

University of Georgia

PALMER AMARANTH CONTROL WITH
 ULTRA BLAZER + 2,4-DB VS. TOUGH + 2,4-DB
 Trial ID: PE-24-18 Study Dir.: DENNIS LONG
 Location: PONDER FARM Investigator: Eric P. Prostko

Reps: 4 Plots: 6 by 25 feet
 Spray vol: 15 GAL/AC Mix Size: 1.5 L (total for 4 plots; minimum=0.782 L)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Stg	Appl Code	Amt Product to Measure	Rep			
								1	2	3	4
1	NTC							101	203	301	402
2	ULTRA BLAZER	2 SL		24.0 oz/a	POST	A	18.75 mL/mx	102	201	302	401
	2,4-DB	1.75 SL		16.0 oz/a	POST	A	12.5 mL/mx				
	AGRIDEX			1.0 % v/v	POST	A	15.0 mL/mx				
3	TOUGH	5 EC		24.0 oz/a	POST	A	18.75 mL/mx	103	202	303	403
	2,4-DB	1.75 SL		16.0 oz/a	POST	A	12.5 mL/mx				
	AGRIDEX			1.0 % v/v	POST	A	15.0 mL/mx				

Sort Order: Treatment

Trial Comments

PALMER AMARANTH HEIGHT AT APPLICATION

LOW: 0.5"
 HIGH: 7"
 AVERAGE (30 PLANTS): 2.3"

SUMMARY:

1) AT 11 DAT, ULTRA BLAZER + 2,4-DB PROVIDED BETTER CONTROL OF PALMER AMARANTH THAN TOUGH + 2,4-DB (99% VS. 60% CONTROL).

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		WEED STAGE AT EACH APPLICATION					
		A	B	C	D	E	F
Weed 1	Stage: AMAPA 0.5-7" T						
	Stage Scale: 2.3" AVG						
	Density, Unit:						

		APPLICATION EQUIPMENT					
		A	B	C	D	E	F
Appl. Equipment:	BACKPACK						
Operating Pressure:	44						
Nozzle Type:	AIXR						
Nozzle Size:	11002						
Nozzle Spacing, Unit:	20	IN					
Nozzles/Row:							
Band Width, Unit:							
Boom Length, Unit:	60	IN					
Boom Height, Unit:	20	IN					
Ground Speed, Unit:	3.5	MPH					
Incorporation Equip.:							
Hours to Incorp.:							
Incorp. Depth, Unit:							
Carrier:	WATER						
Spray Volume, Unit:	15	GPA					
Spray pH:							
Propellant:	CO2						
Tank Mix (Y/N):							

Trt No	Treatment Application Comment

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						AMAPA	AMAPA
						-----	-----
						CONTROL	CONTROL
						PERCENT	PERCENT
						May-24-18	May-29-18
						6 DA-A	11 DA-A
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Code
						1	2
1	NTC						
						0.0 c	0.0 c
2	ULTRA BLAZER	2	SL	24.0	oz/a	POST	A
	2,4-DB	1.75	SL	16.0	oz/a	POST	A
	AGRIDEX			1.0	% v/v	POST	A
						99.0 a	99.0 a
3	TOUGH	5	EC	24.0	oz/a	POST	A
	2,4-DB	1.75	SL	16.0	oz/a	POST	A
	AGRIDEX			1.0	% v/v	POST	A
						65.0 b	60.0 b
Tukey's HSD P=.10						8.38	7.26
Standard Deviation						4.71	4.08
CV						8.62	7.7
Grand Mean						54.67	53.00
Levene's F							
Levene's Prob(F)							
Replicate F						1.000	1.000
Replicate Prob(F)						0.4547	0.4547
Treatment F						455.460	596.880
Treatment Prob(F)						0.0001	0.0001

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

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 Trial ID: PE-24-18 Study Dir.: DENNIS LONG
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Weed Code						AMAPA	AMAPA		
Crop Code						-----	-----		
Rating Data Type						CONTROL	CONTROL		
Rating Unit						PERCENT	PERCENT		
Rating Date						May-24-18	May-29-18		
Trt-Eval Interval						6 DA-A	11 DA-A		
Trt	Treatment	Form	Form	Rate	Grow	Appl			
No.	Name	Conc	Type	Rate	Unit	Stg	Code Plot		
						1	2		
1	NTC						101	0.0	0.0
							203	0.0	0.0
							301	0.0	0.0
							402	0.0	0.0
							Mean =	0.0	0.0
2	ULTRA BLAZER	2	SL	24.0	oz/a	POST A	102	99.0	99.0
	2,4-DB	1.75	SL	16.0	oz/a	POST A	201	99.0	99.0
	AGRIDEX			1.0	% v/v	POST A	302	99.0	99.0
							401	99.0	99.0
							Mean =	99.0	99.0
3	TOUGH	5	EC	24.0	oz/a	POST A	103	65.0	60.0
	2,4-DB	1.75	SL	16.0	oz/a	POST A	202	55.0	50.0
	AGRIDEX			1.0	% v/v	POST A	303	75.0	65.0
							403	65.0	65.0
							Mean =	65.0	60.0

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