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Demonstrate different PRE set-up programs for weed control utilizing a new formulation of glufosinate.

Trial ID: 07S-THP-CTS-15
Location: Throckmorton

Protocol ID:
Study Director: Vince Davis/ Kevin Westerfeld
Investigator: Dr. William G. Johnson

General Trial Information

Study Director: Vince Davis/ Kevin Westerfeld **Title:** Research Associate
Affiliation: Purdue University
Postal Code: 47907 **E-mail:** davisv@purdue.edu; kwesterf@purdue.edu
Investigator: Dr. William G. Johnson **Title:** Associate Professor
Affiliation: Purdue University
Postal Code: 47907 **E-mail:** wgj@purdue.edu

Trial Location

City: Lafayette **Trial Status:** ESTABLISHED
State/Prov.: IN
Postal Code: 47909
Country: USA
Directions:
Field 4A

Cooperator/Landowner

Cooperator: Throckmorton-Purdue Ag Center (TPAC) **Country:** USA
Organization: Purdue University **Phone No:** 765-538-3422
Address 1: 8343 US 231 South **Fax No:** 765-538-3423
City: Lafayette
State/Prov: IN
Postal Code: 47909-9049

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: SG2579LL Lot#SR2062A-Q **Description:** LL
BBCH Scale: BSOY **Planting Date:** May/09/2007
Planting Method: Direct drilled **Rate, Unit:** 150000 S/A
Depth, Unit: 1 IN
Row Spacing, Unit: 30 IN
Seed Bed: MEDIUM **Soil Temperature, Unit:** 70 F
Soil Moisture: Dry **Emergence Date:** May/23/2007

Pest Description

Pest 1 Type: W **Code:** SETFA **Setaria faberi**
Common Name: Faber's foxtail
Description: Giant foxtail

Pest 2 Type: W **Code:** STEME **Stellaria media**
Common Name: Common chickweed

Pest 3 Type: W **Code:** ABUTH **Abutilon theophrasti**
Common Name: Velvetleaf

Pest 4 Type: W **Code:** IPOHE **Ipomoea hederacea**
Common Name: Ivyleaf morningglory

Pest 5 Type: W **Code:** CHEAL **Chenopodium album**
Common Name: Common lambsquarters

Pest 6 Type: W **Code:** LAMAM **Lamium amplexicaule**
Common Name: Henbit

Pest 7 Type: W **Code:** SOLPT **Solanum ptycanthum**
Common Name: Eastern black nightshade

Pest 8 Type: W **Code:** CYPES **Cyperus esculentus**
Common Name: Chufa
Description: Yellow Nutsedge

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD
Plot Length, Unit: 30 FT **Tillage Type:** CONVENTIONAL-TILL
Replications: 4 **Study Design:** Randomized Complete Block
Soil Drainage: G Good

Comment: Field was mowed 7/9/07 and tilled 7/13/07 in compliance with regulated seed.

Field Prep./Maintenance:

Field was disked on 4/24/07

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Soil Description

Description Name: TPAC Field 4A
% OM: 3.1 **Texture:** Silty loam
pH: 6 **Soil Name:** Toronto-Millbrook
CEC: 11.1

Analyzed By:
A&L Great Lakes Laboratories, Inc. Report #: F04048-0006

Additional Measured Elements

Element	Quantity	Unit
K	208	PPM
Mg	325	PPM
Ca	1100	PPM

Moisture and Weather Conditions

Closest Weather Station: On research station **Distance:** 0.5 **Unit:** MI

Application Description

	A	B	C
Application Date:	May/09/2007	May/23/2007	Jun/05/2007
Time of Day:	11:00 AM	8:15 AM	5:00 PM
Application Method:	Spray	Spray	Spray
Application Timing:	A: PREPRE	B: EAPOWE	C: MIPOWE
Application Placement:	BROFOL	BROFOL	BROFOL
Applied By:	VMD KW	KW AW	KW VM
Air Temperature, Unit:	70 F	70 F	75 F
% Relative Humidity:	98	62	70
Wind Velocity, Unit:	4 MPH	5 MPH	3 MPH
Wind Direction:	SW	SW	NW
Dew Presence (Y/N):	N	N	N
Water Hardness:	Hard	Hard	Hard
Soil Temperature, Unit:	70 F	66 F	74 F
Soil Moisture:	Dry	Dry	Moist
% Cloud Cover:	100	0	85

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:	BBCH	BBCH	BBCH
Stage Majority, Percent:	PREPLANT	VE-VC	V2-3
Height, Unit:		0.5 IN	2 IN
Height Minimum, Maximum:		0 1	1 3

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Pest Stage At Each Application

	A	B	C
Pest 1 Code, Disc., Scale:	SETFA W	SETFA W	SETFA W
Stage Majority, Percent:		2-8 lf	1-5Ti1
Height, Unit:	0.5 IN	2 IN	5 IN
Height Minimum, Maximum:	0 1	1 4	0 10
Density, Unit:	3 YD2	13 YD2	13 YD2
Pest 2 Code, Disc., Scale:	STEME W	STEME W	STEME W
Stage Majority, Percent:	Seed		
Height, Unit:	4 IN		
Height Minimum, Maximum:	2 6		
Density, Unit:	1 YD2		
Pest 3 Code, Disc., Scale:	ABUTH W	ABUTH W	ABUTH W
Stage Majority, Percent:	Cotyl		2-4 lf
Height, Unit:	0.5 IN		2 IN
Height Minimum, Maximum:	0 0.5		3 1
Density, Unit:	1 YD2		1 YD2
Pest 4 Code, Disc., Scale:	IPOHE W	IPOHE W	IPOHE W
Stage Majority, Percent:	Cotyl		C-2 lf
Height, Unit:	0.5 IN		1 IN
Height Minimum, Maximum:	0 0.5		0 2
Density, Unit:	1 YD2		2 YD2
Pest 5 Code, Disc., Scale:	CHEAL W	CHEAL W	CHEAL W
Stage Majority, Percent:		2-6 lf	7 nod
Height, Unit:		1.5 IN	1 IN
Height Minimum, Maximum:		1 2	0 2
Density, Unit:		1 YD2	1 YD2
Pest 6 Code, Disc., Scale:	LAMAM W	LAMAM W	LAMAM W
Stage Majority, Percent:		2-6 lf	2-8nod
Height, Unit:		0.5 IN	1 IN
Height Minimum, Maximum:		0 1	0 2
Density, Unit:		3 YD2	3 YD2
Pest 7 Code, Disc., Scale:	SOLPT W	SOLPT W	SOLPT W
Stage Majority, Percent:			2-7 lf
Height, Unit:			2 IN
Height Minimum, Maximum:			0 4
Density, Unit:			1 YD2
Pest 8 Code, Disc., Scale:	CYPES W	CYPES W	CYPES W
Stage Majority, Percent:			4-10lf
Height, Unit:			3 IN
Height Minimum, Maximum:			0 5
Density, Unit:			1 YD2

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Application Equipment

	A	B	C
Appl. Equipment:	Backpack	Backpack	Backpack
Operating Pressure, Unit:	15 PSI	15 PSI	15 PSI
Nozzle Type:	XR11002	XR11002	XR11002
Nozzle Spacing, Unit:	15 IN	15 IN	15 IN
Nozzles/Row:	6	6	6
Boom Length, Unit:	7.5 FT	7.5 FT	7.5 FT
Boom Height, Unit:	15 IN	15 IN	15 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH
Carrier:	TPAC H2O	TPAC H2O	TPAC H2O
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA
Mix Size, Unit:	1.8 Liters	1.8 Liters	1.8 Liters
Propellant:	CO2	CO2	CO2
Tank Mix (Y/N):	Y	Y	Y

Date	By	Notes
Jul/24/2007	Kevin	Conditions at Throckmorton were very dry after preemergence applications were made. Therefore preemergence data was variable.

Trial Comments

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Demonstrate different PRE set-up programs for weed control utilizing a new formulation of glufosinate.

Trial ID: 07S-THP-CTS-15
 Location: Throckmorton

Protocol ID:
 Study Director: Vince Davis/ Kevin Westerfeld
 Investigator: Dr. William G. Johnson

									W Weed	W Weed	W Weed		W Weed	W Weed
									SETFA	CHEAL	LAMAM		SETFA	CHEAL
									Giant foxta>	Common lamb>	Henbit		Giant foxta>	Common lamb>
Pest Type									GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Pest Code									BSOY	BSOY	BSOY	BSOY	BSOY	BSOY
Pest Name									Soybean	Soybean	Soybean	Soybean	Soybean	Soybean
Crop Code									SG2579LL	SG2579LL	SG2579LL	SG2579LL	SG2579LL	SG2579LL
BBCH Scale									Liberty Link					
Crop Name									PLADEA P	PLADEA P	PLADEA P	PLADEA C	PLADEA P	PLADEA P
Crop Variety									May/23/2007	May/23/2007	May/23/2007	May/23/2007	May/29/2007	May/29/2007
Description									CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO
Part Rated									%	%	%	%	%	%
Rating Date									12	2	3		12	2
Rating Data Type									YD2	YD2	YD2		YD2	YD2
Rating Unit									VE	VE	VE	VE	V1-2	V1-2
Sample Size									BBCH	BBCH	BBCH	BBCH	BBCH	BBCH
Sample Size Unit														
Crop Stage									1-4 "	1-2 "	0-1 "		2-6 "	2-6 "
Crop Stage Scale									12 YD2	2 YD2	3 YD2		12 YD2	2 YD2
Crop Density, Unit									KW AW BN	KW AW BN	KW AW BN	KW AW BN	WGJ	WGJ
Pest Stage									0 DAT	0 DAT	0 DAT	0 DAT	7 DAT	7 DAT
Pest Density, Unit									14 0	14 0	14 0	14 0	20 6	20 6
Assessed By									14 DP-1	14 DP-1	14 DP-1	14 DP-1	20 DP-1	20 DP-1
Rating Timing														
Days After First/Last Applic.														
Plant-Eval Interval														
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot	1	2	3	4	5	6
1	Untreated Check							101	0.0	0.0	0.0	0.0	0.0	0.0
								501	0.0	0.0	0.0	0.0	0.0	0.0
								704	0.0	0.0	0.0	0.0	0.0	0.0
								805	0.0	0.0	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0	0.0	0.0
2	Prowl H2O	1.42 lb ai/a		3 pt/a		PREPRE A		102	0.0	75.0	50.0	0.0	20.0	50.0
	SP102000017385	0.402 lb ai/a		22 fl oz/a		MIPOWE C		402	0.0	100.0	100.0	0.0	50.0	100.0
	Ammonium Sulfate	8.5 lb/100 gal		8.5 lb ai/100 gal		MIPOWE C		702	75.0	100.0	100.0	0.0	80.0	100.0
								1002	65.0	100.0	100.0	0.0	50.0	100.0
								Mean =	35.0	93.8	87.5	0.0	50.0	87.5
3	Canopy DF	0.14 lb ai/a		3 oz/a		PREPRE A		103	0.0	75.0	100.0	0.0	30.0	50.0
	SP102000017385	0.402 lb ai/a		22 fl oz/a		MIPOWE C		502	95.0	100.0	100.0	0.0	100.0	100.0
	Ammonium Sulfate	8.5 lb/100 gal		8.5 lb ai/100 gal		MIPOWE C		701	50.0	100.0	95.0	0.0	50.0	100.0
								903	90.0	100.0	100.0	0.0	98.0	100.0
								Mean =	58.8	93.8	98.8	0.0	69.5	87.5
4	Domain	0.525 lb ai/a		14 oz/a		PREPRE A		104	0.0	100.0	100.0	0.0	30.0	60.0
	SP102000017385	0.402 lb ai/a		22 fl oz/a		MIPOWE C		503	95.0	100.0	100.0	0.0	90.0	100.0
	Ammonium Sulfate	8.5 lb/100 gal		8.5 lb ai/100 gal		MIPOWE C		505	50.0	100.0	100.0	0.0	85.0	100.0
								1001	90.0	100.0	100.0	0.0	85.0	100.0
								Mean =	58.8	100.0	100.0	0.0	72.5	90.0
5	Valor XLT							105	0.0	100.0	100.0	0.0	20.0	70.0
	Valor	0.056 lb ai/a		1.76 oz/a		PREPRE A		304	0.0	100.0	100.0	0.0	0.0	100.0
	Classic	0.0194 lb ai/a		1.24 oz/a		PREPRE A		601	100.0	50.0	95.0	0.0	0.0	100.0
	SP102000017385	0.402 lb ai/a		22 fl oz/a		MIPOWE C		902	95.0	100.0	100.0	0.0	98.0	100.0
	Ammonium Sulfate	8.5 lb/100 gal		8.5 lb ai/100 gal		MIPOWE C								
								Mean =	48.8	87.5	98.8	0.0	29.5	92.5
6	Authority First	0.175 lb ai/a		4 oz/a		PREPRE A		201	90.0	100.0	100.0	0.0	97.0	100.0
	SP102000017385	0.402 lb ai/a		22 fl oz/a		MIPOWE C		504	80.0	100.0	100.0	0.0	30.0	100.0
	Ammonium Sulfate	8.5 lb/100 gal		8.5 lb ai/100 gal		MIPOWE C		703	80.0	100.0	100.0	0.0	70.0	100.0
								904	90.0	70.0	90.0	0.0	90.0	60.0
								Mean =	85.0	92.5	97.5	0.0	71.8	90.0

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Pest Type	W Weed					
Pest Code	SETFA	CHEAL	LAMAM		SETFA	CHEAL
Pest Name	Giant foxta>	Common lamb>	Henbit		Giant foxta>	Common lamb>
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean
Crop Variety	SG2579LL	SG2579LL	SG2579LL	SG2579LL	SG2579LL	SG2579LL
Description	Liberty Link					
Part Rated	PLADEA P	PLADEA P	PLADEA P	PLADEA C	PLADEA P	PLADEA P
Rating Date	May/23/2007	May/23/2007	May/23/2007	May/23/2007	May/29/2007	May/29/2007
Rating Data Type	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Sample Size	12	2	3		12	2
Sample Size Unit	YD2	YD2	YD2		YD2	YD2
Crop Stage	VE	VE	VE	VE	V1-2	V1-2
Crop Stage Scale	BBCH	BBCH	BBCH	BBCH	BBCH	BBCH
Crop Density, Unit						
Pest Stage	1-4 "	1-2 "	0-1 "		2-6 "	2-6 "
Pest Density, Unit	12 YD2	2 YD2	3 YD2		12 YD2	2 YD2
Assessed By	KW AW BN	KW AW BN	KW AW BN	KW AW BN	WGJ	WGJ
Rating Timing	0 DAT	0 DAT	0 DAT	0 DAT	7 DAT	7 DAT
Days After First/Last Applic.	14 0	14 0	14 0	14 0	20 6	20 6
Plant-Eval Interval	14 DP-1	14 DP-1	14 DP-1	14 DP-1	20 DP-1	20 DP-1

Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot						
									1	2	3	4	5	6
7	Authority First	0.175	lb ai/a		4 oz/a	PREPRE	A	202	95.0	100.0	100.0	0.0	100.0	90.0
	SP102000017385	0.402	lb ai/a		22 fl oz/a	MIPOWE	C	305	0.0	100.0	75.0	0.0	0.0	100.0
	Ammonium Sulfate	8.5	lb/100 gal		8.5 lb ai/100 gal	MIPOWE	C	801	95.0	100.0	100.0	0.0	90.0	100.0
								905	90.0	50.0	70.0	0.0	90.0	100.0
	Mean =								70.0	87.5	86.3	0.0	70.0	97.5
8	SP102000017385	0.402	lb ai/a		22 fl oz/a	EAPOWE	B	203	0.0	0.0	0.0	0.0	98.0	100.0
	Ammonium Sulfate	8.5	lb/100 gal		8.5 lb ai/100 gal	EAPOWE	B	404	0.0	0.0	0.0	0.0	90.0	100.0
	SP102000017385	0.402	lb ai/a		22 fl oz/a	MIPOWE	C	705	0.0	0.0	0.0	0.0	95.0	100.0
	Ammonium Sulfate	8.5	lb/100 gal		8.5 lb ai/100 gal	MIPOWE	C	804	0.0	0.0	0.0	0.0	85.0	100.0
	Mean =								0.0	0.0	0.0	0.0	92.0	100.0
9	SP102000017385	0.402	lb ai/a		22 fl oz/a	EAPOWE	B	204	0.0	0.0	0.0	0.0	98.0	100.0
	Synchrony XP	0.107	oz ai/a	0.375	oz/a	EAPOWE	B	303	0.0	0.0	0.0	0.0	97.0	100.0
	Ammonium Sulfate	8.5	lb/100 gal		8.5 lb ai/100 gal	EAPOWE	B	603	0.0	0.0	0.0	0.0	100.0	100.0
								802	0.0	0.0	0.0	0.0	95.0	100.0
	Mean =								0.0	0.0	0.0	0.0	97.5	100.0
10	SP102000017385	0.402	lb ai/a		22 fl oz/a	EAPOWE	B	205	0.0	0.0	0.0	0.0	100.0	100.0
	Pursuit	0.0625	lb ai/a		4 fl oz/a	EAPOWE	B	401	0.0	0.0	0.0	0.0	99.0	100.0
	Ammonium Sulfate	8.5	lb/100 gal		8.5 lb ai/100 gal	EAPOWE	B	605	0.0	0.0	0.0	0.0	100.0	100.0
								901	0.0	0.0	0.0	0.0	95.0	100.0
	Mean =								0.0	0.0	0.0	0.0	98.5	100.0
11	SP102000017385	0.402	lb ai/a		22 fl oz/a	EAPOWE	B	301	0.0	0.0	0.0	0.0	100.0	100.0
	FirstRate	0.0158	lb ai/a	0.3	oz/a	EAPOWE	B	405	0.0	0.0	0.0	0.0	90.0	90.0
	Ammonium Sulfate	8.5	lb/100 gal		8.5 lb ai/100 gal	EAPOWE	B	602	0.0	0.0	0.0	0.0	0.0	100.0
								803	0.0	0.0	0.0	0.0	95.0	100.0
	Mean =								0.0	0.0	0.0	0.0	71.3	97.5
12	Untreated Check							302	0.0	0.0	0.0	0.0	0.0	0.0
								403	0.0	0.0	0.0	0.0	0.0	0.0
								604	0.0	0.0	0.0	0.0	0.0	0.0
								1003	0.0	0.0	0.0	0.0	0.0	0.0
	Mean =								0.0	0.0	0.0	0.0	0.0	0.0

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								W Weed		W Weed					
								IPOHE		SETFA	IPOHE	LAMAM	CHEAL		
								Ivyleaf mor>		Giant foxta>	Ivyleaf mor>	Henbit	Common lamb>		
Pest Type	Pest Code	Pest Name	Crop Code	BBCH Scale	Crop Name	Crop Variety	Description	GLXMA							
Part Rated	Rating Date	Rating Data Type	Rating Unit	Sample Size	Sample Size Unit	Crop Stage	Crop Stage Scale	BSOY							
Assessed By	Rating Timing	Days After First/Last Applic.	Plant-Eval Interval					Soybean							
								SG2579LL							
								Liberty Link							
								PLADEA P	PLADEA C	PLADEA P	PLADEA P	PLADEA P	PLADEA P	PLADEA C	
								May/29/2007	May/29/2007	Jun/06/2007	Jun/06/2007	Jun/06/2007	Jun/06/2007	Jun/06/2007	
								CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN	
								%	%	%	%	%	%	%	
								1		13	2	3	1		
								M2		YD2	YD2	YD2	YD2	YD2	
								V1-2	V1-2	V2-3	V2-3	V2-3	V2-3	V2-3	
								BBCH							
								3 IN							
								1-2 "	0-10 "	0-2 "	0-2 "	0-2 "	0-2 "	0-2 "	
								1 M2	13 YD2	2 YD2	3 YD2	1 YD2	1 YD2	1 YD2	
								WGJ	VM JD						
								7 DAT	7 DAT	14 DAT	14 DAT	14 DAT	14 DAT	14 DAT	
								20 6	20 6	28 1	28 1	28 1	28 1	28 1	
								20 DP-1	20 DP-1	28 DP-1					
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot	7	8	9	10	11	12	13
1	Untreated Check							101	0.0	0.0	0.0	0.0	0.0	0.0	0.0
								501	0.0	0.0	0.0	0.0	0.0	0.0	0.0
								704	0.0	0.0	0.0	0.0	0.0	0.0	0.0
								805	0.0	0.0	0.0	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	Prowl H2O	1.42 lb ai/a		3 pt/a		PREPRE A		102	20.0	0.0	40.0	0.0	100.0	100.0	0.0
	SP102000017385	0.402 lb ai/a		22 fl oz/a		MIPOWE C		402	80.0	0.0	60.0	60.0	100.0	100.0	0.0
	Ammonium Sulfate	8.5 lb/100 gal		8.5 lb ai/100 gal		MIPOWE C		702	100.0	0.0	40.0	90.0	100.0	100.0	0.0
								1002	100.0	0.0	45.0	75.0	100.0	100.0	0.0
								Mean =	75.0	0.0	46.3	56.3	100.0	100.0	0.0
3	Canopy DF	0.14 lb ai/a		3 oz/a		PREPRE A		103	80.0	0.0	5.0	75.0	100.0	50.0	0.0
	SP102000017385	0.402 lb ai/a		22 fl oz/a		MIPOWE C		502	90.0	0.0	40.0	15.0	100.0	100.0	0.0
	Ammonium Sulfate	8.5 lb/100 gal		8.5 lb ai/100 gal		MIPOWE C		701	100.0	0.0	70.0	80.0	100.0	100.0	0.0
								903	100.0	0.0	90.0	90.0	100.0	100.0	0.0
								Mean =	92.5	0.0	51.3	65.0	100.0	87.5	0.0
4	Domain	0.525 lb ai/a		14 oz/a		PREPRE A		104	70.0	0.0	0.0	45.0	100.0	100.0	0.0
	SP102000017385	0.402 lb ai/a		22 fl oz/a		MIPOWE C		503	90.0	0.0	15.0	0.0	100.0	100.0	0.0
	Ammonium Sulfate	8.5 lb/100 gal		8.5 lb ai/100 gal		MIPOWE C		505	100.0	0.0	85.0	0.0	100.0	100.0	0.0
								1001	100.0	0.0	40.0	70.0	100.0	100.0	0.0
								Mean =	90.0	0.0	35.0	28.8	100.0	100.0	0.0
5	Valor XLT							105	100.0	0.0	2.0	70.0	100.0	25.0	0.0
	Valor	0.056 lb ai/a		1.76 oz/a		PREPRE A		304	100.0	0.0	0.0	90.0	90.0	100.0	0.0
	Classic	0.0194 lb ai/a		1.24 oz/a		PREPRE A		601	100.0	0.0	100.0	80.0	100.0	70.0	0.0
	SP102000017385	0.402 lb ai/a		22 fl oz/a		MIPOWE C		902	100.0	0.0	87.0	100.0	100.0	100.0	0.0
	Ammonium Sulfate	8.5 lb/100 gal		8.5 lb ai/100 gal		MIPOWE C									
								Mean =	100.0	0.0	47.3	85.0	97.5	73.8	0.0
6	Authority First	0.175 lb ai/a		4 oz/a		PREPRE A		201	100.0	0.0	60.0	100.0	100.0	100.0	0.0
	SP102000017385	0.402 lb ai/a		22 fl oz/a		MIPOWE C		504	100.0	0.0	0.0	80.0	100.0	100.0	0.0
	Ammonium Sulfate	8.5 lb/100 gal		8.5 lb ai/100 gal		MIPOWE C		703	100.0	0.0	40.0	100.0	100.0	100.0	0.0
								904	100.0	0.0	85.0	100.0	100.0	70.0	0.0
								Mean =	100.0	0.0	46.3	95.0	100.0	92.5	0.0
7	Authority First	0.175 lb ai/a		4 oz/a		PREPRE A		202	100.0	0.0	95.0	100.0	100.0	100.0	0.0
	SP102000017385	0.402 lb ai/a		22 fl oz/a		MIPOWE C		305	100.0	0.0	0.0	100.0	100.0	100.0	0.0
	Ammonium Sulfate	8.5 lb/100 gal		8.5 lb ai/100 gal		MIPOWE C		801	100.0	0.0	95.0	95.0	95.0	100.0	0.0
								905	100.0	0.0	45.0	100.0	95.0	55.0	0.0
								Mean =	100.0	0.0	58.8	98.8	97.5	88.8	0.0

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								W Weed	W Weed	W Weed	W Weed	
								SETFA	IPHOE	CHEAL	AMBTR	
								Giant foxta>	Ivyleaf mor>	Common lamb>	Giant Ragwe>	
								GLXMA	GLXMA	GLXMA	GLXMA	
								BSOY	BSOY	BSOY	BSOY	
								Soybean	Soybean	Soybean	Soybean	
								SG2579LL	SG2579LL	SG2579LL	SG2579LL	
								Liberty Link	Liberty Link	Liberty Link	Liberty Link	
								PLADEA P	PLADEA P	PLADEA P	PLADEA P	
								Jul/09/2007	Jul/09/2007	Jul/09/2007	Jul/09/2007	
								CONTRO	CONTRO	CONTRO	CONTRO	
								%	%	%	%	
								13	2	2	2	
								YD2	YD2	YD2	YD2	
								R2	R2	R2	R2	
								BBCH	BBCH	BBCH	BBCH	
								22 IN	22 IN	22 IN	22 IN	
								12-36 "	1-40 "	6-40 "	24-48 "	
								13 YD2	2 YD2	2 YD2	2 YD2	
								MK GK	MK GK	MK GK	MK GK	
								35 DAT	35 DAT	35 DAT	35 DAT	
								61 34	61 34	61 34	61 34	
								61 DP-1	61 DP-1	61 DP-1	61 DP-1	
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot	14	15	16	17
1	Untreated Check							101	0.0	0.0	0.0	0.0
								501	0.0	0.0	0.0	0.0
								704	0.0	0.0	0.0	0.0
								805	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0
2	Prowl H2O	1.42	lb ai/a	3	pt/a	PREPRE	A	102	100.0	98.0	100.0	100.0
	SP102000017385	0.402	lb ai/a	22	fl oz/a	MIPOWE	C	402	99.0	100.0	100.0	100.0
	Ammonium Sulfate	8.5	lb/100 gal	8.5	lb ai/100 gal	MIPOWE	C	702	100.0	95.0	100.0	98.0
								1002	98.0	100.0	100.0	100.0
								Mean =	99.3	98.3	100.0	99.5
3	Canopy DF	0.14	lb ai/a	3	oz/a	PREPRE	A	103	95.0	98.0	100.0	100.0
	SP102000017385	0.402	lb ai/a	22	fl oz/a	MIPOWE	C	502	100.0	85.0	100.0	100.0
	Ammonium Sulfate	8.5	lb/100 gal	8.5	lb ai/100 gal	MIPOWE	C	701	99.0	100.0	100.0	90.0
								903	100.0	100.0	95.0	100.0
								Mean =	98.5	95.8	98.8	97.5
4	Domain	0.525	lb ai/a	14	oz/a	PREPRE	A	104	85.0	100.0	100.0	100.0
	SP102000017385	0.402	lb ai/a	22	fl oz/a	MIPOWE	C	503	100.0	85.0	100.0	100.0
	Ammonium Sulfate	8.5	lb/100 gal	8.5	lb ai/100 gal	MIPOWE	C	505	100.0	92.0	100.0	100.0
								1001	98.0	95.0	100.0	100.0
								Mean =	95.8	93.0	100.0	100.0
5	Valor XLT							105	95.0	100.0	100.0	100.0
	Valor	0.056	lb ai/a	1.76	oz/a	PREPRE	A	304	98.0	100.0	100.0	100.0
	Classic	0.0194	lb ai/a	1.24	oz/a	PREPRE	A	601	100.0	98.0	100.0	100.0
	SP102000017385	0.402	lb ai/a	22	fl oz/a	MIPOWE	C	902	99.0	100.0	100.0	100.0
	Ammonium Sulfate	8.5	lb/100 gal	8.5	lb ai/100 gal	MIPOWE	C					
								Mean =	98.0	99.5	100.0	100.0
6	Authority First	0.175	lb ai/a	4	oz/a	PREPRE	A	201	100.0	98.0	100.0	100.0
	SP102000017385	0.402	lb ai/a	22	fl oz/a	MIPOWE	C	504	98.0	100.0	100.0	100.0
	Ammonium Sulfate	8.5	lb/100 gal	8.5	lb ai/100 gal	MIPOWE	C	703	98.0	100.0	100.0	100.0
								904	100.0	100.0	100.0	100.0
								Mean =	99.0	99.5	100.0	100.0
7	Authority First	0.175	lb ai/a	4	oz/a	PREPRE	A	202	100.0	98.0	100.0	100.0
	SP102000017385	0.402	lb ai/a	22	fl oz/a	MIPOWE	C	305	95.0	100.0	100.0	100.0
	Ammonium Sulfate	8.5	lb/100 gal	8.5	lb ai/100 gal	MIPOWE	C	801	100.0	100.0	100.0	80.0
								905	99.0	100.0	100.0	100.0
								Mean =	98.5	99.5	100.0	95.0

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	IPOHE	CHEAL	AMBTR
Pest Name	Giant foxta>	Ivyleaf mor>	Common lamb>	Giant Ragwe>
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY
Crop Name	Soybean	Soybean	Soybean	Soybean
Crop Variety	SG2579LL	SG2579LL	SG2579LL	SG2579LL
Description	Liberty Link	Liberty Link	Liberty Link	Liberty Link
Part Rated	PLADEA P	PLADEA P	PLADEA P	PLADEA P
Rating Date	Jul/09/2007	Jul/09/2007	Jul/09/2007	Jul/09/2007
Rating Data Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Sample Size	13	2	2	2
Sample Size Unit	YD2	YD2	YD2	YD2
Crop Stage	R2	R2	R2	R2
Crop Stage Scale	BBCH	BBCH	BBCH	BBCH
Crop Density, Unit	22 IN	22 IN	22 IN	22 IN
Pest Stage	12-36 "	1-40 "	6-40 "	24-48 "
Pest Density, Unit	13 YD2	2 YD2	2 YD2	2 YD2
Assessed By	MK GK	MK GK	MK GK	MK GK
Rating Timing	35 DAT	35 DAT	35 DAT	35 DAT
Days After First/Last Applic.	61 34	61 34	61 34	61 34
Plant-Eval Interval	61 DP-1	61 DP-1	61 DP-1	61 DP-1

Trit No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot	14	15	16	17
8	SP102000017385	0.402	lb ai/a		22 fl oz/a	EAPOWE	B	203	98.0	90.0	100.0	100.0
	Ammonium Sulfate	8.5	lb/100 gal	8.5	lb ai/100 gal	EAPOWE	B	404	98.0	100.0	100.0	100.0
	SP102000017385	0.402	lb ai/a		22 fl oz/a	MIPOWE	C	705	95.0	98.0	100.0	100.0
	Ammonium Sulfate	8.5	lb/100 gal	8.5	lb ai/100 gal	MIPOWE	C	804	92.0	100.0	100.0	100.0
								Mean =	95.8	97.0	100.0	100.0
9	SP102000017385	0.402	lb ai/a		22 fl oz/a	EAPOWE	B	204	80.0	60.0	90.0	100.0
	Synchrony XP	0.107	oz ai/a	0.375	oz/a	EAPOWE	B	303	50.0	50.0	90.0	100.0
	Ammonium Sulfate	8.5	lb/100 gal	8.5	lb ai/100 gal	EAPOWE	B	603	98.0	80.0	100.0	100.0
								802	65.0	75.0	100.0	90.0
								Mean =	73.3	66.3	95.0	97.5
10	SP102000017385	0.402	lb ai/a		22 fl oz/a	EAPOWE	B	205	98.0	98.0	100.0	85.0
	Pursuit	0.0625	lb ai/a		4 fl oz/a	EAPOWE	B	401	99.0	100.0	100.0	100.0
	Ammonium Sulfate	8.5	lb/100 gal	8.5	lb ai/100 gal	EAPOWE	B	605	98.0	95.0	95.0	100.0
								901	95.0	95.0	100.0	95.0
								Mean =	97.5	97.0	98.8	95.0
11	SP102000017385	0.402	lb ai/a		22 fl oz/a	EAPOWE	B	301	98.0	100.0	80.0	100.0
	FirstRate	0.0158	lb ai/a		0.3 oz/a	EAPOWE	B	405	70.0	100.0	80.0	100.0
	Ammonium Sulfate	8.5	lb/100 gal	8.5	lb ai/100 gal	EAPOWE	B	602	98.0	95.0	80.0	100.0
								803	80.0	95.0	100.0	98.0
								Mean =	86.5	97.5	85.0	99.5
12	Untreated Check							302	0.0	0.0	0.0	0.0
								403	0.0	0.0	0.0	0.0
								604	0.0	0.0	0.0	0.0
								1003	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0

Purdue University

Demonstrate different PRE set-up programs for weed control utilizing a new formulation of glufosinate.

Trial ID: 07S-THP-CTS-15
Location: Throckmorton

Protocol ID:
Study Director: Vince Davis/ Kevin Westerfeld
Investigator: Dr. William G. Johnson

Pest Type	W Weed	W Weed	W Weed		W Weed	W Weed	W Weed							
Pest Code	SETFA	CHEAL	LAMAM		SETFA	CHEAL	IPHOE							
Pest Name	Giant foxta>	Common lamb>	Henbit		Giant foxta>	Common lamb>	Ivyleaf mor>							
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA							
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY							
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean							
Crop Variety	SG2579LL	SG2579LL	SG2579LL	SG2579LL	SG2579LL	SG2579LL	SG2579LL							
Description	Liberty Link	Liberty Link	Liberty Link	Liberty Link	Liberty Link	Liberty Link	Liberty Link							
Part Rated	PLADEA P	PLADEA P	PLADEA P	PLADEA C	PLADEA P	PLADEA P	PLADEA P							
Rating Date	May/23/2007	May/23/2007	May/23/2007	May/23/2007	May/29/2007	May/29/2007	May/29/2007							
Rating Data Type	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO							
Rating Unit	%	%	%	%	%	%	%							
Sample Size	12	2	3		12	2	1							
Sample Size Unit	YD2	YD2	YD2		YD2	YD2	M2							
Crop Stage	VE	VE	VE	VE	V1-2	V1-2	V1-2							
Crop Stage Scale	BBCH	BBCH	BBCH	BBCH	BBCH	BBCH	BBCH							
Crop Density, Unit														
Pest Stage	1-4 "	1-2 "	0-1 "		2-6 "	2-6 "	1-2 "							
Pest Density, Unit	12 YD2	2 YD2	3 YD2		12 YD2	2 YD2	1 M2							
Assessed By	KW AW BN	KW AW BN	KW AW BN	KW AW BN	WGJ	WGJ	WGJ							
Rating Timing	0 DAT	0 DAT	0 DAT	0 DAT	7 DAT	7 DAT	7 DAT							
Days After First/Last Applic.	14 0	14 0	14 0	14 0	20 6	20 6	20 6							
Plant-Eval Interval	14 DP-1	14 DP-1	14 DP-1	14 DP-1	20 DP-1	20 DP-1	20 DP-1							
Trt No.	Treatment Name	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	1	2	3	4	5	6	7
1	Untreated Check							0.0 b	0.0 b	0.0 b	0.0 a	0.0 b	0.0 b	0.0 b
2	Prowl H2O	1.42	lb ai/a	3	pt/a	PREPRE	A	35.0 ab	93.8 a	87.5 a	0.0 a	50.0 ab	87.5 a	75.0 a
	SP102000017385	0.402	lb ai/a	22	fl oz/a	MIPOWE	C							
	Ammonium Sulfate	8.5	lb/100 gal	8.5	lb ai/100 gal	MIPOWE	C							
3	Canopy DF	0.14	lb ai/a	3	oz/a	PREPRE	A	58.8 ab	93.8 a	98.8 a	0.0 a	69.5 a	87.5 a	92.5 a
	SP102000017385	0.402	lb ai/a	22	fl oz/a	MIPOWE	C							
	Ammonium Sulfate	8.5	lb/100 gal	8.5	lb ai/100 gal	MIPOWE	C							
4	Domain	0.525	lb ai/a	14	oz/a	PREPRE	A	58.8 ab	100.0 a	100.0 a	0.0 a	72.5 a	90.0 a	90.0 a
	SP102000017385	0.402	lb ai/a	22	fl oz/a	MIPOWE	C							
	Ammonium Sulfate	8.5	lb/100 gal	8.5	lb ai/100 gal	MIPOWE	C							
5	Valor XLT							48.8 ab	87.5 a	98.8 a	0.0 a	29.5 ab	92.5 a	100.0 a
	Valor	0.056	lb ai/a	1.76	oz/a	PREPRE	A							
	Classic	0.0194	lb ai/a	1.24	oz/a	PREPRE	A							
	SP102000017385	0.402	lb ai/a	22	fl oz/a	MIPOWE	C							
	Ammonium Sulfate	8.5	lb/100 gal	8.5	lb ai/100 gal	MIPOWE	C							
6	Authority First	0.175	lb ai/a	4	oz/a	PREPRE	A	85.0 a	92.5 a	97.5 a	0.0 a	71.8 a	90.0 a	100.0 a
	SP102000017385	0.402	lb ai/a	22	fl oz/a	MIPOWE	C							
	Ammonium Sulfate	8.5	lb/100 gal	8.5	lb ai/100 gal	MIPOWE	C							
7	Authority First	0.175	lb ai/a	4	oz/a	PREPRE	A	70.0 a	87.5 a	86.3 a	0.0 a	70.0 a	97.5 a	100.0 a
	SP102000017385	0.402	lb ai/a	22	fl oz/a	MIPOWE	C							
	Ammonium Sulfate	8.5	lb/100 gal	8.5	lb ai/100 gal	MIPOWE	C							
8	SP102000017385	0.402	lb ai/a	22	fl oz/a	EAPOWE	B	0.0 b	0.0 b	0.0 b	0.0 a	92.0 a	100.0 a	97.0 a
	Ammonium Sulfate	8.5	lb/100 gal	8.5	lb ai/100 gal	EAPOWE	B							
	SP102000017385	0.402	lb ai/a	22	fl oz/a	MIPOWE	C							
	Ammonium Sulfate	8.5	lb/100 gal	8.5	lb ai/100 gal	MIPOWE	C							
9	SP102000017385	0.402	lb ai/a	22	fl oz/a	EAPOWE	B	0.0 b	0.0 b	0.0 b	0.0 a	97.5 a	100.0 a	99.0 a
	Synchrony XP	0.107	oz ai/a	0.375	oz/a	EAPOWE	B							
	Ammonium Sulfate	8.5	lb/100 gal	8.5	lb ai/100 gal	EAPOWE	B							
10	SP102000017385	0.402	lb ai/a	22	fl oz/a	EAPOWE	B	0.0 b	0.0 b	0.0 b	0.0 a	98.5 a	100.0 a	92.5 a
	Pursuit	0.0625	lb ai/a	4	fl oz/a	EAPOWE	B							
	Ammonium Sulfate	8.5	lb/100 gal	8.5	lb ai/100 gal	EAPOWE	B							
11	SP102000017385	0.402	lb ai/a	22	fl oz/a	EAPOWE	B	0.0 b	0.0 b	0.0 b	0.0 a	71.3 a	97.5 a	98.5 a
	FirstRate	0.0158	lb ai/a	0.3	oz/a	EAPOWE	B							
	Ammonium Sulfate	8.5	lb/100 gal	8.5	lb ai/100 gal	EAPOWE	B							

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Pest Type	W Weed	W Weed	W Weed		W Weed	W Weed	W Weed
Pest Code	SETFA	CHEAL	LAMAM		SETFA	CHEAL	IPHOE
Pest Name	Giant foxta>	Common lamb>	Henbit		Giant foxta>	Common lamb>	Ivyleaf mor>
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean
Crop Variety	SG2579LL	SG2579LL	SG2579LL	SG2579LL	SG2579LL	SG2579LL	SG2579LL
Description	Liberty Link	Liberty Link	Liberty Link	Liberty Link	Liberty Link	Liberty Link	Liberty Link
Part Rated	PLADEA P	PLADEA P	PLADEA P	PLADEA C	PLADEA P	PLADEA P	PLADEA P
Rating Date	May/23/2007	May/23/2007	May/23/2007	May/23/2007	May/29/2007	May/29/2007	May/29/2007
Rating Data Type	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%	%
Sample Size	12	2	3		12	2	1
Sample Size Unit	YD2	YD2	YD2		YD2	YD2	M2
Crop Stage	VE	VE	VE	VE	V1-2	V1-2	V1-2
Crop Stage Scale	BBCH	BBCH	BBCH	BBCH	BBCH	BBCH	BBCH
Crop Density, Unit							
Pest Stage	1-4 "	1-2 "	0-1 "		2-6 "	2-6 "	1-2 "
Pest Density, Unit	12 YD2	2 YD2	3 YD2		12 YD2	2 YD2	1 M2
Assessed By	KW AW BN	KW AW BN	KW AW BN	KW AW BN	WGJ	WGJ	WGJ
Rating Timing	0 DAT	0 DAT	0 DAT	0 DAT	7 DAT	7 DAT	7 DAT
Days After First/Last Applic.	14 0	14 0	14 0	14 0	20 6	20 6	20 6
Plant-Eval Interval	14 DP-1	14 DP-1	14 DP-1	14 DP-1	20 DP-1	20 DP-1	20 DP-1
Trit	Treatment	Rate	Other	Other	Growth	Appl	
No.	Name	Rate	Unit	Rate	Rate	Unit	Stage
							Code
12	Untreated Check	0.0	b	0.0	b	0.0	b
		0.0	b	0.0	b	0.0	a
		0.0	b	0.0	b	0.0	b
		0.0	b	0.0	b	0.0	b
		0.0	b	0.0	b	0.0	b
		0.0	b	0.0	b	0.0	b
		0.0	b	0.0	b	0.0	b
LSD (P=.05)	41.09	17.93	13.01	0.00	41.92	18.19	16.72
Standard Deviation	28.46	12.42	9.01	0.00	29.03	12.60	11.58
CV	95.86	26.85	19.01	0.0	48.22	16.04	14.71
Bartlett's X2	9.2	2.876	20.681	0.0	34.341	11.077	36.322
P(Bartlett's X2)	0.101	0.579	0.001*	.	0.001*	0.086	0.001*
Replicate F	2.482	0.595	0.314	0.000	1.140	3.655	2.398
Replicate Prob(F)	0.0781	0.6230	0.8149	1.0000	0.3471	0.0222	0.0857
Treatment F	5.412	60.803	121.574	0.000	5.503	34.509	41.793
Treatment Prob(F)	0.0001	0.0001	0.0001	1.0000	0.0001	0.0001	0.0001

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

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Pest Type		W Weed	W Weed	W Weed	W Weed	W Weed							
Pest Code		SETFA	IPHOE	LAMAM	CHEAL	SETFA							
Pest Name		Giant foxta->	Ivyleaf mor->	Henbit	Common lamb->	Giant foxta->							
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA							
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY							
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean							
Crop Variety	SG2579LL	SG2579LL	SG2579LL	SG2579LL	SG2579LL	SG2579LL							
Description	Liberty Link	Liberty Link	Liberty Link	Liberty Link	Liberty Link	Liberty Link							
Part Rated	PLADEA C	PLADEA P	PLADEA P	PLADEA P	PLADEA P	PLADEA P							
Rating Date	May/29/2007	Jun/06/2007	Jun/06/2007	Jun/06/2007	Jun/06/2007	Jun/06/2007							
Rating Data Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN							
Rating Unit	%	%	%	%	%	%							
Sample Size		13	2	3	1	13							
Sample Size Unit		YD2	YD2	YD2	YD2	YD2							
Crop Stage	V1-2	V2-3	V2-3	V2-3	V2-3	V2-3							
Crop Stage Scale	BBCH	BBCH	BBCH	BBCH	BBCH	BBCH							
Crop Density, Unit		3 IN	3 IN	3 IN	3 IN	3 IN							
Pest Stage		0-10 "	0-2 "	0-2 "	0-2 "	12-36 "							
Pest Density, Unit		13 YD2	2 YD2	3 YD2	1 YD2	13 YD2							
Assessed By	WGJ	VM JD	VM JD	VM JD	VM JD	VM JD							
Rating Timing	7 DAT	14 DAT	14 DAT	14 DAT	14 DAT	14 DAT							
Days After First/Last Applic.	20 6	28 1	28 1	28 1	28 1	28 1							
Plant-Eval Interval	20 DP-1	28 DP-1	28 DP-1	28 DP-1	28 DP-1	28 DP-1							
Trt No.	Treatment Name	Rate	Other Rate	Other Rate Unit	Growth Stage	Appl Code	8	9	10	11	12	13	14
1	Untreated Check						0.0 a	0.0 c	0.0 c	0.0 c	0.0 b	0.0 a	0.0 c
2	Prowl H2O	1.42 lb ai/a	3 pt/a		PREPRE A		0.0 a	46.3 abc	56.3 ab	100.0 a	100.0 a	0.0 a	99.3 a
	SP102000017385	0.402 lb ai/a	22 fl oz/a		MIPOWE C								
	Ammonium Sulfate	8.5 lb/100 gal	8.5 lb ai/100 gal		MIPOWE C								
3	Canopy DF	0.14 lb ai/a	3 oz/a		PREPRE A		0.0 a	51.3 abc	65.0 a	100.0 a	87.5 a	0.0 a	98.5 a
	SP102000017385	0.402 lb ai/a	22 fl oz/a		MIPOWE C								
	Ammonium Sulfate	8.5 lb/100 gal	8.5 lb ai/100 gal		MIPOWE C								
4	Domain	0.525 lb ai/a	14 oz/a		PREPRE A		0.0 a	35.0 bc	28.8 bc	100.0 a	100.0 a	0.0 a	95.8 a
	SP102000017385	0.402 lb ai/a	22 fl oz/a		MIPOWE C								
	Ammonium Sulfate	8.5 lb/100 gal	8.5 lb ai/100 gal		MIPOWE C								
5	Valor XLT						0.0 a	47.3 abc	85.0 a	97.5 a	73.8 a	0.0 a	98.0 a
	Valor	0.056 lb ai/a	1.76 oz/a		PREPRE A								
	Classic	0.0194 lb ai/a	1.24 oz/a		PREPRE A								
	SP102000017385	0.402 lb ai/a	22 fl oz/a		MIPOWE C								
	Ammonium Sulfate	8.5 lb/100 gal	8.5 lb ai/100 gal		MIPOWE C								
6	Authority First	0.175 lb ai/a	4 oz/a		PREPRE A		0.0 a	46.3 abc	95.0 a	100.0 a	92.5 a	0.0 a	99.0 a
	SP102000017385	0.402 lb ai/a	22 fl oz/a		MIPOWE C								
	Ammonium Sulfate	8.5 lb/100 gal	8.5 lb ai/100 gal		MIPOWE C								
7	Authority First	0.175 lb ai/a	4 oz/a		PREPRE A		0.0 a	58.8 abc	98.8 a	97.5 a	88.8 a	0.0 a	98.5 a
	SP102000017385	0.402 lb ai/a	22 fl oz/a		MIPOWE C								
	Ammonium Sulfate	8.5 lb/100 gal	8.5 lb ai/100 gal		MIPOWE C								
8	SP102000017385	0.402 lb ai/a	22 fl oz/a		EAPOWE B		0.0 a	83.5 ab	73.5 a	80.0 b	100.0 a	0.0 a	95.8 a
	Ammonium Sulfate	8.5 lb/100 gal	8.5 lb ai/100 gal		EAPOWE B								
	SP102000017385	0.402 lb ai/a	22 fl oz/a		MIPOWE C								
	Ammonium Sulfate	8.5 lb/100 gal	8.5 lb ai/100 gal		MIPOWE C								
9	SP102000017385	0.402 lb ai/a	22 fl oz/a		EAPOWE B		0.0 a	93.5 ab	80.0 a	97.0 a	100.0 a	0.0 a	73.3 b
	Synchrony XP	0.107 oz ai/a	0.375 oz/a		EAPOWE B								
	Ammonium Sulfate	8.5 lb/100 gal	8.5 lb ai/100 gal		EAPOWE B								
10	SP102000017385	0.402 lb ai/a	22 fl oz/a		EAPOWE B		0.0 a	98.8 a	83.0 a	98.8 a	100.0 a	0.0 a	97.5 a
	Pursuit	0.0625 lb ai/a	4 fl oz/a		EAPOWE B								
	Ammonium Sulfate	8.5 lb/100 gal	8.5 lb ai/100 gal		EAPOWE B								
11	SP102000017385	0.402 lb ai/a	22 fl oz/a		EAPOWE B		0.0 a	90.0 ab	87.5 a	97.5 a	66.3 a	0.0 a	86.5 a
	FirstRate	0.0158 lb ai/a	0.3 oz/a		EAPOWE B								
	Ammonium Sulfate	8.5 lb/100 gal	8.5 lb ai/100 gal		EAPOWE B								
12	Untreated Check						0.0 a	0.0 c	0.0 c	0.0 c	0.0 b	0.0 a	0.0 c
LSD (P=.05)							0.00	37.48	29.70	5.67	25.31	0.00	10.67
Standard Deviation							0.00	25.96	20.57	3.93	17.53	0.00	7.39
CV							0.0	47.88	32.79	4.87	23.14	0.0	9.41
Bartlett's X2							0.0	32.916	22.681	9.009	2.548	0.0	51.55
P(Bartlett's X2)							.	0.001*	0.007*	0.109	0.636	.	0.001*

Purdue University

Pest Type		W Weed	W Weed	W Weed	W Weed		W Weed
Pest Code		SETFA	IPOHE	LAMAM	CHEAL		SETFA
Pest Name		Giant foxta>	Ivyleaf mor>	Henbit	Common lamb>		Giant foxta>
Crop Code	GLXMA						
BBCH Scale	BSOY						
Crop Name	Soybean						
Crop Variety	SG2579LL						
Description	Liberty Link						
Part Rated	PLADEA C	PLADEA P	PLADEA P	PLADEA P	PLADEA P	PLADEA C	PLADEA P
Rating Date	May/29/2007	Jun/06/2007	Jun/06/2007	Jun/06/2007	Jun/06/2007	Jun/06/2007	Jul/09/2007
Rating Data Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO
Rating Unit	%	%	%	%	%	%	%
Sample Size		13	2	3	1		13
Sample Size Unit		YD2	YD2	YD2	YD2		YD2
Crop Stage	V1-2	V2-3	V2-3	V2-3	V2-3	V2-3	R2
Crop Stage Scale	BBCH						
Crop Density, Unit		3 IN	22 IN				
Pest Stage		0-10 "	0-2 "	0-2 "	0-2 "		12-36 "
Pest Density, Unit		13 YD2	2 YD2	3 YD2	1 YD2		13 YD2
Assessed By	WGJ	VM JD	MK GK				
Rating Timing	7 DAT	14 DAT	14 DAT	14 DAT	14 DAT	14 DAT	35 DAT
Days After First/Last Applic.	20 6	28 1	28 1	28 1	28 1	28 1	61 34
Plant-Eval Interval	20 DP-1	28 DP-1	61 DP-1				

Replicate F	0.000	2.991	1.484	1.559	1.485	0.000	1.763
Replicate Prob(F)	1.0000	0.0449	0.2369	0.2177	0.2367	1.0000	0.1734
Treatment F	0.000	6.540	11.468	375.733	17.871	0.000	102.565
Treatment Prob(F)	1.0000	0.0001	0.0001	0.0001	0.0001	1.0000	0.0001

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

Purdue University

Pest Type							W Weed	W Weed	W Weed	
Pest Code							IPOHE	CHEAL	AMBTR	
Pest Name							Ivyleaf mor->	Common lamb->	Giant Ragwe->	
Crop Code							GLXMA	GLXMA	GLXMA	
BBCH Scale							BSOY	BSOY	BSOY	
Crop Name							Soybean	Soybean	Soybean	
Crop Variety							SG2579LL	SG2579LL	SG2579LL	
Description							Liberty Link	Liberty Link	Liberty Link	
Part Rated							PLADEA P	PLADEA P	PLADEA P	
Rating Date							Jul/09/2007	Jul/09/2007	Jul/09/2007	
Rating Data Type							CONTRO	CONTRO	CONTRO	
Rating Unit							%	%	%	
Sample Size							2	2	2	
Sample Size Unit							YD2	YD2	YD2	
Crop Stage							R2	R2	R2	
Crop Stage Scale							BBCH	BBCH	BBCH	
Crop Density, Unit							22 IN	22 IN	22 IN	
Pest Stage							1-40 "	6-40 "	24-48 "	
Pest Density, Unit							2 YD2	2 YD2	2 YD2	
Assessed By							MK GK	MK GK	MK GK	
Rating Timing							35 DAT	35 DAT	35 DAT	
Days After First/Last Applic.							61 34	61 34	61 34	
Plant-Eval Interval							61 DP-1	61 DP-1	61 DP-1	
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	15	16	17
1	Untreated Check							0.0 c	0.0 c	0.0 b
2	Prowl H2O	1.42	lb ai/a	3	pt/a	PREPRE A	A	98.3 a	100.0 a	99.5 a
	SP102000017385	0.402	lb ai/a	22	fl oz/a	MIPOWE C	C			
	Ammonium Sulfate	8.5	lb/100 gal	8.5	lb ai/100 gal	MIPOWE C	C			
3	Canopy DF	0.14	lb ai/a	3	oz/a	PREPRE A	A	95.8 a	98.8 a	97.5 a
	SP102000017385	0.402	lb ai/a	22	fl oz/a	MIPOWE C	C			
	Ammonium Sulfate	8.5	lb/100 gal	8.5	lb ai/100 gal	MIPOWE C	C			
4	Domain	0.525	lb ai/a	14	oz/a	PREPRE A	A	93.0 a	100.0 a	100.0 a
	SP102000017385	0.402	lb ai/a	22	fl oz/a	MIPOWE C	C			
	Ammonium Sulfate	8.5	lb/100 gal	8.5	lb ai/100 gal	MIPOWE C	C			
5	Valor XLT							99.5 a	100.0 a	100.0 a
	Valor	0.056	lb ai/a	1.76	oz/a	PREPRE A	A			
	Classic	0.0194	lb ai/a	1.24	oz/a	PREPRE A	A			
	SP102000017385	0.402	lb ai/a	22	fl oz/a	MIPOWE C	C			
	Ammonium Sulfate	8.5	lb/100 gal	8.5	lb ai/100 gal	MIPOWE C	C			
6	Authority First	0.175	lb ai/a	4	oz/a	PREPRE A	A	99.5 a	100.0 a	100.0 a
	SP102000017385	0.402	lb ai/a	22	fl oz/a	MIPOWE C	C			
	Ammonium Sulfate	8.5	lb/100 gal	8.5	lb ai/100 gal	MIPOWE C	C			
7	Authority First	0.175	lb ai/a	4	oz/a	PREPRE A	A	99.5 a	100.0 a	95.0 a
	SP102000017385	0.402	lb ai/a	22	fl oz/a	MIPOWE C	C			
	Ammonium Sulfate	8.5	lb/100 gal	8.5	lb ai/100 gal	MIPOWE C	C			
8	SP102000017385	0.402	lb ai/a	22	fl oz/a	EAPOWE B	B	97.0 a	100.0 a	100.0 a
	Ammonium Sulfate	8.5	lb/100 gal	8.5	lb ai/100 gal	EAPOWE B	B			
	SP102000017385	0.402	lb ai/a	22	fl oz/a	MIPOWE C	C			
	Ammonium Sulfate	8.5	lb/100 gal	8.5	lb ai/100 gal	MIPOWE C	C			
9	SP102000017385	0.402	lb ai/a	22	fl oz/a	EAPOWE B	B	66.3 b	95.0 a	97.5 a
	Synchrony XP	0.107	oz ai/a	0.375	oz/a	EAPOWE B	B			
	Ammonium Sulfate	8.5	lb/100 gal	8.5	lb ai/100 gal	EAPOWE B	B			
10	SP102000017385	0.402	lb ai/a	22	fl oz/a	EAPOWE B	B	97.0 a	98.8 a	95.0 a
	Pursuit	0.0625	lb ai/a	4	fl oz/a	EAPOWE B	B			
	Ammonium Sulfate	8.5	lb/100 gal	8.5	lb ai/100 gal	EAPOWE B	B			
11	SP102000017385	0.402	lb ai/a	22	fl oz/a	EAPOWE B	B	97.5 a	85.0 b	99.5 a
	FirstRate	0.0158	lb ai/a	0.3	oz/a	EAPOWE B	B			
	Ammonium Sulfate	8.5	lb/100 gal	8.5	lb ai/100 gal	EAPOWE B	B			
12	Untreated Check							0.0 c	0.0 c	0.0 b
LSD (P=.05)								7.55	5.04	5.96
Standard Deviation								5.23	3.49	4.13
CV								6.65	4.29	5.04
Bartlett's X2								36.386	7.561	17.488
P(Bartlett's X2)								0.001*	0.056	0.004*

Purdue University

Pest Type	W Weed	W Weed	W Weed
Pest Code	IPOHE	CHEAL	AMBTR
Pest Name	Ivyleaf mor>	Common lamb>	Giant Ragwe>
Crop Code	GLXMA	GLXMA	GLXMA
BBCH Scale	BSOY	BSOY	BSOY
Crop Name	Soybean	Soybean	Soybean
Crop Variety	SG2579LL	SG2579LL	SG2579LL
Description	Liberty Link	Liberty Link	Liberty Link
Part Rated	PLADEA P	PLADEA P	PLADEA P
Rating Date	Jul/09/2007	Jul/09/2007	Jul/09/2007
Rating Data Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Sample Size	2	2	2
Sample Size Unit	YD2	YD2	YD2
Crop Stage	R2	R2	R2
Crop Stage Scale	BBCH	BBCH	BBCH
Crop Density, Unit	22 IN	22 IN	22 IN
Pest Stage	1-40 "	6-40 "	24-48 "
Pest Density, Unit	2 YD2	2 YD2	2 YD2
Assessed By	MK GK	MK GK	MK GK
Rating Timing	35 DAT	35 DAT	35 DAT
Days After First/Last Applic.	61 34	61 34	61 34
Plant-Eval Interval	61 DP-1	61 DP-1	61 DP-1
Replicate F	0.941	0.969	0.837
Replicate Prob(F)	0.4321	0.4190	0.4835
Treatment F	209.175	481.321	344.658
Treatment Prob(F)	0.0001	0.0001	0.0001

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