University of Georgia

LARGE PIGWEED CONTROL WITH COBRA + RESOURCE
NON-CROP

Trial ID: NC-08-12   Study Dir.:   JEFF SMITH
Location: PONDER FARM   Investigator: Eric P. Prostko

Reps: 3   Plots: 6 by 50 feet
Spray vol: 15 gal/ac   Mix size: 1.5 liters (min 1.1732)

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit	Grow Stg	Appl Code	Amt Product to Measure	Rep 1	2	3
1	NTC								101	202	302
2	COBRA	2	EC	10.0	OZ/A	POST	A	7.812 ml/mx	102	201	304
	RESOURCE	0.86	EC	4.0	OZ/A	POST	A	3.125 ml/mx			
	COC			0.83	% V/V	POST	A	12.45 ml/mx			
	NIS			0.25	% V/V	POST	A	3.75 ml/mx			
	AMS XTRA	3.4	SL	2.5	% V/V	POST	A	37.5 ml/mx			
3	COBRA	2	EC	12.0	OZ/A	POST	A	9.374 ml/mx	103	204	301
	RESOURCE	0.86	EC	6.0	OZ/A	POST	A	4.687 ml/mx			
	COC			0.83	% V/V	POST	A	12.45 ml/mx			
	NIS			0.25	% V/V	POST	A	3.75 ml/mx			
	AMS XTRA	3.4	SL	2.5	% V/V	POST	A	37.5 ml/mx			
4	COBRA	2	EC	12.0	OZ/A	POST	A	9.374 ml/mx	104	203	303
	COC			0.83	% V/V	POST	A	12.45 ml/mx			
	NIS			0.25	% V/V	POST	A	3.75 ml/mx			
	AMS XTRA	3.4	SL	2.5	% V/V	POST	A	37.5 ml/mx			

Sort Order: Replicate 1

Trial Comments

PALMER STAGE OF GROWTH (25 PLANTS): LOW = 7" TALL; HIGH = 16" TALL; AVERAGE = 10" TALL

SUMMARY:

1) AT 7 DAT, ALL TREATMENTS PROVIDED AT LEAST 90% CONTROL OF PALMER AMARANTH. RESOURCE DID NOT IMPROVE CONTROL WHEN TANK-MIXED WITH COBRA.

2) AT 27 DAT, CONTROL OF PALMER AMARANTH WAS **LESS THAN 69% WITH ALL TREATMENTS**. THERE WAS NO DIFFERENCE IN CONTROL BETWEEN COBRA AND COBRA + RESOURCE.

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Location: PONDER FARM Investigator: Eric P. Prostko

GENERAL TRIAL INFORMATION

Study Director: JEFF SMITH   **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.** _____   _____

Crop 1: _____ _____ **Variety:** _____ **Planting Date:** _____
Planting Method: _____ **Rate:** _____ _____ **Depth:** ____ __
Perennial Age: ____ _____ **Row Spacing:** ____ _____ **Seed Bed:** _____
Soil Temperature: ____ _ **Soil Moisture:** _____ **Emergence Date:** _____

Plot Width, Unit: 6   FT   **Plot Length, Unit:**   50   FT   **Reps:** 3
Site Type: _____
Tillage Type: CONVENTIONAL   **Study Design:** RACOBL
Trial Initiation Comments: _____
_____

Previous: Crops   **Pesticides**   **Year**
1. _____ _____ ____

MAINTENANCE

Field Prep./Maintenance: _____

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

SOIL DESCRIPTION

Texture: _____ **% OM:** ____ **% Sand:** ____ **% Silt:** ____ **% Clay:** ____
pH: ____ **CEC:** ____ **Soil Name:** _____ **Fertility Level:** _____

MOISTURE CONDITIONS

On: Date   Time Amount Unit Type   Interval Unit
1. _____ _____ ____ __ _____ ____ __

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

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APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	Jun-12-12					
Time of Day:	7:00 AM					
Application Method:	BROADCAST					
Application Timing:	POST					
Applic. Placement:	FOLIAGE					
Air Temp., Unit:	73 F					
% Relative Humidity:	92					
Wind Velocity, Unit:	0 MPH					
Dew Presence (Y/N):	Y					
Water Hardness:	--					
Soil Temp., Unit:	73 F					
Soil Moisture:	OPTIMUM					
% Cloud Cover:	20					

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 Stage:						
Stage Scale:						
Height, Unit:						

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Weed 1 Stage:	AMAPA SEE					
Stage Scale:	COMMENTS					
Density, Unit:						

APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	BACKPACK					
Operating Pressure:	40					
Nozzle Type:	FLAT FAN					
Nozzle Size:	11002DG					
Nozzle Spacing, Unit:	20 IN					
Nozzles/Row:						
Band Width, Unit:						
Boom Length, Unit:	60 IN					
Boom Height, Unit:	3.5 MPH					
Ground Speed, Unit:						
Incorporation Equip.:						
Hours to Incorp.:						
Incorp. Depth, Unit:						
Carrier:	WATER					
Spray Volume, Unit:	15 GPA					
Spray pH:						
Propellant:	CO_2					
Tank Mix (Y/N):						

Trt No   Treatment Application Comment

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	AMAPA	AMAPA	AMAPA
Weed Code	-----	-----	-----
Crop Code			
Part Rated			
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Rating Date	Jun-19-12	Jun-27-12	Jul-9-12
Crop Stage			
Crop Stage Scale			
Weed Stage			
Weed Density, Unit			
Footnote Number			
Trt-Eval Interval	7 DA-A	15 DA-A	27 DA-A
PRM Data Type			
# Subsamples, Dec.			

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code			
1	NTC							0.0 c	0.0 b	0.0 b
2	COBRA	2	EC	10.0	OZ/A	POST	A	94.3 ab	73.3 a	61.7 a
	RESOURCE	0.86	EC	4.0	OZ/A	POST	A			
	COC			0.83	% V/V	POST	A			
	NIS			0.25	% V/V	POST	A			
	AMS XTRA	3.4	SL	2.5	% V/V	POST	A			
3	COBRA	2	EC	12.0	OZ/A	POST	A	90.0 b	70.0 a	61.7 a
	RESOURCE	0.86	EC	6.0	OZ/A	POST	A			
	COC			0.83	% V/V	POST	A			
	NIS			0.25	% V/V	POST	A			
	AMS XTRA	3.4	SL	2.5	% V/V	POST	A			
4	COBRA	2	EC	12.0	OZ/A	POST	A	96.0 a	80.0 a	68.3 a
	COC			0.83	% V/V	POST	A			
	NIS			0.25	% V/V	POST	A			
	AMS XTRA	3.4	SL	2.5	% V/V	POST	A			

LSD (P=.10)	4.37	20.09	19.11
Standard Deviation	2.75	12.67	12.05
CV	3.93	22.68	25.14
Grand Mean	70.08	55.83	47.92
Bartlett's X2	1.744	0.243	0.473
P(Bartlett's X2)	0.418	0.885	0.79
Replicate F	2.846	1.727	3.718
Replicate Prob(F)	0.1351	0.2556	0.0891
Treatment F	866.121	26.234	21.297
Treatment Prob(F)	0.0001	0.0008	0.0013

Means followed by same letter 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.

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	AMAPA	AMAPA	AMAPA
Weed Code			
Crop Code	-----	-----	-----
Part Rated			
Rating Data Type	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT
Rating Date	Jun-19-12	Jun-27-12	Jul-9-12
Crop Stage			
Crop Stage Scale			
Weed Stage			
Weed Density, Unit			
Footnote Number			
Trt-Eval Interval	7 DA-A	15 DA-A	27 DA-A
PRM Data Type			
# Subsamples, Dec.			

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code	Plot			
1	NTC							101	0.0	0.0	0.0
								202	0.0	0.0	0.0
								302	0.0	0.0	0.0
							Mean =		0.0	0.0	0.0
2	COBRA	2	EC	10.0	OZ/A	POST	A	102	95.0	65.0	65.0
	RESOURCE	0.86	EC	4.0	OZ/A	POST	A	201	98.0	95.0	80.0
	COC			0.83	% V/V	POST	A	304	90.0	60.0	40.0
	NIS			0.25	% V/V	POST	A				
	AMS XTRA	3.4	SL	2.5	% V/V	POST	A				
							Mean =		94.3	73.3	61.7
3	COBRA	2	EC	12.0	OZ/A	POST	A	103	95.0	85.0	75.0
	RESOURCE	0.86	EC	6.0	OZ/A	POST	A	204	90.0	65.0	60.0
	COC			0.83	% V/V	POST	A	301	85.0	60.0	50.0
	NIS			0.25	% V/V	POST	A				
	AMS XTRA	3.4	SL	2.5	% V/V	POST	A				
							Mean =		90.0	70.0	61.7
4	COBRA	2	EC	12.0	OZ/A	POST	A	104	98.0	95.0	90.0
	COC			0.83	% V/V	POST	A	203	95.0	80.0	65.0
	NIS			0.25	% V/V	POST	A	303	95.0	65.0	50.0
	AMS XTRA	3.4	SL	2.5	% V/V	POST	A				
							Mean =		96.0	80.0	68.3