

# Purdue Weed Science

Trial ID: 21S-TPAC-SOY-16  
 Title: ZIDUA PRO RESIDUAL WEED CONTROL VS COMPETITORS  
 Licensee: Dr. Bill Johnson

## GENERAL TRIAL INFORMATION

**Originator:** WALDSTEIN DANIEL **Trial Status:** 7 Final (All Trial Data Entered)  
**Last Changed:** 9/30/2021 12:55 PM  
**Researcher:** WELKER GERY  
**Cooperator Data (Y/N)?:** Y  
**Name:** Purdue University  
**Town:** Lafayette  
**State:** IN Indiana  
**Country:** US United States Of America **Postal:** 47907  
**Trial Location:** TPAC  
**Town:** Lafayette **Postal:** 47907  
**State:** IN Indiana  
**Country:** US United States Of America  
**Trial Location Coordinates:** 40.293424, -86.91223 **Coordinate System, Unit:** GPS DDD  
**Lower Left:** 40.293424 -86.91223

## TRIAL DESIGN

**Trial Design:** RB Randomized Bloc Design **Site Type:** FFX Field  
**Trial Unit:** U  
**Trt No:** 8 **Plot Width:** 10 **Unit:** FT  
**Reps:** 4 **Plot Length:** 30  
**Plot Size:** 300.00 FT2  
**Factors:** 1  
**No. ONum Objectives**  
 1. 1210400 Compare grass, large seeded broadleaf, and Amaranthus residual control and crop response of Zidua PRO vs competitors (conventional tillage).

## SEEDING

**Description:** Soybean **Code:** GLXMA  
**Trial Planting Date:** 5/23/2021 **Variety:** AG29XF1 **Res:** DGT  
**Depth:** 1.5 **Unit:** IN  
**Planting Method:** PLT Planted  
**Row Spacing:** 15.0 **Unit:** IN  
**Emergence Date:** 6/1/2021 **Plant Density/Seed Rate:** 140000 **Unit:** SEED/AC

## SOIL INFORMATION

**Soil:** Toronto-Millbrook  
**Soil Texture:** SLL Silty Loam **Sand:** 17.0 **pH:** 6.2  
**Silt:** 56.0 **CEC:** 11.5 MEQ/100G  
**Clay:** 27.0 **OM:** 3.1

## APPLICATION TIMINGS

App Code	Timing Code	Set No	Appl Date	Hour From	Applied by
A	VA	1	5/23/2021	11:40 AM	12:05 PM

## SPRAYER SETUPS

Set No	App Met	Sprayer Type	Speed	Unit	Nozzles Type	Spa	Unit	Boom Ht	Unit	Pres Amt	Unit	Carrier Type	Vol	Unit	Mix Size	Unit
1	SP	SPT	3.0	MILE/H	TTI	15.0	IN	17	IN	26	PSI	H2O	15	GAL/AC	1.8	L

## CROP STAGE AT APPLICATION

	A
<b>Application Date:</b>	5/23/2021
<b>Crop 1 / Res</b>	GLXMA, DGT
<b>Variety</b>	AG29XF1
<b>Gr Stage: From / To</b>	00, -
<b>Mode / Method</b>	-, B

## WEATHER

App	Appl Date	Moisture Surf	Temp Soil	Temp Air	Temp Unit	RH	Wind Speed	Unit	Dir	Cloud Cover	Rain Hr After Appl	Amt	Unit
A	5/23/2021	H	73.0	82.0	F	60	3.5	MILE/H	NN	2	72	0.32	IN



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 Title: ZIDUA PRO RESIDUAL WEED CONTROL VS COMPETITORS  
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Evaluation: No / Date	001, 6/6/2021	002, 6/20/2021	001, 6/6/2021	001, 6/6/2021	001, 6/6/2021			
Crop: ID / Code / Resistance	1, GLXMA, DGT	1, GLXMA, DGT	1, GLXMA, DGT	1, GLXMA, DGT	1, GLXMA, DGT			
Crop: Variety	AG29XF1	AG29XF1	AG29XF1	AG29XF1	AG29XF1			
Crop GS: From / To / Method	- , - , B	- , - , B	- , - , B	- , - , B	- , - , B			
DAT / DALT / DAP	14, 14, 14	28, 28, 28	14, 14, 14	14, 14, 14	14, 14, 14			
SE: File / Group	- , 1	- , 2	- , 3	- , 3	- , 3			
Organism / Biotype	GLXMA, -	GLXMA, -	AMATA, -	CHEAL, -	ABUTH, -			
Rating Type	PHYTOX	PHYTOX	CONTRO	CONTRO	CONTRO			
Clarifier	CROP INJURY	CROP INJURY	CONTROL	CONTROL	CONTROL			
CALC Method	P%EST	P%EST	P%CONT	P%CONT	P%CONT			
Rating Unit	%	%	%	%	%			
# Subsamples / Class	1, 1	1, 1	1, 1	1, 1	1, 1			
Sample Size / Unit	1.0 TPLOT	1.0 TPLOT	1.0 TPLOT	1.0 TPLOT	1.0 TPLOT			
Product/Entry Trt Name	Product Rate	Prod Unit	Appl Code	1	2	3	4	5
1 CHECK				0.0	0.0	0.0	0.0	0.0
2 BOUNDARY	24.0 FL OZ/A	A		0.0 -	0.0 -	100.0 -	100.0 -	91.3 -
3 ZIDUA PRO	6.0 FL OZ/A	A		0.0 -	0.0 -	100.0 -	100.0 -	97.5 -
4 ZIDUA PRO	4.5 FL OZ/A	A		0.0 -	0.0 -	100.0 -	100.0 -	92.5 -
5 SONIC	5.0 OZ WT/A	A		0.0 -	0.0 -	98.5 -	98.8 -	94.3 -
6 AUTHORITY SUPREME	6.5 FL OZ/A	A		0.0 -	0.0 -	100.0 -	98.8 -	88.8 -
7 FIERCE MTZ	16.0 FL OZ/A	A		0.0 -	0.0 -	98.5 -	98.5 -	90.0 -
8 AUTHORITY EDGE	9.0 FL OZ/A	A		0.0 -	0.0 -	98.5 -	100.0 -	95.0 -
LSD P=.05				.	.	1.59	2.14	6.62
Standard Deviation	0.00	0.00		0.00	0.00	1.07	1.44	4.46
CV	0.0	0.0		0.0	0.0	1.08	1.45	4.81
Grand Mean	0.00	0.00		0.00	0.00	99.36	99.43	92.75
Levene's F^	0.00	0.00		0.00	0.00	0.00	1.153	2.393
Levene's Prob(F)	0.00*	0.00*		0.00*	0.00*	0.00*	0.367	0.064
Rank X2	.	.		.	.	.	.	.
P(Rank X2)	.	.		.	.	.	.	.
Skewness^	.	.		.	.	-1.4727*	-2.4522*	-0.5206
Kurtosis^	.	.		.	.	0.1762	4.8279*	0.4434
Replicate F	0.000	0.000		0.000	0.000	1.875	1.468	0.951
Replicate Prob(F)	1.0000	1.0000		1.0000	1.0000	0.1700	0.2566	0.4369
Treatment F	0.000	0.000		0.000	0.000	2.250	0.992	1.871
Treatment Prob(F)	1.0000	1.0000		1.0000	1.0000	0.0852	0.4597	0.1415

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).  
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.  
 Untreated treatment(s) 1 excluded from analysis.  
 Could not calculate LSD (% mean diff) for columns 1,2 because error mean square = 0.  
 ^Calculated from residual.

Evaluation: No / Date				001, 6/6/2021	001, 6/6/2021	001, 6/6/2021	002, 6/20/2021	002, 6/20/2021
Crop: ID / Code / Resistance				1, GLXMA, DGT	1, GLXMA, DGT	1, GLXMA, DGT	1, GLXMA, DGT	1, GLXMA, DGT
Crop: Variety				AG29XF1	AG29XF1	AG29XF1	AG29XF1	AG29XF1
Crop GS: From / To / Method				- , - , B	- , - , B	- , - , B	- , - , B	- , - , B
DAT / DALT / DAP				14, 14, 14	14, 14, 14	14, 14, 14	28, 28, 28	28, 28, 28
SE: File / Group				- , 3	- , 4	- , 5	- , 6	- , 6
Organism / Biotype				ECHCG, -	SETFA, -	SETPU, -	AMATA, -	CHEAL, -
Rating Type				CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Clarifier				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
CALC Method				P%CONT	P%CONT	P%CONT	P%CONT	P%CONT
Rating Unit				%	%	%	%	%
# Subsamples / Class				1, 1	1, 1	1, 1	1, 1	1, 1
Sample Size / Unit				1.0 TPLO	1.0 TPLO	1.0 TPLO	1.0 TPLO	1.0 TPLO
Product/Entry	Product	Prod	Appl	6	7	8	9	10
Trt Name	Rate	Unit	Code					
1 CHECK				0.0	0.0	0.0	0.0	0.0
2 BOUNDARY	24.0	FL OZ/A	A	96.0 a	100.0 -	100.0 -	95.0 c	97.5 -
3 ZIDUA PRO	6.0	FL OZ/A	A	93.8 ab	100.0 -	100.0 -	100.0 a	100.0 -
4 ZIDUA PRO	4.5	FL OZ/A	A	90.0 ab	100.0 -	100.0 -	98.5 ab	99.3 -
5 SONIC	5.0	OZ WT/A	A	65.0 d	98.8 -	98.8 -	97.5 b	98.8 -
6 AUTHORITY SUPREME	6.5	FL OZ/A	A	83.8 bc	100.0 -	100.0 -	100.0 a	98.8 -
7 FIERCE MTZ	16.0	FL OZ/A	A	72.5 cd	100.0 -	100.0 -	98.5 ab	97.8 -
8 AUTHORITY EDGE	9.0	FL OZ/A	A	92.5 ab	100.0 -	100.0 -	97.8 b	99.3 -
LSD P=.05				12.08	1.40	1.40	2.03	3.03
Standard Deviation				8.13	0.94	0.94	1.37	2.04
CV				9.59	0.95	0.95	1.39	2.06
Grand Mean				84.79	99.82	99.82	98.18	98.75
Levene's F^				1.457			11.889	0.861
Levene's Prob(F)				0.241			0.001*	0.539
Rank X2				.	.	.	.	.
P(Rank X2)				.	.	.	.	.
Skewness^				-1.5502*	-5.2915*	-5.2915*	-0.4825	-1.1019*
Kurtosis^				3.0356*	28.0*	28.0*	-1.515	-0.4551
Replicate F				1.519	1.000	1.000	2.873	0.652
Replicate Prob(F)				0.2437	0.4155	0.4155	0.0650	0.5922
Treatment F				8.432	1.000	1.000	6.274	0.744
Treatment Prob(F)				0.0002	0.4552	0.4552	0.0011	0.6220

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^Calculated from residual.

Evaluation: No / Date				002, 6/20/2021	002, 6/20/2021	002, 6/20/2021	002, 6/20/2021	003, 7/3/2021
Crop: ID / Code / Resistance				1, GLXMA, DGT	1, GLXMA, DGT	1, GLXMA, DGT	1, GLXMA, DGT	1, GLXMA, DGT
Crop: Variety				AG29XF1	AG29XF1	AG29XF1	AG29XF1	AG29XF1
Crop GS: From / To / Method				- , - , B	- , - , B	- , - , B	- , - , B	- , - , B
DAT / DALT / DAP				28, 28, 28	28, 28, 28	28, 28, 28	28, 28, 28	41, 41, 41
SE: File / Group				- , 6	- , 6	- , 7	- , 8	- , 9
Organism / Biotype				ABUTH, -	ECHCG, -	SETFA, -	SETPU, -	AMATA, -
Rating Type				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Clarifier				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
CALC Method				P%CONT	P%CONT	P%CONT	P%CONT	P%CONT
Rating Unit				%	%	%	%	%
# Subsamples / Class				1, 1	1, 1	1, 1	1, 1	1, 1
Sample Size / Unit				1.0 TPLO	1.0 TPLO	1.0 TPLO	1.0 TPLO	1.0 TPLO
Product/Entry	Product	Prod	Appl	11	12	13	14	15
Trt Name	Rate	Unit	Code					
1 CHECK				0.0	0.0	0.0	0.0	0.0
2 BOUNDARY	24.0	FL OZ/A	A	83.8 c	93.8 a	99.3 -	99.3 -	83.8 c
3 ZIDUA PRO	6.0	FL OZ/A	A	96.5 a	93.8 a	100.0 -	100.0 -	95.5 a
4 ZIDUA PRO	4.5	FL OZ/A	A	87.5 bc	85.0 ab	100.0 -	100.0 -	90.0 b
5 SONIC	5.0	OZ WT/A	A	91.3 abc	58.8 d	98.8 -	98.8 -	92.5 ab
6 AUTHORITY SUPREME	6.5	FL OZ/A	A	85.0 bc	77.5 bc	100.0 -	100.0 -	95.0 a
7 FIERCE MTZ	16.0	FL OZ/A	A	86.3 bc	66.3 cd	100.0 -	100.0 -	92.5 ab
8 AUTHORITY EDGE	9.0	FL OZ/A	A	92.5 ab	88.8 ab	100.0 -	100.0 -	91.3 ab
LSD P=.05				7.70	13.50	1.51	1.51	4.47
Standard Deviation				5.18	9.09	1.02	1.02	3.01
CV				5.83	11.29	1.02	1.02	3.29
Grand Mean				88.96	80.54	99.71	99.71	91.50
Levene's F^				1.002	1.164	0.853	0.853	2.24
Levene's Prob(F)				0.45	0.362	0.544	0.544	0.079
Rank X2				.	.	.	.	.
P(Rank X2)				.	.	.	.	.
Skewness^				-0.228	-1.4799*	-3.8902*	-3.8902*	-1.2217*
Kurtosis^				-1.2803	2.7894*	15.0252*	15.0252*	1.0795
Replicate F				0.416	1.538	2.207	2.207	1.015
Replicate Prob(F)				0.7436	0.2390	0.1225	0.1225	0.4090
Treatment F				3.149	9.072	1.000	1.000	6.822
Treatment Prob(F)				0.0273	0.0001	0.4552	0.4552	0.0007

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^Calculated from residual.

Evaluation: No / Date				003, 7/3/2021	003, 7/3/2021	003, 7/3/2021	003, 7/3/2021	003, 7/3/2021
Crop: ID / Code / Resistance				1, GLXMA, DGT	1, GLXMA, DGT	1, GLXMA, DGT	1, GLXMA, DGT	1, GLXMA, DGT
Crop: Variety				AG29XF1	AG29XF1	AG29XF1	AG29XF1	AG29XF1
Crop GS: From / To / Method				- , - , B	- , - , B	- , - , B	- , - , B	- , - , B
DAT / DALT / DAP				41, 41, 41	41, 41, 41	41, 41, 41	41, 41, 41	41, 41, 41
SE: File / Group				- , 9	- , 9	- , 9	- , 10	- , 11
Organism / Biotype				CHEAL, -	ABUTH, -	ECHCG, -	SETFA, -	SETPU, -
Rating Type				CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Clarifier				CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
CALC Method				P%CONT	P%CONT	P%CONT	P%CONT	P%CONT
Rating Unit				%	%	%	%	%
# Subsamples / Class				1, 1	1, 1	1, 1	1, 1	1, 1
Sample Size / Unit				1.0 TPLOT	1.0 TPLOT	1.0 TPLOT	1.0 TPLOT	1.0 TPLOT
Product/Entry	Product Rate	Prod Unit	Appl Code	16	17	18	19	20
1 CHECK				0.0	0.0	0.0	0.0	0.0
2 BOUNDARY	24.0 FL OZ/A	A		95.0 -	75.0 b	81.3 ab	98.8 -	98.8 -
3 ZIDUA PRO	6.0 FL OZ/A	A		98.5 -	93.8 a	90.0 a	100.0 -	100.0 -
4 ZIDUA PRO	4.5 FL OZ/A	A		95.0 -	83.8 b	80.0 ab	100.0 -	100.0 -
5 SONIC	5.0 OZ WT/A	A		95.0 -	81.3 b	40.0 c	97.5 -	97.5 -
6 AUTHORITY SUPREME	6.5 FL OZ/A	A		95.5 -	75.0 b	70.0 b	100.0 -	100.0 -
7 FIERCE MTZ	16.0 FL OZ/A	A		95.0 -	75.0 b	66.3 b	100.0 -	100.0 -
8 AUTHORITY EDGE	9.0 FL OZ/A	A		96.8 -	80.0 b	81.3 ab	100.0 -	100.0 -
LSD P=.05				2.85	9.10	16.49	2.92	2.92
Standard Deviation				1.92	6.12	11.10	1.97	1.97
CV				2.0	7.6	15.27	1.98	1.98
Grand Mean				95.82	80.54	72.68	99.46	99.46
Levene's F^				2.511	0.933	0.762	0.867	0.867
Levene's Prob(F)				0.054	0.492	0.608	0.535	0.535
Rank X2				.	.	.	.	.
P(Rank X2)				.	.	.	.	.
Skewness^				0.3756	0.2493	-2.293*	-4.1261*	-4.1261*
Kurtosis^				2.0291*	-0.8605	7.2155*	17.4011*	17.4011*
Replicate F				1.121	0.278	2.674	2.077	2.077
Replicate Prob(F)				0.3669	0.8407	0.0783	0.1391	0.1391
Treatment F				1.960	4.937	8.749	1.000	1.000
Treatment Prob(F)				0.1255	0.0038	0.0002	0.4552	0.4552

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Evaluation: No / Date	004, 7/18/2021	004, 7/18/2021	004, 7/18/2021	004, 7/18/2021	004, 7/18/2021	
Crop: ID / Code / Resistance	1, GLXMA, DGT	1, GLXMA, DGT	1, GLXMA, DGT	1, GLXMA, DGT	1, GLXMA, DGT	
Crop: Variety	AG29XF1	AG29XF1	AG29XF1	AG29XF1	AG29XF1	
Crop GS: From / To / Method	- , - , B	- , - , B	- , - , B	- , - , B	- , - , B	
DAT / DALT / DAP	56, 56, 56	56, 56, 56	56, 56, 56	56, 56, 56	56, 56, 56	
SE: File / Group	- , 12	- , 12	- , 12	- , 12	- , 13	
Organism / Biotype	AMATA, -	CHEAL, -	ABUTH, -	ECHCG, -	SETFA, -	
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	
Clarifier	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	
CALC Method	P%CONT	P%CONT	P%CONT	P%CONT	P%CONT	
Rating Unit	%	%	%	%	%	
# Subsamples / Class	1, 1	1, 1	1, 1	1, 1	1, 1	
Sample Size / Unit	1.0 TPLOT	1.0 TPLOT	1.0 TPLOT	1.0 TPLOT	1.0 TPLOT	
Product/Entry Trt Name	Product Prod Rate Unit Appl Code	21	22	23	24	25
1 CHECK		0.0	0.0	0.0	0.0	0.0
2 BOUNDARY	24.0 FL OZ/A A	78.8 c	93.8 -	57.5 c	63.8 ab	98.8 -
3 ZIDUA PRO	6.0 FL OZ/A A	91.3 a	96.5 -	81.3 a	78.8 a	100.0 -
4 ZIDUA PRO	4.5 FL OZ/A A	85.0 b	95.0 -	71.3 ab	67.5 ab	100.0 -
5 SONIC	5.0 OZ WT/A A	85.0 b	95.0 -	63.8 bc	35.0 c	97.5 -
6 AUTHORITY SUPREME	6.5 FL OZ/A A	90.0 ab	95.5 -	62.5 bc	55.0 b	100.0 -
7 FIERCE MTZ	16.0 FL OZ/A A	87.5 ab	94.3 -	67.5 bc	55.0 b	100.0 -
8 AUTHORITY EDGE	9.0 FL OZ/A A	85.0 b	96.0 -	66.3 bc	67.5 ab	100.0 -
LSD P=.05	5.71	2.55	10.46	15.40	2.92	
Standard Deviation	3.84	1.71	7.04	10.37	1.97	
CV	4.47	1.8	10.49	17.17	1.98	
Grand Mean	86.07	95.14	67.14	60.36	99.46	
Levene's F^	4.90	0.861	0.342	1.201	0.867	
Levene's Prob(F)	0.003*	0.539	0.907	0.344	0.535	
Rank X2	.	.	.	.	.	
P(Rank X2)	.	.	.	.	.	
Skewness^	-0.4631	-1.8666*	-0.0616	-1.9677*	-4.1261*	
Kurtosis^	-1.0351	4.9753*	-0.0361	6.7181*	17.4011*	
Replicate F	1.047	0.291	0.720	1.097	2.077	
Replicate Prob(F)	0.3959	0.8310	0.5530	0.3760	0.1391	
Treatment F	4.570	1.243	4.608	7.150	1.000	
Treatment Prob(F)	0.0055	0.3312	0.0053	0.0005	0.4552	

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Could not calculate LSD (% mean diff) for columns 1,2 because error mean square = 0.  
^Calculated from residual.

Evaluation: No / Date	004, 7/18/2021	005, 7/25/2021	005, 7/25/2021	005, 7/25/2021	005, 7/25/2021	
Crop: ID / Code / Resistance	1, GLXMA, DGT	1, GLXMA, DGT	1, GLXMA, DGT	1, GLXMA, DGT	1, GLXMA, DGT	
Crop: Variety	AG29XF1	AG29XF1	AG29XF1	AG29XF1	AG29XF1	
Crop GS: From / To / Method	- , - , B	- , - , B	- , - , B	- , - , B	- , - , B	
DAT / DALT / DAP	56, 56, 56	63, 63, 63	63, 63, 63	63, 63, 63	63, 63, 63	
SE: File / Group	- , 14	- , 15	- , 15	- , 15	- , 15	
Organism / Biotype	SETPU, -	AMATA, -	CHEAL, -	ABUTH, -	ECHCG, -	
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	
Clarifier	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	
CALC Method	P%CONT	P%CONT	P%CONT	P%CONT	P%CONT	
Rating Unit	%	%	%	%	%	
# Subsamples / Class	1, 1	1, 1	1, 1	1, 1	1, 1	
Sample Size / Unit	1.0 TPLO	1.0 TPLO	1.0 TPLO	1.0 TPLO	1.0 TPLO	
Product/Entry Trt Name	Product Prod Rate Unit Appl Code	26	27	28	29	30
1 CHECK		0.0	0.0	0.0	0.0	0.0
2 BOUNDARY	24.0 FL OZ/A A	98.8 -	76.3 c	93.8 -	55.0 c	61.3 bc
3 ZIDUA PRO	6.0 FL OZ/A A	100.0 -	90.0 a	96.5 -	80.0 a	76.3 a
4 ZIDUA PRO	4.5 FL OZ/A A	100.0 -	81.3 bc	95.0 -	71.3 ab	67.5 ab
5 SONIC	5.0 OZ WT/A A	97.5 -	85.0 ab	95.0 -	62.5 bc	32.5 d
6 AUTHORITY SUPREME	6.5 FL OZ/A A	100.0 -	87.5 ab	95.5 -	63.8 bc	55.0 bc
7 FIERCE MTZ	16.0 FL OZ/A A	100.0 -	86.8 ab	94.3 -	66.3 b	52.5 c
8 AUTHORITY EDGE	9.0 FL OZ/A A	100.0 -	81.3 bc	96.0 -	67.5 b	61.3 bc
LSD P=.05	2.92	6.61	2.55	10.85	14.41	
Standard Deviation	1.97	4.45	1.71	7.31	9.70	
CV	1.98	5.3	1.8	10.97	16.71	
Grand Mean	99.46	84.00	95.14	66.61	58.04	
Levene's F^	0.867	1.036	0.861	0.258	0.96	
Levene's Prob(F)	0.535	0.43	0.539	0.95	0.475	
Rank X2	.	.	.	.	.	
P(Rank X2)	.	.	.	.	.	
Skewness^	-4.1261*	-0.3348	-1.8666*	-0.1703	-1.8687*	
Kurtosis^	17.4011*	-0.2596	4.9753*	-0.2659	6.1426*	
Replicate F	2.077	0.692	0.291	1.221	1.199	
Replicate Prob(F)	0.1391	0.5689	0.8310	0.3308	0.3383	
Treatment F	1.000	4.439	1.243	4.517	8.038	
Treatment Prob(F)	0.4552	0.0063	0.3312	0.0058	0.0003	

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).  
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.  
Untreated treatment(s) 1 excluded from analysis.  
Could not calculate LSD (% mean diff) for columns 1,2 because error mean square = 0.  
^Calculated from residual.



Evaluation: No / Date				005, 7/25/2021	005, 7/25/2021
Crop: ID / Code / Resistance				1, GLXMA, DGT	1, GLXMA, DGT
Crop: Variety				AG29XF1	AG29XF1
Crop GS: From / To / Method				- , - , B	- , - , B
DAT / DALT / DAP				63, 63, 63	63, 63, 63
SE: File / Group				- , 16	- , 17
Organism / Biotype				SETFA, -	SETPU, -
Rating Type				CONTRO	CONTRO
Clarifier				CONTROL	CONTROL
CALC Method				P%CONT	P%CONT
Rating Unit				%	%
# Subsamples / Class				1, 1	1, 1
Sample Size / Unit				1.0 TPLOT	1.0 TPLOT
Product/Entry	Product	Prod	Appl	31	32
Trt Name	Rate	Unit	Code		
1 CHECK				0.0	0.0
2 BOUNDARY	24.0	FL OZ/A	A	98.8 -	98.8 -
3 ZIDUA PRO	6.0	FL OZ/A	A	100.0 -	100.0 -
4 ZIDUA PRO	4.5	FL OZ/A	A	100.0 -	100.0 -
5 SONIC	5.0	OZ WT/A	A	97.5 -	97.5 -
6 AUTHORITY SUPREME	6.5	FL OZ/A	A	100.0 -	100.0 -
7 FIERCE MTZ	16.0	FL OZ/A	A	100.0 -	100.0 -
8 AUTHORITY EDGE	9.0	FL OZ/A	A	100.0 -	100.0 -
LSD P=.05				2.92	2.92
Standard Deviation				1.97	1.97
CV				1.98	1.98
Grand Mean				99.46	99.46
Levene's F^				0.867	0.867
Levene's Prob(F)				0.535	0.535
Rank X2				.	.
P(Rank X2)				.	.
Skewness^				-4.1261*	-4.1261*
Kurtosis^				17.4011*	17.4011*
Replicate F				2.077	2.077
Replicate Prob(F)				0.1391	0.1391
Treatment F				1.000	1.000
Treatment Prob(F)				0.4552	0.4552

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).  
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.  
Untreated treatment(s) 1 excluded from analysis.  
Could not calculate LSD (% mean diff) for columns 1,2 because error mean square = 0.  
^Calculated from residual.

# Purdue Weed Science

Trial ID: 21S-TPAC-SOY-16  
Title: ZIDUA PRO RESIDUAL WEED CONTROL VS COMPETITORS  
Licensee: Dr. Bill Johnson

Crop: ID / Code / Resistance  
1, GLXMA, DGT, AG29XF1 = Soybean

B = BBCH SCALE

14 = 1 GLXMA 5/23/2021  
28 = 1 GLXMA 5/23/2021  
41 = 1 GLXMA 5/23/2021  
56 = 1 GLXMA 5/23/2021  
63 = 1 GLXMA 5/23/2021

Organism / Biotype

GLXMA = GLYCINE MAX  
AMATA = AMARANTHUS TAMARISCINUS  
CHEAL = CHENOPODIUM ALBUM  
ABUTH = ABUTILON THEOPHRASTI  
ECHCG = ECHINOCHLOA CRUS-GALLI  
SETFA = SETARIA FABERI  
SETPU = SETARIA PUMILA

Rating Type

PHYTOX, CROP INJURY = CROP INJURY  
CONTRO, CONTROL = CONTROL

CALC Method

P%EST = ESTIMATION ATTRIBUTE IN %  
P%CONT = ESTIMATION CONTROL IN %

Rating Unit

% = PERCENT

TPLOT = TOTAL PLOT