

# University of Georgia

## Effects of HM1151B (Sinister) compared to Reflex in Soybean (15-EBU 36)

Trial ID: SB-05-15  
Protocol ID: 15-EBU 36  
Project ID:

Location: GA                      Trial Year: 2015  
Investigator: Eric P. Prostko  
Study Director: Dr. Eric Prostko  
Sponsor Contact: Zach Taylor 252-503-0204

Reps: 4                                      Plots: 6 by 25 feet  
Spray vol: 15 GAL/AC                      Mix Size: 1.5 liters (calculated mix size .78211)

Trt No.	Treatment Name	Form Conc	Form Type	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Amt to Measure	Product	Rep 1	Rep 2	Rep 3	Rep 4
1	NTC									101	208	310	406
2	Reflex Induce	2 L 90 L		1 pt/a 0.25 % v/v		PREMCR A PREMCR A		12.5 ml/mx 3.75 ml/mx		102	203	312	401
3	HM1151B Induce	3 L 90 L		8 floz/a 0.25 % v/v		PREMCR A PREMCR A		6.25 ml/mx 3.75 ml/mx		103	207	313	402
4	HM1151B Induce	3 L 90 L		11 floz/a 0.25 % v/v		PREMCR A PREMCR A		8.594 ml/mx 3.75 ml/mx		104	209	304	403
5	Induce Reflex Gramoxone Inteon	90 L 2 L 2 L		0.25 % v/v 1 pt/a 2 pt/a		PREMCR A PREMCR A PREMCR A		3.75 ml/mx 12.5 ml/mx 25.0 ml/mx		105	213	301	410
6	Induce HM1151B Gramoxone Inteon	90 L 3 L 2 L		0.25 % v/v 8 floz/a 2 pt/a		PREMCR A PREMCR A PREMCR A		3.75 ml/mx 6.25 ml/mx 25.0 ml/mx		106	202	309	408
7	Induce HM1151B Gramoxone Inteon	90 L 3 L 2 L		0.25 % v/v 11 floz/a 2 pt/a		PREMCR A PREMCR A PREMCR A		3.75 ml/mx 8.594 ml/mx 25.0 ml/mx		107	211	303	404
8	Reflex Induce	2 L 90 L		1 pt/a 0.25 % v/v		POSPOS B POSPOS B		12.5 ml/mx 3.75 ml/mx		108	201	308	411
9	HM1151B Induce	3 L 90 L		8 floz/a 0.25 % v/v		POSPOS B POSPOS B		6.25 ml/mx 3.75 ml/mx		109	212	306	409
10	HM1151B Induce	3 L 90 L		11 floz/a 0.25 % v/v		POSPOS B POSPOS B		8.594 ml/mx 3.75 ml/mx		110	206	307	413
11	Induce Reflex RUPM	90 L 2 L 5.5 L		0.25 % v/v 1 pt/a 22 floz/a		POSPOS B POSPOS B POSPOS B		3.75 ml/mx 12.5 ml/mx 17.19 ml/mx		111	204	302	407
12	Induce HM1151B RUPM	90 L 3 L 5.5 L		0.25 % v/v 8 fl oz/a 22 floz/a		POSPOS B POSPOS B POSPOS B		3.75 ml/mx 6.25 ml/mx 17.19 ml/mx		112	210	305	412
13	Induce HM1151B RUPM	90 L 3 L 5.5 L		0.25 % v/v 11 fl oz/a 22 floz/a		POSPOS B POSPOS B POSPOS B		3.75 ml/mx 8.594 ml/mx 17.19 ml/mx		113	205	311	405

Sort Order: Treatment

### Trial Comments

HM1151B 3 L = HELENA FOMESAFEN FORMULATION, TRADE NAME IS SINISTER

ANNUAL GRASS = TEXAS PANICUM + CRABGRASS + CROWFOOTGRASS

WEED COVER ON 6/15/2015 = VISUAL ESTIMATE OF TOTAL WEED COVER (ALL SPECIES) - %

#### **SUMMARY:**

- 1) NO CROP INJURY WAS OBSERVED FROM PRE APPLICATIONS OF FOMESAFEN.
- 2) PRE AND POST APPLICATIONS OF FOMESAFEN PROVIDED EXCELLENT CONTROL OF PALMER AMARANTH AND CARPETWEED. NO DIFFERENCES WERE OBSERVED BETWEEN FORMULATIONS.
- 3) PRE APPLICATION OF FOMESAFEN DID NOT ADEQUATELY CONTROL SMALLFLOWER MG (<70% CONTROL). POST APPLICATIONS PROVIDED > 88% CONTROL.
- 4) POST APPLICATIONS OF FOMESAFEN CAUSE SLIGHT SOYBEAN STUNTING AND LEAF BURN. NO MAJOR DIFFERENCES BETWEEN FORMULATIONS.

## University of Georgia

5) POST APPLICATIONS OF FOMESAFEN DID NOT CONTROL ANNUAL GRASSES. GRASS CONTROL WAS SIGNIFICANTLY IMPROVED WHEN TANK-MIXED WITH ROUNDUP PM.

6) PRE OR POST APPLICATIONS OF FOMESAFEN DID NOT CONTROL FLORIDA BEGGARWEED. CONTROL WITH POST APPLICATIONS WAS SIGNIFICANTLY IMPROVED WHEN TANK-MIXED WITH ROUNDUP PM.

# University of Georgia

## Effects of HM1151B (Sinister) compared to Reflex in Soybean (15-EBU 36)

Trial ID: SB-05-15      Location: GA      Trial Year: 2015  
 Protocol ID: 15-EBU 36      Investigator: Eric P. Prostko  
 Project ID:      Study Director: Dr. Eric Prostko  
 Sponsor Contact: Zach Taylor 252-503-0204

### General Trial Information

**Study Director:** Dr. Eric Prostko      **Title:** \_\_\_\_\_  
**Investigator:** Eric P. Prostko      **Title:** \_\_\_\_\_

**Discipline:** \_\_\_\_\_  
**Trial Status:** \_\_\_\_\_      **Trial Reliability:** \_\_\_\_\_  
**Initiation Date:** \_\_\_\_\_      **Planned Completion Date:** \_\_\_\_\_  
**Completion Date:** \_\_\_\_\_

### Trial Location

**City:** ATTAPULGUS      **Country:** USA United States  
**State/Prov.:** GEORGIA  
**Postal Code:** \_\_\_\_\_      **Climate Zone:** \_\_\_\_\_

**Latitude of LL Corner °:** \_\_\_\_\_ -  
**Longitude of LL Corner °:** \_\_\_\_\_ -  
**Altitude of LL Corner, Unit:** \_\_\_\_\_  
**Angle y-axis to North °:** \_\_\_\_\_      **Map Reference:** \_\_\_\_\_  
**Directions:** \_\_\_\_\_

**Conducted Under GLP:** No      **Official Trial ID:** \_\_\_\_\_  
**Conducted Under GEP:** No      **Other Trial ID:** \_\_\_\_\_  
**Study Rules:** \_\_\_\_\_

No.	Guideline	Description
1.		

**Keywords:** \_\_\_\_\_

**Objectives:**

The main objective of this trial is to demonstrate the efficacy of HM1151B when compared to Reflex in traditional weed control programs in soybean.

**Conclusions:** \_\_\_\_\_

### Contacts

**Study Director:** Dr. Eric Prostko      **Title:** \_\_\_\_\_  
**Organization:** \_\_\_\_\_  
**Address:** \_\_\_\_\_      **Phone No.:** \_\_\_\_\_  
**City+State/Prov:** \_\_\_\_\_      **Mobile No.:** \_\_\_\_\_  
**Postal Code:** \_\_\_\_\_      **E-mail:** \_\_\_\_\_  
**Country:** \_\_\_\_\_

**Investigator:** Eric P. Prostko      **Title:** \_\_\_\_\_  
**Organization:** \_\_\_\_\_  
**Address:** \_\_\_\_\_      **Phone No.:** \_\_\_\_\_  
**City+State/Prov:** \_\_\_\_\_      **Mobile No.:** \_\_\_\_\_  
**Postal Code:** \_\_\_\_\_      **E-mail:** \_\_\_\_\_  
**Country:** \_\_\_\_\_

### Cooperator/Landowner

**Cooperator:** \_\_\_\_\_      **Role:** \_\_\_\_\_  
**Organization:** \_\_\_\_\_      **Org. Type:** \_\_\_\_\_  
**Address 1:** \_\_\_\_\_      **Address 2:** \_\_\_\_\_  
**City:** \_\_\_\_\_      **Phone No.:** \_\_\_\_\_  
**State/Prov:** \_\_\_\_\_      **Fax No.:** \_\_\_\_\_  
**Postal Code:** \_\_\_\_\_      **Mobile No.:** \_\_\_\_\_  
**Country:** \_\_\_\_\_      **E-mail:** \_\_\_\_\_

### Other Contacts

Name	Role	Other

# University of Georgia

Crop 1: GLXMA Variety: ASGROW AG7934		Glycine max		Crop Description Soybean	
Description:		BBCH Scale: BSOY		Nursery Date: _____	
Seed Size, Unit:	_____			Planting Date:	May-12-15
Seed Shape:	_____			Planting Method:	_____
Planting Rate, Unit:	_____			Planting Equipment:	_____
Depth, Unit:	1.5 IN			Emergence Date:	_____
Row Spacing, Unit:	36 IN			Harvest Date:	_____
Spacing Within Row, Unit:	_____			Harvested Width, Unit:	_____
Planting Density, Unit:	100000 S/A			Harvested Length, Unit:	_____
Soil Temperature, Unit:	_____			Harvest Equipment:	_____
Soil Moisture:	OPTIMU			% Standard Moisture:	_____
Seed Bed:	_____			Moisture Meter:	_____
Perennial Age, Unit:	_____			Weighing Equipment:	_____

Pest 1 Type: W		Code: AMAPA		Pest Description Amaranthus palmeri	
Common Name:		Palmer amaranth		Description: _____	
Artificial Population:		_____		Establishment Date: _____	
Establishment Rate, Unit:		_____		_____	
Concentration, Unit:		_____		_____	
Establishment Method/Description: _____					
Pest 2 Type: W		Code: DEDTO		Desmodium tortuosum	
Common Name:		FL beggarweed		Description: _____	
Artificial Population:		_____		Establishment Date: _____	
Establishment Rate, Unit:		_____		_____	
Concentration, Unit:		_____		_____	
Establishment Method/Description: _____					
Pest 3 Type: W		Code: MOLVE		Mollugo verticillata	
Common Name:		Carpetweed		Description: _____	
Artificial Population:		_____		Establishment Date: _____	
Establishment Rate, Unit:		_____		_____	
Concentration, Unit:		_____		_____	
Establishment Method/Description: _____					
Pest 4 Type: W		Code: IAQTA		Jacquemontia tamnifolia	
Common Name:		Smallflower morningglory		Description: _____	
Artificial Population:		_____		Establishment Date: _____	
Establishment Rate, Unit:		_____		_____	
Concentration, Unit:		_____		_____	
Establishment Method/Description: _____					

Site and Design					
Treated Plot Width:	6	FT	Site Type:	FIELD	field
Treated Plot Length:	25	FT	Experimental Unit:	1	PLOT plot
Treated Plot Area:	150	FT2	Tillage Type:	CONTIL	conventional-till
Replications:	4		Study Design:	RACOB	Randomized Complete Block (RCB)
% Slope:	_____				
Untreated Arrangement:	_____				
Trial Initiation Comments: _____					
<b>No.</b>	<b>Previous Crop</b>	<b>Previous Pesticides</b>	<b>Year</b>		
1.	COTTON	2014			

Maintenance									
No.	Date	Maintenance Product Name	Form Conc	Form Unit	Form Type	Description	Rate	Rate Unit	Tank Mix
1.									
Comment: _____									
Field Prep./Maintenance: _____									

# University of Georgia

Soil Description			
<b>Description Name:</b> _____			
<b>% Sand:</b> 86	<b>% OM:</b> 1.49	<b>Texture:</b> LS	loamy sand
<b>% Silt:</b> 6	<b>pH:</b> 6.0	<b>Soil Name:</b> ORANGEBURG	
<b>% Clay:</b> 8	<b>CEC:</b> _____	<b>Fert. Level:</b> _____	
<b>Analyzed By:</b> _____		<b>Soil Drainage:</b> _____	
Additional Measured Elements			
Date	Element	Quantity	Unit

Moisture and Weather Conditions													
<b>Overall Moisture Conditions:</b> _____													
<b>Closest Weather Station:</b> _____										<b>Distance, Unit:</b> _____			
No.	Date	Time	Amount	Unit	Type	Type Description	Interval	Unit	Min Temp	Max Temp	Temp Unit	Relative Humidity	
1.	May-13-15		0.5	in	SPCEPI	sprinkler - center pivot							
<b>Comment:</b> _____													

Application Description		
	A	B
<b>Application Date:</b>	May-12-15	May-27-15
<b>Appl. Start Time:</b>		
<b>Appl. Stop Time:</b>	11:45 AM	8:15 AM
<b>Application Method:</b>	SPRAY	SPRAY
<b>Application Timing:</b>	PREMCR	POSPOS
<b>Application Placement:</b>	BROFOL	BROFOL
<b>Applied By:</b>	EPP	OWC
<b>Air Temperature, Unit:</b>	86 F	68 F
<b>% Relative Humidity:</b>	53	100
<b>Wind Velocity, Unit:</b>	0 MPH	0 MPH
<b>Wind Direction:</b>		
<b>Dew Presence (Y/N):</b>	N no	Y yes
<b>Soil Temperature, Unit:</b>	81 F	75 F
<b>Soil Moisture:</b>	OPTIMUM	WET
<b>% Cloud Cover:</b>	0	100
<b>Next Moisture Occurred On:</b>		
<b>Time to Next Moisture, Unit:</b>		

Crop Stage At Each Application		
	A	B
<b>Crop 1 Code, BBCH Scale:</b>	GLXMA BSOY	GLXMA BSOY
<b>Stage Scale Used:</b>		V2
<b>Stage Majority, Percent:</b>		
<b>Stage Minimum, Percent:</b>		
<b>Stage Maximum, Percent:</b>		
<b>Diameter, Unit:</b>		
<b>Height, Unit:</b>		4 IN
<b>Height Minimum, Maximum:</b>		
<b>Plant Foliage Height, Unit:</b>		
<b>Crop coverage (%):</b>		

# University of Georgia

## Pest Stage At Each Application

	A	B
<b>Pest 1 Code, Type, Scale:</b>	AMAPA W	AMAPA W
<b>Stage Majority, Percent:</b>		
<b>Stage Minimum, Percent:</b>		
<b>Stage Maximum, Percent:</b>		
<b>Diameter, Unit:</b>		
<b>Height, Unit:</b>		3 IN
<b>Height Minimum, Maximum:</b>		1 4
<b>Density, Unit:</b>		
<b>Coverage, Unit:</b>		
<b>Pest 2 Code, Type, Scale:</b>	DEDTO W	DEDTO W
<b>Stage Majority, Percent:</b>		
<b>Stage Minimum, Percent:</b>		
<b>Stage Maximum, Percent:</b>		
<b>Diameter, Unit:</b>		
<b>Height, Unit:</b>		
<b>Height Minimum, Maximum:</b>		
<b>Density, Unit:</b>		
<b>Coverage, Unit:</b>		
<b>Pest 3 Code, Type, Scale:</b>	MOLVE W	MOLVE W
<b>Stage Majority, Percent:</b>		
<b>Stage Minimum, Percent:</b>		
<b>Stage Maximum, Percent:</b>		
<b>Diameter, Unit:</b>		
<b>Height, Unit:</b>		0.5 IN
<b>Height Minimum, Maximum:</b>		
<b>Density, Unit:</b>		
<b>Coverage, Unit:</b>		
<b>Pest 4 Code, Type, Scale:</b>	IAQTA W	IAQTA W
<b>Stage Majority, Percent:</b>		
<b>Stage Minimum, Percent:</b>		
<b>Stage Maximum, Percent:</b>		
<b>Diameter, Unit:</b>		
<b>Height, Unit:</b>		1.5 IN
<b>Height Minimum, Maximum:</b>		1 2
<b>Density, Unit:</b>		
<b>Coverage, Unit:</b>		

# University of Georgia

## Application Equipment

	A	B
<b>Appl. Equipment:</b>	BACKPACK	BACKPACK
<b>Equipment Type:</b>		
<b>Operation Pressure, Unit:</b>	40 PSI	33 PSI
<b>Nozzle Type:</b>	AIXR	FLAT FAN
<b>Nozzle Size:</b>	11002	11002DG
<b>Nozzle Spacing, Unit:</b>	20 IN	20 IN
<b>Nozzles/Row:</b>		
<b>Nozzle Calibration, Unit:</b>		
<b>Band Width, Unit:</b>		
<b>% Coverage:</b>		
<b>Row Sides Applied:</b>		
<b>Boom ID:</b>		
<b>Boom Length, Unit:</b>	60 IN	60 IN
<b>Boom Height, Unit:</b>	20 IN	20 IN
<b>Ground Speed, Unit:</b>	3.5 MPH	3.5 MPH
<b>Incorporation Equip.:</b>		
<b>Hours to Incorp.:</b>		
<b>Incorp. Depth, Unit</b>		
<b>Carrier:</b>	WATER	WATER
<b>Water Hardness (ppm CaCO3):</b>		
<b>Spray Volume, Unit:</b>	15 GAL/AC	15 GAL/AC
<b>Mix Size, Unit:</b>	1.5 liters	1.5 liters
<b>Spray pH:</b>		
<b>Propellant:</b>	COMCO2	COMCO2
<b>Tank Mix (Y/N):</b>	Y yes	Y yes
<b>Equipment Comment:</b>		

**Trt No Treatment Application Comment**  
 \_\_\_\_\_

**Date By Notes**  
 \_\_\_\_\_

**No. Date By Deviations**  
 1. \_\_\_\_\_  
**Reasons:**

# University of Georgia

## Effects of HM1151B (Sinister) compared to Reflex in Soybean (15-EBU 36)

Trial ID: SB-05-15      Location: GA      Trial Year: 2015  
 Protocol ID: 15-EBU 36      Investigator: Eric P. Prostko  
 Project ID:      Study Director: Dr. Eric Prostko  
 Sponsor Contact: Zach Taylor 252-503-0204

Pest Type	W Weed	W Weed	ANNUAL	W Weed	W Weed	W Weed					
Pest Code	GLXMA	AMAPA	GRASS	IAQTA	MOLVE	GLXMA					
Pest Scientific Name	Glycine max	Amaranthus pal>		Jacquemontia t>	Mollugo vertic>	Glycine max					
Pest Name	Soybean	Palmer amaranth		Smallflower mo>	Carpetweed	Soybean					
Description	STUNTING	CONTROL	CONTROL		CONTROL	STUNTING					
Rating Date	May-27-15	May-27-15	May-27-15	May-27-15	May-27-15	Jun-5-15					
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT					
Number of Subsamples	1	1	1	1	1	1					
Days After First/Last Applic.	15 15	15 15	15 15	15 15	15 15	24 9					
Trt-Eval Interval	15 DA-A	15 DA-A	15 DA-A	15 DA-A	15 DA-A	24 DA-A					
Plant-Eval Interval	15 DP-1	15 DP-1	15 DP-1	15 DP-1	15 DP-1	24 DP-1					
Trt No.	Treatment Name	Form Conc	Form Type	Growth Stage	Appl Code	1	2	3	4	5	6
1	NTC					0.0 a	0.0 b	0.0 b	0.0 c	0.0 b	0.0 b
2	Reflex Induce	2 L 90 L	L	PREMCR A PREMCR A		0.0 a	99.0 a	80.0 a	67.5 a	99.0 a	0.0 b
3	HM1151B Induce	3 L 90 L	L	PREMCR A PREMCR A		0.0 a	99.0 a	71.3 a	53.8 b	99.0 a	3.3 b
4	HM1151B Induce	3 L 90 L	L	PREMCR A PREMCR A		0.0 a	99.0 a	81.3 a	58.8 ab	99.0 a	0.0 b
5	Induce Reflex Gramoxone Inteon	90 L 2 L 2 L	L	PREMCR A PREMCR A PREMCR A		0.0 a	99.0 a	82.5 a	65.0 a	99.0 a	3.3 b
6	Induce HM1151B Gramoxone Inteon	90 L 3 L 2 L	L	PREMCR A PREMCR A PREMCR A		0.0 a	99.0 a	71.3 a	57.5 ab	99.0 a	6.7 ab
7	Induce HM1151B Gramoxone Inteon	90 L 3 L 2 L	L	PREMCR A PREMCR A PREMCR A		0.0 a	99.0 a	72.5 a	61.3 ab	99.0 a	3.3 b
8	Reflex Induce	2 L 90 L	L	POSPOS B POSPOS B		0.0 a	0.0 b	0.0 b	0.0 c	0.0 b	6.7 ab
9	HM1151B Induce	3 L 90 L	L	POSPOS B POSPOS B		0.0 a	0.0 b	0.0 b	0.0 c	0.0 b	3.3 b
10	HM1151B Induce	3 L 90 L	L	POSPOS B POSPOS B		0.0 a	0.0 b	0.0 b	0.0 c	0.0 b	13.3 a
11	Induce Reflex RUPM	90 L 2 L 5.5 L	L	POSPOS B POSPOS B POSPOS B		0.0 a	0.0 b	0.0 b	0.0 c	0.0 b	13.3 a
12	Induce HM1151B RUPM	90 L 3 L 5.5 L	L	POSPOS B POSPOS B POSPOS B		0.0 a	0.0 b	0.0 b	0.0 c	0.0 b	13.3 a
13	Induce HM1151B RUPM	90 L 3 L 5.5 L	L	POSPOS B POSPOS B POSPOS B		0.0 a	0.0 b	0.0 b	0.0 c	0.0 b	11.7 a
LSD P=.10						.	.	10.03	9.73	.	6.38
Standard Deviation						0.00	0.00	8.40	8.15	0.00	4.56
CV						0.0	0.0	23.8	29.12	0.0	75.75
Grand Mean						0.00	45.69	35.29	27.98	45.69	6.03
Bartlett's X2						0.0	0.0	2.103	5.368	0.0	3.602
P(Bartlett's X2)						.	.	0.835	0.252	.	0.936
Replicate F						0.000	0.000	2.206	1.591	0.000	7.600
Replicate Prob(F)						1.0000	1.0000	0.1042	0.2085	1.0000	0.0028
Treatment F						0.000	0.000	89.919	60.274	0.000	3.969
Treatment Prob(F)						1.0000	1.0000	0.0001	0.0001	1.0000	0.0020

Means followed by same letter do not significantly differ (P=.10, Duncan's New MRT)  
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.  
 Missing data estimates are included in columns: Yates=1  
 Could not calculate LSD (% mean diff) for columns 1,2,5 because error mean square = 0.



# University of Georgia

Pest Type	W Weed	W Weed	ANNUAL	W Weed	W Weed					
Pest Code	GLXMA	AMAPA	GRASS	IAQTA	MOLVE					
Pest Scientific Name	Glycine max	Amaranthus pal>		Jacquemontia t>	Mollugo vertic>					
Pest Name	Soybean	Palmer amaranth		Smallflower mo>	Carpetweed					
Description	LEAF BURN	CONTROL	CONTROL	CONTROL	CONTROL					
Rating Date	Jun-5-15	Jun-5-15	Jun-5-15	Jun-5-15	Jun-5-15					
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT					
Number of Subsamples	1	1	1	1	1					
Days After First/Last Applic.	24 9	24 9	24 9	24 9	24 9					
Trt-Eval Interval	24 DA-A	24 DA-A	24 DA-A	24 DA-A	24 DA-A					
Plant-Eval Interval	24 DP-1	24 DP-1	24 DP-1	24 DP-1	24 DP-1					
Trt No.	Treatment Name	Form Conc	Form Type	Growth Stage	Appl Code	7	8	9	10	11
1	NTC					0.0 d	0.0 c	0.0 e	0.0 e	0.0 b
2	Reflex Induce	2 L 90 L		PREMCR A PREMCR A		0.0 d	99.0 a	81.3 ab	50.0 b	98.0 a
3	HM1151B Induce	3 L 90 L		PREMCR A PREMCR A		0.0 d	97.0 b	61.3 c	25.0 cd	98.0 a
4	HM1151B Induce	3 L 90 L		PREMCR A PREMCR A		0.0 d	99.0 a	70.0 bc	50.0 b	99.0 a
5	Induce Reflex Gramoxone Inteon	90 L 2 L 2 L		PREMCR A PREMCR A PREMCR A		0.0 d	99.0 a	66.3 bc	46.3 b	99.0 a
6	Induce HM1151B Gramoxone Inteon	90 L 3 L 2 L		PREMCR A PREMCR A PREMCR A		0.0 d	99.0 a	61.3 c	12.5 de	99.0 a
7	Induce HM1151B Gramoxone Inteon	90 L 3 L 2 L		PREMCR A PREMCR A PREMCR A		0.0 d	98.0 ab	62.5 bc	37.5 bc	99.0 a
8	Reflex Induce	2 L 90 L		POSPOS B POSPOS B		11.3 c	99.0 a	21.3 d	94.5 a	99.0 a
9	HM1151B Induce	3 L 90 L		POSPOS B POSPOS B		12.5 bc	99.0 a	0.0 e	88.8 a	99.0 a
10	HM1151B Induce	3 L 90 L		POSPOS B POSPOS B		12.5 bc	99.0 a	0.0 e	91.0 a	99.0 a
11	Induce Reflex RUPM	90 L 2 L 5.5 L		POSPOS B POSPOS B POSPOS B		13.8 abc	99.0 a	98.0 a	98.0 a	99.0 a
12	Induce HM1151B RUPM	90 L 3 L 5.5 L		POSPOS B POSPOS B POSPOS B		15.0 ab	99.0 a	95.0 a	92.3 a	99.0 a
13	Induce HM1151B RUPM	90 L 3 L 5.5 L		POSPOS B POSPOS B POSPOS B		16.3 a	99.0 a	97.0 a	96.8 a	99.0 a
LSD P=.10						3.08	1.04	17.57	18.15	0.90
Standard Deviation						2.58	0.87	14.72	15.20	0.75
CV						41.26	0.95	26.81	25.25	0.82
Grand Mean						6.25	91.15	54.90	60.19	91.23
Bartlett's X2						2.242	0.061	33.672	35.926	0.0
P(Bartlett's X2)						0.815	0.805	0.001*	0.001*	.
Replicate F						0.843	0.409	0.384	3.084	2.182
Replicate Prob(F)						0.4792	0.7474	0.7652	0.0394	0.1071
Treatment F						30.542	3991.159	25.550	21.338	5329.001
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0001	0.0001



# University of Georgia

## Effects of HM1151B (Sinister) compared to Reflex in Soybean (15-EBU 36)

Trial ID: SB-05-15      Location: GA      Trial Year: 2015  
Protocol ID: 15-EBU 36      Investigator: Eric P. Prostko  
Project ID:      Study Director: Dr. Eric Prostko  
Sponsor Contact: Zach Taylor 252-503-0204

Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

GLXMA, Glycine max, = US

AMAPA, Amaranthus palmeri, = US

IAQTA, Jacquemontia tamnifolia, = US

MOLVE, Mollugo verticillata, = US

DEDTO, Desmodium tortuosum, = US

Rating Unit

PERCENT = percent

Plant-Eval Interval

15 DP-1 = 1 GLXMA May-12-15

24 DP-1 = 1 GLXMA May-12-15

34 DP-1 = 1 GLXMA May-12-15

50 DP-1 = 1 GLXMA May-12-15

# University of Georgia

## Effects of HM1151B (Sinister) compared to Reflex in Soybean (15-EBU 36)

Trial ID: SB-05-15      Location: GA      Trial Year: 2015  
 Protocol ID: 15-EBU 36      Investigator: Eric P. Prostko  
 Project ID:      Study Director: Dr. Eric Prostko  
 Sponsor Contact: Zach Taylor 252-503-0204

Pest Type	W Weed	W Weed	ANNUAL	W Weed	W Weed	
Pest Code	GLXMA	AMAPA	GRASS	IAQTA	MOLVE	
Pest Scientific Name	Glycine max	Amaranthus pal>		Jacquemontia t>	Mollugo vertic>	
Pest Name	Soybean	Palmer amaranth		Smallflower mo>	Carpetweed	
Description	STUNTING	CONTROL	CONTROL		CONTROL	
Rating Date	May-27-15	May-27-15	May-27-15	May-27-15	May-27-15	
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
Number of Subsamples	1	1	1	1	1	
Days After First/Last Applic.	15 15	15 15	15 15	15 15	15 15	
Trt-Eval Interval	15 DA-A	15 DA-A	15 DA-A	15 DA-A	15 DA-A	
Plant-Eval Interval	15 DP-1	15 DP-1	15 DP-1	15 DP-1	15 DP-1	
Trt Treatment	Form Conc	Form Type	Growth Stage	Appl Code	Plot	
No. Name						
1 NTC					101 0.0 208 0.0 310 0.0 406 0.0 Mean = 0.0	2 0.0 3 0.0 4 0.0 5 0.0 Mean = 0.0
2 Reflex Induce	2 L 90 L	PREMCR A PREMCR A			102 0.0 203 0.0 312 0.0 401 0.0 Mean = 0.0	2 99.0 3 75.0 4 95.0 5 75.0 Mean = 80.0
3 HM1151B Induce	3 L 90 L	PREMCR A PREMCR A			103 0.0 207 0.0 313 0.0 402 0.0 Mean = 0.0	2 99.0 3 65.0 4 65.0 5 90.0 Mean = 71.3
4 HM1151B Induce	3 L 90 L	PREMCR A PREMCR A			104 0.0 209 0.0 304 0.0 403 0.0 Mean = 0.0	2 99.0 3 85.0 4 65.0 5 90.0 Mean = 81.3
5 Induce Reflex Gramoxone Inteon	90 L 2 L 2 L	PREMCR A PREMCR A PREMCR A			105 0.0 213 0.0 301 0.0 410 0.0 Mean = 0.0	2 99.0 3 85.0 4 85.0 5 95.0 Mean = 82.5
6 Induce HM1151B Gramoxone Inteon	90 L 3 L 2 L	PREMCR A PREMCR A PREMCR A			106 0.0 202 0.0 309 0.0 408 0.0 Mean = 0.0	2 99.0 3 50.0 4 60.0 5 90.0 Mean = 71.3
7 Induce HM1151B Gramoxone Inteon	90 L 3 L 2 L	PREMCR A PREMCR A PREMCR A			107 0.0 211 0.0 303 0.0 404 0.0 Mean = 0.0	2 99.0 3 65.0 4 75.0 5 85.0 Mean = 72.5
8 Reflex Induce	2 L 90 L	POSPOS B POSPOS B			108 0.0 201 0.0 308 0.0 411 0.0 Mean = 0.0	2 0.0 3 0.0 4 0.0 5 0.0 Mean = 0.0
9 HM1151B Induce	3 L 90 L	POSPOS B POSPOS B			109 0.0 212 0.0 306 0.0 409 0.0 Mean = 0.0	2 0.0 3 0.0 4 0.0 5 0.0 Mean = 0.0
10 HM1151B Induce	3 L 90 L	POSPOS B POSPOS B			110 0.0 206 0.0 307 0.0 413 0.0* Mean = 0.0	2 0.0 3 0.0 4 0.0 5 0.0 Mean = 0.0

# University of Georgia

Pest Type	W Weed	W Weed	ANNUAL	W Weed	W Weed
Pest Code	GLXMA	AMAPA	GRASS	IAQTA	MOLVE
Pest Scientific Name	Glycine max	Amaranthus pal>		Jacquemontia t>	Mollugo vertic>
Pest Name	Soybean	Palmer amaranth	CONTROL	Smallflower mo>	Carpeweed
Description	STUNTING	CONTROL	CONTROL		CONTROL
Rating Date	May-27-15	May-27-15	May-27-15	May-27-15	May-27-15
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	15 15	15 15	15 15	15 15	15 15
Trt-Eval Interval	15 DA-A	15 DA-A	15 DA-A	15 DA-A	15 DA-A
Plant-Eval Interval	15 DP-1	15 DP-1	15 DP-1	15 DP-1	15 DP-1
Trt Treatment	Form Form Growth	Appl			
No. Name	Conc Type Stage	Code Plot	1	2	3
11 Induce	90 L POSPOS B	111	0.0	0.0	0.0
Reflex	2 L POSPOS B	204	0.0	0.0	0.0
RUPM	5.5 L POSPOS B	302	0.0	0.0	0.0
		407	0.0	0.0	0.0
		Mean =	0.0	0.0	0.0
12 Induce	90 L POSPOS B	112	0.0	0.0	0.0
HM1151B	3 L POSPOS B	210	0.0	0.0	0.0
RUPM	5.5 L POSPOS B	305	0.0	0.0	0.0
		412	0.0	0.0	0.0
		Mean =	0.0	0.0	0.0
13 Induce	90 L POSPOS B	113	0.0	0.0	0.0
HM1151B	3 L POSPOS B	205	0.0	0.0	0.0
RUPM	5.5 L POSPOS B	311	0.0	0.0	0.0
		405	0.0	0.0	0.0
		Mean =	0.0	0.0	0.0

# University of Georgia

Pest Type	W Weed	W Weed	W Weed	ANNUAL	W Weed				
Pest Code	GLXMA	GLXMA	AMAPA	GRASS	IAQTA				
Pest Scientific Name	Glycine max	Glycine max	Amaranthus pal>		Jacquemontia t>				
Pest Name	Soybean	Soybean	Palmer amaranth		Smallflower mo>				
Description	STUNTING	LEAF BURN	CONTROL	CONTROL	CONTROL				
Rating Date	Jun-5-15	Jun-5-15	Jun-5-15	Jun-5-15	Jun-5-15				
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT				
Number of Subsamples	1	1	1	1	1				
Days After First/Last Applic.	24 9	24 9	24 9	24 9	24 9				
Trt-Eval Interval	24 DA-A	24 DA-A	24 DA-A	24 DA-A	24 DA-A				
Plant-Eval Interval	24 DP-1	24 DP-1	24 DP-1	24 DP-1	24 DP-1				
Trt Treatment	Form Conc	Form Type	Growth Stage	Appl Code	Plot				
No. Name									
1 NTC					101 0.0 208 0.0 310 0.0 406 0.0 Mean = 0.0	7 0.0 0.0 0.0 0.0 0.0	8 0.0 0.0 0.0 0.0 0.0	9 0.0 0.0 0.0 0.0 0.0	10 0.0 0.0 0.0 0.0 0.0
2 Reflex Induce	2 L 90 L	PREMCR A PREMCR A			102 0.0 203 0.0 312 0.0 401 0.0 Mean = 0.0	7 0.0 0.0 0.0 0.0 0.0	8 99.0 99.0 99.0 99.0 99.0	9 80.0 85.0 75.0 85.0 81.3	10 50.0 50.0 50.0 50.0 50.0
3 HM1151B Induce	3 L 90 L	PREMCR A PREMCR A			103 0.0 207 0.0 313 10.0 402 0.0 Mean = 3.3	7 0.0 0.0 0.0 0.0 0.0	8 99.0 99.0 95.0 95.0 97.0	9 70.0 50.0 50.0 75.0 61.3	10 0.0 0.0 50.0 50.0 25.0
4 HM1151B Induce	3 L 90 L	PREMCR A PREMCR A			104 0.0 209 0.0 304 0.0 403 0.0 Mean = 0.0	7 0.0 0.0 0.0 0.0 0.0	8 99.0 99.0 99.0 99.0 99.0	9 85.0 60.0 60.0 75.0 70.0	10 50.0 50.0 50.0 50.0 50.0
5 Induce Reflex Gramoxone Inteon	90 L 2 L 2 L	PREMCR A PREMCR A PREMCR A			105 0.0 213 0.0 301 10.0 410 0.0 Mean = 3.3	7 0.0 0.0 0.0 0.0 0.0	8 99.0 99.0 99.0 99.0 99.0	9 50.0 65.0 85.0 65.0 66.3	10 0.0 50.0 50.0 85.0 46.3
6 Induce HM1151B Gramoxone Inteon	90 L 3 L 2 L	PREMCR A PREMCR A PREMCR A			106 10.0 202 0.0 309 10.0 408 0.0 Mean = 6.7	7 10.0 0.0 0.0 0.0 0.0	8 99.0 99.0 99.0 99.0 99.0	9 80.0 50.0 50.0 65.0 61.3	10 0.0 0.0 0.0 50.0 12.5
7 Induce HM1151B Gramoxone Inteon	90 L 3 L 2 L	PREMCR A PREMCR A PREMCR A			107 10.0 211 0.0 303 0.0 404 0.0 Mean = 3.3	7 10.0 0.0 0.0 0.0 0.0	8 95.0 99.0 99.0 99.0 98.0	9 75.0 50.0 60.0 65.0 62.5	10 0.0 50.0 50.0 50.0 37.5
8 Reflex Induce	2 L 90 L	POSPOS B POSPOS B			108 0.0 201 0.0 308 20.0 411 10.0 Mean = 6.7	7 10.0 10.0 15.0 10.0 11.3	8 99.0 99.0 99.0 99.0 99.0	9 0.0 85.0 0.0 0.0 21.3	10 99.0 99.0 85.0 95.0 94.5
9 HM1151B Induce	3 L 90 L	POSPOS B POSPOS B			109 0.0 212 0.0 306 10.0 409 15.0 Mean = 3.3	7 10.0 15.0 10.0 15.0 12.5	8 99.0 99.0 99.0 99.0 99.0	9 0.0 0.0 0.0 0.0 0.0	10 85.0 90.0 85.0 95.0 88.8
10 HM1151B Induce	3 L 90 L	POSPOS B POSPOS B			110 10.0 206 10.0 307 20.0 413 15.0 Mean = 13.3	7 10.0 15.0 10.0 15.0 12.5	8 99.0 99.0 99.0 99.0 99.0	9 0.0 0.0 0.0 0.0 0.0	10 95.0 85.0 85.0 99.0 91.0

# University of Georgia

Pest Type				W Weed	W Weed	W Weed	ANNUAL	W Weed			
Pest Code				GLXMA	GLXMA	AMAPA	GRASS	IAQTA			
Pest Scientific Name				Glycine max	Glycine max	Amaranthus pal>		Jacquemontia t>			
Pest Name				Soybean	Soybean	Palmer amaranth		Smallflower mo>			
Description				STUNTING	LEAF BURN	CONTROL	CONTROL	CONTROL			
Rating Date				Jun-5-15	Jun-5-15	Jun-5-15	Jun-5-15	Jun-5-15			
Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT			
Number of Subsamples				1	1	1	1	1			
Days After First/Last Applic.				24 9	24 9	24 9	24 9	24 9			
Trt-Eval Interval				24 DA-A	24 DA-A	24 DA-A	24 DA-A	24 DA-A			
Plant-Eval Interval				24 DP-1	24 DP-1	24 DP-1	24 DP-1	24 DP-1			
Trt No.	Treatment Name	Form Conc	Form Type	Growth Stage	Appl Code	Plot	6	7	8	9	10
11	Induce	90	L	POSPOS	B	111	10.0	10.0	99.0	99.0	99.0
	Reflex	2	L	POSPOS	B	204	10.0	10.0	99.0	99.0	99.0
	RUPM	5.5	L	POSPOS	B	302	20.0	20.0	99.0	95.0	99.0
						407		15.0	99.0	99.0	95.0
						Mean =	13.3	13.8	99.0	98.0	98.0
12	Induce	90	L	POSPOS	B	112	10.0	10.0	99.0	95.0	99.0
	HM1151B	3	L	POSPOS	B	210	10.0	20.0	99.0	95.0	85.0
	RUPM	5.5	L	POSPOS	B	305	20.0	15.0	99.0	95.0	95.0
						412		15.0	99.0	95.0	90.0
						Mean =	13.3	15.0	99.0	95.0	92.3
13	Induce	90	L	POSPOS	B	113	10.0	20.0	99.0	99.0	99.0
	HM1151B	3	L	POSPOS	B	205	15.0	10.0	99.0	95.0	99.0
	RUPM	5.5	L	POSPOS	B	311	10.0	20.0	99.0	95.0	90.0
						405		15.0	99.0	99.0	99.0
						Mean =	11.7	16.3	99.0	97.0	96.8

# University of Georgia

Pest Type	W Weed	W Weed	ANNUAL	WEED	W Weed
Pest Code	MOLVE	AMAPA	GRASS	COVER	AMAPA
Pest Scientific Name	Mollugo vertic>	Amaranthus pal>			Amaranthus pal>
Pest Name	Carpetweed	Palmer amaranth			Palmer amaranth
Description	CONTROL	CONTROL	CONTROL		CONTROL
Rating Date	Jun-5-15	Jun-15-15	Jun-15-15	Jun-15-15	Jul-1-15
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	24 9	34 19	34 19	34 19	50 35
Trt-Eval Interval	24 DA-A	34 DA-A	34 DA-A	34 DA-A	50 DA-A
Plant-Eval Interval	24 DP-1	34 DP-1	34 DP-1	34 DP-1	50 DP-1
Trt Treatment	Form Form Growth	Appl			
No. Name	Conc Type Stage	Code Plot	11	12	13
1 NTC		101	0.0	0.0	0.0
		208	0.0	0.0	0.0
		310	0.0	0.0	0.0
		406	0.0	0.0	0.0
		Mean =	0.0	0.0	0.0
2 Reflex	2 L	PREMCR A	102	99.0	60.0
Induce	90 L	PREMCR A	203	99.0	85.0
			312	99.0	75.0
			401	99.0	85.0
		Mean =	98.0	99.0	76.3
3 HM1151B	3 L	PREMCR A	103	95.0	60.0
Induce	90 L	PREMCR A	207	99.0	65.0
			313	99.0	60.0
			402	99.0	65.0
		Mean =	98.0	98.0	62.5
4 HM1151B	3 L	PREMCR A	104	99.0	85.0
Induce	90 L	PREMCR A	209	99.0	70.0
			304	99.0	65.0
			403	99.0	85.0
		Mean =	99.0	99.0	76.3
5 Induce	90 L	PREMCR A	105	99.0	50.0
Reflex	2 L	PREMCR A	213	99.0	65.0
Gramoxone Inteon	2 L	PREMCR A	301	99.0	75.0
			410	99.0	65.0
		Mean =	99.0	99.0	63.8
6 Induce	90 L	PREMCR A	106	99.0	20.0
HM1151B	3 L	PREMCR A	202	99.0	60.0
Gramoxone Inteon	2 L	PREMCR A	309	99.0	55.0
			408	99.0	60.0
		Mean =	99.0	99.0	48.8
7 Induce	90 L	PREMCR A	107	99.0	60.0
HM1151B	3 L	PREMCR A	211	99.0	65.0
Gramoxone Inteon	2 L	PREMCR A	303	99.0	65.0
			404	99.0	75.0
		Mean =	99.0	99.0	66.3
8 Reflex	2 L	POSPOS B	108	99.0	60.0
Induce	90 L	POSPOS B	201	99.0	60.0
			308	99.0	50.0
			411	99.0	10.0
		Mean =	99.0	99.0	45.0
9 HM1151B	3 L	POSPOS B	109	99.0	50.0
Induce	90 L	POSPOS B	212	99.0	10.0
			306	99.0	30.0
			409	99.0	15.0
		Mean =	99.0	99.0	26.3
10 HM1151B	3 L	POSPOS B	110	99.0	60.0
Induce	90 L	POSPOS B	206	99.0	30.0
			307	99.0	30.0
			413	99.0	10.0
		Mean =	99.0	99.0	32.5



# University of Georgia

Pest Type				W Weed	W Weed	ANNUAL	WEED	W Weed	
Pest Code				MOLVE	AMAPA	GRASS	COVER	AMAPA	
Pest Scientific Name				Mollugo vertic>	Amaranthus pal>			Amaranthus pal>	
Pest Name				Carpetweed	Palmer amaranth			Palmer amaranth	
Description				CONTROL	CONTROL	CONTROL		CONTROL	
Rating Date				Jun-5-15	Jun-15-15	Jun-15-15	Jun-15-15	Jul-1-15	
Rating Unit				PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
Number of Subsamples				1	1	1	1	1	
Days After First/Last Applic.				24 9	34 19	34 19	34 19	50 35	
Trt-Eval Interval				24 DA-A	34 DA-A	34 DA-A	34 DA-A	50 DA-A	
Plant-Eval Interval				24 DP-1	34 DP-1	34 DP-1	34 DP-1	50 DP-1	
Trt	Treatment	Form	Form Growth	Appl					
No.	Name	Conc	Type Stage	Code Plot	11	12	13	14	15
11	Induce	90 L	POSPOS B	111	99.0	99.0	95.0	5.0	95.0
	Reflex	2 L	POSPOS B	204	99.0	99.0	95.0	5.0	99.0
	RUPM	5.5 L	POSPOS B	302	99.0	99.0	85.0	15.0	95.0
				407	99.0	99.0	90.0	5.0	99.0
				Mean =	99.0	99.0	91.3	7.5	97.0
12	Induce	90 L	POSPOS B	112	99.0	99.0	99.0	5.0	99.0
	HM1151B	3 L	POSPOS B	210	99.0	99.0	90.0	10.0	99.0
	RUPM	5.5 L	POSPOS B	305	99.0	99.0	90.0	5.0	95.0
				412	99.0	99.0	99.0	5.0	90.0
				Mean =	99.0	99.0	94.5	6.3	95.8
13	Induce	90 L	POSPOS B	113	99.0	99.0	90.0	10.0	95.0
	HM1151B	3 L	POSPOS B	205	99.0	99.0	90.0	5.0	95.0
	RUPM	5.5 L	POSPOS B	311	99.0	99.0	90.0	10.0	99.0
				405	99.0	99.0	95.0	15.0	99.0
				Mean =	99.0	99.0	91.3	10.0	97.0

# University of Georgia

Pest Type				ANNUAL	W Weed	
Pest Code				GRASS	DEDTO	
Pest Scientific Name					Desmodium tort>	
Pest Name					FL BEGGARWEED	
Description				CONTROL	CONTROL	
Rating Date				Jul-1-15	Jul-1-15	
Rating Unit				PERCENT	PERCENT	
Number of Subsamples				1	1	
Days After First/Last Applic.				50 35	50 35	
Trt-Eval Interval				50 DA-A	50 DA-A	
Plant-Eval Interval				50 DP-1	50 DP-1	
Trt No.	Treatment Name	Form Conc	Form Growth Type Stage	Appl Code Plot		
					16	17
1	NTC			101	0.0	0.0
				208	0.0	0.0
				310	0.0	0.0
				406	0.0	0.0
				Mean =	0.0	0.0
2	Reflex Induce	2 L 90 L	PREMCR A PREMCR A	102 203	85.0 85.0	50.0 0.0
				312	65.0	50.0
				401	65.0	50.0
				Mean =	75.0	37.5
3	HM1151B Induce	3 L 90 L	PREMCR A PREMCR A	103 207	65.0 60.0	50.0 0.0
				313	65.0	0.0
				402	0.0	0.0
				Mean =	47.5	12.5
4	HM1151B Induce	3 L 90 L	PREMCR A PREMCR A	104 209	85.0 50.0	0.0 0.0
				304	50.0	0.0
				403	60.0	0.0
				Mean =	61.3	0.0
5	Induce Reflex Gramoxone Inteon	90 L 2 L 2 L	PREMCR A PREMCR A PREMCR A	105 213 301	50.0 50.0 60.0	0.0 50.0 0.0
				410	65.0	0.0
				Mean =	56.3	12.5
6	Induce HM1151B Gramoxone Inteon	90 L 3 L 2 L	PREMCR A PREMCR A PREMCR A	106 202 309	65.0 0.0 50.0	0.0 0.0 0.0
				408	65.0	0.0
				Mean =	45.0	0.0
7	Induce HM1151B Gramoxone Inteon	90 L 3 L 2 L	PREMCR A PREMCR A PREMCR A	107 211 303	65.0 40.0 50.0	0.0 50.0 0.0
				404	0.0	0.0
				Mean =	38.8	12.5
8	Reflex Induce	2 L 90 L	POSPOS B POSPOS B	108 201	0.0 0.0	0.0 0.0
				308	50.0	0.0
				411	0.0	95.0
				Mean =	12.5	23.8
9	HM1151B Induce	3 L 90 L	POSPOS B POSPOS B	109 212	0.0 0.0	0.0 0.0
				306	0.0	0.0
				409	0.0	0.0
				Mean =	0.0	0.0
10	HM1151B Induce	3 L 90 L	POSPOS B POSPOS B	110 206	0.0 0.0	0.0 0.0
				307	0.0	0.0
				413	0.0	50.0
				Mean =	0.0	12.5

# University of Georgia

Pest Type	ANNUAL	W Weed
Pest Code	GRASS	DEDTO
Pest Scientific Name		Desmodium tort>
Pest Name		FL BEGGARWEED
Description	CONTROL	CONTROL
Rating Date	Jul-1-15	Jul-1-15
Rating Unit	PERCENT	PERCENT
Number of Subsamples	1	1
Days After First/Last Applic.	50 35	50 35
Trt-Eval Interval	50 DA-A	50 DA-A
Plant-Eval Interval	50 DP-1	50 DP-1
Trt Treatment	Form Form Growth Appl	
No. Name	Conc Type Stage Code Plot	
	16	17
11 Induce	90 L POSPOS B 111	90.0
Reflex	2 L POSPOS B 204	80.0
RUPM	5.5 L POSPOS B 302	75.0
	407	90.0
	Mean =	85.0
12 Induce	90 L POSPOS B 112	95.0
HM1151B	3 L POSPOS B 210	95.0
RUPM	5.5 L POSPOS B 305	95.0
	412	90.0
	Mean =	93.8
13 Induce	90 L POSPOS B 113	95.0
HM1151B	3 L POSPOS B 205	90.0
RUPM	5.5 L POSPOS B 311	95.0
	405	95.0
	Mean =	93.8

# University of Georgia

## Effects of HM1151B (Sinister) compared to Reflex in Soybean (15-EBU 36)

Trial ID: SB-05-15      Location: GA      Trial Year: 2015  
Protocol ID: 15-EBU 36      Investigator: Eric P. Prostko  
Project ID:      Study Director: Dr. Eric Prostko  
Sponsor Contact: Zach Taylor 252-503-0204

### Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

### Pest Code

GLXMA, Glycine max, = US

AMAPA, Amaranthus palmeri, = US

IAQTA, Jacquemontia tamnifolia, = US

MOLVE, Mollugo verticillata, = US

DEDTO, Desmodium tortuosum, = US

### Rating Unit

PERCENT = percent

### Plant-Eval Interval

15 DP-1 = 1 GLXMA May-12-15

24 DP-1 = 1 GLXMA May-12-15

34 DP-1 = 1 GLXMA May-12-15

50 DP-1 = 1 GLXMA May-12-15