

University of Georgia

Controlling glyphosate-resistant Palmer amaranth in conventional and strip tillage cotton.

Trial ID: C34-06

Study Dir.: Kichler, Culpepper

Location: Macon (house field)

Investigator: Stanley Culpepper

Reps: 4

Plots: 12 by 45 feet

Spray vol: 14.8 gal/ac

Mix size: 3 liters (min 2.778)

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	Strip Till (Wheat Cover) No in crop herbicide							A		101	204	310	413
2	Conventional Strip Till (Wheat Cover)	3.8		L	2.5	PT/A	PRE	A	63.34 ml/mx	102	207	314	411
	Roundup WeatherMax	4.5		L	22	OZ/A	3-5 leaf	B	34.84 ml/mx				
	Dual Magnum	7.62		L	16	OZ/A	3-5 leaf	B	25.34 ml/mx				
	Direx	4		L	32	OZ/A	layby	C	50.68 ml/mx				
	MSMA	6		L	2	LB A/A	layby	C	67.56 ml/mx				
	NIS			L	0.25	% V/V	layby	C	7.499 ml/mx				
3	Strip Till (Wheat Cover) Prowl H20	3.8		L	2.5	PT/A	PRE	A	63.34 ml/mx	103	202	313	410
	Reflex	2	2	L	16	OZ/A	PRE	A	25.34 ml/mx				
	Roundup WeatherMax	4.5		L	22	OZ/A	3-5 leaf	B	34.84 ml/mx				
	Dual Magnum	7.62		L	16	OZ/A	3-5 leaf	B	25.34 ml/mx				
	Direx	4		L	32	OZ/A	layby	C	50.68 ml/mx				
	MSMA	6		L	2	LB A/A	layby	C	67.56 ml/mx				
	NIS			L	0.25	% V/V	layby	C	7.499 ml/mx				
4	Strip Till (Wheat Cover) Prowl H20	3.8		L	2.5	PT/A	PRE	A	63.34 ml/mx	104	203	315	412
	Cotoran	4	2	L	40	OZ/A	PRE	A	63.34 ml/mx				
	Roundup WeatherMax	4.5		L	22	OZ/A	3-5 leaf	B	34.84 ml/mx				
	Dual Magnum	7.62		L	16	OZ/A	3-5 leaf	B	25.34 ml/mx				
	Direx	4		L	32	OZ/A	layby	C	50.68 ml/mx				
	MSMA	6		L	2	LB A/A	layby	C	67.56 ml/mx				
	NIS			L	0.25	% V/V	layby	C	7.499 ml/mx				
5	Strip Till (Wheat Cover) Prowl H20	3.8		L	2.5	PT/A	PRE	A	63.34 ml/mx	105	208	309	416
	Staple	3.2	2	L	1.7	OZ/A	PRE	A	2.692 ml/mx				
	Roundup WeatherMax	4.5		L	22	OZ/A	3-5 leaf	B	34.84 ml/mx				
	Dual Magnum	7.62		L	16	OZ/A	3-5 leaf	B	25.34 ml/mx				
	Direx	4		L	32	OZ/A	layby	C	50.68 ml/mx				
	MSMA	6		L	2	LB A/A	layby	C	67.56 ml/mx				
	NIS			L	0.25	% V/V	layby	C	7.499 ml/mx				
6	Strip Till (Wheat Cover) Prowl H20	3.8		L	2.5	PT/A	PRE	A	63.34 ml/mx	106	206	316	415
	Roundup WeatherMax	4.5		L	22	OZ/A	3-5 leaf	B	34.84 ml/mx				
	Staple	3.2		L	1.7	OZ/A	3-5 leaf	B	2.692 ml/mx				
	Direx	4		L	32	OZ/A	layby	C	50.68 ml/mx				
	MSMA	6		L	2	LB A/A	layby	C	67.56 ml/mx				
	NIS			L	0.25	% V/V	layby	C	7.499 ml/mx				
7	Strip Till (Wheat Cover) Prowl H20	3.8		L	2.5	PT/A	PRE	A	63.34 ml/mx	107	205	311	414
	Reflex	2	2	L	16	OZ/A	PRE	A	25.34 ml/mx				
	Roundup WeatherMax	4.5		L	22	OZ/A	3-5 leaf	B	34.84 ml/mx				
	Staple	3.2		L	1.7	OZ/A	3-5 leaf	B	2.692 ml/mx				
	Direx	4		L	32	OZ/A	layby	C	50.68 ml/mx				
	MSMA	6		L	2	LB A/A	layby	C	67.56 ml/mx				
	NIS			L	0.25	% V/V	layby	C	7.499 ml/mx				

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Reps: 4

Plots: 12 by 45 feet

Spray vol: 14.8 gal/ac

Mix size: 3 liters (min 2.778)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code	Amt to Measure	Product	Plot No. By Rep			
											1	2	3	4
8	Strip Till (Wheat Cover)										108	201	312	409
	Prowl H20	3.8		L	2.5	PT/A	PRE	A	63.34	ml/mx				
	Cotoran	4	2	L	40	OZ/A	PRE	A	63.34	ml/mx				
	Roundup WeatherMax	4.5		L	22	OZ/A	3-5 leaf	B	34.84	ml/mx				
	Staple	3.2		L	1.7	OZ/A	3-5 leaf	B	2.692	ml/mx				
	Direx	4		L	32	OZ/A	layby	C	50.68	ml/mx				
	MSMA	6		L	2	LB A/A	layby	C	67.56	ml/mx				
	NIS			L	0.25	% V/V	layby	C	7.499	ml/mx				
9	Conventional										109	209	302	405
	No in crop herbicide							A						
10	Strip Till (Wheat Cover)										110	213	301	403
	Prowl H20	3.8		L	2.5	PT/A	PRE	A	63.34	ml/mx				
	Roundup WeatherMax	4.5		L	22	OZ/A	3-5 leaf	B	34.84	ml/mx				
	Dual Magnum	7.62		L	16	OZ/A	3-5 leaf	B	25.34	ml/mx				
	Direx	4		L	32	OZ/A	layby	C	50.68	ml/mx				
	MSMA	6		L	2	LB A/A	layby	C	67.56	ml/mx				
	NIS			L	0.25	% V/V	layby	C	7.499	ml/mx				
11	Conventional										111	215	303	408
	Prowl H20	3.8		L	2.5	PT/A	PRE	A	63.34	ml/mx				
	Reflex	2	2	L	16	OZ/A	PRE	A	25.34	ml/mx				
	Roundup WeatherMax	4.5		L	22	OZ/A	3-5 leaf	B	34.84	ml/mx				
	Dual Magnum	7.62		L	16	OZ/A	3-5 leaf	B	25.34	ml/mx				
	Direx	4		L	32	OZ/A	layby	C	50.68	ml/mx				
	MSMA	6		L	2	LB A/A	layby	C	67.56	ml/mx				
	NIS			L	0.25	% V/V	layby	C	7.499	ml/mx				
12	Conventional										112	216	307	407
	Prowl H20	3.8		L	2.5	PT/A	PRE	A	63.34	ml/mx				
	Cotoran	4	2	L	40	OZ/A	PRE	A	63.34	ml/mx				
	Roundup WeatherMax	4.5		L	22	OZ/A	3-5 leaf	B	34.84	ml/mx				
	Dual Magnum	7.62		L	16	OZ/A	3-5 leaf	B	25.34	ml/mx				
	Direx	4		L	32	OZ/A	layby	C	50.68	ml/mx				
	MSMA	6		L	2	LB A/A	layby	C	67.56	ml/mx				
	NIS			L	0.25	% V/V	layby	C	7.499	ml/mx				
13	Conventional										113	211	305	401
	Prowl H20	3.8		L	2.5	PT/A	PRE	A	63.34	ml/mx				
	Staple	3.2	2	L	1.7	OZ/A	PRE	A	2.692	ml/mx				
	Roundup WeatherMax	4.5		L	22	OZ/A	3-5 leaf	B	34.84	ml/mx				
	Dual Magnum	7.62		L	16	OZ/A	3-5 leaf	B	25.34	ml/mx				
	Direx	4		L	32	OZ/A	layby	C	50.68	ml/mx				
	MSMA	6		L	2	LB A/A	layby	C	67.56	ml/mx				
	NIS			L	0.25	% V/V	layby	C	7.499	ml/mx				
14	Conventional										114	212	308	404
	Prowl H20	3.8		L	2.5	PT/A	PRE	A	63.34	ml/mx				
	Roundup WeatherMax	4.5		L	22	OZ/A	3-5 leaf	B	34.84	ml/mx				
	Staple	3.2		L	1.7	OZ/A	3-5 leaf	B	2.692	ml/mx				
	Direx	4		L	32	OZ/A	layby	C	50.68	ml/mx				
	MSMA	6		L	2	LB A/A	layby	C	67.56	ml/mx				
	NIS			L	0.25	% V/V	layby	C	7.499	ml/mx				
15	Conventional										115	210	304	402
	Prowl H20	3.8		L	2.5	PT/A	PRE	A	63.34	ml/mx				
	Reflex	2	2	L	16	OZ/A	PRE	A	25.34	ml/mx				
	Roundup WeatherMax	4.5		L	22	OZ/A	3-5 leaf	B	34.84	ml/mx				
	Staple	3.2		L	1.7	OZ/A	3-5 leaf	B	2.692	ml/mx				
	Direx	4		L	32	OZ/A	layby	C	50.68	ml/mx				
	MSMA	6		L	2	LB A/A	layby	C	67.56	ml/mx				
	NIS			L	0.25	% V/V	layby	C	7.499	ml/mx				

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Reps: 4 Plots: 12 by 45 feet
 Spray vol: 14.8 gal/ac Mix size: 3 liters (min 2.778)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Plot No. By Rep			
										1	2	3	4
16	Conventional									116	214	306	406
	Prowl H20	3.8	L		2.5	PT/A	PRE	A	63.34 ml/mx				
	Cotoran	4	2	L	40	OZ/A	PRE	A	63.34 ml/mx				
	Roundup WeatherMax	4.5		L	22	OZ/A	3-5 leaf	B	34.84 ml/mx				
	Staple	3.2		L	1.7	OZ/A	3-5 leaf	B	2.692 ml/mx				
	Direx	4		L	32	OZ/A	layby	C	50.68 ml/mx				
	MSMA	6		L	2	LB A/A	layby	C	67.56 ml/mx				
	NIS			L	0.25	% V/V	layby	C	7.499 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
79.172	ml	Strip Till (Wheat Cover)	3.8	L	
609.693	ml	Roundup WeatherMax	4.5	L	
253.379	ml	Dual Magnum	7.62	L	
886.826	ml	Direx	4	L	
1,182.308	ml	MSMA	6	L	
131.236	ml	NIS		L	
1,029.241	ml	Prowl H20	3.8	L	
126.689	ml	Reflex	2	L	L
316.724	ml	Cotoran	4	L	L
6.730	ml	Staple	3.2	L	L
20.191	ml	Staple	3.2	L	

- * 'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 3 liters (mix size basis).
- * Product amount calculations increased 25 % for overage adjustment.
- * 'Per volume' calculations use spray volume= 14.8 gal/ac, mix size= 3 liters.

Trial Comments

OBJECTIVE: Determine the effect of tillage on the control of Palmer amaranth by herbicide systems.

VISUAL COTTON INJURY:

1. Injury from early POST herbicide options was generally greater in strip till cotton likely from cooler soils making the crop more sensitive to stunting.
2. Roundup + Dual (necrosis) injured cotton 8 to 11% in strip till cotton and 4 to 8% in conventional cotton.
3. Roundup + Staple (chlorosis) injured cotton 10 to 15% in strip till cotton and 6 to 9% in conventional cotton.
4. Cotton recovered very quickly from all injury.

PALMER AMARANTH CONTROL:

1. The cover crop was wheat; however, the wheat had been grazed thus very little cover was present at planting.
2. Cover crop had no impact on weed control.
3. The most effective systems late in the season were Prowl + Reflex fb Roundup + Dual or Roundup + Staple fb Direx plus MSMA at layby.

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Trial ID: C34-06

Study Dir.: Kichler, Culpepper

Location: Macon (house field)

Investigator: Stanley Culpepper

Weed Code		GOSHI	GOSHI	AMAPA	AMAPA	AMAPA	AMAPA	AMAPA
Crop Code		injury	injury	control	control	control	control	control
Rating Data Type		%	%	%	%	%	%	%
Rating Unit								
Rating Date		Jun-01-06	Jun-09-06	Jun-01-06	Jun-09-06	Jun-20-06	Jun-29-06	Jul-09-06
Assessed By		SC	SC	SC	SC	SC	SC	SC
Trt-Eval Interval		4 DA-B	12 DA-B	4 DA-B	12 DA-B	0 DA-C	9 DA-C	19 DA-C
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate
		Unit	Unit	Unit	Unit	Unit	Unit	Unit
1	Strip Till (Wheat Cover) No in crop herbicide							
		0 c	0 a	0 f	0 e	0 g	0 e	0 g
2	Conventional Strip Till (Wheat Cover) Roundup WeatherMax Dual Magnum Direx MSMA NIS	2.5 PT/A 22 OZ/A 16 OZ/A 32 OZ/A 2 LB A/A 0.25 % V/V	0 a	68 d	67 c	52 e	56 d	54 f
3	Strip Till (Wheat Cover) Prowl H20 Reflex Roundup WeatherMax Dual Magnum Direx MSMA NIS	2.5 PT/A 16 OZ/A 22 OZ/A 16 OZ/A 32 OZ/A 2 LB A/A 0.25 % V/V	0 a	88 abc	90 a	79 abc	83 abc	88 a-d
4	Strip Till (Wheat Cover) Prowl H20 Cotoran Roundup WeatherMax Dual Magnum Direx MSMA NIS	2.5 PT/A 40 OZ/A 22 OZ/A 16 OZ/A 32 OZ/A 2 LB A/A 0.25 % V/V	0 a	78 bcd	73 bc	59 de	57 d	54 f
5	Strip Till (Wheat Cover) Prowl H20 Staple Roundup WeatherMax Dual Magnum Direx MSMA NIS	2.5 PT/A 1.7 OZ/A 22 OZ/A 16 OZ/A 32 OZ/A 2 LB A/A 0.25 % V/V	0 a	90 ab	87 ab	75 a-d	86 ab	80 cd
6	Strip Till (Wheat Cover) Prowl H20 Roundup WeatherMax Staple Direx MSMA NIS	2.5 PT/A 22 OZ/A 1.7 OZ/A 32 OZ/A 2 LB A/A 0.25 % V/V	0 a	75 cd	90 a	82 ab	85 ab	82 bcd

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Weed Code			AMAPA	AMAPA	AMAPA	AMAPA	AMAPA		
Crop Code		GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI		
Rating Data Type		injury	injury	control	control	control	control		
Rating Unit		%	%	%	%	%	%		
Rating Date		Jun-01-06	Jun-09-06	Jun-01-06	Jun-09-06	Jun-20-06	Jun-29-06	Jul-09-06	
Assessed By		SC	SC	SC	SC	SC	SC	SC	
Trt-Eval Interval		4 DA-B	12 DA-B	4 DA-B	12 DA-B	0 DA-C	9 DA-C	19 DA-C	
Trt No.	Treatment Name	Rate							
		Rate Unit	1	2	3	4	5	6	7
7	Strip Till (Wheat Cover)		11 ab	0 a	92 ab	97 a	87 ab	93 ab	94 ab
	Prowl H20	2.5 PT/A							
	Reflex	16 OZ/A							
	Roundup WeatherMax	22 OZ/A							
	Staple	1.7 OZ/A							
	Direx	32 OZ/A							
	MSMA	2 LB A/A							
	NIS	0.25 % V/V							
8	Strip Till (Wheat Cover)		10 ab	0 a	75 cd	84 ab	71 bcd	79 abc	81 cd
	Prowl H20	2.5 PT/A							
	Cotoran	40 OZ/A							
	Roundup WeatherMax	22 OZ/A							
	Staple	1.7 OZ/A							
	Direx	32 OZ/A							
	MSMA	2 LB A/A							
	NIS	0.25 % V/V							
9	Conventional No in crop herbicide		0 c	0 a	0 f	0 e	0 g	0 e	0 g
10	Strip Till (Wheat Cover)		4 bc	0 a	49 e	51 d	34 f	56 d	53 f
	Prowl H20	2.5 PT/A							
	Roundup WeatherMax	22 OZ/A							
	Dual Magnum	16 OZ/A							
	Direx	32 OZ/A							
	MSMA	2 LB A/A							
	NIS	0.25 % V/V							
11	Conventional		8 abc	0 a	93 a	94 a	85 ab	86 ab	92 abc
	Prowl H20	2.5 PT/A							
	Reflex	16 OZ/A							
	Roundup WeatherMax	22 OZ/A							
	Dual Magnum	16 OZ/A							
	Direx	32 OZ/A							
	MSMA	2 LB A/A							
	NIS	0.25 % V/V							
12	Conventional		4 bc	0 a	69 d	73 bc	54 e	68 cd	67 e
	Prowl H20	2.5 PT/A							
	Cotoran	40 OZ/A							
	Roundup WeatherMax	22 OZ/A							
	Dual Magnum	16 OZ/A							
	Direx	32 OZ/A							
	MSMA	2 LB A/A							
	NIS	0.25 % V/V							
13	Conventional		5 bc	0 a	84 abc	83 ab	76 a-d	77 bc	81 bcd
	Prowl H20	2.5 PT/A							
	Staple	1.7 OZ/A							
	Roundup WeatherMax	22 OZ/A							
	Dual Magnum	16 OZ/A							
	Direx	32 OZ/A							
	MSMA	2 LB A/A							
	NIS	0.25 % V/V							

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Weed Code			AMAPA	AMAPA	AMAPA	AMAPA	AMAPA		
Crop Code	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI	GOSHI		
Rating Data Type	injury	injury	control	control	control	control	control		
Rating Unit	%	%	%	%	%	%	%		
Rating Date	Jun-01-06	Jun-09-06	Jun-01-06	Jun-09-06	Jun-20-06	Jun-29-06	Jul-09-06		
Assessed By	SC	SC	SC	SC	SC	SC	SC		
Trt-Eval Interval	4 DA-B	12 DA-B	4 DA-B	12 DA-B	0 DA-C	9 DA-C	19 DA-C		
Trt No.	Treatment Name	Rate	1	2	3	4	5	6	7
		Rate Unit							
14	Conventional		6 abc	0 a	50 e	83 ab	62 cde	77 bc	76 de
	Prowl H20	2.5 PT/A							
	Roundup WeatherMax	22 OZ/A							
	Staple	1.7 OZ/A							
	Direx	32 OZ/A							
	MSMA	2 LB A/A							
	NIS	0.25 % V/V							
15	Conventional		8 abc	0 a	91 ab	98 a	90 a	96 a	97 a
	Prowl H20	2.5 PT/A							
	Reflex	16 OZ/A							
	Roundup WeatherMax	22 OZ/A							
	Staple	1.7 OZ/A							
	Direx	32 OZ/A							
	MSMA	2 LB A/A							
	NIS	0.25 % V/V							
16	Conventional		9 abc	0 a	73 cd	89 a	78 abc	88 ab	87 a-d
	Prowl H20	2.5 PT/A							
	Cotoran	40 OZ/A							
	Roundup WeatherMax	22 OZ/A							
	Staple	1.7 OZ/A							
	Direx	32 OZ/A							
	MSMA	2 LB A/A							
	NIS	0.25 % V/V							
LSD (P=.05)			7.8	0.0	12.9	13.5	15.5	14.8	11.8
Standard Deviation			5.5	0.0	9.1	9.4	10.8	10.4	8.3
CV			70.15	0.0	13.51	13.02	17.63	15.31	12.21
Bartlett's X2			11.302	0.0	26.246	44.597	14.618	12.828	13.464
P(Bartlett's X2)			0.503	.	0.016*	0.001*	0.332	0.461	0.413

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

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Trial ID: C34-06 Study Dir.: Kichler, Culpepper
Location: Macon (house field) Investigator: Stanley Culpepper

GENERAL TRIAL INFORMATION

Study Director: Stanley Culpepper **Title:** Ext. Weed Science
Affiliation: University of Georgia
Postal Code: 31794

Investigator: Stanley Culpepper **Title:** Ext. Weed Science
Affiliation: University of Georgia
Postal Code: 31794

TRIAL LOCATION

City: Macon Co. **Trial Status:** completed
State/Prov.: GA **Trial Reliability:** excellent
Postal Code: _____ **Initiation Date:** May-03-06
Country: USA **Planned Completion Date:** _____
E-Longitude of LL Corner °: _____ **N-Latitude of LL Corner °:** _____
Altitude of LL Corner: _____ Unit: _____ Angle y-axis to North °: _____
Directions:

COOPERATOR/LANDOWNER

Cooperator: _____ **Country:** _____
Org: _____ **Phone No:** _____
Address 1: _____ **Fax No:** _____
Address 2: _____
City: _____
State/Prov: _____
Postal Code: _____

Conducted Under GLP (Y/N): N **Conducted Under GEP (Y/N):** N
Guidelines: _____ **Guideline Description:** _____

Objective:

Conclusions:

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	AMAPA	Amaranth, Palmer	Amaranthus palmeri

Crop 1: GOSHI COTTON, SHORT STAPLE **Variety:** ST 6565 BRR
Planting Date: May-03-06 **Planting Method:** hill drop
Rate: 2 8 in **Depth:** 0.5 in **Perennial Age:** _____
Row Spacing: 36 inch **Spacing Within Row:** _____ **Seed Bed:** flat
Soil Temperature: 86 F **Soil Moisture:** fair **Emergence Date:** May-08-06

SITE AND DESIGN

Plot Width, Unit: 12 FT **Plot Length, Unit:** 45 FT **Reps:** 4
Site Type: on farm
Tillage Type: see plot plan **Study Design:** SPLIT-PLOT

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

MAINTENANCE

Field Prep./Maintenance:

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

SOIL DESCRIPTION

% Sand: 82 % OM: 2.0 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: _____

Closest Weather Station: _____ Distance: _____ Unit: _____

APPLICATION DESCRIPTION

	A	B	C
Application Date:	May-04-06	May-28-06	Jun-20-06
Time of Day:	9 am	11 am	7 pm
Application Method:	broadcast	broadcast	broadcast
Application Timing:	PRE	POST	Layby
Applic. Placement:	soil/cove	overtop	directed
Air Temp., Unit:	89 F	92 F	90 F
% Relative Humidity:	40	45	59
Wind Velocity, Unit:	3 mph	2 mph	2 mph
Dew Presence (Y/N):	n	n	n
Water Hardness:			
Soil Temp., Unit:	86 F	105 F	94 F
Soil Moisture:	fair	fair	fair
% Cloud Cover:	20	5	95

CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	GOSHI PRE	GOSHI POST	GOSHI layby
Stage Scale:	not up	3-5 leaf	10 leaf
Height, Unit:	0 inch	4 inch	9 inch

WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code, Stage:	AMAPA PRE	AMAPA POST	AMAPA layby
Stage Scale:	not up	3 inch	up to 15"
Density, Unit:	45 ydsq	45 ydsq	45 ydsq

University of Georgia

APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	backpack	backpack	backpack
Operating Pressure:	23	23	19
Nozzle Type:	flat fan	flat fan	flat fan
Nozzle Size:	11002	11002	11002
Nozzle Spacing, Unit:	18 inch	18 inch	12 inch
Nozzles/Row:	2	2	3
Band Width, Unit:			
Boom Length, Unit:	4.5 feet	4.5 feet	2 feet
Boom Height, Unit:	15 inch	15 inch	12 inch
Ground Speed, Unit:	3 mph	3 mph	3 mph
Incorporation Equip.:			
Hours to Incorp.:			
Incorp. Depth, Unit:			
Carrier:	water	water	water
Spray Volume, Unit:	14.8 GPA	14.8 GPA	14.8 GPA
Spray pH:			
Propellant:	CO2	CO2	CO2
Tank Mix (Y/N):	Y	Y	Y

Trt No	Treatment Application Comment