

University of Georgia

REDUCED RATES OF ZIDUA PRE FOR
WEED CONTROL IN PEANUT

Trial ID: PE-19-17 Study Dir.: SANDY NEWELL
Location: PONDER FARM Investigator: Eric P. Prostko

Reps: 3 Plots: 6 by 25 feet
Spray vol: 15 GAL/AC Mix Size: 1.5 liters (.58658 liters calculated mix size)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Stg	Appl Code	Amt Product to Measure	Rep 1	Rep 2	Rep 3
1	NTC							101	205	304
2	PROWL H20	3.8	CS	32.0 oz/a	PRE	A	25.0 ml/mx	102	208	301
	VALOR SX	3.0	DG	3.0 oz/a	PRE	A	2.247 g/mx			
	STRONGARM	84	WG	0.225 oz/a	PRE	A	0.1685 g/mx			
	CADRE	2	AS	4.0 oz/a	POST	B	3.125 ml/mx			
	2,4-DB	1.75	SL	18.0 oz/a	POST	B	14.06 ml/mx			
	DUAL MAGNUM	7.62	EC	16.0 oz/a	POST	B	12.5 ml/mx			
3	ZIDUA	85	WG	1.0 oz/a	PRE	A	0.7489 g/mx	103	206	310
	VALOR SX	51	DG	3.0 oz/a	PRE	A	2.247 g/mx			
	STRONGARM	84	WG	0.225 oz/a	PRE	A	0.1685 g/mx			
	CADRE	2	AS	4.0 oz/a	POST	B	3.125 ml/mx			
	2,4-DB	1.75	SL	18.0 oz/a	POST	B	14.06 ml/mx			
	ZIDUA	85	WG	1.5 oz/a	POST	B	1.123 g/mx			
	COC			1.0 % v/v	POST	B	15.0 ml/mx			
4	PROWL H20	3.8	CS	32.0 oz/a	PRE	A	25.0 ml/mx	104	211	307
	ZIDUA	85	WG	1.0 oz/a	PRE	A	0.7489 g/mx			
	VALOR SX	51	DG	3.0 oz/a	PRE	A	2.247 g/mx			
	STRONGARM	84	WG	0.225 oz/a	PRE	A	0.1685 g/mx			
	CADRE	2	AS	4.0 oz/a	POST	B	3.125 ml/mx			
	2,4-DB	1.75	SL	18.0 oz/a	POST	B	14.06 ml/mx			
	ZIDUA	85	WG	1.5 oz/a	POST	B	1.123 g/mx			
	COC			1.0 % v/v	POST	BB	15.0 ml/mx			
5	PROWL H20	3.8	CS	16.0 oz/a	PRE	A	12.5 ml/mx	105	204	302
	ZIDUA	85	WG	1.0 oz/a	PRE	A	0.7489 g/mx			
	VALOR SX	51	DG	3.0 oz/a	PRE	A	2.247 g/mx			
	STRONGARM	84	WG	0.225 oz/a	PRE	A	0.1685 g/mx			
	CADRE	2	AS	4.0 oz/a	POST	C	3.125 ml/mx			
	2,4-DB	1.75	SL	18.0 oz/a	POST	B	14.06 ml/mx			
	ZIDUA	85	WG	1.5 oz/a	POST	B	1.123 g/mx			
	COC			1.0 % v/v	POST	B	15.0 ml/mx			
6	PROWL H20	3.8	CS	16.0 oz/a	PRE	A	12.5 ml/mx	106	209	311
	ZIDUA	85	WG	1.0 oz/a	PRE	A	0.7489 g/mx			
	VALOR SX	51	DG	1.5 oz/a	PRE	A	1.123 g/mx			
	STRONGARM	84	WG	0.225 oz/a	PRE	A	0.1685 g/mx			
	CADRE	2	AS	4.0 oz/a	POST	B	3.125 ml/mx			
	2,4-DB	1.75	SL	18.0 oz/a	POST	B	14.06 ml/mx			
	ZIDUA	85	WG	1.5 oz/a	POST	B	1.123 g/mx			
	COC			1.0 % v/v	POST	B	15.0 ml/mx			
7	PROWL H20	3.8	CS	32.0 oz/a	PRE	A	25.0 ml/mx	107	202	309
	VALOR SX	3.0	DG	3.0 oz/a	PRE	A	2.247 g/mx			
	STRONGARM	84	WG	0.225 oz/a	PRE	A	0.1685 g/mx			
	COBRA	2	EC	12.5 oz/a	POST	B	9.765 ml/mx			
	2,4-DB	1.75	SL	18.0 oz/a	POST	B	14.06 ml/mx			
	DUAL MAGNUM	7.62	EC	16.0 oz/a	POST	B	12.5 ml/mx			
8	ZIDUA	85	WG	1.0 oz/a	PRE	A	0.7489 g/mx	108	203	312
	VALOR SX	51	DG	3.0 oz/a	PRE	A	2.247 g/mx			
	STRONGARM	84	WG	0.225 oz/a	PRE	A	0.1685 g/mx			
	COBRA	2	EC	12.5 oz/a	POST	B	9.765 ml/mx			
	2,4-DB	1.75	SL	18.0 oz/a	POST	B	14.06 ml/mx			
	ZIDUA	85	WG	1.5 oz/a	POST	B	1.123 g/mx			
	COC			1.0 % v/v	POST	B	15.0 ml/mx			

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Reps: 3 Plots: 6 by 25 feet
 Spray vol: 15 GAL/AC Mix Size: 1.5 liters (.58658 liters calculated mix size)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Stg	Appl Code	Amt Product to Measure	Rep 1	Rep 2	Rep 3
9	PROWL H20	3.8	CS	32.0 oz/a	PRE	A	25.0 ml/mx	109	201	305
	ZIDUA	85	WG	1.0 oz/a	PRE	A	0.7489 g/mx			
	VALOR SX	51	DG	3.0 oz/a	PRE	A	2.247 g/mx			
	STRONGARM	84	WG	0.225 oz/a	PRE	A	0.1685 g/mx			
	COBRA	2	EC	12.5 oz/a	POST	B	9.765 ml/mx			
	2,4-DB	1.75	SL	18.0 oz/a	POST	B	14.06 ml/mx			
	ZIDUA	85	WG	1.5 oz/a	POST	B	1.123 g/mx			
	COC			1.0 % v/v	POST	B	15.0 ml/mx			
10	PROWL H20	3.8	CS	16.0 oz/a	PRE	A	12.5 ml/mx	110	212	306
	ZIDUA	85	WG	1.0 oz/a	PRE	A	0.7489 g/mx			
	VALOR SX	51	DG	3.0 oz/a	PRE	A	2.247 g/mx			
	STRONGARM	84	WG	0.225 oz/a	PRE	A	0.1685 g/mx			
	COBRA	2	EC	12.5 oz/a	POST	B	9.765 ml/mx			
	2,4-DB	1.75	SL	18.0 oz/a	POST	B	14.06 ml/mx			
	ZIDUA	85	WG	1.5 oz/a	POST	B	1.123 g/mx			
	COC			1.0 % v/v	POST	B	15.0 ml/mx			
11	PROWL H20	3.8	CS	16.0 oz/a	PRE	A	12.5 ml/mx	111	210	303
	ZIDUA	85	WG	1.0 oz/a	PRE	A	0.7489 g/mx			
	VALOR SX	51	DG	1.5 oz/a	PRE	A	1.123 g/mx			
	STRONGARM	84	WG	0.225 oz/a	PRE	A	0.1685 g/mx			
	COBRA	2	EC	12.5 oz/a	POST	B	9.765 ml/mx			
	2,4-DB	1.75	SL	18.0 oz/a	POST	B	14.06 ml/mx			
	ZIDUA	85	WG	1.5 oz/a	POST	B	1.123 g/mx			
	COC			1.0 % v/v	POST	B	15.0 ml/mx			
12	NTC						112	207	308	

Sort Order: Treatment

Trial Comments
<p>DIGGING DATE: SEPTEMBER 21 HARVEST DATE: SEPTEMBER 26 HARVEST MOISTURE: 11.3% YIELD ADJUSTED TO 10% 2% YIELD DEDUCTION FOR FM</p> <p><u>SUMMARY:</u></p> <p>1) ALL PRE TREATMENTS CAUSED SIGNIFICANT CROP STUNTING EARLY IN THE GROWING SEASON.</p> <p>2) GENERALLY, PRE APPLIED PROWL @ 16 OZ/A + ZIDUA @ 1 OZ/A + VALOR @ 1.5 OZ/A (~\$16.28/A) PROVIDED SIMILAR CONTROL OF PALMER AMARANTH AND ANNUAL GRASSES WHEN COMPARED TO PRE APPLIED PROWL @ 32 OZ/A + VALOR @ 3 OZ/A (~\$17.75/A).</p> <p>3) PRE APPLIED ZIDUA @ 1 OZ/A + VALOR @ 3 OZ/A PROVIDED SIMILAR CONTROL OF PALMER AMARANTH AND ANNUAL GRASS WHEN COMPARED TO PROWL @ 32 OZ/A + VALOR @ 3 OZ/A.</p> <p>4) GENERALLY, GRASS CONTROL WAS BETTER WHEN POST TREATMENTS INCLUDED CADRE COMPARED TO COBRA.</p> <p>5) ALL TREATMENTS PROVIDED SIGNIFICANTLY HIGHER YIELDS THAN THE NTC. HOWEVER, THERE WAS NO DIFFERENCE IN YIELD BETWEEN TREATMENTS.</p>

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REDUCED RATES OF ZIDUA PRE FOR WEED CONTROL IN PEANUT

Trial ID: PE-19-17 Study Dir.: SANDY NEWELL
 Location: PONDER FARM Investigator: Eric P. Prostko

GENERAL TRIAL INFORMATION

Study Director: SANDY NEWELL **Title:** _____
Affiliation: _____ **Postal Code:** _____

Investigator: Eric P. Prostko **Title:** _____
Affiliation: _____ **Postal Code:** _____

Trial Status: _____ **Initiation Date:** _____ **Country:** _____
City: _____ **State/Prov.:** _____ **Postal Code:** _____
Conducted Under GLP (Y/N): N **Conducted Under GEP (Y/N):** N

Objective: _____
Conclusions: _____

CROP AND PEST DESCRIPTION

Weed 1. AMAPA PALMER AMARANTH **2.** AGRASS T.MILLET/CRAB/GOOSE/CROW

Crop 1: ARAHY PEANUT **Variety:** GA-06G **Planting Date:** May-8-17
Planting Method: MONOSEM TWIN ROW **Rate:** 3.1 **SEED/FT** **Depth:** 2 IN
Perennial Age: _____ **Row Spacing:** _____ **Seed Bed:** _____
Soil Temperature: _____ **Soil Moisture:** OPTIMUM **Emergence Date:** _____

Plot Width, Unit: 6 FT **Plot Length, Unit:** 25 FT **Reps:** 3

Site Type: _____ **Study Design:** RACOB

Tillage Type: CONVENTIONAL

Trial Initiation Comments: THIMET @ 3.5 LBS/A INFR; DYNASTY PD SEED TRT; 36"-9" TWIN ROWS; 300 LBS/A 3--9-18 PREPLANT;

Previous: Crops	Pesticides	Year
1. PEANUT	2016	_____

MAINTENANCE

Field Prep./Maintenance: _____

No.	Date	Treatment Name	Form	Form	Form	Rate	Unit
			Conc	Unit	Type	Rate	
1.	_____	_____	_____	_____	_____	_____	_____

SOIL DESCRIPTION

Texture: SAND **% OM:** 0.63 **% Sand:** 96 **% Silt:** 0 **% Clay:** 4
pH: 6.2 **CEC:** 3.0 **Soil Name:** TIFTON **Fertility Level:** GOOD

MOISTURE CONDITIONS

On: Date	Time	Amount	Unit	Type	Interval	Unit
1. May-10-17	_____	0.5	IN	SPRINKLER - LATERAL MOVE	_____	_____
2. May-17-17	_____	0.5	IN	SPRINKLER - LATERAL MOVE	_____	_____
3. May-21-17	_____	0.11	IN	RAINFALL	_____	_____
4. May-23-17	_____	0.5	IN	SPRINKLER - LATERAL MOVE	_____	_____
5. May-23-17	_____	0.9	IN	RAINFALL	_____	_____
6. May-24-17	_____	0.51	IN	RAINFALL	_____	_____
7. May-31-17	_____	0.5	IN	SPRINKLER - LATERAL MOVE	_____	_____
8. Jun-1-17	_____	0.5	IN	SPRINKLER - LATERAL MOVE	_____	_____

Overall Moisture Conditions: _____
Closest Weather Station: _____ **Distance:** _____ **Unit:** _____

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	May-9-17	Jun-15-17	_____	_____	_____	_____
Time of Day:	7:00 AM	7:00 AM	_____	_____	_____	_____
Application Method:	BROADCAST	BROADCAST	_____	_____	_____	_____
Application Timing:	PRE	POST	_____	_____	_____	_____
Applic. Placement:	SOIL	FOLIAGE	_____	_____	_____	_____
Air Temp., Unit:	56 F	72 F	_____	_____	_____	_____
% Relative Humidity:	100	100	_____	_____	_____	_____
Wind Velocity, Unit:	0 MPH	0 MPH	_____	_____	_____	_____
Dew Presence (Y/N):	N	Y	_____	_____	_____	_____
Water Hardness:	---	---	_____	_____	_____	_____
Soil Temp., Unit:	65 F	73 F	_____	_____	_____	_____
Soil Moisture:	OPTIMUM	OPTIMUM	_____	_____	_____	_____
% Cloud Cover:	0	10	_____	_____	_____	_____

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CROP STAGE AT EACH APPLICATION							
		A	B	C	D	E	F
Crop 1	Stage: ARAHY		7" WIDE				
	Stage Scale:		R1-R2				
	Height, Unit:		5 IN				

WEED STAGE AT EACH APPLICATION							
		A	B	C	D	E	F
Weed 1	Stage: AMAPA		NONE UP				
	Stage Scale:						
	Density, Unit:						
Weed 2	Stage: AGRASS		4-6"				
	Stage Scale:						
	Density, Unit:						

APPLICATION EQUIPMENT							
		A	B	C	D	E	F
Appl. Equipment:	BACKPACK	BACKPACK					
Operating Pressure:	35	38					
Nozzle Type:	AIXR	AIXR					
Nozzle Size:	1002	11002					
Nozzle Spacing, Unit:	18	IN 20	IN				
Nozzles/Row:	2						
Band Width, Unit:							
Boom Length, Unit:	72	IN 60	IN				
Boom Height, Unit:	20	IN 20	IN				
Ground Speed, Unit:	3.5	MPH 3.5	MPH				
Incorporation Equip.:							
Hours to Incorp.:							
Incorp. Depth, Unit:							
Carrier:	WATER	WATER					
Spray Volume, Unit:	15	GPA 15	GPA				
Spray pH:							
Propellant:	CO2	CO2					
Tank Mix (Y/N):	-	-					

Trt No	Treatment Application Comment

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REDUCED RATES OF ZIDUA PRE FOR WEED CONTROL IN PEANUT														
Trial ID: PE-19-17 Study Dir.: SANDY NEWELL														
Location: PONDER FARM Investigator: Eric P. Prostko														
Weed Code			----- ARAHY CROP - STUNT PERCENT May-19-17	AMAPA ----- CONTROL PERCENT May-19-17	A. GRASS ----- CONTROL PERCENT May-19-17	----- ARAHY CROP - STUNT PERCENT Jun-1-17	AMAPA ----- CONTROL PERCENT Jun-1-17	A. GRASS ----- CONTROL PERCENT Jun-1-17	AMAPA ----- CONTROL PERCENT Jun-29-17					
Crop Code			1	2	3	4	5	6	7					
Part Rated														
Rating Data Type														
Rating Unit														
Rating Date														
PRM Data Type														
# Subsamples, Dec.														
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	Appl Code							
1	NTC							0.0 d	0.0 b	0.0 c	0.0 e	0.0 b	0.0 c	0.0 b
2	PROWL H20	3.8	CS	32.0	oz/a	PRE	A	15.0 c	100.0 a	100.0 a	18.3 abc	100.0 a	93.3 b	100.0 a
	VALOR SX	3.0	DG	3.0	oz/a	PRE	A							
	STRONGARM	84	WG	0.225	oz/a	PRE	A							
	CADRE	2	AS	4.0	oz/a	POST	B							
	2,4-DB	1.75	SL	18.0	oz/a	POST	B							
	DUAL MAGNUM	7.62	EC	16.0	oz/a	POST	B							
3	ZIDUA	85	WG	1.0	oz/a	PRE	A	20.0 abc	100.0 a	98.3 ab	18.3 abc	100.0 a	95.0 ab	100.0 a
	VALOR SX	51	DG	3.0	oz/a	PRE	A							
	STRONGARM	84	WG	0.225	oz/a	PRE	A							
	CADRE	2	AS	4.0	oz/a	POST	B							
	2,4-DB	1.75	SL	18.0	oz/a	POST	B							
	ZIDUA	85	WG	1.5	oz/a	POST	B							
	COC			1.0	% v/v	POST	B							
4	PROWL H20	3.8	CS	32.0	oz/a	PRE	A	13.3 c	100.0 a	98.3 ab	18.3 abc	100.0 a	96.7 ab	100.0 a
	ZIDUA	85	WG	1.0	oz/a	PRE	A							
	VALOR SX	51	DG	3.0	oz/a	PRE	A							
	STRONGARM	84	WG	0.225	oz/a	PRE	A							
	CADRE	2	AS	4.0	oz/a	POST	B							
	2,4-DB	1.75	SL	18.0	oz/a	POST	B							
	ZIDUA	85	WG	1.5	oz/a	POST	B							
	COC			1.0	% v/v	POST	BB							
5	PROWL H20	3.8	CS	16.0	oz/a	PRE	A	20.0 abc	100.0 a	100.0 a	18.3 abc	100.0 a	100.0 a	100.0 a
	ZIDUA	85	WG	1.0	oz/a	PRE	A							
	VALOR SX	51	DG	3.0	oz/a	PRE	A							
	STRONGARM	84	WG	0.225	oz/a	PRE	A							
	CADRE	2	AS	4.0	oz/a	POST	C							
	2,4-DB	1.75	SL	18.0	oz/a	POST	B							
	ZIDUA	85	WG	1.5	oz/a	POST	B							
	COC			1.0	% v/v	POST	B							
6	PROWL H20	3.8	CS	16.0	oz/a	PRE	A	16.7 c	100.0 a	98.3 ab	15.0 bcd	100.0 a	93.3 b	100.0 a
	ZIDUA	85	WG	1.0	oz/a	PRE	A							
	VALOR SX	51	DG	1.5	oz/a	PRE	A							
	STRONGARM	84	WG	0.225	oz/a	PRE	A							
	CADRE	2	AS	4.0	oz/a	POST	B							
	2,4-DB	1.75	SL	18.0	oz/a	POST	B							
	ZIDUA	85	WG	1.5	oz/a	POST	B							
	COC			1.0	% v/v	POST	B							
7	PROWL H20	3.8	CS	32.0	oz/a	PRE	A	15.0 c	100.0 a	96.7 b	18.3 abc	100.0 a	93.3 b	100.0 a
	VALOR SX	3.0	DG	3.0	oz/a	PRE	A							
	STRONGARM	84	WG	0.225	oz/a	PRE	A							
	COBRA	2	EC	12.5	oz/a	POST	B							
	2,4-DB	1.75	SL	18.0	oz/a	POST	B							
	DUAL MAGNUM	7.62	EC	16.0	oz/a	POST	B							
8	ZIDUA	85	WG	1.0	oz/a	PRE	A	18.3 bc	100.0 a	100.0 a	20.0 ab	100.0 a	96.7 ab	100.0 a
	VALOR SX	51	DG	3.0	oz/a	PRE	A							
	STRONGARM	84	WG	0.225	oz/a	PRE	A							
	COBRA	2	EC	12.5	oz/a	POST	B							
	2,4-DB	1.75	SL	18.0	oz/a	POST	B							
	ZIDUA	85	WG	1.5	oz/a	POST	B							
	COC			1.0	% v/v	POST	B							

Means followed by same letter or symbol do not significantly differ (P=.10, Duncan's New MRT)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Could not calculate LSD (% mean diff) for columns 2,5,7,9 because error mean square = 0.

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Weed Code							-----	AMAPA	A. GRASS	-----	AMAPA	A. GRASS	AMAPA	
Crop Code							ARAHY	-----	-----	ARAHY	-----	-----	-----	-----
Part Rated							CROP -			CROP -				
Rating Data Type							STUNT	CONTROL	CONTROL	STUNT	CONTROL	CONTROL	CONTROL	
Rating Unit							PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	
Rating Date							May-19-17	May-19-17	May-19-17	Jun-1-17	Jun-1-17	Jun-1-17	Jun-29-17	
PRM Data Type														
# Subsamples, Dec.														
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	1	2	3	4	5	6	7
9	PROWL H20	3.8	CS	32.0	oz/a	PRE	A	13.3 c	100.0 a	100.0 a	13.3 cd	100.0 a	98.3 ab	100.0 a
	ZIDUA	85	WG	1.0	oz/a	PRE	A							
	VALOR SX	51	DG	3.0	oz/a	PRE	A							
	STRONGARM	84	WG	0.225	oz/a	PRE	A							
	COBRA	2	EC	12.5	oz/a	POST	B							
	2,4-DB	1.75	SL	18.0	oz/a	POST	B							
	ZIDUA	85	WG	1.5	oz/a	POST	B							
	COC			1.0	% v/v	POST	B							
10	PROWL H20	3.8	CS	16.0	oz/a	PRE	A	26.7 a	100.0 a	98.3 ab	21.7 a	100.0 a	95.0 ab	100.0 a
	ZIDUA	85	WG	1.0	oz/a	PRE	A							
	VALOR SX	51	DG	3.0	oz/a	PRE	A							
	STRONGARM	84	WG	0.225	oz/a	PRE	A							
	COBRA	2	EC	12.5	oz/a	POST	B							
	2,4-DB	1.75	SL	18.0	oz/a	POST	B							
	ZIDUA	85	WG	1.5	oz/a	POST	B							
	COC			1.0	% v/v	POST	B							
11	PROWL H20	3.8	CS	16.0	oz/a	PRE	A	25.0 ab	100.0 a	100.0 a	11.7 d	100.0 a	95.0 ab	100.0 a
	ZIDUA	85	WG	1.0	oz/a	PRE	A							
	VALOR SX	51	DG	1.5	oz/a	PRE	A							
	STRONGARM	84	WG	0.225	oz/a	PRE	A							
	COBRA	2	EC	12.5	oz/a	POST	B							
	2,4-DB	1.75	SL	18.0	oz/a	POST	B							
	ZIDUA	85	WG	1.5	oz/a	POST	B							
	COC			1.0	% v/v	POST	B							
12	NTC							0.0 d	0.0 b	0.0 c	0.0 e	0.0 b	0.0 c	0.0 b
LSD	P=.10							6.73	.	2.66	5.02	.	4.47	.
	Standard Deviation							4.80	0.00	1.90	3.58	0.00	3.19	0.00
	CV							31.42	0.0	2.3	24.78	0.0	4.0	0.0
	Grand Mean							15.28	83.33	82.50	14.44	83.33	79.72	83.33
	Bartlett's X2							7.052	0.0	0.0	4.922	0.0	2.317	0.0
	P(Bartlett's X2)							0.423	.	.	0.841	.	0.97	.
	Replicate F							2.742	0.000	0.579	3.956	0.000	1.298	0.000
	Replicate Prob(F)							0.0864	1.0000	0.5688	0.0341	1.0000	0.2931	1.0000
	Treatment F							8.932	0.000	1238.947	12.453	0.000	410.509	0.000
	Treatment Prob(F)							0.0001	1.0000	0.0001	0.0001	1.0000	0.0001	1.0000

Means followed by same letter or symbol do not significantly differ (P=.10, Duncan's New MRT)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Could not calculate LSD (% mean diff) for columns 2,5,7,9 because error mean square = 0.

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.							A. GRASS ----- CONTROL PERCENT Jun-29-17	AMAPA ----- CONTROL PERCENT Jul-31-17	A. GRASS ----- CONTROL PERCENT Jul-31-17	----- ARAHY PLOT - YIELD LBS/PLOT Sep-26-17 - 2	----- ARAHY PLOT - YIELD LBS/PLOT Sep-26-17 T1 - 1	----- ARAHY PLOT - YIELD LBS/A Sep-26-17 TY2 - 1
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg Code	8	9	10	11	12	13
1	NTC						0.0 d	0.0 b	0.0 f	0.00 b	0.0 b	0.0 b
2	PROWL H20	3.8	CS	32.0 oz/a	PRE	A	98.3 a	100.0 a	96.7 a	17.45 a	17.1 a	4894.4 a
	VALOR SX	3.0	DG	3.0 oz/a	PRE	A						
	STRONGARM	84	WG	0.225 oz/a	PRE	A						
	CADRE	2	AS	4.0 oz/a	POST	B						
	2,4-DB	1.75	SL	18.0 oz/a	POST	B						
	DUAL MAGNUM	7.62	EC	16.0 oz/a	POST	B						
3	ZIDUA	85	WG	1.0 oz/a	PRE	A	91.7 abc	100.0 a	93.3 ab	16.92 a	16.6 a	4744.8 a
	VALOR SX	51	DG	3.0 oz/a	PRE	A						
	STRONGARM	84	WG	0.225 oz/a	PRE	A						
	CADRE	2	AS	4.0 oz/a	POST	B						
	2,4-DB	1.75	SL	18.0 oz/a	POST	B						
	ZIDUA	85	WG	1.5 oz/a	POST	B						
	COC			1.0 % v/v	POST	B						
4	PROWL H20	3.8	CS	32.0 oz/a	PRE	A	96.7 a	100.0 a	100.0 a	17.78 a	17.4 a	4987.9 a
	ZIDUA	85	WG	1.0 oz/a	PRE	A						
	VALOR SX	51	DG	3.0 oz/a	PRE	A						
	STRONGARM	84	WG	0.225 oz/a	PRE	A						
	CADRE	2	AS	4.0 oz/a	POST	B						
	2,4-DB	1.75	SL	18.0 oz/a	POST	B						
	ZIDUA	85	WG	1.5 oz/a	POST	B						
	COC			1.0 % v/v	POST	BB						
5	PROWL H20	3.8	CS	16.0 oz/a	PRE	A	98.3 a	100.0 a	98.3 a	19.28 a	18.9 a	5408.6 a
	ZIDUA	85	WG	1.0 oz/a	PRE	A						
	VALOR SX	51	DG	3.0 oz/a	PRE	A						
	STRONGARM	84	WG	0.225 oz/a	PRE	A						
	CADRE	2	AS	4.0 oz/a	POST	C						
	2,4-DB	1.75	SL	18.0 oz/a	POST	B						
	ZIDUA	85	WG	1.5 oz/a	POST	B						
	COC			1.0 % v/v	POST	B						
6	PROWL H20	3.8	CS	16.0 oz/a	PRE	A	93.3 abc	100.0 a	96.7 a	18.53 a	18.2 a	5198.3 a
	ZIDUA	85	WG	1.0 oz/a	PRE	A						
	VALOR SX	51	DG	1.5 oz/a	PRE	A						
	STRONGARM	84	WG	0.225 oz/a	PRE	A						
	CADRE	2	AS	4.0 oz/a	POST	B						
	2,4-DB	1.75	SL	18.0 oz/a	POST	B						
	ZIDUA	85	WG	1.5 oz/a	POST	B						
	COC			1.0 % v/v	POST	B						
7	PROWL H20	3.8	CS	32.0 oz/a	PRE	A	86.7 c	100.0 a	70.0 e	18.12 a	17.8 a	5081.4 a
	VALOR SX	3.0	DG	3.0 oz/a	PRE	A						
	STRONGARM	84	WG	0.225 oz/a	PRE	A						
	COBRA	2	EC	12.5 oz/a	POST	B						
	2,4-DB	1.75	SL	18.0 oz/a	POST	B						
	DUAL MAGNUM	7.62	EC	16.0 oz/a	POST	B						
8	ZIDUA	85	WG	1.0 oz/a	PRE	A	88.3 bc	100.0 a	80.0 d	16.08 a	15.8 a	4511.1 a
	VALOR SX	51	DG	3.0 oz/a	PRE	A						
	STRONGARM	84	WG	0.225 oz/a	PRE	A						
	COBRA	2	EC	12.5 oz/a	POST	B						
	2,4-DB	1.75	SL	18.0 oz/a	POST	B						
	ZIDUA	85	WG	1.5 oz/a	POST	B						
	COC			1.0 % v/v	POST	B						

Means followed by same letter or symbol do not significantly differ (P=.10, Duncan's New MRT)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Could not calculate LSD (% mean diff) for columns 2,5,7,9 because error mean square = 0.

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							A. GRASS	AMAPA	A. GRASS	-----	-----	-----
							CONTROL	CONTROL	CONTROL	ARAHY	ARAHY	ARAHY
							PERCENT	PERCENT	PERCENT	PLOT -	PLOT -	PLOT -
							Jun-29-17	Jul-31-17	Jul-31-17	YIELD	YIELD	YIELD
										LBS/PLOT	LBS/PLOT	LBS/A
										Sep-26-17	Sep-26-17	Sep-26-17
										T1	T1	TY2
										- 2	- 1	- 1
Trt	Treatment	Form	Form	Rate	Grow	Appl						
No.	Name	Conc	Type	Unit	Stg	Code	8	9	10	11	12	13
9	PROWL H20	3.8	CS	32.0 oz/a	PRE	A	95.0 ab	100.0 a	85.0 bcd	17.95 a	17.6 a	5034.6 a
	ZIDUA	85	WG	1.0 oz/a	PRE	A						
	VALOR SX	51	DG	3.0 oz/a	PRE	A						
	STRONGARM	84	WG	0.225 oz/a	PRE	A						
	COBRA	2	EC	12.5 oz/a	POST	B						
	2,4-DB	1.75	SL	18.0 oz/a	POST	B						
	ZIDUA	85	WG	1.5 oz/a	POST	B						
	COC			1.0 % v/v	POST	B						
10	PROWL H20	3.8	CS	16.0 oz/a	PRE	A	91.7 abc	100.0 a	90.0 abc	18.53 a	18.2 a	5198.3 a
	ZIDUA	85	WG	1.0 oz/a	PRE	A						
	VALOR SX	51	DG	3.0 oz/a	PRE	A						
	STRONGARM	84	WG	0.225 oz/a	PRE	A						
	COBRA	2	EC	12.5 oz/a	POST	B						
	2,4-DB	1.75	SL	18.0 oz/a	POST	B						
	ZIDUA	85	WG	1.5 oz/a	POST	B						
	COC			1.0 % v/v	POST	B						
11	PROWL H20	3.8	CS	16.0 oz/a	PRE	A	95.0 ab	100.0 a	81.7 cd	16.42 a	16.1 a	4604.6 a
	ZIDUA	85	WG	1.0 oz/a	PRE	A						
	VALOR SX	51	DG	1.5 oz/a	PRE	A						
	STRONGARM	84	WG	0.225 oz/a	PRE	A						
	COBRA	2	EC	12.5 oz/a	POST	B						
	2,4-DB	1.75	SL	18.0 oz/a	POST	B						
	ZIDUA	85	WG	1.5 oz/a	POST	B						
	COC			1.0 % v/v	POST	B						
12	NTC						0.0 d	0.0 b	0.0 f	0.00 b	0.0 b	0.0 b
LSD P=.10							7.19	.	9.02	3.044	2.98	853.90
Standard Deviation							5.13	0.00	6.44	2.171	2.13	609.04
CV							6.59	0.0	8.66	14.72	14.72	14.72
Grand Mean							77.92	83.33	74.31	14.756	14.46	4138.66
Bartlett's X2							4.476	0.0	11.196	8.161	8.161	8.161
P(Bartlett's X2)							0.812	.	0.191	0.518	0.518	0.518
Replicate F							0.079	0.000	2.079	2.025	2.025	2.025
Replicate Prob(F)							0.9242	1.0000	0.1489	0.1558	0.1558	0.1558
Treatment F							152.410	0.000	92.907	30.750	30.750	30.750
Treatment Prob(F)							0.0001	1.0000	0.0001	0.0001	0.0001	0.0001

Means followed by same letter or symbol do not significantly differ (P=.10, Duncan's New MRT)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Could not calculate LSD (% mean diff) for columns 2,5,7,9 because error mean square = 0.

University of Georgia

REDUCED RATES OF ZIDUA PRE FOR
WEED CONTROL IN PEANUT
Trial ID: PE-19-17 Study Dir.: SANDY NEWELL
Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code
AMAPA = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS.
PRM Data Type
T1 = [11]*0.98
TY2 = 286.2053*[12]

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.							----- ARAHY CROP - STUNT PERCENT May-19-17	AMAPA -----	A. GRASS -----	----- ARAHY CROP - STUNT PERCENT Jun-1-17	AMAPA -----	A. GRASS -----
Trt Treatment	Form	Form	Rate	Grow	Appl							
No. Name	Conc	Type	Rate	Unit	Stg	Code Plot	1	2	3	4	5	6
8 ZIDUA	85	WG	1.0	oz/a	PRE	A 108	15.0	100.0	100.0	20.0	100.0	100.0
VALOR SX	51	DG	3.0	oz/a	PRE	A 203	20.0	100.0	100.0	15.0	100.0	95.0
STRONGARM	84	WG	0.225	oz/a	PRE	A 312	20.0	100.0	100.0	25.0	100.0	95.0
COBRA	2	EC	12.5	oz/a	POST	B						
2,4-DB	1.75	SL	18.0	oz/a	POST	B						
ZIDUA	85	WG	1.5	oz/a	POST	B						
COC			1.0	% v/v	POST	B						
						Mean =	18.3	100.0	100.0	20.0	100.0	96.7
9 PROWL H20	3.8	CS	32.0	oz/a	PRE	A 109	15.0	100.0	100.0	10.0	100.0	100.0
ZIDUA	85	WG	1.0	oz/a	PRE	A 201	10.0	100.0	100.0	15.0	100.0	95.0
VALOR SX	51	DG	3.0	oz/a	PRE	A 305	15.0	100.0	100.0	15.0	100.0	100.0
STRONGARM	84	WG	0.225	oz/a	PRE	A						
COBRA	2	EC	12.5	oz/a	POST	B						
2,4-DB	1.75	SL	18.0	oz/a	POST	B						
ZIDUA	85	WG	1.5	oz/a	POST	B						
COC			1.0	% v/v	POST	B						
						Mean =	13.3	100.0	100.0	13.3	100.0	98.3
10 PROWL H20	3.8	CS	16.0	oz/a	PRE	A 110	20.0	100.0	100.0	20.0	100.0	95.0
ZIDUA	85	WG	1.0	oz/a	PRE	A 212	30.0	100.0	100.0	25.0	100.0	100.0
VALOR SX	51	DG	3.0	oz/a	PRE	A 306	30.0	100.0	95.0	20.0	100.0	90.0
STRONGARM	84	WG	0.225	oz/a	PRE	A						
COBRA	2	EC	12.5	oz/a	POST	B						
2,4-DB	1.75	SL	18.0	oz/a	POST	B						
ZIDUA	85	WG	1.5	oz/a	POST	B						
COC			1.0	% v/v	POST	B						
						Mean =	26.7	100.0	98.3	21.7	100.0	95.0
11 PROWL H20	3.8	CS	16.0	oz/a	PRE	A 111	15.0	100.0	100.0	10.0	100.0	95.0
ZIDUA	85	WG	1.0	oz/a	PRE	A 210	30.0	100.0	100.0	15.0	100.0	90.0
VALOR SX	51	DG	1.5	oz/a	PRE	A 303	30.0	100.0	100.0	10.0	100.0	100.0
STRONGARM	84	WG	0.225	oz/a	PRE	A						
COBRA	2	EC	12.5	oz/a	POST	B						
2,4-DB	1.75	SL	18.0	oz/a	POST	B						
ZIDUA	85	WG	1.5	oz/a	POST	B						
COC			1.0	% v/v	POST	B						
						Mean =	25.0	100.0	100.0	11.7	100.0	95.0
12 NTC						112	0.0	0.0	0.0	0.0	0.0	0.0
						207	0.0	0.0	0.0	0.0	0.0	0.0
						308	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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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.							AMAPA ----- CONTROL PERCENT Jun-29-17	A. GRASS ----- CONTROL PERCENT Jun-29-17	AMAPA ----- CONTROL PERCENT Jul-31-17	A. GRASS ----- CONTROL PERCENT Jul-31-17	----- ARAHY PLOT - YIELD LBS/PLOT Sep-26-17	----- ARAHY PLOT - YIELD LBS/PLOT Sep-26-17 T1 - 1		
Trt	Treatment	Form	Form	Rate	Grow	Appl	7	8	9	10	11	12		
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot						
1	NTC							101 205 304 Mean =	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		
2	PROWL H20	3.8	CS	32.0 oz/a		PRE	A	102	100.0	95.0	100.0	95.0	15.20	14.9
	VALOR SX	3.0	DG	3.0 oz/a		PRE	A	208	100.0	100.0	100.0	95.0	17.85	17.5
	STRONGARM	84	WG	0.225 oz/a		PRE	A	301	100.0	100.0	100.0	100.0	19.30	18.9
	CADRE	2	AS	4.0 oz/a		POST	B							
	2,4-DB	1.75	SL	18.0 oz/a		POST	B							
	DUAL MAGNUM	7.62	EC	16.0 oz/a		POST	B							
								Mean =	100.0	98.3	100.0	96.7	17.45	17.1
3	ZIDUA	85	WG	1.0 oz/a		PRE	A	103	100.0	95.0	100.0	100.0	12.15	11.9
	VALOR SX	51	DG	3.0 oz/a		PRE	A	206	100.0	95.0	100.0	95.0	16.80	16.5
	STRONGARM	84	WG	0.225 oz/a		PRE	A	310	100.0	85.0	100.0	85.0	21.80	21.4
	CADRE	2	AS	4.0 oz/a		POST	B							
	2,4-DB	1.75	SL	18.0 oz/a		POST	B							
	ZIDUA	85	WG	1.5 oz/a		POST	B							
	COC			1.0 % v/v		POST	B							
								Mean =	100.0	91.7	100.0	93.3	16.92	16.6
4	PROWL H20	3.8	CS	32.0 oz/a		PRE	A	104	100.0	95.0	100.0	100.0	18.75	18.4
	ZIDUA	85	WG	1.0 oz/a		PRE	A	211	100.0	100.0	100.0	100.0	15.85	15.5
	VALOR SX	51	DG	3.0 oz/a		PRE	A	307	100.0	95.0	100.0	100.0	18.75	18.4
	STRONGARM	84	WG	0.225 oz/a		PRE	A							
	CADRE	2	AS	4.0 oz/a		POST	B							
	2,4-DB	1.75	SL	18.0 oz/a		POST	B							
	ZIDUA	85	WG	1.5 oz/a		POST	B							
	COC			1.0 % v/v		POST	BB							
								Mean =	100.0	96.7	100.0	100.0	17.78	17.4
5	PROWL H20	3.8	CS	16.0 oz/a		PRE	A	105	100.0	100.0	100.0	100.0	17.25	16.9
	ZIDUA	85	WG	1.0 oz/a		PRE	A	204	100.0	95.0	100.0	95.0	17.95	17.6
	VALOR SX	51	DG	3.0 oz/a		PRE	A	302	100.0	100.0	100.0	100.0	22.65	22.2
	STRONGARM	84	WG	0.225 oz/a		PRE	A							
	CADRE	2	AS	4.0 oz/a		POST	C							
	2,4-DB	1.75	SL	18.0 oz/a		POST	B							
	ZIDUA	85	WG	1.5 oz/a		POST	B							
	COC			1.0 % v/v		POST	B							
								Mean =	100.0	98.3	100.0	98.3	19.28	18.9
6	PROWL H20	3.8	CS	16.0 oz/a		PRE	A	106	100.0	100.0	100.0	95.0	17.75	17.4
	ZIDUA	85	WG	1.0 oz/a		PRE	A	209	100.0	85.0	100.0	95.0	17.25	16.9
	VALOR SX	51	DG	1.5 oz/a		PRE	A	311	100.0	95.0	100.0	100.0	20.60	20.2
	STRONGARM	84	WG	0.225 oz/a		PRE	A							
	CADRE	2	AS	4.0 oz/a		POST	B							
	2,4-DB	1.75	SL	18.0 oz/a		POST	B							
	ZIDUA	85	WG	1.5 oz/a		POST	B							
	COC			1.0 % v/v		POST	B							
								Mean =	100.0	93.3	100.0	96.7	18.53	18.2
7	PROWL H20	3.8	CS	32.0 oz/a		PRE	A	107	100.0	80.0	100.0	65.0	16.85	16.5
	VALOR SX	3.0	DG	3.0 oz/a		PRE	A	202	100.0	90.0	100.0	70.0	19.50	19.1
	STRONGARM	84	WG	0.225 oz/a		PRE	A	309	100.0	90.0	100.0	75.0	18.00	17.6
	COBRA	2	EC	12.5 oz/a		POST	B							
	2,4-DB	1.75	SL	18.0 oz/a		POST	B							
	DUAL MAGNUM	7.62	EC	16.0 oz/a		POST	B							
								Mean =	100.0	86.7	100.0	70.0	18.12	17.8

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Weed Code							----	
Crop Code							ARAHY	
Part Rated							PLOT -	
Rating Data Type							YIELD	
Rating Unit							LBS/A	
Rating Date							Sep-26-17	
PRM Data Type							TY2	
# Subsamples, Dec.							- 1	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Stg	Appl Code	Plot	
							13	
1	NTC						101 205 304 Mean =	0.0 0.0 0.0 0.0
2	PROWL H20	3.8	CS	32.0 oz/a	PRE	A	102	4263.3
	VALOR SX	3.0	DG	3.0 oz/a	PRE	A	208	5006.6
	STRONGARM	84	WG	0.225 oz/a	PRE	A	301	5413.3
	CADRE	2	AS	4.0 oz/a	POST	B		
	2,4-DB	1.75	SL	18.0 oz/a	POST	B		
	DUAL MAGNUM	7.62	EC	16.0 oz/a	POST	B		
							Mean =	4894.4
3	ZIDUA	85	WG	1.0 oz/a	PRE	A	103	3407.8
	VALOR SX	51	DG	3.0 oz/a	PRE	A	206	4712.1
	STRONGARM	84	WG	0.225 oz/a	PRE	A	310	6114.5
	CADRE	2	AS	4.0 oz/a	POST	B		
	2,4-DB	1.75	SL	18.0 oz/a	POST	B		
	ZIDUA	85	WG	1.5 oz/a	POST	B		
	COC			1.0 % v/v	POST	B		
							Mean =	4744.8
4	PROWL H20	3.8	CS	32.0 oz/a	PRE	A	104	5259.0
	ZIDUA	85	WG	1.0 oz/a	PRE	A	211	4445.6
	VALOR SX	51	DG	3.0 oz/a	PRE	A	307	5259.0
	STRONGARM	84	WG	0.225 oz/a	PRE	A		
	CADRE	2	AS	4.0 oz/a	POST	B		
	2,4-DB	1.75	SL	18.0 oz/a	POST	B		
	ZIDUA	85	WG	1.5 oz/a	POST	B		
	COC			1.0 % v/v	POST	BB		
							Mean =	4987.9
5	PROWL H20	3.8	CS	16.0 oz/a	PRE	A	105	4838.3
	ZIDUA	85	WG	1.0 oz/a	PRE	A	204	5034.6
	VALOR SX	51	DG	3.0 oz/a	PRE	A	302	6352.9
	STRONGARM	84	WG	0.225 oz/a	PRE	A		
	CADRE	2	AS	4.0 oz/a	POST	C		
	2,4-DB	1.75	SL	18.0 oz/a	POST	B		
	ZIDUA	85	WG	1.5 oz/a	POST	B		
	COC			1.0 % v/v	POST	B		
							Mean =	5408.6
6	PROWL H20	3.8	CS	16.0 oz/a	PRE	A	106	4978.5
	ZIDUA	85	WG	1.0 oz/a	PRE	A	209	4838.3
	VALOR SX	51	DG	1.5 oz/a	PRE	A	311	5777.9
	STRONGARM	84	WG	0.225 oz/a	PRE	A		
	CADRE	2	AS	4.0 oz/a	POST	B		
	2,4-DB	1.75	SL	18.0 oz/a	POST	B		
	ZIDUA	85	WG	1.5 oz/a	POST	B		
	COC			1.0 % v/v	POST	B		
							Mean =	5198.3
7	PROWL H20	3.8	CS	32.0 oz/a	PRE	A	107	4726.1
	VALOR SX	3.0	DG	3.0 oz/a	PRE	A	202	5469.4
	STRONGARM	84	WG	0.225 oz/a	PRE	A	309	5048.7
	COBRA	2	EC	12.5 oz/a	POST	B		
	2,4-DB	1.75	SL	18.0 oz/a	POST	B		
	DUAL MAGNUM	7.62	EC	16.0 oz/a	POST	B		
							Mean =	5081.4

University of Georgia

REDUCED RATES OF ZIDUA PRE FOR
WEED CONTROL IN PEANUT

Trial ID: PE-19-17 Study Dir.: SANDY NEWELL
Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code

AMAPA = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS.

PRM Data Type

T1 = [11]*0.98

TY2 = 286.2053*[12]