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Efficacy of GWN-9794, GWN-9795 and Vida programs vs. standard programs for winter annual and annual broadleaf weed control in a preplant burndown situation.

Trial ID: 10S-THP-NTS-01 Protocol ID: 10S-THP-NTS-01
 Location: Throckmorton Study Director: White/Marquardt
 Project ID: Investigator: Dr. Bill Johnson
 Sponsor Contact: Nick Vandervort - Gowan

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: 3-3-2010

Trial Location

City: Lafayette
State/Prov.: IN
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 **Mobile No.:** 765-409-6369

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
State/Prov.: IN **Fax No.:** 765-538-3423
Postal Code: 47909 **E-mail:** jayyoung@purdue.edu
Country: US

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: ASGROW AG2939 **Description:** ROUNDUP READY
BBCH Scale: BSOY **Planting Date:** 4-30-2010
Row Spacing, Unit: 30 IN
Emergence Date: 5-12-2010

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Pest Description	
Pest 1 Type: W	Code: LAMAM <i>Lamium amplexicaule</i> Common Name: Henbit
Pest 2 Type: W	Code: STEME <i>Stellaria media</i> Common Name: Common chickweed
Pest 3 Type: W	Code: HLOUM <i>Holosteum umbellatum</i> Common Name: Jagged chickweed
Pest 4 Type: W	Code: THLSS <i>Thlaspi sp.</i> Common Name: Pennycress
Pest 5 Type: W	Code: ERICA <i>Conyza canadensis</i> Common Name: Canada horseweed
Pest 6 Type: W	Code: TAROF <i>Taraxacum officinale</i> Common Name: Common dandelion
Pest 7 Type: W	Code: BROTE <i>Bromus tectorum</i> Common Name: Downy brome

Site and Design	
Plot Width, Unit: 10 FT	Site Type: FIELD field
Plot Length, Unit: 30 FT	Experimental Unit: 1 PLOT plot
Plot Area, Unit: 300 FT ²	Tillage Type: NOTILL no-till
Replications: 4	Study Design: RACOB� Randomized Complete Block (RCB)
	Untreated Arrangement: INCLUDED single control randomized in each block

Soil Description	
Description Name: TPAC Field 5	
% OM: 2.3	Texture: SIL silt loam
pH: 6.6	Soil Name: Longlois
CEC: 9.9	

Application Description	
	A
Application Date:	4-15-2010
Time of Day:	8:30-9:20
Application Method:	SPRAY
Application Timing:	14 EPP
Applied By:	RT
Air Temperature, Unit:	66 F
% Relative Humidity:	48
Wind Velocity, Unit:	5 MPH
Wind Direction:	S
Dew Presence (Y/N):	N no
Soil Temperature, Unit:	60 F
Soil Moisture:	DRY
% Cloud Cover:	0

Crop Stage At Each Application	
	A
Crop 1 Code, BBCH Scale:	GLXMA BSOY

Pest Stage At Each Application	
	A
Pest 1 Code, Type, Scale:	LAMAM W
Stage Majority, Percent:	40 100

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Stage Minimum, Percent:	40
Stage Maximum, Percent:	40
IN	
Height Minimum, Maximum:	2 5
Density, Unit:	15 YD2
Pest 2 Code, Type, Scale:	STEME W
Stage Majority, Percent:	40 100
Stage Minimum, Percent:	40
Stage Maximum, Percent:	40
IN	
Height Minimum, Maximum:	1 8
Density, Unit:	20 YD2
Pest 3 Code, Type, Scale:	HLOUM W
Stage Majority, Percent:	40 100
Stage Minimum, Percent:	40
Stage Maximum, Percent:	40
IN	
Height Minimum, Maximum:	1 8
Density, Unit:	8 YD2
Pest 4 Code, Type, Scale:	THLSS W
Stage Majority, Percent:	40 100
Stage Minimum, Percent:	40
Stage Maximum, Percent:	59
IN	
Height Minimum, Maximum:	2 10
Density, Unit:	8 YD2
Pest 5 Code, Type, Scale:	ERICA W
Stage Majority, Percent:	40 100
Stage Minimum, Percent:	30
Stage Maximum, Percent:	40
IN	
Height Minimum, Maximum:	1 4
Density, Unit:	7 YD2
Pest 6 Code, Type, Scale:	TAROF W
Stage Majority, Percent:	40 100
Stage Minimum, Percent:	30
Stage Maximum, Percent:	40
IN	
Height Minimum, Maximum:	1 5
Density, Unit:	7 YD2
Pest 7 Code, Type, Scale:	BROTE W
Stage Majority, Percent:	40 100
Stage Minimum, Percent:	40
Stage Maximum, Percent:	51
IN	
Height Minimum, Maximum:	3 6
Density, Unit:	5 YD2

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Application Equipment	
	A
Appl. Equipment:	CO2 Backpack
Operating Pressure, Unit:	17 PSI
Nozzle Type:	Flat Fan
Nozzle Size:	XR11002
Nozzle Spacing, Unit:	15 IN
Nozzles/Row:	6
Boom Length, Unit:	7.5 FT
Boom Height, Unit:	18 IN
Ground Speed, Unit:	3 MPH
Carrier:	H2O
Water Hardness (ppm CaCO3):	150
Spray Volume, Unit:	15 GAL/AC
Mix Size, Unit:	1.8 Liters
Propellant:	CO2
Tank Mix (Y/N):	N no

Date	By	Notes
7-8-2010	MH	Bulk Application of Powermax

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Efficacy of GWN-9794, GWN-9795 and Vida programs vs. standard programs for winter annual and annual broadleaf weed control in a preplant burndown situation.

Trial ID: 10S-THP-NTS-01 Protocol ID: 10S-THP-NTS-01
 Location: Throckmorton Study Director: White/Marquardt
 Project ID: Investigator: Dr. Bill Johnson
 Sponsor Contact: Nick Vandervort - Gowan

Pest Type	W Weed								
Pest Code	THLSS	TAROF	BROTE	ERICA	STEME	LAMAM			
Pest Scientific Name	Thlaspi sp.	Taraxacum offi>	Bromus tectorum	Conyza canaden>	Stellaria media	Lamium amplexi>			
Pest Name	Pennycress	Common dandel>	Downy brome	Canada horsewe>	Common chickwe>	Henbit			
Crop Code									
BBCH Scale									
Crop Scientific Name									
Crop Name									
Crop Variety									
Description									
Rating Date	4-22-2010	4-22-2010	4-22-2010	4-22-2010	4-22-2010	4-22-2010			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1			
Crop Stage Majority									
Pest Stage Majority									
Pest Density, Unit									
Assessed By	MW	MW	MW	MW	MW	MW			
Trt Treatment	Rate	Appl							
No. Name	Rate	Unit	Code	1	2	3	4	5	6
1 Untreated Check		A		0.0 e	0.0 b	0.0 b	0.0 b	0.0 d	0.0 c
2 GWN-9794	0.0232 lb ai/a	A		57.5 cd	62.0 ab	80.8 a	80.8 a	50.0 bc	64.5 abc
Roundup PowerMax 4.5 SL	0.75 lb ae/a	A							
COC	1 % v/v	A							
AMS - Liquid	2.5 lb ai/a	A							
3 GWN-9795	0.161 lb ai/a	A		45.0 d	89.3 a	98.0 a	98.0 a	42.5 c	28.8 bc
Roundup PowerMax 4.5 SL	0.75 lb ae/a	A							
COC	1 % v/v	A							
AMS - Liquid	2.5 lb ai/a	A							
4 Vida 0.208 EC	0.00163 lb ai/a	A		70.0 a-d	79.3 a	85.8 a	96.8 a	72.5 ab	69.5 ab
Roundup PowerMax 4.5 SL	0.75 lb ae/a	A							
COC	1 % v/v	A							
AMS - Liquid	2.5 lb ai/a	A							
5 Vida 0.208 EC	0.00163 lb ai/a	A		75.0 abc	79.3 a	98.0 a	99.0 a	61.3 bc	59.8 abc
Roundup PowerMax 4.5 SL	0.75 lb ae/a	A							
2,4-D Ester	0.5 lb ae/a	A							
COC	1 % v/v	A							
AMS - Liquid	2.5 lb ai/a	A							
6 Vida 0.208 EC	0.00163 lb ai/a	A		91.0 ab	67.0 ab	93.3 a	99.0 a	97.0 a	99.0 a
Gramoxone Inteon 2SL	0.75 lb ai/a	A							
COC	1 % v/v	A							
AMS - Liquid	2.5 lb ai/a	A							
7 Roundup PowerMax 4.5 SL	0.75 lb ae/a	A		65.0 bcd	52.0 ab	81.8 a	99.0 a	52.5 bc	59.5 abc
COC	1 % v/v	A							
AMS - Liquid	2.5 lb ai/a	A							
8 Roundup PowerMax 4.5 SL	0.75 lb ae/a	A		62.5 cd	57.0 ab	89.3 a	95.5 a	57.5 bc	64.5 abc
2,4-D Ester	0.5 lb ae/a	A							
COC	1 % v/v	A							
AMS - Liquid	2.5 lb ai/a	A							

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	THLSS	TAROF	BROTE	ERICA	STEME	LAMAM				
Pest Scientific Name	Thlaspi sp.	Taraxacum offi>	Bromus tectorum	Conyza canadens>	Stellaria media	Lamium amplexi>				
Pest Name	Pennycress	Common dandel>	Downy brome	Canada horsewe>	Common chickwe>	Henbit				
Crop Code										
BBCH Scale										
Crop Scientific Name										
Crop Name										
Crop Variety										
Description										
Rating Date	4-22-2010	4-22-2010	4-22-2010	4-22-2010	4-22-2010	4-22-2010				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1				
Crop Stage Majority										
Pest Stage Majority										
Pest Density, Unit										
Assessed By	MW	MW	MW	MW	MW	MW				
Trt No.	Treatment Name	Rate	Appl Unit	Code	1	2	3	4	5	6
9	Gramoxone Inteon 2SL COC AMS - Liquid	0.75 lb ai/a 1 % v/v 2.5 lb ai/a	A A A		94.3 a	83.8 a	95.0 a	95.8 a	97.0 a	93.8 ab
10	Rage D-Tech 6.05 EC COC AMS - Liquid	0.57 lb ai/a 1 % v/v 2.5 lb ai/a	A A A		67.5 bcd	95.5 a	98.0 a	73.3 a	72.5 ab	44.8 abc
11	Sharpen 2.85 SC Roundup PowerMax 4.5 SL COC AMS - Liquid	0.0223 lb ai/a 0.75 lb ae/a 1 % v/v 2.5 lb ai/a	A A A A		75.0 abc	94.3 a	72.0 a	99.0 a	74.8 ab	52.3 abc
LSD (P=.05)					17.48	48.13	29.65	22.09	18.35	41.35
Standard Deviation					12.11	33.33	20.54	15.30	12.71	28.64
CV					18.95	48.29	25.33	17.98	20.63	49.51
Bartlett's X2					8.1	14.824	42.736	31.969	22.706	5.999
P(Bartlett's X2)					0.524	0.096	0.001*	0.001*	0.007*	0.647
Replicate F					3.310	1.742	0.398	1.510	10.573	5.407
Replicate Prob(F)					0.0333	0.1796	0.7556	0.2320	0.0001	0.0043
Treatment F					17.563	2.673	7.538	14.861	18.105	3.711
Treatment Prob(F)					0.0001	0.0182	0.0001	0.0001	0.0001	0.0025

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: Weed or volunteer crop; US; control / burndown or knockdown; percent; MW
Column 2: Weed or volunteer crop; US; control / burndown or knockdown; percent; MW
Column 3: Weed or volunteer crop; US; control / burndown or knockdown; percent; MW
Column 4: Weed or volunteer crop; US; control / burndown or knockdown; percent; MW
Column 5: Weed or volunteer crop; US; control / burndown or knockdown; percent; MW
Column 6: Weed or volunteer crop; US; control / burndown or knockdown; percent; MW
Column 7: Weed or volunteer crop; US; control / burndown or knockdown; percent; MW
Column 8: Weed or volunteer crop; US; control / burndown or knockdown; percent; per square yard; MW
Column 9: Weed or volunteer crop; US; control / burndown or knockdown; percent; per square yard; MW
Column 10: Weed or volunteer crop; US; control / burndown or knockdown; percent; per square yard; MW
Column 11: Weed or volunteer crop; US; control / burndown or knockdown; percent; per square yard; MW
Column 12: Weed or volunteer crop; US; control / burndown or knockdown; percent; per square yard; MW
Column 13: Weed or volunteer crop; US; control / burndown or knockdown; percent; per square yard; MW
Column 14: Weed or volunteer crop; US; control / burndown or knockdown; percent; 8-16"; per square yard; MW
Column 15: Weed or volunteer crop; US; control / burndown or knockdown; percent; 4-12"; per square yard; MW
Column 16: Weed or volunteer crop; US; control / burndown or knockdown; percent; 6"; per square yard; MW
Column 17: Weed or volunteer crop; US; control / burndown or knockdown; percent; 6"; per square yard; MW
Column 18: Weed or volunteer crop; US; control / burndown or knockdown; percent; 4"; per square yard; MW
Column 19: US; phytotoxicity - general / injury; VE-V1; MW

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Pest Type	W Weed LACSE	W Weed THLSS	W Weed STEME	W Weed LACSE	W Weed LAMAM	W Weed TAROF			
Pest Code	Lactuca serrio>	Thlaspi sp.	Stellaria media	Lactuca serrio>	Lamium amplexi>	Taraxacum offi>			
Pest Scientific Name	Prickly lettuce	Pennycress	Common chickwe>	Prickly lettuce	Henbit	Common dandel>			
Pest Name									
Crop Code									
BBCH Scale									
Crop Scientific Name									
Crop Name									
Crop Variety									
Description		14 IN	5 IN	4 IN	5 IN	4 IN			
Rating Date	4-22-2010	4-29-2010	4-29-2010	4-29-2010	4-29-2010	4-29-2010			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1			
Crop Stage Majority									
Pest Stage Majority									
Pest Density, Unit		5 YD2	10 YD2	4 YD2	6 YD2	2 YD2			
Assessed By	MW	MW	MW	MW	MW	MW			
Trt Treatment	Rate	Unit	Appl Code	7	8	9	10	11	12
1 Untreated Check		A		0.0 d	0.0 c	0.0 c	0.0 c	0.0 c	0.0 b
2 GWN-9794	0.0232 lb ai/a	A		72.3 ab	90.0 ab	82.3 a	92.0 a	86.0 ab	58.5 ab
Roundup PowerMax 4.5 SL	0.75 lb ae/a	A							
COC	1 % v/v	A							
AMS - Liquid	2.5 lb ai/a	A							
3 GWN-9795	0.161 lb ai/a	A		35.0 c	94.0 a	47.5 b	94.5 a	78.5 ab	91.8 a
Roundup PowerMax 4.5 SL	0.75 lb ae/a	A							
COC	1 % v/v	A							
AMS - Liquid	2.5 lb ai/a	A							
4 Vida 0.208 EC	0.00163 lb ai/a	A		94.3 a	88.8 ab	73.5 ab	96.8 a	86.0 ab	67.0 ab
Roundup PowerMax 4.5 SL	0.75 lb ae/a	A							
COC	1 % v/v	A							
AMS - Liquid	2.5 lb ai/a	A							
5 Vida 0.208 EC	0.00163 lb ai/a	A		80.8 a	97.5 a	84.8 a	98.0 a	85.0 ab	62.0 ab
Roundup PowerMax 4.5 SL	0.75 lb ae/a	A							
2,4-D Ester	0.5 lb ae/a	A							
COC	1 % v/v	A							
AMS - Liquid	2.5 lb ai/a	A							
6 Vida 0.208 EC	0.00163 lb ai/a	A		99.0 a	98.5 a	99.0 a	98.0 a	99.0 a	66.0 ab
Gramoxone Inteon 2SL	0.75 lb ai/a	A							
COC	1 % v/v	A							
AMS - Liquid	2.5 lb ai/a	A							
7 Roundup PowerMax 4.5 SL	0.75 lb ae/a	A		42.3 bc	89.8 ab	76.0 ab	66.0 b	77.3 ab	62.0 ab
COC	1 % v/v	A							
AMS - Liquid	2.5 lb ai/a	A							
8 Roundup PowerMax 4.5 SL	0.75 lb ae/a	A		77.0 ab	97.0 a	88.5 a	89.8 a	88.5 ab	57.3 ab
2,4-D Ester	0.5 lb ae/a	A							
COC	1 % v/v	A							
AMS - Liquid	2.5 lb ai/a	A							

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	ERICA	THLSS	LACSE	TAROF	ERICA	STEME		
Pest Scientific Name	Conyza canadensis	Thlaspi sp.	Lactuca serriola	Taraxacum officinale	Conyza canadensis	Stellaria media		
Pest Name	Canada horseweed	Pennycress	Prickly lettuce	Common dandelion	Canada horseweed	Common chickweed		
Crop Code								
BBCH Scale								
Crop Scientific Name								
Crop Name								
Crop Variety								
Description	2 IN							
Rating Date	4-29-2010	5-13-2010	5-13-2010	5-13-2010	5-13-2010	5-13-2010		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1		
Crop Stage Majority								
Pest Stage Majority		8-16"	4-12"	6"	6"	4"		
Pest Density, Unit	10 YD2	54 YD2	7 YD2	3 YD2	45 YD2	12 YD2		
Assessed By	MW	MW	MW	MW	MW	MW		
Trt Treatment	Rate	Appl	13	14	15	16	17	18
No. Name	Rate	Unit	Code					
1 Untreated Check		A		0.0 b	0.0 b	0.0 b	0.0 b	0.0 b
2 GWN-9794	0.0232 lb ai/a	A		79.5 a	99.0 a	94.3 a	57.5 a	74.8 a
Roundup PowerMax 4.5 SL	0.75 lb ae/a	A						
COC	1 % v/v	A						
AMS - Liquid	2.5 lb ai/a	A						
3 GWN-9795	0.161 lb ai/a	A		99.0 a	99.0 a	99.0 a	87.0 a	99.0 a
Roundup PowerMax 4.5 SL	0.75 lb ae/a	A						
COC	1 % v/v	A						
AMS - Liquid	2.5 lb ai/a	A						
4 Vida 0.208 EC	0.00163 lb ai/a	A		79.3 a	99.0 a	91.8 a	83.3 a	94.3 a
Roundup PowerMax 4.5 SL	0.75 lb ae/a	A						
COC	1 % v/v	A						
AMS - Liquid	2.5 lb ai/a	A						
5 Vida 0.208 EC	0.00163 lb ai/a	A		86.8 a	99.0 a	99.0 a	84.5 a	96.8 a
Roundup PowerMax 4.5 SL	0.75 lb ae/a	A						
2,4-D Ester	0.5 lb ae/a	A						
COC	1 % v/v	A						
AMS - Liquid	2.5 lb ai/a	A						
6 Vida 0.208 EC	0.00163 lb ai/a	A		99.0 a	99.0 a	91.8 a	77.0 a	77.3 a
Gramoxone Inteon 2SL	0.75 lb ai/a	A						
COC	1 % v/v	A						
AMS - Liquid	2.5 lb ai/a	A						
7 Roundup PowerMax 4.5 SL	0.75 lb ae/a	A		76.8 a	99.0 a	99.0 a	99.0 a	96.8 a
COC	1 % v/v	A						
AMS - Liquid	2.5 lb ai/a	A						
8 Roundup PowerMax 4.5 SL	0.75 lb ae/a	A		84.3 a	99.0 a	99.0 a	99.0 a	99.0 a
2,4-D Ester	0.5 lb ae/a	A						
COC	1 % v/v	A						
AMS - Liquid	2.5 lb ai/a	A						

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	ERICA	THLSS	LACSE	TAROF	ERICA	STEME				
Pest Scientific Name	Conyza canadensis	Thlaspi sp.	Lactuca serriola	Taraxacum officinale	Conyza canadensis	Stellaria media				
Pest Name	Canada horseweed	Pennycress	Prickly lettuce	Common dandelion	Canada horseweed	Common chickweed				
Crop Code										
BBCH Scale										
Crop Scientific Name										
Crop Name										
Crop Variety										
Description	2 IN									
Rating Date	4-29-2010	5-13-2010	5-13-2010	5-13-2010	5-13-2010	5-13-2010				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1				
Crop Stage Majority										
Pest Stage Majority		8-16"	4-12"	6"	6"	4"				
Pest Density, Unit	10 YD2	54 YD2	7 YD2	3 YD2	45 YD2	12 YD2				
Assessed By	MW	MW	MW	MW	MW	MW				
Trt No.	Treatment Name	Rate	Unit	Appl Code	13	14	15	16	17	18
9	Gramoxone Inteon 2SL COC AMS - Liquid	0.75 lb ai/a 1 % v/v 2.5 lb ai/a	A A A		96.8 a	99.0 a	95.5 a	77.3 a	87.0 a	99.0 a
10	Rage D-Tech 6.05 EC COC AMS - Liquid	0.57 lb ai/a 1 % v/v 2.5 lb ai/a	A A A		42.3 a	99.0 a	99.0 a	99.0 a	62.0 a	74.3 a
11	Sharpen 2.85 SC Roundup PowerMax 4.5 SL COC AMS - Liquid	0.0223 lb ai/a 0.75 lb ae/a 1 % v/v 2.5 lb ai/a	A A A A		99.0 a	99.0 a	99.0 a	86.0 a	99.0 a	99.0 a
LSD (P=.05)					35.53	0.00	10.01	27.06	28.14	26.64
Standard Deviation					24.61	0.00	6.93	18.74	19.49	18.45
CV					32.13	0.0	7.88	24.27	24.2	21.43
Bartlett's X2					10.392	0.0	1.948	5.472	22.247	14.709
P(Bartlett's X2)					0.109	.	0.583	0.485	0.001*	0.001*
Replicate F					1.876	0.000	1.649	1.108	1.786	0.710
Replicate Prob(F)					0.1549	1.0000	0.1990	0.3612	0.1711	0.5536
Treatment F					6.034	0.000	71.535	9.152	9.115	10.437
Treatment Prob(F)					0.0001	1.0000	0.0001	0.0001	0.0001	0.0001

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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 5-28-2010 PHYGEN 1 VE-V1 MW
Trt No.	Treatment Name	Rate	Appl Code	
1	Untreated Check		A	0.0 a
2	GWN-9794 Roundup PowerMax 4.5 SL COC AMS - Liquid	0.0232 lb ai/a 0.75 lb ae/a 1 % v/v 2.5 lb ai/a	A A A A	0.0 a
3	GWN-9795 Roundup PowerMax 4.5 SL COC AMS - Liquid	0.161 lb ai/a 0.75 lb ae/a 1 % v/v 2.5 lb ai/a	A A A A	0.0 a
4	Vida 0.208 EC Roundup PowerMax 4.5 SL COC AMS - Liquid	0.00163 lb ai/a 0.75 lb ae/a 1 % v/v 2.5 lb ai/a	A A A A	0.0 a
5	Vida 0.208 EC Roundup PowerMax 4.5 SL 2,4-D Ester COC AMS - Liquid	0.00163 lb ai/a 0.75 lb ae/a 0.5 lb ae/a 1 % v/v 2.5 lb ai/a	A A A A A	0.0 a
6	Vida 0.208 EC Gramoxone Inteon 2SL COC AMS - Liquid	0.00163 lb ai/a 0.75 lb ai/a 1 % v/v 2.5 lb ai/a	A A A A	0.0 a
7	Roundup PowerMax 4.5 SL COC AMS - Liquid	0.75 lb ae/a 1 % v/v 2.5 lb ai/a	A A A	0.0 a
8	Roundup PowerMax 4.5 SL 2,4-D Ester COC AMS - Liquid	0.75 lb ae/a 0.5 lb ae/a 1 % v/v 2.5 lb ai/a	A A A A	0.0 a

Purdue University

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		5-28-2010		
Rating Type		PHYGEN		
Rating Unit				
Number of Subsamples		1		
Crop Stage Majority		VE-V1		
Pest Stage Majority				
Pest Density, Unit				
Assessed By		MW		
Trt No.	Treatment Name	Rate	Appl Unit Code	
				19
9	Gramoxone Inteon 2SL	0.75 lb ai/a	A	0.0 a
	COC	1 % v/v	A	
	AMS - Liquid	2.5 lb ai/a	A	
10	Rage D-Tech 6.05 EC	0.57 lb ai/a	A	0.0 a
	COC	1 % v/v	A	
	AMS - Liquid	2.5 lb ai/a	A	
11	Sharpen 2.85 SC	0.0223 lb ai/a	A	0.0 a
	Roundup PowerMax 4.5 SL	0.75 lb ae/a	A	
	COC	1 % v/v	A	
	AMS - Liquid	2.5 lb ai/a	A	
	LSD (P=.05)			0.00
	Standard Deviation			0.00
	CV			0.0
	Bartlett's X2			0.0
	P(Bartlett's X2)			.
	Replicate F			0.000
	Replicate Prob(F)			1.0000
	Treatment F			0.000
	Treatment Prob(F)			1.0000