6.5 2.82 100 100	EC SL SL SL	1.63 1.23 1 2.5	lb ai/a lb ae/a % v/v % v/v	2 3.5 1 2.5	pt/a pt/a % v/v % v/v	PRE 4-6" 4-6" 4-6"	A W W W	93 bcd	93 bcd	87 cde	87 cde	99 a	99 a
13	PREFIX TOUCHDOWN TOTAL N-PAK AMS	5.29 4.17 100	EC SL SL	1.65 1.04 2.5	lb ai/a lb ae/a % v/v	2.5 32 2.5	pt/a fl oz/a % v/v	PRE 4-6" 4-6"	A W W	93 cd	93 cd	84 de	84 de	99 a	93 a

Weed Control With Sonic and Surveil Followed by Durango DMA.

Trial ID: 15-51E-N120 Location: Belleville Res. Center Trial Year: 2015  
 Investigator: Ronald F. Krausz

Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR	AMBTR
						6-27-15 Control Percent	7-6-15 Control Percent 23 DA-A	7-11-15 Control Percent 5 DA-C	7-15-15 Control Percent 9 DA-C	7-29-15 Control Percent 23 DA-C	8-12-15 Control Percent 37 DA-C
Trt-Eval Interval						14 DA-A	0 DA-C	28 DA-A	0 DA-B	14 DA-B	28 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Rate	Unit	Growth Stage	Appl Code	
14	ENVIVE	41.3	WG	0.09	lb ai/a	3.5	oz/a		PRE	A	99 a
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a		4-6"W	B	99 a
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v		4-6"W	B	80 a
15	ROWEL FX	40.3	WG	0.088	lb ai/a	3.5	oz/a		PRE	A	99 a
	WARRANT	3	CS	1.13	lb ai/a	3	pt/a		V2	C	99 a
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a		V2	C	99 a
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v		V2	C	90 b
16	NONTREATED										0
LSD P=.05						5.3	5.3	8.1	8.1	2.2	33.1
Standard Deviation						3.1	3.1	4.8	4.8	1.3	19.8
CV						3.27	3.27	5.22	5.22	1.31	22.43
Replicate F						0.702	0.702	0.673	0.673	1.000	2.508
Replicate Prob(F)						0.5041	0.5041	0.5183	0.5183	0.3806	0.0996
Treatment F						2.455	2.455	4.993	4.993	9.720	1.121
Treatment Prob(F)						0.0209	0.0209	0.0001	0.0001	0.0001	0.3831

## Weed Control With Sonic and Surveil Followed by Durango DMA.

Trial ID: 15-51E-N120 Location: Belleville Res. Center Trial Year: 2015  
Investigator: Ronald F. Krausz

Pest Code							AMBTR			
Crop Code										
Rating Date							9-9-15			
Rating Type							Control			
Rating Unit							Percent			
Rating Timing							65 DA-C			
Trt-Eval Interval							56 DA-B			
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	
1	SONIC	70	WG	0.197	lb ai/a	4.5	oz/a	PRE	A	97 a
	DURANGO DMA	4	SL	1	lb ae/a	32	fl oz/a	4-6"W	B	
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B	
2	SONIC	70	WG	0.263	lb ai/a	6	oz/a	PRE	A	93 a
	DURANGO DMA	4	SL	1	lb ae/a	32	fl oz/a	4-6"W	B	
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B	
3	SONIC	70	WG	0.131	lb ai/a	3	oz/a	PRE	A	99 a
	FIRSTRATE	84	WG	0.0158	lb ai/a	0.3	oz/a	4-6"W	B	
	DURANGO DMA	4	SL	1	lb ae/a	32	fl oz/a	4-6"W	B	
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B	
4	SURVEIL	48	WG	0.126	lb ai/a	4.2	oz/a	PRE	A	87 a
	DURANGO DMA	4	SL	1	lb ae/a	32	fl oz/a	4-6"W	B	
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B	
5	VALOR XLT	40.3	WG	0.088	lb ai/a	3.5	oz/a	PRE	A	87 a
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	4-6"W	B	
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B	
6	FIERCE XLT	62.41	WG	0.176	lb ai/a	4.5	oz/a	PRE	A	60 a
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	4-6"W	B	
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B	
7	AUTHORITY XL	70	WG	0.28	lb ai/a	6.4	oz/a	PRE	A	89 a
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	4-6"W	B	
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B	
8	AUTHORITY MAXX	66	WG	0.264	lb ai/a	6.4	oz/a	PRE	A	62 a
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	4-6"W	B	
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B	
9	BROADAXE XC	7	SC	1.37	lb ai/a	25	fl oz/a	PRE	A	88 a
	TOUCHDOWN TOTAL	4.17	SL	1.04	lb ae/a	32	fl oz/a	4-6"W	B	
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B	
10	BROADAXE XC	7	SC	1.37	lb ai/a	25	fl oz/a	PRE	A	94 a
	FLEXSTAR GT 3.5	2.82	SL	1.23	lb ae/a	3.5	pt/a	4-6"W	B	
	MSO (MSO ULTRA)	100	SL	1	% v/v	1	% v/v	4-6"W	B	
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B	
11	BROADAXE XC	7	SC	1.75	lb ai/a	32	fl oz/a	PRE	A	93 a
	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	4-6"W	B	
	TOUCHDOWN TOTAL	4.17	SL	1.04	lb ae/a	32	fl oz/a	4-6"W	B	
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B	
12	BOUNDARY	6.5	EC	1.63	lb ai/a	2	pt/a	PRE	A	99 a
	FLEXSTAR GT 3.5	2.82	SL	1.23	lb ae/a	3.5	pt/a	4-6"W	B	
	MSO (MSO ULTRA)	100	SL	1	% v/v	1	% v/v	4-6"W	B	
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B	
13	PREFIX	5.29	EC	1.65	lb ai/a	2.5	pt/a	PRE	A	93 a
	TOUCHDOWN TOTAL	4.17	SL	1.04	lb ae/a	32	fl oz/a	4-6"W	B	
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B	

Weed Control With Sonic and Surveil Followed by Durango DMA.

Trial ID: 15-51E-N120 Location: Belleville Res. Center Trial Year: 2015  
 Investigator: Ronald F. Krausz

Pest Code								AMBTR		
Crop Code										
Rating Date								9-9-15		
Rating Type								Control		
Rating Unit								Percent		
Rating Timing								65 DA-C		
Trt-Eval Interval								56 DA-B		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	
14	ENVIVE	41.3	WG	0.09	lb ai/a	3.5	oz/a	PRE	A	80 a
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B	
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B	
15	ROWEL FX	40.3	WG	0.088	lb ai/a	3.5	oz/a	PRE	A	90 a
	WARRANT	3	CS	1.13	lb ai/a	3	pt/a	V2	C	
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V2	C	
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V2	C	
16	NONTREATED								0	
LSD P=.05								32.5		
Standard Deviation								19.4		
CV								22.23		
Replicate F								3.488		
Replicate Prob(F)								0.0444		
Treatment F								1.125		
Treatment Prob(F)								0.3805		

## Weed Control With Sonic and Surveil Followed by Durango DMA.

Trial ID: 15-51E-N120 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	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH	ABUTH	
							6-27-15 Control Percent	7-6-15 Control Percent 23 DA-A	7-11-15 Control Percent 5 DA-C	7-15-15 Control Percent 9 DA-C	7-29-15 Control Percent 23 DA-C	8-12-15 Control Percent 37 DA-C	
							14 DA-A	0 DA-C	28 DA-A	0 DA-B	14 DA-B	28 DA-B	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code				
1	SONIC DURANGO DMA N-PAK AMS	70 4 100	WG SL SL	0.197 1 2.5	lb ai/a lb ae/a % v/v	4.5 32 2.5	oz/a fl oz/a % v/v	PRE 4-6" 4-6"	A W B W B	99 a	99 a	99 a	99 a
2	SONIC DURANGO DMA N-PAK AMS	70 4 100	WG SL SL	0.263 1 2.5	lb ai/a lb ae/a % v/v	6 32 2.5	oz/a fl oz/a % v/v	PRE 4-6" 4-6"	A W B W B	99 a	99 a	99 a	94 a
3	SONIC FIRSTRATE DURANGO DMA N-PAK AMS	70 84 4 100	WG WG SL SL	0.131 0.0158 1 2.5	lb ai/a lb ai/a lb ae/a % v/v	3 0.3 32 2.5	oz/a oz/a fl oz/a % v/v	PRE 4-6" 4-6" 4-6"	A W B W B W B	99 a	99 a	99 a	99 a
4	SURVEIL DURANGO DMA N-PAK AMS	48 4 100	WG SL SL	0.126 1 2.5	lb ai/a lb ae/a % v/v	4.2 32 2.5	oz/a fl oz/a % v/v	PRE 4-6" 4-6"	A W B W B	99 a	99 a	99 a	85 a
5	VALOR XLT ROUNDUP POWERMAX N-PAK AMS	40.3 4.5 100	WG SL SL	0.088 1.13 2.5	lb ai/a lb ae/a % v/v	3.5 32 2.5	oz/a fl oz/a % v/v	PRE 4-6" 4-6"	A W B W B	99 a	99 a	99 a	93 a
6	FIERCE XLT ROUNDUP POWERMAX N-PAK AMS	62.41 4.5 100	WG SL SL	0.176 1.13 2.5	lb ai/a lb ae/a % v/v	4.5 32 2.5	oz/a fl oz/a % v/v	PRE 4-6" 4-6"	A W B W B	99 a	99 a	99 a	87 a
7	AUTHORITY XL ROUNDUP POWERMAX N-PAK AMS	70 4.5 100	WG SL SL	0.28 1.13 2.5	lb ai/a lb ae/a % v/v	6.4 32 2.5	oz/a fl oz/a % v/v	PRE 4-6" 4-6"	A W B W B	99 a	99 a	99 a	92 a
8	AUTHORITY MAXX ROUNDUP POWERMAX N-PAK AMS	66 4.5 100	WG SL SL	0.264 1.13 2.5	lb ai/a lb ae/a % v/v	6.4 32 2.5	oz/a fl oz/a % v/v	PRE 4-6" 4-6"	A W B W B	99 a	99 a	99 a	91 a
9	BROADAXE XC TOUCHDOWN TOTAL N-PAK AMS	7 4.17 100	SC SL SL	1.37 1.04 2.5	lb ai/a lb ae/a % v/v	25 32 2.5	fl oz/a fl oz/a % v/v	PRE 4-6" 4-6"	A W B W B	99 a	99 a	99 a	94 a
10	BROADAXE XC FLEXSTAR GT 3.5 MSO (MSO ULTRA) N-PAK AMS	7 2.82 100 100	SC SL SL SL	1.37 1.23 1 2.5	lb ai/a lb ae/a % v/v % v/v	25 3.5 1 2.5	fl oz/a pt/a % v/v % v/v	PRE 4-6" 4-6" 4-6"	A W B W B W B	99 a	99 a	99 a	91 a
11	BROADAXE XC PREFIX TOUCHDOWN TOTAL N-PAK AMS	7 5.29 4.17 100	SC EC SL SL	1.37 1.32 1.04 2.5	lb ai/a lb ai/a lb ae/a % v/v	25 2 32 2.5	fl oz/a pt/a fl oz/a % v/v	PRE 4-6" 4-6" 4-6"	A W B W B W B	99 a	99 a	99 a	86 a
12	BOUNDARY FLEXSTAR GT 3.5 MSO (MSO ULTRA) N-PAK AMS	6.5 2.82 100 100	EC SL SL SL	1.63 1.23 1 2.5	lb ai/a lb ae/a % v/v % v/v	2 3.5 1 2.5	pt/a pt/a % v/v % v/v	PRE 4-6" 4-6" 4-6"	A W B W B W B	95 a	95 a	99 a	99 a
13	PREFIX TOUCHDOWN TOTAL N-PAK AMS	5.29 4.17 100	EC SL SL	1.65 1.04 2.5	lb ai/a lb ae/a % v/v	2.5 32 2.5	pt/a fl oz/a % v/v	PRE 4-6" 4-6"	A W B W B	96 a	96 a	96 a	96 a

Weed Control With Sonic and Surveil Followed by Durango DMA.

Trial ID: 15-51E-N120 Location: Belleville Res. Center Trial Year: 2015  
 Investigator: Ronald F. Krausz

Pest Code	ABUTH																						
Crop Code	ABUTH																						
Rating Date	6-27-15	7-6-15	7-11-15	7-15-15	7-29-15	8-12-15																	
Rating Type	Control	Control	Control	Control	Control	Control																	
Rating Unit	Percent	Percent	Percent	Percent	Percent	Percent																	
Rating Timing	23 DA-A	23 DA-A	5 DA-C	9 DA-C	23 DA-C	37 DA-C																	
Trt-Eval Interval	14 DA-A	0 DA-C	28 DA-A	0 DA-B	14 DA-B	28 DA-B																	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Rate	Unit	Growth Stage	Appl Code													
14	ENVIVE	41.3	WG	0.09	lb ai/a	3.5	oz/a		PRE	A	97 a	97 a	99 a	99 a	99 a	91 a							
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a		4-6"W	B													
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v		4-6"W	B													
15	ROWEL FX	40.3	WG	0.088	lb ai/a	3.5	oz/a		PRE	A	98 a	98 a	99 a	99 a	87 b	87 a							
	WARRANT	3	CS	1.13	lb ai/a	3	pt/a		V2	C													
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a		V2	C													
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v		V2	C													
16	NONTREATED											0	0	0	0	0	0						
LSD P=.05											3.2	3.2	2.2	2.2	2.5	10.4							
Standard Deviation											1.9	1.9	1.3	1.3	1.5	6.2							
CV											1.93	1.93	1.36	1.36	1.52	6.76							
Replicate F											1.882	1.882	1.000	1.000	1.000	5.384							
Replicate Prob(F)											0.1710	0.1710	0.3806	0.3806	0.3806	0.0105							
Treatment F											1.506	1.506	1.000	1.000	13.690	1.714							
Treatment Prob(F)											0.1731	0.1731	0.4793	0.4793	0.0001	0.1095							



## Weed Control With Sonic and Surveil Followed by Durango DMA.

Trial ID: 15-51E-N120 Location: Belleville Res. Center Trial Year: 2015  
Investigator: Ronald F. Krausz

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	
Pest Code										ABUTH
Crop Code										
Rating Date										9-9-15
Rating Type										Control
Rating Unit										Percent
Rating Timing										65 DA-C
Trt-Eval Interval										56 DA-B
1	SONIC	70	WG	0.197	lb ai/a	4.5	oz/a	PRE	A	99 a
	DURANGO DMA	4	SL	1	lb ae/a	32	fl oz/a	4-6"W	B	
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B	
2	SONIC	70	WG	0.263	lb ai/a	6	oz/a	PRE	A	94 a
	DURANGO DMA	4	SL	1	lb ae/a	32	fl oz/a	4-6"W	B	
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B	
3	SONIC	70	WG	0.131	lb ai/a	3	oz/a	PRE	A	99 a
	FIRSTRATE	84	WG	0.0158	lb ai/a	0.3	oz/a	4-6"W	B	
	DURANGO DMA	4	SL	1	lb ae/a	32	fl oz/a	4-6"W	B	
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B	
4	SURVEIL	48	WG	0.126	lb ai/a	4.2	oz/a	PRE	A	85 a
	DURANGO DMA	4	SL	1	lb ae/a	32	fl oz/a	4-6"W	B	
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B	
5	VALOR XLT	40.3	WG	0.088	lb ai/a	3.5	oz/a	PRE	A	93 a
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	4-6"W	B	
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B	
6	FIERCE XLT	62.41	WG	0.176	lb ai/a	4.5	oz/a	PRE	A	87 a
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	4-6"W	B	
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B	
7	AUTHORITY XL	70	WG	0.28	lb ai/a	6.4	oz/a	PRE	A	92 a
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	4-6"W	B	
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B	
8	AUTHORITY MAXX	66	WG	0.264	lb ai/a	6.4	oz/a	PRE	A	91 a
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	4-6"W	B	
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B	
9	BROADAXE XC	7	SC	1.37	lb ai/a	25	fl oz/a	PRE	A	94 a
	TOUCHDOWN TOTAL	4.17	SL	1.04	lb ae/a	32	fl oz/a	4-6"W	B	
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B	
10	BROADAXE XC	7	SC	1.37	lb ai/a	25	fl oz/a	PRE	A	91 a
	FLEXSTAR GT 3.5	2.82	SL	1.23	lb ae/a	3.5	pt/a	4-6"W	B	
	MSO (MSO ULTRA)	100	SL	1	% v/v	1	% v/v	4-6"W	B	
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B	
11	BROADAXE XC	7	SC	1.75	lb ai/a	32	fl oz/a	PRE	A	86 a
	PREFIX	5.29	EC	1.32	lb ai/a	2	pt/a	4-6"W	B	
	TOUCHDOWN TOTAL	4.17	SL	1.04	lb ae/a	32	fl oz/a	4-6"W	B	
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B	
12	BOUNDARY	6.5	EC	1.63	lb ai/a	2	pt/a	PRE	A	99 a
	FLEXSTAR GT 3.5	2.82	SL	1.23	lb ae/a	3.5	pt/a	4-6"W	B	
	MSO (MSO ULTRA)	100	SL	1	% v/v	1	% v/v	4-6"W	B	
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B	
13	PREFIX	5.29	EC	1.65	lb ai/a	2.5	pt/a	PRE	A	96 a
	TOUCHDOWN TOTAL	4.17	SL	1.04	lb ae/a	32	fl oz/a	4-6"W	B	
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B	

Weed Control With Sonic and Surveil Followed by Durango DMA.

Trial ID: 15-51E-N120 Location: Belleville Res. Center Trial Year: 2015  
 Investigator: Ronald F. Krausz

Pest Code									ABUTH	
Crop Code										
Rating Date									9-9-15	
Rating Type									Control	
Rating Unit									Percent	
Rating Timing									65 DA-C	
Trt-Eval Interval									56 DA-B	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	
14	ENVIVE	41.3	WG	0.09	lb ai/a	3.5	oz/a	PRE	A	91 a
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B	
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B	
15	ROWEL FX	40.3	WG	0.088	lb ai/a	3.5	oz/a	PRE	A	87 a
	WARRANT	3	CS	1.13	lb ai/a	3	pt/a	V2	C	
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V2	C	
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V2	C	
16	NONTREATED									0
LSD P=.05									10.4	
Standard Deviation									6.2	
CV									6.76	
Replicate F									5.384	
Replicate Prob(F)									0.0105	
Treatment F									1.714	
Treatment Prob(F)									0.1095	

## Weed Control With Sonic and Surveil Followed by Durango DMA.

Trial ID: 15-51E-N120 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	AMATA	AMATA	AMATA	AMATA	AMATA	
							7-11-15 Control Percent 5 DA-C	7-15-15 Control Percent 9 DA-C	7-29-15 Control Percent 23 DA-C	8-12-15 Control Percent 37 DA-C	9-9-15 Control Percent 65 DA-C	
							28 DA-A	0 DA-B	14 DA-B	28 DA-B	56 DA-B	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
1	SONIC DURANGO DMA N-PAK AMS	70 4 100	WG SL SL	0.197 1 2.5	lb ai/a lb ae/a % v/v	4.5 32 2.5	oz/a fl oz/a % v/v	PRE 4-6" 4-6"	A W W	99 a	99 a	99 a
2	SONIC DURANGO DMA N-PAK AMS	70 4 100	WG SL SL	0.263 1 2.5	lb ai/a lb ae/a % v/v	6 32 2.5	oz/a fl oz/a % v/v	PRE 4-6" 4-6"	A W W	99 a	99 a	99 a
3	SONIC FIRSTRATE DURANGO DMA N-PAK AMS	70 84 4 100	WG WG SL SL	0.131 0.0158 1 2.5	lb ai/a lb ai/a lb ae/a % v/v	3 0.3 32 2.5	oz/a oz/a fl oz/a % v/v	PRE 4-6" 4-6" 4-6"	A W W W	99 a	99 a	99 a
4	SURVEIL DURANGO DMA N-PAK AMS	48 4 100	WG SL SL	0.126 1 2.5	lb ai/a lb ae/a % v/v	4.2 32 2.5	oz/a fl oz/a % v/v	PRE 4-6" 4-6"	A W W	99 a	99 a	95 a
5	VALOR XLT ROUNDUP POWERMAX N-PAK AMS	40.3 4.5 100	WG SL SL	0.088 1.13 2.5	lb ai/a lb ae/a % v/v	3.5 32 2.5	oz/a fl oz/a % v/v	PRE 4-6" 4-6"	A W W	99 a	99 a	96 a
6	FIERCE XLT ROUNDUP POWERMAX N-PAK AMS	62.41 4.5 100	WG SL SL	0.176 1.13 2.5	lb ai/a lb ae/a % v/v	4.5 32 2.5	oz/a fl oz/a % v/v	PRE 4-6" 4-6"	A W W	99 a	99 a	99 a
7	AUTHORITY XL ROUNDUP POWERMAX N-PAK AMS	70 4.5 100	WG SL SL	0.28 1.13 2.5	lb ai/a lb ae/a % v/v	6.4 32 2.5	oz/a fl oz/a % v/v	PRE 4-6" 4-6"	A W W	98 a	98 a	99 a
8	AUTHORITY MAXX ROUNDUP POWERMAX N-PAK AMS	66 4.5 100	WG SL SL	0.264 1.13 2.5	lb ai/a lb ae/a % v/v	6.4 32 2.5	oz/a fl oz/a % v/v	PRE 4-6" 4-6"	A W W	99 a	99 a	98 a
9	BROADAXE XC TOUCHDOWN TOTAL N-PAK AMS	7 4.17 100	SC SL SL	1.37 1.04 2.5	lb ai/a lb ae/a % v/v	25 32 2.5	fl oz/a fl oz/a % v/v	PRE 4-6" 4-6"	A W W	99 a	99 a	99 a
10	BROADAXE XC FLEXSTAR GT 3.5 MSO (MSO ULTRA) N-PAK AMS	7 2.82 100 100	SC SL SL SL	1.37 1.23 1 2.5	lb ai/a lb ae/a % v/v % v/v	25 3.5 1 2.5	fl oz/a pt/a % v/v % v/v	PRE 4-6" 4-6" 4-6"	A W W W	99 a	99 a	99 a
11	BROADAXE XC PREFIX TOUCHDOWN TOTAL N-PAK AMS	7 5.29 4.17 100	SC EC SL SL	1.75 1.32 1.04 2.5	lb ai/a lb ai/a lb ae/a % v/v	32 2 32 2.5	fl oz/a pt/a fl oz/a % v/v	PRE 4-6" 4-6" 4-6"	A W W W	99 a	99 a	99 a
12	BOUNDARY FLEXSTAR GT 3.5 MSO (MSO ULTRA) N-PAK AMS	6.5 2.82 100 100	EC SL SL SL	1.63 1.23 1 2.5	lb ai/a lb ae/a % v/v % v/v	2 3.5 1 2.5	pt/a pt/a % v/v % v/v	PRE 4-6" 4-6" 4-6"	A W W W	99 a	99 a	99 a
13	PREFIX TOUCHDOWN TOTAL N-PAK AMS	5.29 4.17 100	EC SL SL	1.65 1.04 2.5	lb ai/a lb ae/a % v/v	2.5 32 2.5	pt/a fl oz/a % v/v	PRE 4-6" 4-6"	A W W	99 a	99 a	99 a

Weed Control With Sonic and Surveil Followed by Durango DMA.

Trial ID: 15-51E-N120 Location: Belleville Res. Center Trial Year: 2015  
 Investigator: Ronald F. Krausz

Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	AMATA	AMATA	AMATA	AMATA	AMATA											
		7-11-15	Control	Percent	5 DA-C	7-11-15	Control	Percent	9 DA-C	7-29-15	Control	Percent	23 DA-C	8-12-15	Control	Percent	37 DA-C	9-9-15	Control	Percent	65 DA-C
Trt-Eval Interval						28 DA-A	0 DA-B	14 DA-B	28 DA-B	56 DA-B											
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Rate	Unit	Growth Stage	Appl Code											
14	ENVIVE	41.3	WG	0.09	lb ai/a	3.5	oz/a		PRE	A	99 a	99 a	99 a	98 a	98 a						
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a		4-6"W	B											
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v		4-6"W	B											
15	ROWEL FX	40.3	WG	0.088	lb ai/a	3.5	oz/a		PRE	A	99 a	99 a	99 a	98 a	98 a						
	WARRANT	3	CS	1.13	lb ai/a	3	pt/a		V2	C											
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a		V2	C											
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v		V2	C											
16	NONTREATED											0	0	0	0	0					
LSD P=.05						1.0	1.0	0.2	2.8	2.8											
Standard Deviation						0.6	0.6	0.1	1.7	1.7											
CV						0.62	0.62	0.15	1.73	1.73											
Replicate F						2.154	2.154	1.000	0.376	0.376											
Replicate Prob(F)						0.1349	0.1349	0.3806	0.6902	0.6902											
Treatment F						1.000	1.000	1.000	1.641	1.641											
Treatment Prob(F)						0.4793	0.4793	0.4793	0.1287	0.1287											

## Weed Control With Sonic and Surveil Followed by Durango DMA.

Trial ID: 15-51E-N120 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	IPOHE	IPOHE	IPOHE	IPOHE	IPOHE	
							7-11-15 Control Percent 5 DA-C	7-15-15 Control Percent 9 DA-C	7-29-15 Control Percent 23 DA-C	8-12-15 Control Percent 37 DA-C	9-9-15 Control Percent 65 DA-C	
							28 DA-A	0 DA-B	14 DA-B	28 DA-B	56 DA-B	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
1	SONIC DURANGO DMA N-PAK AMS	70 4 100	WG SL SL	0.197 1 2.5	lb ai/a lb ae/a % v/v	4.5 32 2.5	oz/a fl oz/a % v/v	PRE 4-6" 4-6"	A W W	99 a	99 a	99 a
2	SONIC DURANGO DMA N-PAK AMS	70 4 100	WG SL SL	0.263 1 2.5	lb ai/a lb ae/a % v/v	6 32 2.5	oz/a fl oz/a % v/v	PRE 4-6" 4-6"	A W W	99 a	99 a	99 a
3	SONIC FIRSTRATE DURANGO DMA N-PAK AMS	70 84 4 100	WG WG SL SL	0.131 0.0158 1 2.5	lb ai/a lb ai/a lb ae/a % v/v	3 0.3 32 2.5	oz/a oz/a fl oz/a % v/v	PRE 4-6" 4-6" 4-6"	A W W W	98 a	98 a	99 a
4	SURVEIL DURANGO DMA N-PAK AMS	48 4 100	WG SL SL	0.126 1 2.5	lb ai/a lb ae/a % v/v	4.2 32 2.5	oz/a fl oz/a % v/v	PRE 4-6" 4-6"	A W W	99 a	99 a	99 a
5	VALOR XLT ROUNDUP POWERMAX N-PAK AMS	40.3 4.5 100	WG SL SL	0.088 1.13 2.5	lb ai/a lb ae/a % v/v	3.5 32 2.5	oz/a fl oz/a % v/v	PRE 4-6" 4-6"	A W W	99 a	99 a	99 a
6	FIERCE XLT ROUNDUP POWERMAX N-PAK AMS	62.41 4.5 100	WG SL SL	0.176 1.13 2.5	lb ai/a lb ae/a % v/v	4.5 32 2.5	oz/a fl oz/a % v/v	PRE 4-6" 4-6"	A W W	99 a	99 a	99 a
7	AUTHORITY XL ROUNDUP POWERMAX N-PAK AMS	70 4.5 100	WG SL SL	0.28 1.13 2.5	lb ai/a lb ae/a % v/v	6.4 32 2.5	oz/a fl oz/a % v/v	PRE 4-6" 4-6"	A W W	99 a	99 a	99 a
8	AUTHORITY MAXX ROUNDUP POWERMAX N-PAK AMS	66 4.5 100	WG SL SL	0.264 1.13 2.5	lb ai/a lb ae/a % v/v	6.4 32 2.5	oz/a fl oz/a % v/v	PRE 4-6" 4-6"	A W W	99 a	99 a	99 a
9	BROADAXE XC TOUCHDOWN TOTAL N-PAK AMS	7 4.17 100	SC SL SL	1.37 1.04 2.5	lb ai/a lb ae/a % v/v	25 32 2.5	fl oz/a fl oz/a % v/v	PRE 4-6" 4-6"	A W W	99 a	99 a	99 a
10	BROADAXE XC FLEXSTAR GT 3.5 MSO (MSO ULTRA) N-PAK AMS	7 2.82 100 100	SC SL SL SL	1.37 1.23 1 2.5	lb ai/a lb ae/a % v/v % v/v	25 3.5 1 2.5	fl oz/a pt/a % v/v % v/v	PRE 4-6" 4-6" 4-6"	A W W W	99 a	99 a	99 a
11	BROADAXE XC PREFIX TOUCHDOWN TOTAL N-PAK AMS	7 5.29 4.17 100	SC EC SL SL	1.37 1.32 1.04 2.5	lb ai/a lb ai/a lb ae/a % v/v	25 2 32 2.5	fl oz/a pt/a fl oz/a % v/v	PRE 4-6" 4-6" 4-6"	A W W W	99 a	99 a	99 a
12	BOUNDARY FLEXSTAR GT 3.5 MSO (MSO ULTRA) N-PAK AMS	6.5 2.82 100 100	EC SL SL SL	1.63 1.23 1 2.5	lb ai/a lb ae/a % v/v % v/v	2 3.5 1 2.5	pt/a pt/a % v/v % v/v	PRE 4-6" 4-6" 4-6"	A W W W	93 b	93 b	99 a
13	PREFIX TOUCHDOWN TOTAL N-PAK AMS	5.29 4.17 100	EC SL SL	1.65 1.04 2.5	lb ai/a lb ae/a % v/v	2.5 32 2.5	pt/a fl oz/a % v/v	PRE 4-6" 4-6"	A W W	94 b	94 b	99 a

Weed Control With Sonic and Surveil Followed by Durango DMA.

Trial ID: 15-51E-N120 Location: Belleville Res. Center Trial Year: 2015  
 Investigator: Ronald F. Krausz

Pest Code								IPOHE	IPOHE	IPOHE	IPOHE	IPOHE	
Crop Code								7-11-15	7-15-15	7-29-15	8-12-15	9-9-15	
Rating Date								Control	Control	Control	Control	Control	
Rating Type								Percent	Percent	Percent	Percent	Percent	
Rating Unit								5 DA-C	9 DA-C	23 DA-C	37 DA-C	65 DA-C	
Rating Timing													
Trt-Eval Interval								28 DA-A	0 DA-B	14 DA-B	28 DA-B	56 DA-B	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Other Rate	Other Rate	Growth Stage	Appl Code				
14	ENVIVE	41.3	WG	0.09	lb ai/a	3.5	oz/a	PRE	A	99 a	99 a	99 a	88 ef
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32	fl oz/a	4-6"W	B				
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	4-6"W	B				
15	ROWEL FX	40.3	WG	0.088	lb ai/a	3.5	oz/a	PRE	A	99 a	99 a	90 b	90 def
	WARRANT	3	CS	1.13	lb ai/a	3	pt/a	V2	C				
	ROUNDUP POWERMAX	4.5	SL	1.13	lb ae/a	32	fl oz/a	V2	C				
	N-PAK AMS	100	SL	2.5	% v/v	2.5	% v/v	V2	C				
16	NONTREATED									0	0	0	0
LSD P=.05								2.9	2.9	.	5.6	5.2	
Standard Deviation								1.7	1.7	0.0	3.4	3.1	
CV								1.77	1.77	0.0	3.7	3.42	
Replicate F								2.399	2.399	0.000	0.427	0.269	
Replicate Prob(F)								0.1092	0.1092	1.0000	0.6568	0.7662	
Treatment F								3.440	3.440	0.000	11.061	13.908	
Treatment Prob(F)								0.0026	0.0026	1.0000	0.0001	0.0001	

Weed Control With Sonic and Surveil Followed by Durango DMA.

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Trial Comments

1. Protocol: Dow (Soybean Showcase); SIU.
2. Ratings:  
CI 14 and 28 DA-A; CI 14, 28, and 56 DA-B+C.  
WC 14 and 28 DA-A; WC 0, 14, 28, and 56 DA-B+C.  
Rate before spray applications B and C.  
Rate POST applications on different dates but record in the same column.
3. Yield.
4. Photos.
5. Rainfall following the PRE application was 2.52 inch over 3 days beginning 1 day later.  
Rainfall following the V2 application was 0.35 inch over 2 days beginning 4 days later.  
Rainfall following the 4-6"W application was 1.33 inch over 2 days beginning 2 days later.
6. Missing data for plots 401-416 was due to flooding.
7. GLXMA, STDRED = Soybean stand reduction.
8. Harvested 10-20-15, (2) 30 inch rows by 24 ft.