Large plot GR Palmer amaranth management systems.

Trial ID: C15-2008 Study Dir.: Culpepper, Davis Location: Macon County Investigator: Stanley Culpepper

Plots: 24 by 50 feet Reps: 4

Spra	y vol: 14.8 gal/ac	Mix	-	3 galloi	ns (mir	1.630	09)							
1	Treatment	Form	Form	Form		Rate	Grow	Appl	Amt Product	Plot N	lo. By I	Rep		
	Name			Type					to Measure	1	2	3	4	
1	CONVENTIONAL									103	202	302	403	
	Prowl H20	3.8		L	2	PT/A	PRE	С	191.8 ml/mx					
	Reflex	2		L		PT/A		С	95.9 ml/mx					
	Roundup PowerMax	4.5		L			1-3 If	D	131.9 ml/mx					
	Parrlay	8		L	1.3	PT/A	1-3 If	D	124.7 ml/mx					
	Diuron	4		L	1	QT/A	12-16in	E	191.8 ml/mx					
	MSMA	6		L	2.5	PT/A	12-16in	E	239.8 ml/mx					
2	CONVENTIONAL									107	206	306	407	
	cultivation													
	Prowl H20	3.8		L	2	PT/A	PRE	С	191.8 ml/mx					
	Reflex	2		L	1	PT/A	PRE	С	95.9 ml/mx					
	Roundup PowerMax	4.5		L	22	OZ/A	1-3 If	D	131.9 ml/mx					
	Parrlay	8		L	1.3	PT/A	1-3 If	D	124.7 ml/mx					
	Diuron	4		L	1	QT/A	12-16in	E	191.8 ml/mx					
	MSMA	6		L	2.5	PT/A	12-16in	E	239.8 ml/mx					
3	RYE									104	201	308	405	
	Roundup PowerMax	4.5		L	22	OZ/A	preplant	Α	131.9 ml/mx					
	Valor	51		DG			preplant		11.49 g/mx					
	Prowl H20 (BANDED)	3.8		L		PT/A		С	191.8 ml/mx					
	Cotoran (BANDED)	4		L	1	QT/A	PRE	С	191.8 ml/mx					
	Roundup PowerMax	4.5		L	22	OZ/A	1-3 If	D	131.9 ml/mx					
	Parrlay	8		L	1.3	PT/A	1-3 If	D	124.7 ml/mx					
	Diuron	4		L	1	QT/A	12-16in	E	191.8 ml/mx					
	MSMA	6		L	2.5	PT/A	12-16in	E	239.8 ml/mx					
4	RYE									108	205	304	401	
	Roundup PowerMax	4.5		L	22	OZ/A	preplant	Α	131.9 ml/mx					
	Valor	51		DG	2	OZ/A	preplant	Α	11.49 g/mx					
	Prowl H20	3.8		L	2	PT/A	PRE	С	191.8 ml/mx					
	Roundup PowerMax	4.5		L	22	OZ/A	1-3 If	D	131.9 ml/mx					
	Parrlay	8		L	1.3	PT/A	1-3 If	D	124.7 ml/mx					
	Diuron	4		L			12-16in		191.8 ml/mx					
	MSMA	6		L	2.5	PT/A	12-16in	E	239.8 ml/mx					
5	WHEAT									101	208	305	404	
	Roundup PowerMax	4.5		L			preplant		131.9 ml/mx					
	Valor	51		DG			preplant		11.49 g/mx					
	Prowl H20 (BANDED)	3.8		L			PRE		191.8 ml/mx					
	Cotoran (BANDED)	4		L		QT/A		С	191.8 ml/mx					
	Roundup PowerMax	4.5		L			1-3 If	D	131.9 ml/mx					
	Parrlay	8		L			1-3 If	D	124.7 ml/mx					
	Diuron	4		L			12-16in		191.8 ml/mx					
	MSMA	6		L	2.5	PT/A	12-16in	E	239.8 ml/mx					
6	WHEAT									105	204	301	408	
	Roundup PowerMax	4.5		L			preplant		131.9 ml/mx					
	Valor	51		DG			preplant	Α	11.49 g/mx					
	Prowl H20	3.8		L		PT/A		С	191.8 ml/mx					
	Roundup PowerMax	4.5		L			1-3 If	D	131.9 ml/mx					
	Parrlay	8		L			1-3 lf	D	124.7 ml/mx					
	Diuron	4		L			12-16in		191.8 ml/mx					
	MSMA	6		L	2.5	P ſ/A	12-16in	E	239.8 ml/mx					

Reps: 4 Plots: 24 by 50 feet

Spray vol: 14.8 gal/ac Mix size: 3 gallons (min 1.6309)

_	ay von i no garao			ganoi	_		,						
Trt	Treatment	Form	Form	Form		Rate	Grow	Appl	Amt Product	Plot N	lo. By I	Rep	
No.	Name	Conc	Unit	Type	Rate	Unit	Stg	Code	to Measure	1	2	3	4
7	CONVENTIONAL									102	203	303	402
	Treflan	3.8		L	1.5	PT/A	PPI	В	143.9 ml/mx				
	Reflex	2		L	1	PT/A	PRE	С	95.9 ml/mx				
	Roundup PowerMax	4.5		L	22	OZ/A	1-2 If	D	131.9 ml/mx				
	Parrlay	8		L	1.3	PT/A	1-2 If	D	124.7 ml/mx				
	Diuron	4		L	1	QT/A	12-16in	E	191.8 ml/mx				
	MSMA	6		L	2.5	PT/A	12-16in	Е	239.8 ml/mx				
8	CONVENTIONAL									106	207	307	406
	Cultivation												
	Treflan	3.8		L	1.5	PT/A	PPI	В	143.9 ml/mx				
	Reflex	2		L	1	PT/A	PRE	С	95.9 ml/mx				
	Roundup PowerMax	4.5		L	22	OZ/A	1-2 If	D	131.9 ml/mx				
	Parrlay	8		L	1.3	PT/A	1-2 If	D	124.7 ml/mx				
	Diuron	4		L	1	QT/A	12-16in	E	191.8 ml/mx				
	MSMA	6		L	2.5	PT/A	12-16in	E	239.8 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
959.037	ml	Prowl H20	3.8	L	
479.519	ml	Reflex	2	L	
1,978.228	ml	Roundup PowerMax	4.5	L	
1,246.748	ml	Parrlay	8	L	
1,918.075	ml	Diuron	4	L	
2,397.593	ml	MSMA	6	L	
57.465	g	Valor	51	DG	
479.519	ml	Prowl H20 (BANDED)	3.8	L	
479.519	ml	Cotoran (BANDED)	4	L	
359.639	ml	Treflan	3.8	L	

FiPer area' calculations based on spray volume= 14.8 gal/ac, mix size= 3 gallons (mix size basis).

#### **Trial Comments**

OBJECTIVE: Determine the most effective program to control glyphosate-resistant Palmer amaranth in Roundup Ready cotton.

#### VISUAL INJURY:

- 1. No at plant herbicide caused injury.
- 2. Roundup plus Parrlay caused 6% spotting and necrosis on cotton but caused over twice that level of injury in conservation tillage because of weaker more sensitive plants at this time. Cotton recovered quickly.
- ${\it 3. \ Layby \ directed \ applications \ caused \ no \ relevant \ injury.}$

#### GLYPHOSTE-RESISTANT PALMER AMARANTH:

- 1. At the time of POST applications, the least effective programs were those in conservation tillage using wheat as the cover. Nearly complete control was noted in conventional programs using Treflan PPI.
- 2. Late in the season:
  - A. The least effective programs were in conservation tillage.
  - B. Control was better better with rye as compared to wheat.
  - C. Cotoran in conservation tillage had little impact, the product is simply not effective enough on pigweed.

<sup>\*</sup> Product amount calculations increased 25 % for overage adjustment.

- D. Rainfall occurred 3 d after application and Treflan PPI programs were still more effective than Prowl PRE programs when cultivation was not implemented.
  - E. Cultivation generally improved control 7 to 14%.

#### SEED COTTON YIELD:

- 1. Yield followed trends noted with Palmer amaranth.
- 2. Palmer amaranth plants were removed from each plot prior to harvest, thus impact on harvesting was not measured.
- 3. Greatest cotton yield was noted when Treflan was applied PPI and cultivation occurred during the crop.
- 4. Lowest yields were noted in the conservation tillage wheat followed by conservation tillage rye.

#### **GENERAL COMMENTS:**

- 1. April 25, 2008 Firestorm 1 qt/A + 1 qt/A Crop Oil applied over the entire trial.
- 2. Seed cotton was harvested by picker from center two rows.
- 3. Rainfall that occurred during herbicide application timing was as follows:

#### Rainfall in Inches:

Apr 28 1 in May 9 0.4 in May 11 2.7 in May 20 0.2 in May 24 0.3 in Jun 11 0.9 in Jun 17 0.6 in Jun 22 1 in

0.5 in

1 in

Jul 5

Jul 21

### Jun-12-09 (C15-08) AOV Means Table Page 4 of 8

### **University of Georgia**

Large plot GR Palmer amaranth management systems.

Trial ID: C15-2008 Study Dir.: Culpepper, Davis
Location: Macon County Investigator: Stanley Culpepper

Loc	ation: Macon County	Y	Inv	-	: Stanley	-	r			
Wee	ed Code		INJURY	INJURY	AMAPA	AMAPA	AMAPA	AMAPA		
	p Code		GOSHI			7 40 11 7 1	7 445 4 7 4	,	GOSHI	GOSHI
	ng Data Type		control			control	control	control	seed yld	
	ng Unit		%	%		%	%	%	lb/plot	
	ng Date					Jun-26-08	Jul-14-08	Sep-09-08		
	Eval Interval		27 DA-C	-	-					
ARN	Action Codes									TY1
# Sı	ubsamples, Dec.									1
Trt	Treatment	Rate								
No.	Name	Rate Unit	1	2	3	4	5	6	7	8
1	CONVENTIONAL		0 a	6 b	93 ab	81 b	84 b	79 b	13 bc	1854.9 bc
	Prowl H20	2 PT/A								
	Reflex	1 PT/A								
	Roundup PowerMax	22 OZ/A								
	Parrlay	1.3 PT/A								
	Diuron	1 QT/A								
_	MSMA	2.5 PT/A								
2	CONVENTIONAL		0 a	6 b	89 b	90 ab	92 ab	93 a	14 b	2003.8 b
	cultivation									
	Prowl H20	2 PT/A								
	Reflex	1 PT/A								
	Roundup PowerMax	22 OZ/A								
	Parrlay	1.3 PT/A								
	Diuron	1 QT/A								
_	MSMA	2.5 PT/A		4.5	0.4				44 1	40500
3	RYE	00 07/4	0 a	15 a	94 ab	72 c	69 c	68 c	11 cd	1658.9 cd
	Roundup PowerMax	22 OZ/A								
	Valor	2 OZ/A 2 PT/A								
	Prowl H20 (BANDED) Cotoran (BANDED)	1 QT/A								
	Roundup PowerMax	22 OZ/A								
	Parrlay	1.3 PT/A								
	Diuron	1.5 T 1//\ 1 QT/A								
	MSMA	2.5 PT/A								
4	RYE	1 1/11	0 a	15 a	87 b	72 c	68 c	65 cd	12 c	1709.7 c
1	Roundup PowerMax	22 OZ/A		15 a	57.5	120	00 0	55 Cu	12 0	1100.1
1	Valor	2 OZ/A								
1	Prowl H20	2 PT/A								
1	Roundup PowerMax	22 OZ/A								
	Parrlay	1.3 PT/A								
	Diuron	1 QT/A								
L	MSMA	2.5 PT/A								
5	WHEAT		0 a	15 a	78 c	61 d	60 cd	58 de	10 de	1484.7 de
1	Roundup PowerMax	22 OZ/A								
1	Valor	2 OZ/A								
1	Prowl H20 (BANDED)	2 PT/A								
1	Cotoran (BANDED)	1 QT/A								
	Roundup PowerMax	22 OZ/A								
	Parrlay	1.3 PT/A								
	Diuron	1 QT/A								
L	MSMA	2.5 PT/A	<u> </u>		<u> </u>					

Trt-Eval Interval         27 DA-C         4 DA-D         35 DA-D         35 DA-D         18 DA-E         75 DA-E         175 DA-B         17 DA-B	GOSHI
Rating Data Type   Control Rating Unit   Rating Unit   Rating Date   May-22-08   May-22-08   May-22-08   May-22-08   Jun-26-08   Jun-26-	GOSHII
Rating Unit Rating Date Rating Date Trt-Eval Interval ARM Action Codes # Subsamples, Dec.  Trt Treatment Roundup PowerMax Valor Prowl H20 Parrlay Diuron Diuron Diuron Diuron Treflan Reflex Treflan Reflex Reflex Reflex Reflex Reflex Reflex Rating Unit  May-22-08 May-22-08 May-22-08 May-22-08 May-22-08 May-22-08 May-22-08 May-22-08 May-22-08 Jun-26-08 Jul-14-08 Sep-09-08 Oct-17-08 Oct-	YIELD
Rating Date Trt-Eval Interval ARM Action Codes # Subsamples, Dec.  Trt Treatment No. Name Rate Unit Roundup PowerMax Prowl H20 Parrlay Diuron Parrlay Diuron MSMA  7 CONVENTIONAL Treflan Reflex Rate No. Name May-22-08 Aday-26-08 Aday-22-08 Ada	lb/acre
Trt-Eval Interval ARM Action Codes # Subsamples, Dec.  Trt Treatment Rate No. Name Rate Unit 1 2 3 4 5 6 7  6 WHEAT	t-17-08
ARM Action Codes # Subsamples, Dec.  Trt Treatment Rate No. Name Rate Unit 1 2 3 4 5 6 7  6 WHEAT Roundup PowerMax 22 OZ/A Valor 2 OZ/A Prowl H20 2 PT/A Roundup PowerMax 22 OZ/A Parrlay 1.3 PT/A Diuron 1 QT/A MSMA 2.5 PT/A  T CONVENTIONAL Treflan 1.5 PT/A Reflex 1 PT/A Roundup PowerMax 22 OZ/A Roundup PowerMax 22 OZ/A PT/A Roundup PowerMax 22 OZ/A PT/A Reflex 1 PT/A Roundup PowerMax 22 OZ/A Roundup PowerMax 22 OZ/A PT/A Roundup PowerMax 22 OZ/A PT/A Roundup PowerMax 22 OZ/A	5 DA-B
# Subsamples, Dec.  Trt Treatment Rate No. Name Rate Unit 1 2 3 4 5 6 7  6 WHEAT 0 a 15 a 75 c 63 cd 53 d 50 e 9 e 134	TY1
Trt Treatment Rate No. Name Rate Unit 1 2 3 4 5 6 7  6 WHEAT Roundup PowerMax 22 OZ/A Valor 2 OZ/A Prowl H20 2 PT/A Roundup PowerMax 22 OZ/A Parrlay 1.3 PT/A Diuron 1 QT/A MSMA 2.5 PT/A Treflan 1.5 PT/A Reflex 1 PT/A Roundup PowerMax 22 OZ/A Reflex 1 PT/A Roundup PowerMax 22 OZ/A Rate Unit 1 2 3 4 5 6 7  6 3 cd 53 d 50 e 9 e 134  6 5 6 7  6 5 9 e 9 e 134  8 9 a 5 9 a 89 ab 90 ab 89 a 14 b 205	1
No. Name Rate Unit 1 2 3 4 5 6 7  6 WHEAT Roundup PowerMax 22 OZ/A Valor 2 OZ/A Prowl H20 2 PT/A Roundup PowerMax 22 OZ/A Parrlay 1.3 PT/A Diuron 1 QT/A MSMA 2.5 PT/A  7 CONVENTIONAL Treflan 1.5 PT/A Reflex 1 PT/A Roundup PowerMax 22 OZ/A Roundup PowerMax 22 OZ/A Roundup PowerMax 22 OZ/A 2 0 a 6 b 99 a 89 ab 90 ab 89 a 14 b 205	
6 WHEAT Roundup PowerMax 22 OZ/A Valor 2 OZ/A Prowl H20 2 PT/A Roundup PowerMax 22 OZ/A Parrlay 1.3 PT/A Diuron 1 QT/A MSMA 2.5 PT/A Treflan 1.5 PT/A Reflex 1 PT/A Roundup PowerMax 22 OZ/A Roundup PowerMax 22 OZ/A  7 CONVENTIONAL Treflan 1.5 PT/A Roundup PowerMax 22 OZ/A Roundup PowerMax 22 OZ/A Roundup PowerMax 22 OZ/A	8
Roundup PowerMax   22 OZ/A   Valor   2 OZ/A   Prowl H20   2 PT/A   Roundup PowerMax   22 OZ/A   Parrlay   1.3 PT/A   Diuron   1 QT/A   MSMA   2.5 PT/A     7 CONVENTIONAL   Treflan   1.5 PT/A   Reflex   1 PT/A   Roundup PowerMax   22 OZ/A     22 OZ/A     22 OZ/A     24 OZ/A     25 OZ/A     26 OZ/A   27 OZ/A   27 OZ/A   27 OZ/A   28 OZ/A   28 OZ/A   28 OZ/A   28 OZ/A   28 OZ/A   29 OZ/A   20 O	3.1 e
Valor 2 OZ/A Prowl H20 2 PT/A Roundup PowerMax 22 OZ/A Parrlay 1.3 PT/A Diuron 1 QT/A MSMA 2.5 PT/A  7 CONVENTIONAL Treflan 1.5 PT/A Reflex 1 PT/A Roundup PowerMax 22 OZ/A	0.1 0
Prowl H20	
Roundup PowerMax   22 OZ/A   Parrlay   1.3 PT/A   Diuron   1 QT/A   MSMA   2.5 PT/A     0 a   6 b   99 a   89 ab   90 ab   89 a   14 b   205   Treflan   1.5 PT/A   Reflex   1 PT/A   Roundup PowerMax   22 OZ/A     22 OZ/A     22 OZ/A     24 OZ/A   25 OZ/A	
Parrlay 1.3 PT/A Diuron 1 QT/A MSMA 2.5 PT/A  7 CONVENTIONAL Treflan 1.5 PT/A Reflex 1 PT/A Roundup PowerMax 22 OZ/A	
Diuron 1 QT/A MSMA 2.5 PT/A 0 a 6 b 99 a 89 ab 90 ab 89 a 14 b 205 Treflan 1.5 PT/A Reflex 1 PT/A Roundup PowerMax 22 OZ/A	
MSMA 2.5 PT/A 0 a 6 b 99 a 89 ab 90 ab 89 a 14 b 205 Treflan 1.5 PT/A Reflex 1 PT/A Roundup PowerMax 22 OZ/A	
7 CONVENTIONAL 0 a 6 b 99 a 89 ab 90 ab 89 a 14 b 205 Treflan 1.5 PT/A Reflex 1 PT/A Roundup PowerMax 22 OZ/A	
Treflan 1.5 PT/A Reflex 1 PT/A Roundup PowerMax 22 OZ/A	1.0 b
Reflex 1 PT/A Roundup PowerMax 22 OZ/A	1.0 5
Roundup PowerMax 22 OZ/A	
Pamay 1.3 PI/AI	
Diuron 1 QT/A	
MSMA 2.5 PT/A	
	6.0 a
Cultivation Cultivation	0.0 a
Treflan 1.5 PT/A	
Reflex 1 PT/A	
Roundup PowerMax 22 OZ/A	
Parrlay 1.3 PT/A	
Diuron 1 QT/A	
MSMA 2.5 PT/A	
LSD (P=.05) 0.0 0.9 6.6 8.9 11.1 8.0 1.4	198.86
Standard Deviation 0.0 0.6 4.5 6.1 7.6 5.4 0.9	135.21
CV 0.0 5.88 5.05 7.8 9.89 7.28 7.52	7.52
Bartlett's X2 0.0 0.0 9.388 15.197 22.78 6.48 5.223	5.223
P(Bartlett's X2) . 0.001* 0.153 0.034* 0.002* 0.485 0.633	0.633

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

Column 8: TY1 = 145.2\*[7]

	Large plot	t GR Palmer amaranth management sys	tems.
Trial ID: C15-20 Location: Macon		Study Dir.: Culpepper, Davis Investigator: Stanley Culpepper	
		IAL INFORMATION	
_	Stanley Culpepper Univ. of Georgia 31794	Title: Ext. Weed	Science
	Stanley Culpepper Univ. of Georgia 31794	Title: Ext. Weed	Science
	TRIA	L LOCATION	
City: Mac State/Prov.: GA Postal Code: 31 Country: USA E-Longitude of I	794 A	Trial Status: Trial Reliability: Initiation Date: Planned Completion Date: N-Latitude of LL Corner °:	good Apr-11-08
Altitude of LL ( Directions:		: Angle y-axis to North °:  TOR/LANDOWNER	
Cooperator:		_	
Address 2: City:			
		Conducted Under GEP (Y/N): N escription:	
Objective:			
Conclusions:			
	CDOD AND W	ZED DECORIDATON	

#### CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	TRZAW	Winter wheat	Triticum aestivum (winter)
2.	SECCE	Rye	Secale cereale
3.	AMAPA	Amaranth, Palmer	Amaranthus palmeri

Crop	1: 0	GOSHI		COTTO	N, S	HORT	STAPI	ĹΕ			V	ariety:	RR Flex	161
Planti	ng 1	Date:	Apr	<u>-25</u>	80			Plan	ting	Metho	d: hi	ll drop	pped	
Rate:	2		8 ir	ı		Der	oth: (	).5	in		Pere	nnial A	Age:	
Row Sp	aci	ng: 3	86	in		Spaci	ing Wi	ithin	Row	<b>8.</b> 5	in	See	ed Bed: f	lat
Soil T	'emp	eratu	ıre:	85	F	Soil	Mois	sture	: mo:	ist		Emerge	ence Date	: May-01-08
							SITE	AND	DESI	GN				
Plot W	/idt	h, Ur	it:	24	F	Т	Plot	Len	gth,	Unit:	50	FT	Reps:	4
Site T	'уре	:	On F	Farm										
Tillag	re T	ype:	Conv	7en.	and	Strip	o-til	Stu	dy De	esign:	RAND	OMIZED	COMPLETE	BLOCK

#### Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

#### MAINTENANCE

#### Field Prep./Maintenance:

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

#### SOIL DESCRIPTION

% Sand:	82	% OM:	2.0	Texture:	loamy sand
% Silt:	14	pH:	6.4	Soil Name:	
% Clave	4	CEC•		Fert Level.	

#### ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

#### MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Type	Tntartal	Unit
1.							

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

#### APPLICATION DESCRIPTION

	1	A		В		C		D		E
Application Date:	Apr-	11-08	Apr	-25-08	Apr	-25-08	May-	-22-08	Jun-	-26-08
Time of Day:	7:00	am	8:0	00 am	11:	00am	6:00	) pm	12:0	00 pm
Application Method:	broad	dcast	bro	adcast	bro	adcast	broa	adcast	broa	adcast
Application Timing:	prep.	lant	PPI	•	PRE		POST	Γ	PD	
Applic. Placement:	overt	top	on	soil	on	soil	ovei	ctop	dire	ected
Air Temp., Unit:	65	F	82	F	82	F	88	F	88	F
% Relative Humidity:	45		49		49		47		60	
Wind Velocity, Unit:	0	mph	4	mph	4	mph	3	mph	4	mph
Dew Presence (Y/N):	Y		N		N		N		N	
Water Hardness:										
Soil Temp., Unit:	68	F	74	F	74	F	84	F	88	F
Soil Moisture:	moist	t	moi	.st	moi	st	mois	st	mois	st
% Cloud Cover:	20		30		30		100		15	

#### CROP STAGE AT EACH APPLICATION

	A	В	С	D	E
Crop 1 Code, Stage:	GOSHI A	GOSHI B	GOSHI C	GOSHI D	GOSHI E
Stage Scale:	preplant	PPI-notup	PRE-notup	3.5 leaf	12 leaf
Height, Unit:	0 in	0 in	0 inch	3.5 in	15 in

#### WEED STAGE AT EACH APPLICATION

	A	В	C	D	E
Weed 1 Code, Stage:	TRZAW A	TRZAW B	TRZAW C	TRZAW D	TRZAW E
Stage Scale:	3 ft	3 ft	75%cover	50%cover	33%cover
Density, Unit:	22 ft	22 ft	22 ft	22 ft	22 ft
Weed 2 Code, Stage:	SECCE A	SECCE B	SECCE C	SECCE	SECCE E
Stage Scale:	7 feet	7 feet	95%cover	80%cover	70%cover
Density, Unit:	22 ft	22 ft	22 ft	22 ft	22 ft
Weed 3 Code, Stage:	AMAPA A	AMAPA B	AMAPA C	AMAPA	AMAPA E
Stage Scale:	not up	not up	not up	4 in	14 in
Density, Unit:	0 ydsq	0 ydsq	0 ydsq	35 ydsq	40 ydsq

#### APPLICATION EQUIPMENT

	A	В	С	D	E	
Appl. Equipment:	backpack	tractor	backpack	backpack	layby rig	
Operating Pressure:	24	24 psi	24	24	20	
Nozzle Type:	flat fan					
Nozzle Size:	11002	8002	11002	11002	11002	
Nozzle Spacing, Unit:	18 in	18 in	18 in	18 in	11 in	
Nozzles/Row:	2	2	2	2	3	
Band Width, Unit:						
Boom Length, Unit:	4.5 ft	18 feet	4.5 ft	4.5 ft	24 inch	
Boom Height, Unit:	15 in	20 inch	15 in	15 in	12 inch	
Ground Speed, Unit:	3 mph					
Incorporation Equip.:						
Hours to Incorp.:						
Incorp. Depth, Unit:						
Carrier:	water	water	water	water	water	
Spray Volume, Unit:	14.5 GPA	14.8 GPA	14.8 GPA	14.8 GPA	14.8 GPA	
Spray pH:						
Propellant:	CO2	CO2	CO2	CO2	CO2	
Tank Mix (Y/N):						

Trt No	Treatment Application Comment