

# University of Georgia

Controlling glyphosate-resistant Palmer amaranth in LL cotton.

Trial ID: C22-06

Study Dir.: Stanley Culpepper

Location: Macon (Paved rd)

Investigator: Stanley Culpepper

Reps: 4

Plots: 12 by 25 feet

Spray vol: 14.8 gal/ac

Mix size: 2 liters (min 1.5434)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Form Rate	Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Plot No. By Rep			
										1	2	3	4
1	Non-treated									101	204	313	401
2	Prowl H20	3.8		L	2	PT/A	PRE	A	33.78 ml/mx	102	212	309	414
	Ignite	2.34		L	23	OZ/A	POST1	B	24.28 ml/mx				
	Direx	4		L	1	QT/A	layby	E	33.78 ml/mx				
	MSMA	6		L	2	LB A/A	layby	E	45.04 ml/mx				
	NIS			L	0.25	% V/V	layby	E	4.999 ml/mx				
3	Prowl H20	3.8		L	2	PT/A	PRE	A	33.78 ml/mx	103	201	307	404
	Ignite	2.34		L	29	OZ/A	POST1	B	30.62 ml/mx				
	Direx	4		L	1	QT/A	layby	E	33.78 ml/mx				
	MSMA	6		L	2	LB A/A	layby	E	45.04 ml/mx				
	NIS			L	0.25	% V/V	layby	E	4.999 ml/mx				
4	Prowl H20	3.8		L	2	PT/A	PRE	A	33.78 ml/mx	104	211	303	409
	Ignite	2.34		L	23	OZ/A	POST1	B	24.28 ml/mx				
	Ignite	2.8		L	23	OZ/A	POST3	D	24.28 ml/mx				
	Direx	4		L	1	QT/A	layby	E	33.78 ml/mx				
	MSMA	6		L	2	LB A/A	layby	E	45.04 ml/mx				
	NIS			L	0.25	% V/V	layby	E	4.999 ml/mx				
5	Prowl H20	3.8		L	2	PT/A	PRE	A	33.78 ml/mx	105	207	308	411
	Cotoran	4		L	1.25	QT/A	PRE	A	42.23 ml/mx				
	Ignite	2.34		L	23	OZ/A	POST1	B	24.28 ml/mx				
	Direx	4		L	1	QT/A	layby	E	33.78 ml/mx				
	MSMA	6		L	2	LB A/A	layby	E	45.04 ml/mx				
	NIS			L	0.25	% V/V	layby	E	4.999 ml/mx				
6	Prowl H20	3.8		L	2	PT/A	PRE	A	33.78 ml/mx	106	213	310	408
	Reflex	4		L	1	PT/A	PRE	A	16.89 ml/mx				
	Ignite	2.34		L	23	OZ/A	POST1	B	24.28 ml/mx				
	Direx	4		L	1	QT/A	layby	E	33.78 ml/mx				
	MSMA	6		L	2	LB A/A	layby	E	45.04 ml/mx				
	NIS			L	0.25	% V/V	layby	E	4.999 ml/mx				
7	Prowl H20	3.8		L	2	PT/A	PRE	A	33.78 ml/mx	107	210	314	413
	Direx	4		L	1.25	QT/A	PRE	A	42.23 ml/mx				
8	Prowl H20	3.8		L	2	PT/A	PRE	A	33.78 ml/mx	108	202	315	412
	Ignite	2.34		L	23	OZ/A	POST1	B	24.28 ml/mx				
	Staple	3.2		L	1.7	OZ/A	POST1	B	1.795 ml/mx				
	Direx	4		L	1	QT/A	layby	E	33.78 ml/mx				
	MSMA	6		L	2	LB A/A	layby	E	45.04 ml/mx				
	NIS			L	0.25	% V/V	layby	E	4.999 ml/mx				
9	Prowl H20	3.8		L	2	PT/A	PRE	A	33.78 ml/mx	109	208	302	410
	Ignite	2.34		L	23	OZ/A	POST1	B	24.28 ml/mx				
	Dual Magnum	7.62		L	1	PT/A	POST1	B	16.89 ml/mx				
	Direx	4		L	1	QT/A	layby	E	33.78 ml/mx				
	MSMA	6		L	2	LB A/A	layby	E	45.04 ml/mx				
	NIS			L	0.25	% V/V	layby	E	4.999 ml/mx				
10	Prowl H20	3.8		L	2	PT/A	PRE	A	33.78 ml/mx	110	206	311	415
	Reflex	4		L	1	PT/A	PRE	A	16.89 ml/mx				
	Ignite	2.34		L	23	OZ/A	POST1	B	24.28 ml/mx				
	Dual Magnum	7.62		L	1	PT/A	POST1	B	16.89 ml/mx				
	Direx	4		L	1	QT/A	layby	E	33.78 ml/mx				
	MSMA	6		L	2	LB A/A	layby	E	45.04 ml/mx				
	NIS			L	0.25	% V/V	layby	E	4.999 ml/mx				

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Reps: 4                      Plots: 12 by 25 feet  
 Spray vol: 14.8 gal/ac                      Mix size: 2 liters (min 1.5434)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Grow Unit	Appl Stg	Appl Code	Amt Product to Measure	Plot No. By Rep			
										1	2	3	4
11	Prowl H20	3.8	L		2	PT/A	PRE	A	33.78 ml/mx	111	215	312	403
	Reflex	4	L		1	PT/A	PRE	A	16.89 ml/mx				
	Ignite	2.34	L		23	OZ/A	POST1	B	24.28 ml/mx				
	Staple	3.2	L		1.7	OZ/A	POST1	B	1.795 ml/mx				
	Direx	4	L		1	QT/A	layby	E	33.78 ml/mx				
	MSMA	6	L		2	LB A/A	layby	E	45.04 ml/mx				
	NIS		L		0.25	% V/V	layby	E	4.999 ml/mx				
12	Prowl H20	3.8	L		2	PT/A	PRE	A	33.78 ml/mx	112	205	304	405
	Cotoran	4	L		1.25	QT/A	PRE	A	42.23 ml/mx				
	Ignite	2.34	L		23	OZ/A	POST1	B	24.28 ml/mx				
	Dual Magnum	7.62	L		1	PT/A	POST1	B	16.89 ml/mx				
	Direx	4	L		1	QT/A	layby	E	33.78 ml/mx				
	MSMA	6	L		2	LB A/A	layby	E	45.04 ml/mx				
	NIS		L		0.25	% V/V	layby	E	4.999 ml/mx				
13	Prowl H20	3.8	L		2	PT/A	PRE	A	33.78 ml/mx	113	214	301	402
	Cotoran	4	L		1.25	QT/A	PRE	A	42.23 ml/mx				
	Ignite	2.34	L		23	OZ/A	POST1	B	24.28 ml/mx				
	Staple	3.2	L		1.7	OZ/A	POST1	B	1.795 ml/mx				
	Direx	4	L		1	QT/A	layby	E	33.78 ml/mx				
	MSMA	6	L		2	LB A/A	layby	E	45.04 ml/mx				
	NIS		L		0.25	% V/V	layby	E	4.999 ml/mx				
14	Ignite	2.34	L		29	OZ/A	POST1	B	30.62 ml/mx	114	209	305	406
	Ignite	2.34	L		29	OZ/A	POST3	D	30.62 ml/mx				
	Direx	4	L		1	QT/A	layby	E	33.78 ml/mx				
	MSMA	6	L		2	LB A/A	layby	E	45.04 ml/mx				
	NIS		L		0.25	% V/V	layby	E	4.999 ml/mx				
15	Ignite	2.34	L		29	OZ/A	POST2	C	30.62 ml/mx	115	203	306	407
	Ignite	2.34	L		29	OZ/A	POST3	D	30.62 ml/mx				
	Direx	4	L		1	QT/A	layby	E	33.78 ml/mx				
	MSMA	6	L		2	LB A/A	layby	E	45.04 ml/mx				
	NIS		L		0.25	% V/V	layby	E	4.999 ml/mx				

Sort Order: Treatment

Product quantities required for listed treatments and applications in one trial:

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
506.703	ml	Prowl H20	3.8	L	
494.881	ml	Ignite	2.34	L	
601.710	ml	Direx	4	L	
731.905	ml	MSMA	6	L	
81.241	ml	NIS		L	
30.353	ml	Ignite	2.8	L	
158.345	ml	Cotoran	4	L	
63.338	ml	Reflex	4	L	
6.730	ml	Staple	3.2	L	
63.338	ml	Dual Magnum	7.62	L	

\* 'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 2 liters (mix size basis).  
 \* Product amount calculations increased 25 % for overage adjustment.  
 \* 'Per volume' calculations use spray volume= 14.8 gal/ac, mix size= 2 liters.

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## Controlling glyphosate-resistant Palmer amaranth in LL cotton.

Trial ID: C22-06

Study Dir.: Stanley Culpepper

Location: Macon (Paved rd)

Investigator: Stanley Culpepper

### Trial Comments

**OBJECTIVE:** Evaluate glyphosate-resistant Palmer amaranth response to Liberty Link weed management systems.

#### CROP RESPONSE:

1. Soil applied herbicides caused less than 10% stunting.
2. Ignite did not injure cotton.
3. Applying Ignite plus Dual speckled cotton. Injury when following PRE's ranged from 10 to 15%.
4. Applying Ignite plus Staple caused leaf chlorosis. Injury when following PRE's at 3 d after treatment ranged from 16 to 22%.
5. By 10 d after POST1, injury was less than 5% except where Ignite plus Staple was applied (11 to 14%).
6. By 21 d after POST1, no injury was detected.

#### PALMER RESPONSE:

##### Mid-season:

1. Control was at least 87% control with all systems containing a soil applied herbicide followed by an Ignite application as long as the Ignite application was made to Palmer 2.5 inches in height.
2. Control tended to be greater when using 29 oz of Ignite as compared to 23 oz.
3. Control was often better when soil applied herbicides contained Reflex or Cotoran.
4. Staple did not improve control of Palmer which may be in response to possible ALS resistance at this site.

##### Late season:

1. Less than 80% control was noted with the system of Prowl PRE, Ignite alone or Ignite plus Staple POST, and the layby as well as the system with sequential Ignite POST applications followed by the layby.
2. Eighty eight to 89% control was noted with the system of Prowl PRE, sequential Ignite POST applications, and the layby as well as the system of Prowl PRE, Ignite plus Dual POST, and the layby.
3. Acceptable control (>95%) at harvest was noted with only systems containing Cotoran or Reflex plus Prowl PRE.

#### YIELD:

1. Cotton was hand picked to eliminate the potential for spread of this resistant pest through equipment transfer.
2. All cotton was harvested, plots with less than 90% control of Palmer would not have been machine harvested.
3. Yields from all systems containing Cotoran or Reflex PRE as well as the two additional systems of Prowl PRE, Ignite Sequentially POST, and the layby as well as Prowl PRE, Ignite plus Dual POST, and the layby all provided similar seed yields. Other treatments were less effective because of competition throughout the season.

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Controlling glyphosate-resistant Palmer amaranth in LL cotton.

Trial ID: C22-06

Study Dir.: Stanley Culpepper

Location: Macon (Paved rd)

Investigator: Stanley Culpepper

Weed Code		GOSHI	GOSHI	AMAPA	AMAPA	AMAPA	AMAPA	AMAPA	Seed Yld
Crop Code		injury	injury	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI
Rating Data Type		%	%	control	control	control	control	control	20ft/plot
Rating Unit				%	%	%	%	%	wt/lb
Rating Date		Jun-01-06	Jun-08-06	Jun-01-06	Jun-08-06	Jun-29-06	Jul-26-06	Sep-12-06	Oct-16-06
Assessed By		AD	SC	AD	SC	SC	SC	SC	SC
Trt-Eval Interval		31 DA-A	38 DA-A	31 DA-A	38 DA-A	59 DA-A	86 DA-A	134 DA-A	168 DA-A
ARM Action Codes									
# Subsamples, Dec.									
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate
		Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit
1	Non-treated								
		0 f	0 b	0 f	0 f	0 d	0 e	0 c	0 d
2	Prowl H20	2 PT/A							
	Ignite	23 OZ/A	6 de	3 b	89 cd	88 cd	93 a	90 bc	77 b
	Direx	1 QT/A							
	MSMA	2 LB A/A							
	NIS	0.25 % V/V							
3	Prowl H20	2 PT/A							
	Ignite	29 OZ/A	5 def	0 b	91 a-d	94 abc	92 ab	91 abc	75 b
	Direx	1 QT/A							
	MSMA	2 LB A/A							
	NIS	0.25 % V/V							
4	Prowl H20	2 PT/A							
	Ignite	23 OZ/A	4 ef	3 b	89 cd	91 bc	95 a	98 ab	89 a
	Ignite	23 OZ/A							
	Direx	1 QT/A							
	MSMA	2 LB A/A							
	NIS	0.25 % V/V							
5	Prowl H20	2 PT/A							
	Cotoran	1.25 QT/A	10 cd	3 b	95 abc	96 ab	99 a	98 ab	99 a
	Ignite	23 OZ/A							
	Direx	1 QT/A							
	MSMA	2 LB A/A							
	NIS	0.25 % V/V							
6	Prowl H20	2 PT/A							
	Reflex	1 PT/A	8 de	3 b	95 abc	99 a	97 a	98 ab	95 a
	Ignite	23 OZ/A							
	Direx	1 QT/A							
	MSMA	2 LB A/A							
	NIS	0.25 % V/V							
7	Prowl H20	2 PT/A							
	Direx	1.25 QT/A	6 de	0 b	71 e	68 e	65 c	34 d	0 c
8	Prowl H20	2 PT/A							
	Ignite	23 OZ/A	21 a	13 a	87 d	89 cd	90 ab	90 abc	76 b
	Staple	1.7 OZ/A							
	Direx	1 QT/A							
	MSMA	2 LB A/A							
	NIS	0.25 % V/V							
9	Prowl H20	2 PT/A							
	Ignite	23 OZ/A	10 cd	1 b	90 bcd	89 cd	95 a	95 abc	88 a
	Dual Magnum	1 PT/A							
	Direx	1 QT/A							
	MSMA	2 LB A/A							
	NIS	0.25 % V/V							

# University of Georgia

Weed Code			AMAPA	AMAPA	AMAPA	AMAPA	AMAPA	Seed Yld			
Crop Code		GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI			
Rating Data Type		injury	injury	control	control	control	control	20ft/plot			
Rating Unit		%	%	%	%	%	%	wt/lb			
Rating Date		Jun-01-06	Jun-08-06	Jun-01-06	Jun-08-06	Jun-29-06	Jul-26-06	Sep-12-06			
Assessed By		AD	SC	AD	SC	SC	SC	SC			
Trt-Eval Interval		31 DA-A	38 DA-A	31 DA-A	38 DA-A	59 DA-A	86 DA-A	134 DA-A			
ARM Action Codes								168 DA-A			
# Subsamples, Dec.											
Trt No.	Treatment Name	Rate	Rate Unit	1	2	3	4	5	6	7	8
10	Prowl H20	2	PT/A	15 bc	5 b	96 ab	99 a	97 a	98 ab	98 a	2 a
	Reflex	1	PT/A								
	Ignite	23	OZ/A								
	Dual Magnum	1	PT/A								
	Direx	1	QT/A								
	MSMA	2	LB A/A								
	NIS	0.25	% V/V								
11	Prowl H20	2	PT/A	16 ab	14 a	97 a	99 a	99 a	99 a	98 a	2 a
	Reflex	1	PT/A								
	Ignite	23	OZ/A								
	Staple	1.7	OZ/A								
	Direx	1	QT/A								
	MSMA	2	LB A/A								
	NIS	0.25	% V/V								
12	Prowl H20	2	PT/A	10 cd	4 b	95 abc	98 a	96 a	95 abc	94 a	2 a
	Cotoran	1.25	QT/A								
	Ignite	23	OZ/A								
	Dual Magnum	1	PT/A								
	Direx	1	QT/A								
	MSMA	2	LB A/A								
	NIS	0.25	% V/V								
13	Prowl H20	2	PT/A	16 ab	12 a	96 ab	98 a	99 a	99 a	98 a	2 a
	Cotoran	1.25	QT/A								
	Ignite	23	OZ/A								
	Staple	1.7	OZ/A								
	Direx	1	QT/A								
	MSMA	2	LB A/A								
	NIS	0.25	% V/V								
14	Ignite	29	OZ/A	0 f	0 b	89 cd	89 cd	83 b	87 c	74 b	1 c
	Ignite	29	OZ/A								
	Direx	1	QT/A								
	MSMA	2	LB A/A								
	NIS	0.25	% V/V								
15	Ignite	29	OZ/A	0 f	0 b	0 f	83 d	61 c	40 d	0 c	0 d
	Ignite	29	OZ/A								
	Direx	1	QT/A								
	MSMA	2	LB A/A								
	NIS	0.25	% V/V								
LSD (P=.05)				5.1	4.8	6.0	6.1	8.7	7.8	9.5	0.4
Standard Deviation				3.6	3.3	4.2	4.2	6.1	5.4	6.6	0.3
CV				42.28	84.89	5.36	4.97	7.22	6.74	9.38	20.84
Bartlett's X2				6.013	3.406	43.283	44.496	21.036	22.751	51.448	32.398
P(Bartlett's X2)				0.814	0.946	0.001*	0.001*	0.021*	0.019*	0.001*	0.001*

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

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Weed Code		Seed Yld	
Crop Code		GOSHI	
Rating Data Type		YIELD	
Rating Unit		LB/A	
Rating Date		Oct-16-06	
Assessed By		SC	
Trt-Eval Interval		168 DA-A	
ARM Action Codes		TY1	
# Subsamples, Dec.		1	
Trt No.	Treatment Name	Rate	Rate Unit
			9
1	Non-treated		0.0 d
2	Prowl H20	2 PT/A	903.9 bc
	Ignite	23 OZ/A	
	Direx	1 QT/A	
	MSMA	2 LB A/A	
	NIS	0.25 % V/V	
3	Prowl H20	2 PT/A	912.9 bc
	Ignite	29 OZ/A	
	Direx	1 QT/A	
	MSMA	2 LB A/A	
	NIS	0.25 % V/V	
4	Prowl H20	2 PT/A	1256.0 a
	Ignite	23 OZ/A	
	Ignite	23 OZ/A	
	Direx	1 QT/A	
	MSMA	2 LB A/A	
	NIS	0.25 % V/V	
5	Prowl H20	2 PT/A	1230.6 a
	Cotoran	1.25 QT/A	
	Ignite	23 OZ/A	
	Direx	1 QT/A	
	MSMA	2 LB A/A	
	NIS	0.25 % V/V	
6	Prowl H20	2 PT/A	1196.1 ab
	Reflex	1 PT/A	
	Ignite	23 OZ/A	
	Direx	1 QT/A	
	MSMA	2 LB A/A	
	NIS	0.25 % V/V	
7	Prowl H20	2 PT/A	94.4 d
	Direx	1.25 QT/A	
8	Prowl H20	2 PT/A	914.8 bc
	Ignite	23 OZ/A	
	Staple	1.7 OZ/A	
	Direx	1 QT/A	
	MSMA	2 LB A/A	
	NIS	0.25 % V/V	
9	Prowl H20	2 PT/A	1283.2 a
	Ignite	23 OZ/A	
	Dual Magnum	1 PT/A	
	Direx	1 QT/A	
	MSMA	2 LB A/A	
	NIS	0.25 % V/V	

# University of Georgia

Weed Code		Seed Yld	
Crop Code		GOSHI	
Rating Data Type		YIELD	
Rating Unit		LB/A	
Rating Date		Oct-16-06	
Assessed By		SC	
Trt-Eval Interval		168 DA-A	
ARM Action Codes		TY1	
# Subsamples, Dec.		1	
Trt No.	Treatment Name	Rate	Unit
			9
10	Prowl H20	2 PT/A	1268.7 a
	Reflex	1 PT/A	
	Ignite	23 OZ/A	
	Dual Magnum	1 PT/A	
	Direx	1 QT/A	
	MSMA	2 LB A/A	
	NIS	0.25 % V/V	
11	Prowl H20	2 PT/A	1266.9 a
	Reflex	1 PT/A	
	Ignite	23 OZ/A	
	Staple	1.7 OZ/A	
	Direx	1 QT/A	
	MSMA	2 LB A/A	
	NIS	0.25 % V/V	
12	Prowl H20	2 PT/A	1303.2 a
	Cotoran	1.25 QT/A	
	Ignite	23 OZ/A	
	Dual Magnum	1 PT/A	
	Direx	1 QT/A	
	MSMA	2 LB A/A	
	NIS	0.25 % V/V	
13	Prowl H20	2 PT/A	1314.1 a
	Cotoran	1.25 QT/A	
	Ignite	23 OZ/A	
	Staple	1.7 OZ/A	
	Direx	1 QT/A	
	MSMA	2 LB A/A	
	NIS	0.25 % V/V	
14	Ignite	29 OZ/A	680.6 c
	Ignite	29 OZ/A	
	Direx	1 QT/A	
	MSMA	2 LB A/A	
	NIS	0.25 % V/V	
15	Ignite	29 OZ/A	0.0 d
	Ignite	29 OZ/A	
	Direx	1 QT/A	
	MSMA	2 LB A/A	
	NIS	0.25 % V/V	
LSD (P=.05)			270.58
Standard Deviation			189.34
CV			20.84
Bartlett's X2			32.398
P(Bartlett's X2)			0.001*

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)

Column 9: TY1 = 726.0\*[8]



# University of Georgia

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

**SOIL DESCRIPTION**

% Sand: 82      % OM: 2      Texture: loamy sand  
 % Silt: 14      pH: 6.3      Soil Name: \_\_\_\_\_  
 % Clay: 4      CEC: \_\_\_\_\_      Fert. Level: \_\_\_\_\_

**ADDITIONAL MEASURED ELEMENTS**

Element	Quantity	Unit

**MOISTURE CONDITIONS**

No.	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions: dry

Closest Weather Station: \_\_\_\_\_ Distance: \_\_\_\_\_ Unit: \_\_\_\_

**APPLICATION DESCRIPTION**

	A	B	C	D	E
Application Date:	May-01-06	May-28-06	Jun-01-06	Jun-29-06	Jul-13-06
Time of Day:	6 pm	9 am	10 am	5 pm	2 pm
Application Method:	broadcast	broadcast	broadcast	broadcast	broadcast
Application Timing:	PRE	POST1	POST2	POST3	layby
Applic. Placement:	on soil	overtop	overtop	overtop	directed
Air Temp., Unit:	77 F	88 F	86 F	96 F	95 F
% Relative Humidity:	35	50	48	42	45
Wind Velocity, Unit:	3 mph	2 mph	3 mph	3 mph	4.5 mph
Dew Presence (Y/N):	n	n	n	n	n
Water Hardness:					
Soil Temp., Unit:	79 F	94 F	89 F	112 F	122 F
Soil Moisture:	moist	fair	fair	fair	dry
% Cloud Cover:	0	5	35	0	0

**CROP STAGE AT EACH APPLICATION**

	A	B	C	D	E
Crop 1 Code, Stage:	GOSHI PRE	GOSHI POST1	GOSHI POST2	GOSHI POST3	GOSHI layby
Stage Scale:	PRE	3.5 lf	4.5 lf	11 leaf	14 leaf
Height, Unit:	0 inch	4 inch	5 inch	9 inch	13 inch

**WEED STAGE AT EACH APPLICATION**

	A	B	C	D	E
Weed 1 Code, Stage:	AMAPA PRE	AMAPA POST1	AMAPA POST2	AMAPA POST3	AMAPA layby
Stage Scale:	not up	2.5 inch	5 inch	up to 10"	up to 20"
Density, Unit:	0 ydsq	40 ydsq	40 ydsq	.	.

# University of Georgia

## APPLICATION EQUIPMENT

	A	B	C	D	E
<b>Appl. Equipment:</b>	backpack	backpack	backpack	backpack	backpack
<b>Operating Pressure:</b>	24	24	24	24	18
<b>Nozzle Type:</b>	flat fan	flat fan	flat fan	flat fan	flat fan
<b>Nozzle Size:</b>	11002	11002	11002	11002	11002
<b>Nozzle Spacing, Unit:</b>	18 inch	18 inch	18 inch	18 inch	12 inch
<b>Nozzles/Row:</b>	2	2	2	2	3
<b>Band Width, Unit:</b>					
<b>Boom Length, Unit:</b>	4.5 feet	4.5 feet	4.5 feet	4.5 feet	2 feet
<b>Boom Height, Unit:</b>	15 inch	15 inch	15 inch	15 inch	12 inch
<b>Ground Speed, Unit:</b>	3 mph	3 mph	3 mph	3 mph	3 mph
<b>Incorporation Equip.:</b>					
<b>Hours to Incorp.:</b>					
<b>Incorp. Depth, Unit:</b>					
<b>Carrier:</b>	water	water	water	water	water
<b>Spray Volume, Unit:</b>	14.8 GPA	14.8 GPA	14.8 GPA	14.8 GPA	14.8 GPA
<b>Spray pH:</b>					
<b>Propellant:</b>	CO2	CO2	CO2	CO2	CO2
<b>Tank Mix (Y/N):</b>	Y	Y	Y	Y	Y

Trt No	Treatment Application Comment