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Demonstrate no-till weed control using glufosinate in soybeans.

Trial ID: 07S-SEP-NTS-38
Location: SEPAC

Protocol ID: 07S-SEP-NTS-38
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: 47097 **E-mail:** wgj@purdue.edu

Trial Location

City: Butlerville
State/Prov.: IN
Postal Code: 47223
Country: USA
Map Reference: Field U41
Directions:
Center of Trial is N39 01.889 and W085 31.740

Cooperator/Landowner

Cooperator: Southeast Purdue Ag Center **Country:** USA
Organization: Purdue University **Phone No:** 812-458-6977
Address 1: 4425 E Co Rd 350 N **Fax No:** 812-458-6979
Address 2: PO Box 216
City: Butlerville
State/Prov: IN
Postal Code: 47223

Crop Description

Crop 1: GLXMA Glycine max **Soybean**
Variety: SG2579LL Lot#SR2062A-Q **Description:** Liberty Link, Gaucho treated
BBCH Scale: BSOY **Planting Date:** May/15/2007
Planting Method: DIRECT DRILLED **Rate, Unit:** 130000 S/A
Depth, Unit: 1 IN
Row Spacing, Unit: 30 IN
Soil Moisture: Moist **Soil Temperature, Unit:** 67 F
Emergence Date: May/25/2007

Pest Description

Pest 1 Type: W **Code:** XANST **Xanthium strumarium**
Common Name: Common cocklebur
Pest 2 Type: W **Code:** PANDI **Panicum dichotomiflorum**
Common Name: Fall panicum

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD
Plot Length, Unit: 30 FT **Tillage Type:** NO-TILL
Replications: 4 **Study Design:** Randomized Complete Block
Soil Drainage: P Poor

Soil Description

Description Name: SEPAC U41
% OM: 1.4 **Texture:** SILT LOAM
pH: 6 **Soil Name:** Avonburg
CEC: 5 **Fert. Level:** GOOD

Additional Measured Elements

Element	Quantity	Unit
Phosphorus	15	PPM
Potassium	95	PPM
Calcium	735	PPM
Magnesium	134	PPM

Moisture and Weather Conditions

Closest Weather Station: Located on the farm **Distance:** 0.5 **Unit:** MI

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Application Description

	A	B
Application Date:	May/08/2007	Jun/06/2007
Time of Day:	3:30 PM	7:50 PM
Application Method:	SPRAY	Spray
Application Timing:	A: 7dEPP	B: EAPOWE
Application Placement:	BROFOL	BROFOL
Applied By:	KW AW	VMD GK
Air Temperature, Unit:	83 F	82 F
% Relative Humidity:	86	30
Wind Velocity, Unit:	6 MPH	2 MPH
Wind Direction:	SW	NE
Dew Presence (Y/N):	N	N
Water Hardness:	Hard	Hard
Soil Temperature, Unit:	70 F	80 F
Soil Moisture:	Dry	Dry
% Cloud Cover:	0	25

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:		BBCH
Stage Majority, Percent:		V1
Stage Minimum, Percent:		V1
Stage Maximum, Percent:		V2
Height, Unit:		3 IN
Height Minimum, Maximum:		2 5

Pest Stage At Each Application

	A	B
Pest 1 Code, Disc., Scale:	XANST W	XANST W
Height, Unit:		2 IN
Height Minimum, Maximum:		0 3
Density, Unit:		17 YD2
Pest 2 Code, Disc., Scale:	PANDI W	PANDI W
Height, Unit:		3 IN
Height Minimum, Maximum:		0 5
Density, Unit:		3 YD2

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Application Equipment

	A	B
Appl. Equipment:	Back Pack	Back Pack
Operating Pressure, Unit:	15 PSI	15 PSI
Nozzle Type:	XR	XR
Nozzle Size:	11002	11002
Nozzle Spacing, Unit:	15 IN	15 IN
Nozzles/Row:	6	6
Boom Length, Unit:	7.5 FT	7.5 FT
Boom Height, Unit:	15 IN	15 IN
Ground Speed, Unit:	3 MPH	3 MPH
Incorporation Equip.:	None	None
Hours to Incorp.:	0	0
Incorp. Depth, Unit:	0 IN	0 IN
Carrier:	TPAC H2O	TPAC H2O
Spray Volume, Unit:	15 GAL/AC	15 GAL/AC
Mix Size, Unit:	1.8 Liters	1.8 Liters
Propellant:	CO2	CO2
Tank Mix (Y/N):	Y	Y

Trial Comments

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Demonstrate no-till weed control using glufosinate in soybeans.

Trial ID: 07S-SEP-NTS-38
 Location: SEPAC

Protocol ID: 07S-SEP-NTS-38
 Study Director: Vince Davis/ Kevin Westerfeld
 Investigator: Dr. William G. Johnson

Pest Type															
Pest Code															
Pest Name															
Crop Code		GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
BBCH Scale		BSOY	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY
Crop Name		Soybean	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean
Crop Variety		SG2579LL	SG2579LL	SG2579LL	SG2579LL	SG2579LL	SG2579LL	SG2579LL	SG2579LL	SG2579LL	SG2579LL	SG2579LL	SG2579LL	SG2579LL	SG2579LL
Part Rated		PLAQUA C	PLAQUA P	PLAQUA P	PLAQUA P	PLAQUA P	PLAQUA P	PLAQUA P	PLAQUA P	PLAQUA P	PLAQUA P	PLAQUA P	PLAQUA P	PLAQUA C	PLAQUA C
Rating Date		Jun/07/2007	Jun/07/2007	Jun/07/2007	Jun/07/2007	Jun/07/2007	Jun/07/2007	Jun/07/2007	Jun/07/2007	Jun/07/2007	Jun/07/2007	Jun/07/2007	Jun/07/2007	Jun/13/2007	Jun/13/2007
Rating Data Type		PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN	PHYGEN
Rating Unit		%	%	%	%	%	%	%	%	%	%	%	%	%	%
Crop Stage		V1-2	V1-2	V1-2	V1-2	V1-2	V1-2	V1-2	V1-2	V1-2	V1-2	V1-2	V1-2	V1-2	V2-3
Pest Stage			1-8"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"
Pest Density, Unit			90 YD2	15 YD2	7 YD2	1 YD2	1 YD2	1 YD2	1 YD2	1 YD2	1 YD2	1 YD2	1 YD2	1 YD2	1 YD2
Assessed By		VMD & GK	VMD & GK	VMD & GK	VMD & GK	VMD & GK	VMD & GK	VMD & GK	VMD & GK	VMD & GK	VMD & GK	VMD & GK	VMD & GK	VMD & GK	AW & MK
Days After First/Last Applic.		30 1	30 1	30 1	30 1	30 1	30 1	30 1	30 1	30 1	30 1	30 1	30 1	30 1	36 7
Plant-Eval Interval		23 DP-1	23 DP-1	23 DP-1	23 DP-1	23 DP-1	23 DP-1	23 DP-1	23 DP-1	23 DP-1	23 DP-1	23 DP-1	23 DP-1	23 DP-1	29 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	
1	Untreated Check								101	205	301	404			
									0.0	0.0	0.0	0.0	0.0	0.0	
									0.0	0.0	0.0	0.0	0.0	0.0	
									0.0	0.0	0.0	0.0	0.0	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	
2	Roundup Original Max	0.77 lb ae/a		22 fl oz/a		7 d EPP	A	102	0.0	98.0	98.0	100.0	100.0	3.0	
	2,4-D Ester	0.5 lb ai/a		1 pt/a		7 d EPP	A	207	0.0	99.0	99.0	100.0	100.0	0.0	
	Valor XLT					7 d EPP	A	304	0.0	99.0	95.0	100.0	100.0	0.0	
	Valor	0.056 lb ai/a		1.76 oz/a		7 d EPP	A	405	0.0	99.0	99.0	100.0	100.0	3.0	
	Classic	0.0194 lb ai/a		1.24 oz/a		7 d EPP	A								
	Ammonium Sulfate	8.5 lb ai/100 gal		8.5 lb ai/100 gal		7 d EPP	A								
	SP102000017385	0.402 lb ai/a		22 fl oz/a		EAPOWE	B								
	Ammonium Sulfate	8.5 lb ai/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 ai/100 gal		8.5 lb ai/100 gal		MIPOWE	C								
	Mean =								0.0	98.8	97.8	100.0	100.0	1.5	
3	SP102000017385	0.402 lb ai/a		22 fl oz/a		7 d EPP	A	103	0.0	98.0	93.0	100.0	100.0	0.0	
	2,4-D Ester	0.5 lb ai/a		1 pt/a		7 d EPP	A	201	0.0	99.0	97.0	100.0	100.0	0.0	
	Valor XLT					7 d EPP	A	307	0.0	99.0	99.0	100.0	100.0	0.0	
	Valor	0.056 lb ai/a		1.76 oz/a		7 d EPP	A	406	0.0	95.0	98.0	100.0	100.0	0.0	
	Classic	0.0194 lb ai/a		1.24 oz/a		7 d EPP	A								
	Ammonium Sulfate	8.5 lb ai/100 gal		8.5 lb ai/100 gal		7 d EPP	A								
	SP102000017385	0.402 lb ai/a		22 fl oz/a		EAPOWE	B								
	Ammonium Sulfate	8.5 lb ai/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 ai/100 gal		8.5 lb ai/100 gal		MIPOWE	C								
	Mean =								0.0	97.8	96.8	100.0	100.0	0.0	
4	Liberty	0.418 lb ai/a		32 fl oz/a		7 d EPP	A	104	0.0	98.0	93.0	100.0	100.0	0.0	
	2,4-D Ester	0.5 lb ai/a		1 pt/a		7 d EPP	A	206	0.0	99.0	90.0	100.0	100.0	0.0	
	Valor XLT					7 d EPP	A	302	0.0	97.0	98.0	100.0	100.0	2.0	
	Valor	0.056 lb ai/a		1.76 oz/a		7 d EPP	A	407	0.0	98.0	98.0	100.0	100.0	0.0	
	Classic	0.0194 lb ai/a		1.24 oz/a		7 d EPP	A								
	Ammonium Sulfate	8.5 lb ai/100 gal		8.5 lb ai/100 gal		7 d EPP	A								
	Liberty	0.418 lb ai/a		32 fl oz/a		EAPOWE	B								
	Ammonium Sulfate	8.5 lb ai/100 gal		8.5 lb ai/100 gal		EAPOWE	B								
	Liberty	0.418 lb ai/a		32 fl oz/a		MIPOWE	C								
	Ammonium Sulfate	8.5 lb ai/100 gal		8.5 lb ai/100 gal		MIPOWE	C								
	Mean =								0.0	98.0	94.8	100.0	100.0	0.5	

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Pest Type		W Weed	W Weed	W Weed	W Weed	
Pest Code		PANDI	XANST	ERICA	AMBEL	
Pest Name		Fall panicum	Common cock->	Horseweed	Common ragw->	
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
Part Rated	PLAQUA C	PLAQUA P	PLAQUA P	PLAQUA P	PLAQUA P	PLAQUA C
Rating Date	Jun/07/2007	Jun/07/2007	Jun/07/2007	Jun/07/2007	Jun/07/2007	Jun/13/2007
Rating Data Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN
Rating Unit	%	%	%	%	%	%
Crop Stage	V1-2	V1-2	V1-2	V1-2	V1-2	V2-3
Pest Stage		1-8"	0-6"	0-6"	4-8"	
Pest Density, Unit		90 YD2	15 YD2	7 YD2	1 YD2	
Assessed By	VMD & GK	VMD & GK	VMD & GK	VMD & GK	VMD & GK	AW & MK
Days After First/Last Applic.	30 1	30 1	30 1	30 1	30 1	36 7
Plant-Eval Interval	23 DP-1	23 DP-1	23 DP-1	23 DP-1	23 DP-1	29 DP-1

Trt No.	Treatment Name	Rate	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Plot	1	2	3	4	5	6
5	Roundup Original Max	0.77 lb ae/a	22 fl oz/a		7 d EPP	A	105	0.0	99.0	98.0	100.0	100.0	0.0
	2,4-D Ester	0.5 lb ai/a	1 pt/a		7 d EPP	A	202	0.0	99.0	98.0	100.0	100.0	1.0
	Canopy DF	0.14 lb ai/a	3 oz/a		7 d EPP	A	305	0.0	99.0	97.0	100.0	100.0	0.0
	Ammonium Sulfate	8.5 lb ai/100 gal	8.5 lb ai/100 gal		7 d EPP	A	403	0.0	98.0	90.0	100.0	100.0	0.0
	SP102000017385	0.402 lb ai/a	22 fl oz/a		EAPOWE	B							
	Ammonium Sulfate	8.5 lb ai/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 ai/100 gal	8.5 lb ai/100 gal		MIPOWE	C							
	Mean =							0.0	98.8	95.8	100.0	100.0	0.3
6	Roundup Original Max	0.77 lb ae/a	22 fl oz/a		7 d EPP	A	106	0.0	98.0	97.0	100.0	100.0	5.0
	2,4-D Ester	0.5 lb ai/a	1 pt/a		7 d EPP	A	203	0.0	98.0	90.0	100.0	100.0	2.0
	Authority First	0.175 lb ai/a	4 oz/a		7 d EPP	A	306	0.0	99.0	95.0	100.0	100.0	0.0
	Ammonium Sulfate	8.5 lb ai/100 gal	8.5 lb ai/100 gal		7 d EPP	A	402	0.0	99.0	98.0	100.0	100.0	1.0
	SP102000017385	0.402 lb ai/a	22 fl oz/a		EAPOWE	B							
	Ammonium Sulfate	8.5 lb ai/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 ai/100 gal	8.5 lb ai/100 gal		MIPOWE	C							
	Mean =							0.0	98.5	95.0	100.0	100.0	2.0
7	Extreme	0.81 lb ai/a	3 pt/a		7 d EPP	A	107	0.0	99.0	98.0	100.0	100.0	0.0
	2,4-D Ester	0.5 lb ai/a	1 pt/a		7 d EPP	A	204	0.0	98.0	85.0	100.0	100.0	2.0
	Ammonium Sulfate	8.5 lb ai/100 gal	8.5 lb ai/100 gal		7 d EPP	A	303	0.0	99.0	90.0	100.0	100.0	2.0
	SP102000017385	0.402 lb ai/a	22 fl oz/a		EAPOWE	B	401	0.0	95.0	98.0	100.0	100.0	0.0
	Ammonium Sulfate	8.5 lb ai/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 ai/100 gal	8.5 lb ai/100 gal		MIPOWE	C							
	Mean =							0.0	97.8	92.8	100.0	100.0	1.0

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								W Weed	W Weed	W Weed	W Weed		
								PANDI	XANST	ERICA	AMBEL		
								Fall panicum	Common cock->	Horseweed	Common ragw->		
Pest Type								GLXMA	GLXMA	GLXMA	GLXMA		
Pest Code								BSOY	BSOY	BSOY	BSOY		
Pest Name								Soybean	Soybean	Soybean	Soybean		
Crop Code								SG2579LL	SG2579LL	SG2579LL	SG2579LL		
BBCH Scale								PLAQUA C	PLAQUA P	PLAQUA P	PLAQUA P		
Crop Name								Jul/10/2007	Jul/10/2007	Jul/10/2007	Jul/10/2007		
Crop Variety								PHYGEN	CONTRO	CONTRO	CONTRO		
Part Rated								%	%	%	%		
Rating Date								R2	R2	R2	R2		
Rating Data Type								6-36"	4-24"	4-32"	4-30"		
Rating Unit								90 YD2	15 YD2	7 YD2	1 YD2		
Crop Stage								VMD	VMD	VMD	VMD		
Pest Stage								63 34	63 34	63 34	63 34		
Pest Density, Unit								56 DP-1	56 DP-1	56 DP-1	56 DP-1		
Assessed By													
Days After First/Last Applic.													
Plant-Eval Interval													
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code	Plot	7	8	9	10	11
1	Untreated Check							101	0.0	0.0	0.0	0.0	0.0
								205	0.0	0.0	0.0	0.0	0.0
								301	0.0	0.0	0.0	0.0	0.0
								404	0.0	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0	0.0
2	Roundup Original Max	0.77	lb ae/a	22	fl oz/a	7 d EPP	A	102	0.0	98.0	98.0	100.0	100.0
	2,4-D Ester	0.5	lb ai/a	1	pt/a	7 d EPP	A	207	0.0	98.0	98.0	100.0	100.0
	Valor XLT					7 d EPP	A	304	0.0	98.0	85.0	100.0	100.0
	Valor	0.056	lb ai/a	1.76	oz/a	7 d EPP	A	405	0.0	99.0	97.0	100.0	100.0
	Classic	0.0194	lb ai/a	1.24	oz/a	7 d EPP	A						
	Ammonium Sulfate	8.5	lb ai/100 gal	8.5	lb ai/100 gal	7 d EPP	A						
	SP102000017385	0.402	lb ai/a	22	fl oz/a	EAPOWE	B						
	Ammonium Sulfate	8.5	lb ai/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 ai/100 gal	8.5	lb ai/100 gal	MIPOWE	C						
								Mean =	0.0	98.3	94.5	100.0	100.0
3	SP102000017385	0.402	lb ai/a	22	fl oz/a	7 d EPP	A	103	0.0	98.0	90.0	100.0	100.0
	2,4-D Ester	0.5	lb ai/a	1	pt/a	7 d EPP	A	201	0.0	96.0	90.0	100.0	100.0
	Valor XLT					7 d EPP	A	307	0.0	98.0	98.0	100.0	100.0
	Valor	0.056	lb ai/a	1.76	oz/a	7 d EPP	A	406	0.0	98.0	97.0	100.0	100.0
	Classic	0.0194	lb ai/a	1.24	oz/a	7 d EPP	A						
	Ammonium Sulfate	8.5	lb ai/100 gal	8.5	lb ai/100 gal	7 d EPP	A						
	SP102000017385	0.402	lb ai/a	22	fl oz/a	EAPOWE	B						
	Ammonium Sulfate	8.5	lb ai/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 ai/100 gal	8.5	lb ai/100 gal	MIPOWE	C						
								Mean =	0.0	97.5	93.8	100.0	100.0
4	Liberty	0.418	lb ai/a	32	fl oz/a	7 d EPP	A	104	0.0	98.0	85.0	100.0	100.0
	2,4-D Ester	0.5	lb ai/a	1	pt/a	7 d EPP	A	206	0.0	98.0	97.0	100.0	100.0
	Valor XLT					7 d EPP	A	302	0.0	95.0	93.0	100.0	100.0
	Valor	0.056	lb ai/a	1.76	oz/a	7 d EPP	A	407	0.0	98.0	97.0	100.0	100.0
	Classic	0.0194	lb ai/a	1.24	oz/a	7 d EPP	A						
	Ammonium Sulfate	8.5	lb ai/100 gal	8.5	lb ai/100 gal	7 d EPP	A						
	Liberty	0.418	lb ai/a	32	fl oz/a	EAPOWE	B						
	Ammonium Sulfate	8.5	lb ai/100 gal	8.5	lb ai/100 gal	EAPOWE	B						
	Liberty	0.418	lb ai/a	32	fl oz/a	MIPOWE	C						
	Ammonium Sulfate	8.5	lb ai/100 gal	8.5	lb ai/100 gal	MIPOWE	C						
								Mean =	0.0	97.3	93.0	100.0	100.0
5	Roundup Original Max	0.77	lb ae/a	22	fl oz/a	7 d EPP	A	105	0.0	98.0	95.0	100.0	100.0
	2,4-D Ester	0.5	lb ai/a	1	pt/a	7 d EPP	A	202	0.0	99.0	97.0	100.0	100.0
	Canopy DF	0.14	lb ai/a	3	oz/a	7 d EPP	A	305	0.0	98.0	90.0	100.0	100.0
	Ammonium Sulfate	8.5	lb ai/100 gal	8.5	lb ai/100 gal	7 d EPP	A	403	0.0	98.0	80.0	100.0	100.0
	SP102000017385	0.402	lb ai/a	22	fl oz/a	EAPOWE	B						
	Ammonium Sulfate	8.5	lb ai/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 ai/100 gal	8.5	lb ai/100 gal	MIPOWE	C						
								Mean =	0.0	98.3	90.5	100.0	100.0

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								W Weed	W Weed	W Weed	W Weed		
								PANDI	XANST	ERICA	AMBEL		
								Fall panicum	Common cock->	Horseweed	Common ragw->		
Pest Type								GLXMA	GLXMA	GLXMA	GLXMA		
Pest Code								BSOY	BSOY	BSOY	BSOY		
Pest Name								Soybean	Soybean	Soybean	Soybean		
Crop Code								SG2579LL	SG2579LL	SG2579LL	SG2579LL		
BBCH Scale								PLAQUA C	PLAQUA P	PLAQUA P	PLAQUA P		
Crop Name								Jul/10/2007	Jul/10/2007	Jul/10/2007	Jul/10/2007		
Crop Variety								PHYGEN	CONTRO	CONTRO	CONTRO		
Part Rated								%	%	%	%		
Rating Date								R2	R2	R2	R2		
Rating Data Type								6-36"	4-24"	4-32"	4-30"		
Rating Unit								90 YD2	15 YD2	7 YD2	1 YD2		
Crop Stage								VMD	VMD	VMD	VMD		
Pest Stage								63 34	63 34	63 34	63 34		
Pest Density, Unit								56 DP-1	56 DP-1	56 DP-1	56 DP-1		
Assessed By													
Days After First/Last Applic.													
Plant-Eval Interval													
Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Growth Stage	Appl Code	Plot	7	8	9	10	11
6	Roundup Original Max	0.77	lb ae/a	22	fl oz/a	7 d EPP	A	106	0.0	98.0	97.0	100.0	100.0
	2,4-D Ester	0.5	lb ai/a	1	pt/a	7 d EPP	A	203	0.0	98.0	83.0	100.0	100.0
	Authority First	0.175	lb ai/a	4	oz/a	7 d EPP	A	306	0.0	98.0	93.0	100.0	100.0
	Ammonium Sulfate	8.5	lb ai/100 gal	8.5	lb ai/100 gal	7 d EPP	A	402	0.0	95.0	93.0	100.0	100.0
	SP102000017385	0.402	lb ai/a	22	fl oz/a	EAPOWE	B						
	Ammonium Sulfate	8.5	lb ai/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 ai/100 gal	8.5	lb ai/100 gal	MIPOWE	C						
	Mean =								0.0	97.3	91.5	100.0	100.0
7	Extreme	0.81	lb ai/a	3	pt/a	7 d EPP	A	107	0.0	98.0	95.0	100.0	100.0
	2,4-D Ester	0.5	lb ai/a	1	pt/a	7 d EPP	A	204	0.0	98.0	70.0	100.0	100.0
	Ammonium Sulfate	8.5	lb ai/100 gal	8.5	lb ai/100 gal	7 d EPP	A	303	0.0	96.0	65.0	100.0	100.0
	SP102000017385	0.402	lb ai/a	22	fl oz/a	EAPOWE	B	401	0.0	93.0	93.0	100.0	100.0
	Ammonium Sulfate	8.5	lb ai/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 ai/100 gal	8.5	lb ai/100 gal	MIPOWE	C						
	Mean =								0.0	96.3	80.8	100.0	100.0

Purdue University

Pest Type		W Weed	W Weed	W Weed	W Weed	
Pest Code		PANDI	XANST	ERICA	AMBEL	
Pest Name		Fall panicum	Common cock->	Horseweed	Common ragw->	
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
Part Rated	PLAQUA C	PLAQUA P	PLAQUA P	PLAQUA P	PLAQUA P	PLAQUA C
Rating Date	Jun/07/2007	Jun/07/2007	Jun/07/2007	Jun/07/2007	Jun/07/2007	Jun/13/2007
Rating Data Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN
Rating Unit	%	%	%	%	%	%
Crop Stage	V1-2	V1-2	V1-2	V1-2	V1-2	V2-3
Pest Stage		1-8"	0-6"	0-6"	4-8"	
Pest Density, Unit		90 YD2	15 YD2	7 YD2	1 YD2	
Assessed By	VMD & GK	VMD & GK	VMD & GK	VMD & GK	VMD & GK	AW & MK
Days After First/Last Applic.	30 1	30 1	30 1	30 1	30 1	36 7
Plant-Eval Interval	23 DP-1	23 DP-1	23 DP-1	23 DP-1	23 DP-1	29 DP-1

Trt No.	Treatment Name	Rate	Other Rate	Other Rate Unit	Growth Stage	Appl Code	1	2	3	4	5	6
6	Roundup Original Max	0.77 lb ae/a	22 fl oz/a		7 d EPP	A	0.0 a	98.5 a	95.0 a	100.0 a	100.0 a	2.0 a
	2,4-D Ester	0.5 lb ai/a	1 pt/a		7 d EPP	A						
	Authority First	0.175 lb ai/a	4 oz/a		7 d EPP	A						
	Ammonium Sulfate	8.5 lb ai/100 gal	8.5 lb ai/100 gal		7 d EPP	A						
	SP102000017385	0.402 lb ai/a	22 fl oz/a		EAPOWE	B						
	Ammonium Sulfate	8.5 lb ai/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 ai/100 gal	8.5 lb ai/100 gal		MIPOWE	C						
7	Extreme	0.81 lb ai/a	3 pt/a		7 d EPP	A	0.0 a	97.8 a	92.8 a	100.0 a	100.0 a	1.0 a
	2,4-D Ester	0.5 lb ai/a	1 pt/a		7 d EPP	A						
	Ammonium Sulfate	8.5 lb ai/100 gal	8.5 lb ai/100 gal		7 d EPP	A						
	SP102000017385	0.402 lb ai/a	22 fl oz/a		EAPOWE	B						
	Ammonium Sulfate	8.5 lb ai/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 ai/100 gal	8.5 lb ai/100 gal		MIPOWE	C						

LSD (P=.05)	0.00	1.56	5.47	0.00	0.00	1.89
Standard Deviation	0.00	1.05	3.68	0.00	0.00	1.27
CV	0.0	1.25	4.5	0.0	0.0	169.86
Bartlett's X2	0.0	10.792	4.495	0.0	0.0	5.711
P(Bartlett's X2)	.	0.056	0.481	.	.	0.222
Replicate F	0.000	1.856	0.971	0.000	0.000	0.315
Replicate Prob(F)	1.0000	0.1732	0.4279	1.0000	1.0000	0.8140
Treatment F	0.000	5000.828	384.527	0.000	0.000	1.489
Treatment Prob(F)	1.0000	0.0001	0.0001	1.0000	1.0000	0.2376

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	W Weed						
Pest Code		PANDI	XANST	ERICA	AMBEL						
Pest Name		Fall panicum	Common cock->	Horseweed	Common ragw->						
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA						
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY						
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean						
Crop Variety	SG2579LL	SG2579LL	SG2579LL	SG2579LL	SG2579LL						
Part Rated	PLAQUA C	PLAQUA P	PLAQUA P	PLAQUA P	PLAQUA P						
Rating Date	Jul/10/2007	Jul/10/2007	Jul/10/2007	Jul/10/2007	Jul/10/2007						
Rating Data Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO						
Rating Unit	%	%	%	%	%						
Crop Stage	R2	R2	R2	R2	R2						
Pest Stage		6-36"	4-24"	4-32"	4-30"						
Pest Density, Unit		90 YD2	15 YD2	7 YD2	1 YD2						
Assessed By	VMD	VMD	VMD	VMD	VMD						
Days After First/Last Applic.	63 34	63 34	63 34	63 34	63 34						
Plant-Eval Interval	56 DP-1	56 DP-1	56 DP-1	56 DP-1	56 DP-1						
Trt No.	Treatment Name	Rate	Other Rate	Other Rate Unit	Growth Stage	Appl Code	7	8	9	10	11
1	Untreated Check						0.0 a	0.0 b	0.0 b	0.0 b	0.0 b
2	Roundup Original Max	0.77 lb ae/a	22 fl oz/a		7 d EPP	A	0.0 a	98.3 a	94.5 a	100.0 a	100.0 a
	2,4-D Ester	0.5 lb ai/a	1 pt/a		7 d EPP	A					
	Valor XLT				7 d EPP	A					
	Valor	0.056 lb ai/a	1.76 oz/a		7 d EPP	A					
	Classic	0.0194 lb ai/a	1.24 oz/a		7 d EPP	A					
	Ammonium Sulfate	8.5 lb ai/100 gal	8.5 lb ai/100 gal		7 d EPP	A					
	SP102000017385	0.402 lb ai/a	22 fl oz/a		EAPOWE	B					
	Ammonium Sulfate	8.5 lb ai/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 ai/100 gal	8.5 lb ai/100 gal		MIPOWE	C					
3	SP102000017385	0.402 lb ai/a	22 fl oz/a		7 d EPP	A	0.0 a	97.5 a	93.8 a	100.0 a	100.0 a
	2,4-D Ester	0.5 lb ai/a	1 pt/a		7 d EPP	A					
	Valor XLT				7 d EPP	A					
	Valor	0.056 lb ai/a	1.76 oz/a		7 d EPP	A					
	Classic	0.0194 lb ai/a	1.24 oz/a		7 d EPP	A					
	Ammonium Sulfate	8.5 lb ai/100 gal	8.5 lb ai/100 gal		7 d EPP	A					
	SP102000017385	0.402 lb ai/a	22 fl oz/a		EAPOWE	B					
	Ammonium Sulfate	8.5 lb ai/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 ai/100 gal	8.5 lb ai/100 gal		MIPOWE	C					
4	Liberty	0.418 lb ai/a	32 fl oz/a		7 d EPP	A	0.0 a	97.3 a	93.0 a	100.0 a	100.0 a
	2,4-D Ester	0.5 lb ai/a	1 pt/a		7 d EPP	A					
	Valor XLT				7 d EPP	A					
	Valor	0.056 lb ai/a	1.76 oz/a		7 d EPP	A					
	Classic	0.0194 lb ai/a	1.24 oz/a		7 d EPP	A					
	Ammonium Sulfate	8.5 lb ai/100 gal	8.5 lb ai/100 gal		7 d EPP	A					
	Liberty	0.418 lb ai/a	32 fl oz/a		EAPOWE	B					
	Ammonium Sulfate	8.5 lb ai/100 gal	8.5 lb ai/100 gal		EAPOWE	B					
	Liberty	0.418 lb ai/a	32 fl oz/a		MIPOWE	C					
	Ammonium Sulfate	8.5 lb ai/100 gal	8.5 lb ai/100 gal		MIPOWE	C					
5	Roundup Original Max	0.77 lb ae/a	22 fl oz/a		7 d EPP	A	0.0 a	98.3 a	90.5 a	100.0 a	100.0 a
	2,4-D Ester	0.5 lb ai/a	1 pt/a		7 d EPP	A					
	Canopy DF	0.14 lb ai/a	3 oz/a		7 d EPP	A					
	Ammonium Sulfate	8.5 lb ai/100 gal	8.5 lb ai/100 gal		7 d EPP	A					
	SP102000017385	0.402 lb ai/a	22 fl oz/a		EAPOWE	B					
	Ammonium Sulfate	8.5 lb ai/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 ai/100 gal	8.5 lb ai/100 gal		MIPOWE	C					
6	Roundup Original Max	0.77 lb ae/a	22 fl oz/a		7 d EPP	A	0.0 a	97.3 a	91.5 a	100.0 a	100.0 a
	2,4-D Ester	0.5 lb ai/a	1 pt/a		7 d EPP	A					
	Authority First	0.175 lb ai/a	4 oz/a		7 d EPP	A					
	Ammonium Sulfate	8.5 lb ai/100 gal	8.5 lb ai/100 gal		7 d EPP	A					
	SP102000017385	0.402 lb ai/a	22 fl oz/a		EAPOWE	B					
	Ammonium Sulfate	8.5 lb ai/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 ai/100 gal	8.5 lb ai/100 gal		MIPOWE	C					

Purdue University

Pest Type		W Weed	W Weed	W Weed	W Weed						
Pest Code		PANDI	XANST	ERICA	AMBEL						
Pest Name		Fall panicum	Common cock->	Horseweed	Common ragw->						
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA						
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY						
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean						
Crop Variety	SG2579LL	SG2579LL	SG2579LL	SG2579LL	SG2579LL						
Part Rated	PLAQUA C	PLAQUA P	PLAQUA P	PLAQUA P	PLAQUA P						
Rating Date	Jul/10/2007	Jul/10/2007	Jul/10/2007	Jul/10/2007	Jul/10/2007						
Rating Data Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO						
Rating Unit	%	%	%	%	%						
Crop Stage	R2	R2	R2	R2	R2						
Pest Stage		6-36"	4-24"	4-32"	4-30"						
Pest Density, Unit		90 YD2	15 YD2	7 YD2	1 YD2						
Assessed By	VMD	VMD	VMD	VMD	VMD						
Days After First/Last Applic.	63 34	63 34	63 34	63 34	63 34						
Plant-Eval Interval	56 DP-1	56 DP-1	56 DP-1	56 DP-1	56 DP-1						
Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Growth Stage	Appl Code	7	8	9	10	11
7	Extreme	0.81 lb ai/a	3 pt/a	7 d EPP	A		0.0 a	96.3 a	80.8 a	100.0 a	100.0 a
	2,4-D Ester	0.5 lb ai/a	1 pt/a	7 d EPP	A						
	Ammonium Sulfate	8.5 lb ai/100 gal	8.5 lb ai/100 gal	7 d EPP	A						
	SP102000017385	0.402 lb ai/a	22 fl oz/a	EAPOWE	B						
	Ammonium Sulfate	8.5 lb ai/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 ai/100 gal	8.5 lb ai/100 gal	MIPOWE	C						
	LSD (P=.05)	0.00	1.92	11.83	0.00	0.00					
	Standard Deviation	0.00	1.29	7.96	0.00	0.00					
	CV	0.0	1.55	10.25	0.0	0.0					
	Bartlett's X2	0.0	9.275	6.405	0.0	0.0					
	P(Bartlett's X2)	.	0.099	0.269	.	.					
	Replicate F	0.000	0.933	0.681	0.000	0.000					
	Replicate Prob(F)	1.0000	0.4449	0.5753	1.0000	1.0000					
	Treatment F	0.000	3249.884	75.453	0.000	0.000					
	Treatment Prob(F)	1.0000	0.0001	0.0001	1.0000	1.0000					

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.