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Ignite plus residual hebicide early post.

Trial ID: 10S-THP-CTS-50 Protocol ID: 10S-THP-CTS-50
 Location: Throckmorton Study Director: White/Marquardt
 Project ID: Investigator: Dr. Bill Johnson
 Sponsor Contact: Bayer - Dave Lamore Valent - Eric Ott

General Trial Information

Study Director: Paul Marquardt/Mike White **Title:** Research Associate
Investigator: Dr. William G. Johnson **Title:** Professor

Discipline: H herbicide
Trial Status: E established
Initiation Date: 3-22-2010

Trial Location

City: Lafayette USA 49.376656 - 24.53833
State/Prov.: IN -124.715843 - -66.968887
Postal Code: 47909
Country: USA

Personnel

Study Director: Paul Marquardt/Mike White **Title:** Research Associate

Affiliation: Purdue University
Address: 915 W. State St., Botany and Plant Pathology
Location: West Lafayette, IN

Postal Code: 47907 **E-mail:** pmarquar@purdue.edu

Phone No.: 765-494-4621

Investigator: Dr. William G. Johnson **Title:** Professor

Affiliation: Purdue University
Address: 915 W. State St.
Location: West Lafayette, IN USA

Postal Code: 47907 **E-mail:** wgj@purdue.edu

Phone No.: 765-494-4656

Cooperator/Landowner

Cooperator: Throckmorton Purdue Ag Center **Role:** Purdue Ag Center
Organization: Purdue University
Address 1: 8343 US 231 S

City: Lafayette

Phone No.: 765-538-3422

Fax No.: 765-538-3423

State/Prov: IN

Postal Code: 47909

E-mail: jayyoung@purdue.edu

Country: US

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: BECKS 284L **Description:** Liberty Link
BBCH Scale: BSOY **Planting Date:** 5-28-2010
Row Spacing, Unit: 30 IN
Emergence Date: 6-3-2010

Pest Description

Pest 1 Type: W **Code:** AMBTR Ambrosia trifida
Common Name: Giant ragweed

Pest 2 Type: W **Code:** SETFA Setaria faberi
Common Name: Giant foxtail

Pest 3 Type: W **Code:** IPOHE Ipomoea hederacea
Common Name: Ivyleaf morningglory

Pest 4 Type: W **Code:** ABUTH Abutilon theophrasti
Common Name: Velvetleaf

Site and Design

Plot Width, Unit: 10 FT

Plot Length, Unit: 30 FT

Plot Area, Unit: 300 FT²

Replications: 4

Site Type: FIELD field

Experimental Unit: 1 PLOT plot

Tillage Type: CONTIL conventional-till

Study Design: RACOB Randomized Complete Block (RCB)

Untreated Arrangement: INCLUDED single control randomized in each block

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Soil Description

Description Name: TPAC Field 4B
% OM: 2.9 **Texture:** SIL silt loam
pH: 6.2 **Soil Name:** Toronto-Millbrook
CEC: 13.3 **Fert. Level:** G good

Application Description

	A	B	C
Application Date:	5-28-2010	6-17-2010	6-25-2010
Time of Day:	8 AM	8 AM	8:30 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	ATPLAN	EAPOCR	MIPOWE
Application Placement:	FOLIAR	FOLIAR	FOLIAR
Applied By:	MH	CB	CB
Air Temperature, Unit:	68 F	82 F	74 F
% Relative Humidity:	59	71	70
Wind Velocity, Unit:	4.3 MPH	1 MPH	1 MPH
Wind Direction:	SW	N	S
Dew Presence (Y/N):	N no	Y yes	Y yes
Soil Temperature, Unit:	73 F	75 F	70 F
Soil Moisture:	DRY	WET	WET
% Cloud Cover:	20	50	0

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:		BBCH	BBCH
Stage Majority, Percent:		V2	V2
Height, Unit:		7.5 IN	8 IN
Height Minimum, Maximum:		7 8	7 9

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Pest Stage At Each Application			
	A	B	C
Pest 1 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W
Height, Unit:		6 IN	8.5 IN
Height Minimum, Maximum:		5 7	7 10
Density, Unit:		10 YD2	15 YD2
Pest 2 Code, Type, Scale:	SETFA W	SETFA W	SETFA W
Height, Unit:		5 IN	5 IN
Height Minimum, Maximum:		4 6	2 8
Density, Unit:		50 YD2	40 YD2
Pest 3 Code, Type, Scale:	IPOHE W	IPOHE W	IPOHE W
Height, Unit:		4 IN	6 IN
Height Minimum, Maximum:		3 5	5 7
Density, Unit:		9 YD2	4 YD2
Pest 4 Code, Type, Scale:	ABUTH W	ABUTH W	ABUTH W
Height, Unit:			7 IN
Height Minimum, Maximum:			6 8
Density, Unit:			5 YD2

Application Equipment			
	A	B	C
Appl. Equipment:	CO2 BKP	CO2 BKP	CO2 BKP
Equipment Type:	SPRBAC	SPRBAC	SPRBAC
Operating Pressure, Unit:	17 PSI	17 PSI	17 PSI
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN
Nozzle Size:	XR 110 02	XR 110 02	XR 110 02
Nozzle Spacing, Unit:	15 IN	15 IN	15 IN
Nozzles/Row:	8	8	8
Boom Length, Unit:	10 FT	10 FT	10 FT
Boom Height, Unit:	18 IN	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH
Carrier:	H2O	MEIGS	MEIGS
Water Hardness (ppm CaCO3):	150	150	150
Spray Volume, Unit:	15 gal/ac	15 gal/ac	15 gal/ac
Mix Size, Unit:	1.8 liters	1.8 liters	1.8 liters
Propellant:	CO2	CO2	CO2
Tank Mix (Y/N):	N no	N no	N no

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 Location: Throckmorton Study Director: White/Marquardt
 Project ID: Investigator: Dr. Bill Johnson
 Sponsor Contact: Bayer - Dave Lamore Valent - Eric Ott

Pest Type		W Weed	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code		SETFA	AMBTR	AMARE	ABUTH	IPHOE	SETFA			
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Amaranthus ret>	Abutilon theo>	Ipomoea heder>	Setaria faberi			
Pest Name		Giant foxtail	Giant ragweed	Redroot pigweed	Velvetleaf	Ivyleaf mornin>	Giant foxtail			
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA			
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY			
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max			
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean			
Crop Variety										
Description										
Rating Date	6-30-2010	6-30-2010	6-30-2010	6-30-2010	6-30-2010	6-30-2010	7-15-2010			
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1	1			
Crop Stage Majority										
Pest Stage Majority		1-2'	2-3'	6-10"	6-10"	4-10"				
Pest Density, Unit		6.5 FT2	2.5 FT2	6 FT2	1 FT2	1 FT2				
Assessed By	WGJ	WGJ	WGJ	WGJ	WGJ	WGJ	MW			
Trt Treatment	Rate	Appl								
No. Name	Rate	Unit	Code	1	2	3	4	5	6	7
1 Untreated Check				0.0 f	0.0 c	0.0 b	0.0 d	0.0 b	0.0 b	0.0 c
2 Prefix (5.29 EC) Ignite 280 (2.34 SL) AMS - Liquid	1.32 lb ai/a 0.402 lb ai/a 8.5 lb ai/100 gal	A C C		8.8 c-f	99.0 a	93.8 a	100.0 a	94.8 a	92.5 a	98.0 a
3 Ignite 280 (2.34 SL) AMS - Liquid	0.402 lb ai/a 8.5 lb ai/100 gal	B B		6.3 def	94.5 ab	97.5 a	42.5 c	81.3 a	76.3 a	87.5 b
4 Ignite 280 (2.34 SL) Prefix (5.29 EC) AMS - Liquid	0.402 lb ai/a 1.32 lb ai/a 8.5 lb ai/100 gal	B B B		28.8 a	95.8 ab	99.5 a	79.3 abc	98.3 a	98.8 a	87.5 b
5 Ignite 280 (2.34 SL) Dual II Magnum (7.64 EC) AMS - Liquid	0.402 lb ai/a 1.27 lb ai/a 8.5 lb ai/100 gal	B B B		25.0 ab	96.3 ab	98.8 a	48.8 bc	97.5 a	90.0 a	93.8 ab
6 Ignite 280 (2.34 SL) AMS - Liquid Ignite 280 (2.34 SL) AMS - Liquid	0.402 lb ai/a 8.5 lb ai/100 gal 0.402 lb ai/a 8.5 lb ai/100 gal	B B C C		12.5 cde	98.8 ab	100.0 a	97.8 a	100.0 a	98.8 a	94.8 ab
7 Ignite 280 (2.34 SL) MON 63410 (3 CS) AMS - Liquid	0.402 lb ai/a 1.13 lb ai/a 8.5 lb ai/100 gal	B B B		5.0 ef	96.3 ab	94.5 a	47.5 bc	95.0 a	96.3 a	92.5 ab
8 Ignite 280 (2.34 SL) V-10206 (85 WG) AMS - Liquid	0.402 lb ai/a 0.053 lb ai/a 8.5 lb ai/100 gal	B B B		20.0 bc	96.5 ab	96.3 a	51.3 abc	97.5 a	95.0 a	92.5 ab
9 Ignite 280 (2.34 SL) Outlook (6.0 EC) AMS - Liquid	0.402 lb ai/a 0.75 lb ai/a 8.5 lb ai/100 gal	B B B		18.8 bc	95.0 ab	92.0 a	47.5 bc	97.5 a	80.0 a	91.3 ab

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed					
Pest Code	SETFA	AMBTR	AMARE	ABUTH	IPHOE	SETFA					
Pest Scientific Name	Setaria faberi	Ambrosia trifida	Amaranthus retrofractus	Abutilon theophrasti	Ipomoea hederacea	Setaria faberi					
Pest Name	Giant foxtail	Giant ragweed	Redroot pigweed	Velvetleaf	Ivyleaf morning glory	Giant foxtail					
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA					
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY					
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max					
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean					
Crop Variety											
Description											
Rating Date	6-30-2010	6-30-2010	6-30-2010	6-30-2010	6-30-2010	7-15-2010					
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%	%	%	%					
Number of Subsamples	1	1	1	1	1	1					
Crop Stage Majority											
Pest Stage Majority		1-2'	2-3'	6-10"	6-10"	4-10"					
Pest Density, Unit		6.5 FT2	2.5 FT2	6 FT2	1 FT2	1 FT2					
Assessed By	WGJ	WGJ	WGJ	WGJ	WGJ	MW					
Trt No.	Treatment Name	Rate	Unit	Appl Code	1	2	3	4	5	6	7
10	Ignite 280 (2.34 SL)	0.402 lb ai/a	B		12.5 cde	90.8 ab	95.5 a	92.0 ab	90.8 a	91.3 a	87.5 b
	Synchrony XP (28.4 WG)	0.00666 lb ai/a	B								
	AMS - Liquid	8.5 lb ai/100 gal	B								
11	Ignite 280 (2.34 SL)	0.402 lb ai/a	B		10.0 c-f	98.5 ab	100.0 a	51.3 abc	97.5 a	92.5 a	91.3 ab
	FirstRate (84 WG)	0.0158 lb ai/a	B								
	AMS - Liquid	8.5 lb ai/100 gal	B								
12	Valor SX (51 WG)	0.064 lb ai/a	A		8.8 c-f	95.0 ab	97.5 a	98.8 a	100.0 a	100.0 a	97.5 a
	Ignite 280 (2.34 SL)	0.402 lb ai/a	C								
	AMS - Liquid	8.5 lb ai/100 gal	C								
13	Valor SX (51 WG)	0.096 lb ai/a	A		16.3 b-e	92.5 ab	94.8 a	100.0 a	100.0 a	100.0 a	95.5 a
	Ignite 280 (2.34 SL)	0.402 lb ai/a	C								
	AMS - Liquid	8.5 lb ai/100 gal	C								
14	Prowl H2O (3.8 L)	0.95 lb ai/a	A		6.3 def	88.8 b	95.0 a	90.0 ab	99.5 a	90.0 a	97.0 a
	Ignite 280 (2.34 SL)	0.402 lb ai/a	C								
	AMS - Liquid	8.5 lb ai/100 gal	C								
15	V-10233 (76 WG)	0.143 lb ai/a	A		17.5 bcd	99.3 a	95.0 a	100.0 a	100.0 a	100.0 a	95.8 a
	Ignite 280 (2.34 SL)	0.402 lb ai/a	C								
	AMS - Liquid	8.5 lb ai/100 gal	C								
LSD (P=.05)					7.03	5.88	7.67	29.68	10.74	15.31	4.75
Standard Deviation					4.92	4.11	5.37	20.77	7.51	10.71	3.33
CV					37.57	4.61	5.96	29.77	8.35	12.35	3.83
Bartlett's X2					12.923	27.914	15.377	36.033	30.008	29.049	11.163
P(Bartlett's X2)					0.375	0.006*	0.166	0.001*	0.001*	0.001*	0.597
Replicate F					2.638	0.853	1.892	1.480	1.736	3.848	0.126
Replicate Prob(F)					0.0620	0.4730	0.1456	0.2339	0.1743	0.0161	0.9442
Treatment F					10.340	145.956	86.842	8.667	45.573	21.818	213.142
Treatment Prob(F)					0.0001	0.0001	0.0001	0.0001	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.

Column 1: US; phytotoxicity - general / injury; percent; WGJ
Column 2: Weed or volunteer crop; US; US; control / burndown or knockdown; percent; 1-2'; per square foot; WGJ
Column 3: Weed or volunteer crop; US; US; control / burndown or knockdown; percent; 2-3'; per square foot; WGJ
Column 4: Weed or volunteer crop; US; US; control / burndown or knockdown; percent; 6-10"; per square foot; WGJ
Column 5: Weed or volunteer crop; US; US; control / burndown or knockdown; percent; 6-10"; per square foot; WGJ
Column 6: Weed or volunteer crop; US; US; control / burndown or knockdown; percent; 4-10"; per square foot; WGJ
Column 7: Weed or volunteer crop; US; US; control / burndown or knockdown; percent; MW
Column 8: Weed or volunteer crop; US; US; control / burndown or knockdown; percent; MW
Column 9: Weed or volunteer crop; US; US; control / burndown or knockdown; percent; MW
Column 10: Weed or volunteer crop; US; US; control / burndown or knockdown; percent; MW
Column 11: Weed or volunteer crop; US; US; control / burndown or knockdown; percent; MW
Column 12: Weed or volunteer crop; US; US; control / burndown or knockdown; percent; MW

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	AMBTR	AMARE	ABUTH	IPHOE	ZEAMX				
Pest Scientific Name	Ambrosia trifida	Amaranthus retrofractus	Abutilon theophrasti	Ipomoea hederacea	Zea mays				
Pest Name	Giant ragweed	Redroot pigweed	Velvetleaf	Ivyleaf mornin	Corn				
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA		
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY		
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max		
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean		
Crop Variety									
Description									
Rating Date	7-15-2010	7-15-2010	7-15-2010	7-15-2010	7-15-2010	7-15-2010	7-15-2010		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	PHYSTU	PHYLMA		
Rating Unit	%	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1	1		
Crop Stage Majority									
Pest Stage Majority									
Pest Density, Unit									
Assessed By	MW	MW	MW	MW	MW	MW	MW		
Trt Treatment	Rate	Appl	8	9	10	11	12	13	14
No. Name	Rate	Unit	Code						
1 Untreated Check				0.0 b	0.0 e	0.0 c	0.0 c	0.0 b	0.0 a
2 Prefix (5.29 EC)	1.32 lb ai/a	A		99.0 a	99.0 a	55.0 b	90.8 a	89.3 a	0.8 ab
Ignite 280 (2.34 SL)	0.402 lb ai/a	C							
AMS - Liquid	8.5 lb ai/100 gal	C							
3 Ignite 280 (2.34 SL)	0.402 lb ai/a	B		89.5 a	65.0 bcd	79.5 a	99.0 a	99.0 a	0.0 b
AMS - Liquid	8.5 lb ai/100 gal	B							
4 Ignite 280 (2.34 SL)	0.402 lb ai/a	B		98.0 a	73.8 a-d	94.3 a	98.0 a	67.0 a	0.0 b
Prefix (5.29 EC)	1.32 lb ai/a	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
5 Ignite 280 (2.34 SL)	0.402 lb ai/a	B		95.5 a	55.0 d	91.8 a	24.8 b	74.5 a	0.8 ab
Dual II Magnum (7.64 EC)	1.27 lb ai/a	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
6 Ignite 280 (2.34 SL)	0.402 lb ai/a	B		97.0 a	88.8 ab	98.0 a	93.3 a	84.5 a	3.8 ab
AMS - Liquid	8.5 lb ai/100 gal	B							
Ignite 280 (2.34 SL)	0.402 lb ai/a	C							
AMS - Liquid	8.5 lb ai/100 gal	C							
7 Ignite 280 (2.34 SL)	0.402 lb ai/a	B		94.3 a	65.0 bcd	87.3 a	64.8 a	67.3 a	0.0 b
MON 63410 (3 CS)	1.13 lb ai/a	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
8 Ignite 280 (2.34 SL)	0.402 lb ai/a	B		85.0 a	62.5 bcd	94.3 a	91.8 a	81.8 a	0.0 b
V-10206 (85 WG)	0.053 lb ai/a	B							
AMS - Liquid	8.5 lb ai/100 gal	B							
9 Ignite 280 (2.34 SL)	0.402 lb ai/a	B		81.3 a	57.5 cd	88.3 a	93.0 a	84.5 a	1.3 ab
Outlook (6.0 EC)	0.75 lb ai/a	B							
AMS - Liquid	8.5 lb ai/100 gal	B							

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed						
Pest Code	AMBTR	AMARE	ABUTH	IPHOE	ZEAMX						
Pest Scientific Name	Ambrosia trifi>	Amaranthus ret>	Abutilon theop>	Ipomoea heder>	Zea mays						
Pest Name	Giant ragweed	Redroot pigweed	Velvetleaf	Ivyleaf mornin>	Corn						
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA				
BBCH Scale	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY	BSOY				
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max				
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean				
Crop Variety											
Description											
Rating Date	7-15-2010	7-15-2010	7-15-2010	7-15-2010	7-15-2010	7-15-2010	7-15-2010				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	PHYSTU	PHYLMA				
Rating Unit	%	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1	1				
Crop Stage Majority											
Pest Stage Majority											
Pest Density, Unit											
Assessed By	MW	MW	MW	MW	MW	MW	MW				
Trt No.	Treatment Name	Rate	Unit	Appl Code	8	9	10	11	12	13	14
10	Ignite 280 (2.34 SL)	0.402 lb ai/a		B	90.8 a	83.8 abc	87.3 a	89.3 a	82.0 a	0.0 b	0.0 a
	Synchrony XP (28.4 WG)	0.00666 lb ai/a		B							
	AMS - Liquid	8.5 lb ai/100 gal		B							
11	Ignite 280 (2.34 SL)	0.402 lb ai/a		B	94.3 a	65.0 bcd	99.0 a	90.8 a	89.3 a	1.3 ab	1.3 a
	FirstRate (84 WG)	0.0158 lb ai/a		B							
	AMS - Liquid	8.5 lb ai/100 gal		B							
12	Valor SX (51 WG)	0.064 lb ai/a		A	99.0 a	99.0 a	99.0 a	98.5 a	99.0 a	0.0 b	0.0 a
	Ignite 280 (2.34 SL)	0.402 lb ai/a		C							
	AMS - Liquid	8.5 lb ai/100 gal		C							
13	Valor SX (51 WG)	0.096 lb ai/a		A	89.5 a	99.0 a	99.0 a	99.0 a	79.5 a	3.3 ab	1.3 a
	Ignite 280 (2.34 SL)	0.402 lb ai/a		C							
	AMS - Liquid	8.5 lb ai/100 gal		C							
14	Prowl H2O (3.8 L)	0.95 lb ai/a		A	90.8 a	76.3 a-d	83.8 a	88.3 a	74.5 a	0.0 b	1.3 a
	Ignite 280 (2.34 SL)	0.402 lb ai/a		C							
	AMS - Liquid	8.5 lb ai/100 gal		C							
15	V-10233 (76 WG)	0.143 lb ai/a		A	92.0 a	98.0 a	98.0 a	97.0 a	60.0 a	5.0 a	4.5 a
	Ignite 280 (2.34 SL)	0.402 lb ai/a		C							
	AMS - Liquid	8.5 lb ai/100 gal		C							
LSD (P=.05)					10.26	17.52	15.92	23.79	32.44	2.79	2.68
Standard Deviation					7.18	12.26	11.14	16.65	22.70	1.95	1.87
CV					8.31	16.91	13.32	20.5	30.08	182.96	107.1
Bartlett's X2					13.962	19.111	26.867	49.083	4.534	6.667	7.998
P(Bartlett's X2)					0.235	0.039*	0.003*	0.001*	0.952	0.353	0.629
Replicate F					1.678	1.165	2.683	3.088	1.668	2.322	3.484
Replicate Prob(F)					0.1863	0.3345	0.0589	0.0372	0.1884	0.0889	0.0240
Treatment F					46.327	17.528	21.387	12.588	4.339	2.761	3.070
Treatment Prob(F)					0.0001	0.0001	0.0001	0.0001	0.0001	0.0055	0.0025

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Pest Type Pest Code Pest Scientific Name Pest Name Crop Code BBCH Scale Crop Scientific Name Crop Name Crop Variety Description Rating Date Rating Type Rating Unit Number of Subsamples Crop Stage Majority Pest Stage Majority Pest Density, Unit Assessed By				GLXMA BSOY Glycine max Soybean 10-18-2010 YIELD BU60LB 1
Trt No.	Treatment Name	Rate	Appl Code	15
1	Untreated Check			17.58 d
2	Prefix (5.29 EC) Ignite 280 (2.34 SL) AMS - Liquid	1.32 lb ai/a 0.402 lb ai/a 8.5 lb ai/100 gal	A C C	54.48 abc
3	Ignite 280 (2.34 SL) AMS - Liquid	0.402 lb ai/a 8.5 lb ai/100 gal	B B	47.20 c
4	Ignite 280 (2.34 SL) Prefix (5.29 EC) AMS - Liquid	0.402 lb ai/a 1.32 lb ai/a 8.5 lb ai/100 gal	B B B	52.88 abc
5	Ignite 280 (2.34 SL) Dual II Magnum (7.64 EC) AMS - Liquid	0.402 lb ai/a 1.27 lb ai/a 8.5 lb ai/100 gal	B B B	48.13 bc
6	Ignite 280 (2.34 SL) AMS - Liquid Ignite 280 (2.34 SL) AMS - Liquid	0.402 lb ai/a 8.5 lb ai/100 gal 0.402 lb ai/a 8.5 lb ai/100 gal	B B C C	64.85 abc
7	Ignite 280 (2.34 SL) MON 63410 (3 CS) AMS - Liquid	0.402 lb ai/a 1.13 lb ai/a 8.5 lb ai/100 gal	B B B	58.90 abc
8	Ignite 280 (2.34 SL) V-10206 (85 WG) AMS - Liquid	0.402 lb ai/a 0.053 lb ai/a 8.5 lb ai/100 gal	B B B	54.10 abc
9	Ignite 280 (2.34 SL) Outlook (6.0 EC) AMS - Liquid	0.402 lb ai/a 0.75 lb ai/a 8.5 lb ai/100 gal	B B B	49.55 abc

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Pest Type				
Pest Code				
Pest Scientific Name				
Pest Name				
Crop Code		GLXMA		
BBCH Scale		BSOY		
Crop Scientific Name		Glycine max		
Crop Name		Soybean		
Crop Variety				
Description				
Rating Date		10-18-2010		
Rating Type		YIELD		
Rating Unit		BU60LB		
Number of Subsamples		1		
Crop Stage Majority				
Pest Stage Majority				
Pest Density, Unit				
Assessed By				
Trt No.	Treatment Name	Rate	Appl Code	
		Rate Unit		15
10	Ignite 280 (2.34 SL)	0.402 lb ai/a	B	52.58 abc
	Synchrony XP (28.4 WG)	0.00666 lb ai/a	B	
	AMS - Liquid	8.5 lb ai/100 gal	B	
11	Ignite 280 (2.34 SL)	0.402 lb ai/a	B	53.63 abc
	FirstRate (84 WG)	0.0158 lb ai/a	B	
	AMS - Liquid	8.5 lb ai/100 gal	B	
12	Valor SX (51 WG)	0.064 lb ai/a	A	67.95 ab
	Ignite 280 (2.34 SL)	0.402 lb ai/a	C	
	AMS - Liquid	8.5 lb ai/100 gal	C	
13	Valor SX (51 WG)	0.096 lb ai/a	A	65.85 abc
	Ignite 280 (2.34 SL)	0.402 lb ai/a	C	
	AMS - Liquid	8.5 lb ai/100 gal	C	
14	Prowl H2O (3.8 L)	0.95 lb ai/a	A	69.43 a
	Ignite 280 (2.34 SL)	0.402 lb ai/a	C	
	AMS - Liquid	8.5 lb ai/100 gal	C	
15	V-10233 (76 WG)	0.143 lb ai/a	A	58.83 abc
	Ignite 280 (2.34 SL)	0.402 lb ai/a	C	
	AMS - Liquid	8.5 lb ai/100 gal	C	
LSD (P=.05)				11.828
Standard Deviation				8.277
CV				15.22
Bartlett's X2				11.064
P(Bartlett's X2)				0.681
Replicate F				13.600
Replicate Prob(F)				0.0001
Treatment F				9.037
Treatment Prob(F)				0.0001

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Column 13: US; phytotoxicity - stunting; percent; MW
Column 14: US; phytotoxicity - leaf malformation; percent; MW
Column 15: US; yield; bushel 60 lb