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Cucumber, squash, sweet corn, and cole crops planted in the fall after applying Reflex under mulch in the spring.

Trial ID: Veg14B-07

Study Dir.: Stanley Culpepper

Location: Ponder Farm

Investigator: Stanley Culpepper

Reps: 4

Plots: 6 by 80 feet

Spray vol: 24 gal/ac

Mix size: 3 liters (min 4.0044)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Grow Unit	Stg	Appl Code	Amt to Measure	Product	Plot No. By Rep			
											1	2	3	4
1	No herbicide										101	204	301	403
2	Reflex	2	L		1 PT/A	PREUPL	A		15.62 ml/mx		102	201	303	401
3	Reflex	2	L		2 PT/A	PREUPL	A		31.25 ml/mx		103	202	304	402
4	Reflex	2	L		2 PT/A	PREUPL	A		31.25 ml/mx		104	203	302	404
	Dual Magnum	7.62	L		12 OZ/A	PREUPL	A		11.72 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
97.646	ml	Reflex	2	L	
14.648	ml	Dual Magnum	7.62	L	

* 'Per area' calculations based on spray volume= 24 gal/ac, mix size= 3 liters (mix size basis).

* Product amount calculations increased 25 % for overage adjustment.

Trial Comments

OBJECTIVE: Determine tomato, pepper, eggplant and squash response to Reflex applied preplant under mulch in the spring. Also to determine the carryover injury from Reflex applied PRE in a spring crop to fall crops planted six months later.

Note1: For tomato, pepper, eggplant and squash response in the spring see trial V14-07. To see plantback data with second crops planted 6 months after Reflex see Veg14B-07.

Note2: The following summary is from crops planted 6 months after the initial herbicide treatments were applied under mulch.

Seed and transplant cucumber:

1. Reflex at 1 pt caused up to 21% visual injury; 2 pt caused up to 29% injury. Dual with Reflex did not impact injury.
2. Three wk after planting, Reflex reduced plant growth at least 38% when cucumber were seeded but did not impact transplant cucumber. There was an obvious trend for reduced transplant cucumber size when Reflex was applied at 2 pt.
3. Transplant cucumber were harvested 12 times: Reflex at 1 pt did not reduce yield; however Reflex at 2 pt reduced yields when averaged over harvest 1-4, 1-8, and 1-12 with a 28% loss in yield for the total 12 harvests.

Seeded and transplant squash:

1. Insignificant visual injury was noted.
2. Plant heights were not impacted.
3. Squash was harvested 16 times, yields were not impacted by herbicide treatments.

Red Cabbage:

1. Visual injury was severe. Reflex at 1 pt caused up to 44% injury with over 70% injury noted with 2 pt.
2. Plant heights were reduced at least 35% at 1 month after transplant.
3. Red cabbage was harvested twice. Reflex at 1 pt reduce total yield over 50%; 2 pts reduced yields over 80%.

Seeded Collard and Transplant Collard:

1. Injury with seeded collard ranged from 23 to 63%; transplant collards were injured 45 to 96%.
2. Plant heights were reduced at least 35% at 1 month after transplant.
3. Reflex reduced seeded collard weight at harvest by at least 35% and reduced transplant collard weight at least 70%.

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Broccoli:

1. Transplant broccoli injury ranged from 63 to 96% at 5 wk after transplant.
2. Transplant broccoli was at least 56% smaller when planting behind reflex compared to the control at 1 month after transplant.
3. Broccoli plot biomass was harvested with Reflex reducing biomass weights by at least 83%.

Cabbage:

1. Transplant cabbage injury ranged from 70 to 90% at 5 wk after transplant.
2. Transplant cabbage was at least 56% smaller when planting behind reflex compared to the control at 1 month after transplant.
3. Cabbage was harvested twice. Reflex at 1 pt reduced yields over 50% while 2 pts reduced yields over 89%.

Sweet corn:

1. Reflex injury ranged from 25 to 43% chlorosis at 14 DAT.
2. At 14 d, Reflex at 1 pt did not reduce plant heights although corn was very chlorotic. Reflex at 2 pt/A did reduced plant heights by at least 40%.

GENERAL COMMENTS:

1. Feb 26: Pic Chlor 60 @ 21 G applied over trial area.

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applying Reflex under mulch in the spring.**

Trial ID: Veg14B-07

Study Dir.: Stanley Culpepper

Location: Ponder Farm

Investigator: Stanley Culpepper

Weed Code	seed cuc	CUMSA	CUMSA	seed squ	tr squas	tr squas	red cab	red cab
Crop Code								
Part Rated								
Rating Data Type	injury	injury	injury	injury	injury	injury	injury	injury
Rating Unit	%	%	%	%	%	%	%	%
Rating Date	Sep-04-07	Sep-04-07	Sep-27-07	Sep-04-07	Sep-04-07	Sep-27-07	Sep-04-07	Sep-27-07
Assessed By	SC	SC	SC	SC	SC	SC	SC	SC
Trt-Eval Interval	190 DA-A	190 DA-A	213 DA-A	190 DA-A	190 DA-A	213 DA-A	190 DA-A	213 DA-A
ARM Action Codes								
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate
		Unit	Unit	Unit	Unit	Unit	Unit	Unit
		1	2	3	4	5	6	7
1	No herbicide	0 b	0 b	0 c	0 a	0 a	0 a	0 c
2	Reflex 1 PT/A	11 b	21 a	9 b	4 a	5 a	0 a	28 b
3	Reflex 2 PT/A	26 a	28 a	29 a	1 a	1 a	1 a	70 a
4	Reflex 2 PT/A Dual Magnum 12 OZ/A	24 a	23 a	25 a	3 a	3 a	0 a	73 a
LSD (P=.05)		12.4	6.3	5.8	4.8	5.7	2.0	19.5
Standard Deviation		7.7	3.9	3.6	3.0	3.6	1.3	12.2
CV		50.54	22.07	23.1	160.25	162.74	400.0	28.68
Bartlett's X2		1.302	3.636	2.765	1.936	1.25	0.0	0.912
P(Bartlett's X2)		0.521	0.162	0.251	0.38	0.535	.	0.634

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

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Weed Code									
Crop Code	seed col	seed col	collard	collard	broccoli	broccoli	cabbage	cabbage	
Part Rated									
Rating Data Type	injury	injury	injury	injury	injury	injury	injury	injury	
Rating Unit	%	%	%	%	%	%	%	%	
Rating Date	Sep-04-07	Sep-27-07	Sep-04-07	Sep-27-07	Sep-04-07	Sep-27-07	Sep-04-07	Sep-27-07	
Assessed By	SC	SC	SC	SC	SC	SC	SC	SC	
Trt-Eval Interval	190 DA-A	213 DA-A	190 DA-A	213 DA-A	190 DA-A	213 DA-A	190 DA-A	213 DA-A	
ARM Action Codes									
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate
		Unit	Unit	Unit	Unit	Unit	Unit	Unit	Unit
		9	10	11	12	13	14	15	16
1	No herbicide	0 b	0 c	0 c	0 c	0 c	0 c	0 c	0 c
2	Reflex 1 PT/A	24 b	24 b	45 b	64 b	55 b	87 b	56 b	70 b
3	Reflex 2 PT/A	51 a	44 a	83 a	95 a	90 a	95 a	90 a	92 a
4	Reflex 2 PT/A Dual Magnum 12 OZ/A	64 a	48 a	88 a	96 a	90 a	96 a	89 a	96 a
LSD (P=.05)		24.4	7.1	14.8	7.3	17.5	4.9	15.4	13.1
Standard Deviation		15.2	4.4	9.3	4.6	11.0	3.1	9.6	8.2
CV		43.92	15.34	17.26	7.2	18.69	4.39	16.42	12.69
Bartlett's X2		8.883	2.899	4.482	5.095	6.068	3.203	2.812	7.457
P(Bartlett's X2)		0.012*	0.235	0.106	0.024*	0.048*	0.074	0.245	0.024*

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

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Weed Code			plant 1	plant 2	plant 3	plant 4	plant 5	plant 6		
Crop Code	sw corn	sw corn	sw corn	sw corn	sw corn	sw corn	sw corn	sw corn		
Part Rated										
Rating Data Type	injury	# plants	ht	ht	ht	ht	ht	ht		
Rating Unit	%	per plot	cm	cm	cm	cm	cm	cm		
Rating Date	Sep-04-07	Sep-04-07	Sep-04-07	Sep-04-07	Sep-04-07	Sep-04-07	Sep-04-07	Sep-04-07		
Assessed By	SC									
Trt-Eval Interval	190 DA-A	190 DA-A	190 DA-A	190 DA-A	190 DA-A	190 DA-A	190 DA-A	190 DA-A		
ARM Action Codes										
Trt No.	Treatment Name	Rate	17	19	21	22	23	24	25	26
		Unit								
1	No herbicide	0 b	7 a	13 a	15 a	0 a	14 a	9 a	20 a	
2	Reflex	1 PT/A	6 a	17 a	14 a	4 a	3 a	19 a	18 a	
3	Reflex	2 PT/A	4 b	10 a	5 a	9 a	0 a	11 a	15 a	
4	Reflex Dual Magnum	2 PT/A 12 OZ/A	5 b	4 a	7 a	7 a	9 a	14 a	9 a	
LSD (P=.05)		16.8	1.1	16.7	14.9	9.3	13.8	13.8	13.7	
Standard Deviation		10.5	0.7	10.4	9.3	5.8	8.6	8.6	8.6	
CV		39.1	13.47	95.82	91.9	116.43	133.68	64.77	55.99	
Bartlett's X2		3.241	0.32	4.804	0.252	0.227	0.855	1.366	7.624	
P(Bartlett's X2)		0.198	0.956	0.187	0.969	0.893	0.652	0.713	0.054	

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

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Weed Code	plant 7	plant 8	plant 9	Avg9plan	plant 1	plant2	plant 3	plant 4
Crop Code	sw corn	sw corn	sw corn	sw corn	seed cuc	seed cuc	seed cuc	seed cuc
Part Rated								
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm
Rating Date	Sep-04-07	Sep-04-07	Sep-04-07	Sep-04-07	Sep-11-07	Sep-11-07	Sep-11-07	Sep-11-07
Assessed By								
Trt-Eval Interval	190 DA-A	190 DA-A	190 DA-A	190 DA-A	197 DA-A	197 DA-A	197 DA-A	197 DA-A
ARM Action Codes				T1				
Trt No.	27	28	29	30	32	33	34	35
Treatment Name								
Rate								
Unit								
1 No herbicide	19 a	20 a	16 a	14 a	32 a	21 a	21 a	26 a
2 Reflex 1 PT/A	15 ab	6 b	7 a	11 a	17 b	17 a	21 a	21 a
3 Reflex 2 PT/A	7 b	12 ab	3 a	8 b	17 b	19 a	18 a	14 a
4 Reflex 2 PT/A Dual Magnum 12 OZ/A	4 b	20 a	3 a	9 b	31 a	23 a	30 a	23 a
LSD (P=.05)	11.5	8.6	12.6	2.8	11.2	11.1	14.3	14.5
Standard Deviation	7.2	5.4	7.9	1.7	7.0	7.0	9.0	9.1
CV	63.48	36.88	110.59	16.45	29.04	34.56	39.98	43.42
Bartlett's X2	9.208	5.9	1.176	6.687	2.414	0.155	1.585	1.462
P(Bartlett's X2)	0.027*	0.117	0.759	0.083	0.491	0.985	0.663	0.691

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

Column 28: T1 = @AVG([C21].[C29])

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Weed Code	plant 5	plant 6	plant 7	plant 8	plant 9	plant 10	plant 11	plant 12
Crop Code	seed cuc	seed cuc	seed cuc	seed cuc	seed cuc	seed cuc	seed cuc	seed cuc
Part Rated								
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm
Rating Date	Sep-11-07	Sep-11-07	Sep-11-07	Sep-11-07	Sep-11-07	Sep-11-07	Sep-11-07	Sep-11-07
Assessed By								
Trt-Eval Interval	197 DA-A	197 DA-A	197 DA-A	197 DA-A	197 DA-A	197 DA-A	197 DA-A	197 DA-A
ARM Action Codes								
Trt No.	36	37	38	39	40	41	42	43
Treatment Name								
Rate								
Unit								
1 No herbicide	26 a	26 a	25 a	18 a	20 a	18 a	14 a	6 a
2 Reflex 1 PT/A	17 b	18 a	14 ab	8 a	13 a	14 ab	0 b	0 a
3 Reflex 2 PT/A	10 c	14 a	12 ab	9 a	9 a	1 b	0 b	0 a
4 Reflex 2 PT/A Dual Magnum 12 OZ/A	25 a	16 a	10 b	12 a	11 a	14 ab	0 b	0 a
LSD (P=.05)	5.8	16.4	13.6	14.1	17.1	14.5	12.9	10.0
Standard Deviation	3.7	10.2	8.5	8.8	10.7	9.0	8.1	6.3
CV	18.55	56.04	55.43	76.66	83.64	77.83	231.23	400.0
Bartlett's X2	1.895	0.75	0.041	1.227	2.124	9.714	0.0	0.0
P(Bartlett's X2)	0.594	0.861	0.998	0.747	0.547	0.021*	.	.

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

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Weed Code	Avg12pla	plant 1	plant 2	plant 3	plant 4	plant 5	plant 6	plant 7	
Crop Code	seed cuc	seed squ	seed squ	seed squ	seed squ	seed squ	seed squ	seed squ	
Part Rated									
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht	
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm	
Rating Date	Sep-11-07	Sep-11-07	Sep-11-07	Sep-11-07	Sep-11-07	Sep-11-07	Sep-11-07	Sep-11-07	
Assessed By									
Trt-Eval Interval	197 DA-A	206 DA-A	197 DA-A	197 DA-A	197 DA-A	197 DA-A	197 DA-A	197 DA-A	
ARM Action Codes	T2								
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate	
Unit	Rate Unit	44	46	47	48	49	50	51	52
1	No herbicide	21 a	32 a	30 a	27 a	29 a	29 a	23 a	17 a
2	Reflex 1 PT/A	13 bc	24 a	22 a	23 a	28 a	27 a	24 a	18 a
3	Reflex 2 PT/A	10 c	26 a	29 a	26 a	28 a	30 a	28 a	27 a
4	Reflex 2 PT/A Dual Magnum 12 OZ/A	16 ab	27 a	27 a	27 a	34 a	25 a	30 a	29 a
LSD (P=.05)		5.4	10.7	10.1	8.4	11.3	6.0	14.9	16.2
Standard Deviation		3.4	6.7	6.3	5.2	7.0	3.8	9.3	10.1
CV		22.44	24.59	23.8	20.38	23.9	13.61	35.98	44.8
Bartlett's X2		1.647	6.841	1.814	5.424	2.811	4.374	5.951	8.213
P(Bartlett's X2)		0.649	0.077	0.612	0.143	0.422	0.224	0.114	0.042*

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

Column 41: T2 = @AVG([C32].[C43])

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Weed Code	plant 8 seed squ	plant 9 seed squ	plant 10 seed squ	Avg10pla seed squ	plant 1 seed col	plant 2 seed col	plant 3 seed col	plant 4 seed col
Crop Code								
Part Rated								
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm
Rating Date	Sep-11-07	Sep-11-07	Sep-11-07	Sep-11-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07
Assessed By								
Trt-Eval Interval	197 DA-A	197 DA-A	197 DA-A	197 DA-A	206 DA-A	206 DA-A	206 DA-A	206 DA-A
ARM Action Codes				T3				
Trt Treatment								
Rate								
No. Name Rate Unit	53	54	55	56	58	59	60	61
1 No herbicide	9 a	8 a	7 a	21 a	10 b	13 a	13 a	14 a
2 Reflex 1 PT/A	15 a	14 a	5 a	20 a	14 a	10 a	9 a	5 b
3 Reflex 2 PT/A	21 a	17 a	9 a	24 a	10 b	10 a	9 a	5 b
4 Reflex 2 PT/A Dual Magnum 12 OZ/A	21 a	14 a	7 a	24 a	11 ab	7 a	6 a	7 ab
LSD (P=.05)	27.5	25.1	21.5	10.5	3.1	5.3	7.7	6.9
Standard Deviation	17.2	15.7	13.4	6.6	1.9	3.3	4.8	4.3
CV	104.64	120.21	188.37	29.61	17.41	32.91	50.7	56.13
Bartlett's X2	0.21	0.506	0.334	1.484	1.999	1.171	4.115	9.554
P(Bartlett's X2)	0.976	0.918	0.954	0.686	0.573	0.76	0.249	0.023*

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

Column 52: T3 = @AVG([C46].[C55])

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Weed Code	plant 5 seed col	plant 6 seed col	plant 7 seed col	plant 8 seed col	plant 9 seed col	Avg9 pla seed col	plant 1 tran cuc	plant 2 tran cuc
Crop Code								
Part Rated								
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm
Rating Date	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07
Assessed By								
Trt-Eval Interval	206 DA-A	206 DA-A	206 DA-A	206 DA-A	206 DA-A	206 DA-A	206 DA-A	206 DA-A
ARM Action Codes						T4		
Trt Treatment								
Rate								
No. Name Rate Unit	62	63	64	65	66	67	69	70
1 No herbicide	10 a	7 a	4 a	3 a	0 a	8 a	61 b	72 a
2 Reflex 1 PT/A	3 b	2 ab	3 a	0 a	0 a	5 b	100 a	91 a
3 Reflex 2 PT/A	0 b	0 b	0 a	0 a	0 a	4 b	60 b	65 a
4 Reflex 2 PT/A Dual Magnum 12 OZ/A	3 b	0 b	0 a	0 a	0 a	4 b	68 b	80 a
LSD (P=.05)	6.3	6.2	7.2	4.0	0.0	2.9	24.6	45.3
Standard Deviation	4.0	3.9	4.5	2.5	0.0	1.8	15.4	28.3
CV	105.74	166.9	301.44	400.0	0.0	35.66	21.33	36.84
Bartlett's X2	1.9	0.036	0.32	0.0	0.0	0.73	2.086	0.279
P(Bartlett's X2)	0.387	0.849	0.572	.	.	0.866	0.555	0.964

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

Column 62: T4 = @AVG([C58].[C66])

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Weed Code	plant 3 tran cuc	plant 4 tran cuc	plant 5 tran cuc	plant 6 tran cuc	plant 7 tran cuc	plant 8 tran cuc	plant 9 tran cuc	plant 10 tran cuc			
Crop Code											
Part Rated											
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht			
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm			
Rating Date	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07			
Assessed By											
Trt-Eval Interval	206 DA-A	206 DA-A	206 DA-A	206 DA-A	206 DA-A	206 DA-A	206 DA-A	206 DA-A			
ARM Action Codes											
Trt No.	Treatment Name	Rate	Unit	71	72	73	74	75	76	77	78
1	No herbicide			99 a	107 a	82 a	74 a	69 a	76 a	36 a	21 a
2	Reflex	1	PT/A	95 a	78 ab	80 a	67 a	80 a	68 a	49 a	42 a
3	Reflex	2	PT/A	67 a	77 ab	69 a	60 a	56 ab	61 a	35 a	40 a
4	Reflex Dual Magnum	2 12	PT/A OZ/A	87 a	71 b	71 a	53 a	32 b	49 a	39 a	32 a
LSD (P=.05)				30.5	33.1	49.8	39.5	30.0	57.8	52.6	52.3
Standard Deviation				19.0	20.7	31.2	24.7	18.8	36.1	32.9	32.7
CV				21.93	24.93	41.36	38.95	31.61	57.16	82.88	97.16
Bartlett's X2				13.209	3.682	3.239	4.373	6.767	1.949	1.972	1.094
P(Bartlett's X2)				0.004*	0.298	0.356	0.224	0.08	0.583	0.578	0.779

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

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Weed Code	Avg10 pl	plant 1	plant 2	plant 3	plant 4	plant 5	plant 6	plant 7	
Crop Code	tran cuc	tran squ	tran squ	tran squ	tran squ	tran squ	tran squ	tran squ	
Part Rated									
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht	
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm	
Rating Date	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	
Assessed By									
Trt-Eval Interval	206 DA-A	206 DA-A	206 DA-A	206 DA-A	206 DA-A	206 DA-A	206 DA-A	206 DA-A	
ARM Action Codes	T5								
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate	
Unit	Rate Unit	79	81	82	83	84	85	86	87
1	No herbicide	70 a	34 a	30 ab	33 a	33 a	33 a	37 a	40 a
2	Reflex 1 PT/A	75 a	34 a	35 a	29 a	38 a	33 a	29 a	28 a
3	Reflex 2 PT/A	59 a	30 ab	31 a	33 a	29 a	32 a	28 a	28 a
4	Reflex 2 PT/A Dual Magnum 12 OZ/A	58 a	20 b	22 b	27 a	28 a	30 a	28 a	28 a
LSD (P=.05)		17.5	11.1	7.8	11.4	13.2	11.2	8.3	11.5
Standard Deviation		10.9	6.9	4.9	7.1	8.3	7.0	5.2	7.2
CV		16.72	23.62	16.49	23.44	26.19	21.77	17.02	23.31
Bartlett's X2		4.753	10.677	14.503	4.109	1.761	1.392	3.161	2.357
P(Bartlett's X2)		0.191	0.014*	0.002*	0.25	0.623	0.707	0.367	0.502

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

Column 73: T5 = @AVG([C69].[C78])

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Weed Code	plant 8 tran squ	plant 9 tran squ	plant 10 tran squ	Avg10pla tran squ	plant 1 tran col	plant 2 tran col	plant 3 tran col	plant 4 tran col
Crop Code								
Part Rated								
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm
Rating Date	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07
Assessed By								
Trt-Eval Interval	206 DA-A	206 DA-A	206 DA-A	206 DA-A	206 DA-A	206 DA-A	206 DA-A	206 DA-A
ARM Action Codes				T6				
Trt No.	88	89	90	91	93	94	95	96
Treatment Name								
Rate								
Unit								
1 No herbicide	40 a	44 a	12 a	33 a	26 a	25 a	24 a	22 a
2 Reflex 1 PT/A	36 ab	38 ab	15 a	31 a	21 a	20 ab	14 ab	9 b
3 Reflex 2 PT/A	30 b	33 b	13 a	29 a	10 b	9 bc	4 b	4 b
4 Reflex 2 PT/A Dual Magnum 12 OZ/A	29 b	37 ab	21 a	27 a	7 b	5 c	4 b	3 b
LSD (P=.05)	7.4	6.9	32.1	6.7	9.5	12.6	11.9	10.2
Standard Deviation	4.6	4.3	20.1	4.2	5.9	7.9	7.5	6.4
CV	13.76	11.39	132.26	13.81	37.15	54.15	64.81	68.72
Bartlett's X2	3.283	1.765	0.722	4.229	2.897	2.49	4.069	3.42
P(Bartlett's X2)	0.35	0.623	0.868	0.238	0.408	0.477	0.254	0.331

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

Column 84: T6 = @AVG([C81].[C90])

University of Georgia

Weed Code	plant 5 tran col	plant 6 tran col	plant 7 tran col	plant 8 tran col	plant 9 tran col	plant 10 tran col	Avg10pla tran col	plant 1 broccol
Crop Code								
Part Rated								
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm
Rating Date	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07
Assessed By								
Trt-Eval Interval	206 DA-A	206 DA-A	206 DA-A	206 DA-A	206 DA-A	206 DA-A	206 DA-A	206 DA-A
ARM Action Codes							T7	
Trt No.	97	98	99	100	101	102	103	105
Treatment Name								
Rate								
Unit								
1 No herbicide	21 a	23 a	24 a	24 a	20 a	21 a	23 a	25 a
2 Reflex 1 PT/A	10 ab	11 b	11 ab	11 b	10 ab	9 b	12 b	15 ab
3 Reflex 2 PT/A	4 b	4 b	4 b	4 b	3 bc	0 b	5 bc	4 b
4 Reflex 2 PT/A Dual Magnum 12 OZ/A	3 b	0 b	0 b	0 b	0 c	0 b	2 c	5 b
LSD (P=.05)	14.9	11.0	13.4	11.9	9.8	8.9	8.8	11.9
Standard Deviation	9.3	6.9	8.4	7.4	6.1	5.5	5.5	7.4
CV	100.55	74.01	87.71	76.83	74.39	75.12	52.26	61.86
Bartlett's X2	1.783	3.156	3.08	4.76	2.309	2.698	6.481	4.353
P(Bartlett's X2)	0.619	0.206	0.214	0.093	0.315	0.10	0.09	0.226

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

Column 95: T7 = @AVG([C93].[C102])

University of Georgia

Weed Code	plant 2 broccol	plant 3 broccol	plant 4 broccol	plant 5 broccol	plant 6 broccol	plant 7 broccol	plant 8 broccol	plant 9 broccol
Crop Code								
Part Rated								
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm
Rating Date	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07
Assessed By								
Trt-Eval Interval	206 DA-A	206 DA-A	206 DA-A	206 DA-A	206 DA-A	206 DA-A	206 DA-A	206 DA-A
ARM Action Codes								
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate
		Unit	Unit	Unit	Unit	Unit	Unit	Unit
		106	107	108	109	110	111	112
1	No herbicide	22 a	20 a	20 a	18 a	20 a	20 a	21 a
2	Reflex 1 PT/A	15 a	15 ab	15 a	15 a	9 b	3 b	2 b
3	Reflex 2 PT/A	5 b	5 bc	3 b	3 b	4 b	3 b	2 b
4	Reflex 2 PT/A Dual Magnum 12 OZ/A	0 b	0 c	0 b	0 b	0 b	0 b	0 b
LSD (P=.05)		9.3	10.3	7.2	9.9	9.5	4.8	3.5
Standard Deviation		5.8	6.5	4.5	6.2	6.0	3.0	2.2
CV		56.32	65.39	47.16	68.59	74.59	46.01	35.87
Bartlett's X2		4.496	3.743	1.945	0.231	1.785	3.083	0.083
P(Bartlett's X2)		0.106	0.154	0.378	0.891	0.41	0.214	0.959

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

University of Georgia

Weed Code	plant 10 broccol	Avg10pla broccol	plant 1 tran cab	plant 2 tran cab	plant 3 tran cab	plant 4 tran cab	plant 5 tran cab	plant 6 tran cab
Crop Code								
Part Rated								
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm
Rating Date	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07
Assessed By								
Trt-Eval Interval	206 DA-A	206 DA-A	206 DA-A	206 DA-A	206 DA-A	206 DA-A	206 DA-A	206 DA-A
ARM Action Codes		T8						
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate
		Unit	Unit	Unit	Unit	Unit	Unit	Unit
		114	115	117	118	119	120	121
1	No herbicide	18 a	20 a	12 a	12 a	11 a	12 a	16 a
2	Reflex 1 PT/A	0 b	9 b	14 a	12 a	8 a	8 ab	6 b
3	Reflex 2 PT/A	0 b	3 c	11 a	7 ab	6 a	3 b	3 b
4	Reflex 2 PT/A Dual Magnum 12 OZ/A	0 b	1 c	3 b	2 b	3 a	2 b	2 b
LSD (P=.05)		9.7	5.4	4.8	6.3	8.6	8.3	6.3
Standard Deviation		6.1	3.4	3.0	3.9	5.4	5.2	3.9
CV		137.19	41.3	30.96	47.92	77.48	84.79	59.68
Bartlett's X2		0.0	10.285	5.607	1.627	1.21	0.67	1.054
P(Bartlett's X2)		.	0.016*	0.132	0.653	0.751	0.88	0.788

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

Column 106: T8 = @AVG([C105].[C114])

University of Georgia

Weed Code	plant 7 tran cab	plant 8 tran cab	plant 9 tran cab	plant 10 tran cab	Avg10pla tran cab	plant 1 red cab right	plant 2 red cab right	plant 3 red cab right
Crop Code	ht	ht	ht	ht	ht	ht	ht	ht
Part Rated	cm	cm	cm	cm	cm	cm	cm	cm
Rating Data Type	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07
Rating Unit								
Rating Date								
Assessed By	206 DA-A	206 DA-A	206 DA-A	206 DA-A	206 DA-A	206 DA-A	206 DA-A	206 DA-A
Trt-Eval Interval								
ARM Action Codes					T9			
Trt Treatment								
Rate								
No. Name Rate Unit	123	124	125	126	127	129	130	131
1 No herbicide	15 a	15 a	15 a	11 a	13 a	16 a	18 a	15 a
2 Reflex 1 PT/A	3 b	2 b	2 b	0 b	6 b	14 ab	13 ab	12 a
3 Reflex 2 PT/A	0 b	0 b	0 b	0 b	3 bc	8 bc	7 bc	4 b
4 Reflex 2 PT/A Dual Magnum 12 OZ/A	0 b	0 b	0 b	0 b	1 c	5 c	2 c	3 b
LSD (P=.05)	5.5	3.2	4.3	6.6	3.9	7.1	6.8	7.0
Standard Deviation	3.4	2.0	2.7	4.2	2.4	4.5	4.2	4.3
CV	76.44	45.77	63.46	147.58	41.4	42.53	42.3	51.52
Bartlett's X2	0.417	0.614	0.065	0.0	1.276	0.865	8.89	0.137
P(Bartlett's X2)	0.519	0.433	0.799	.	0.735	0.834	0.031*	0.987

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

Column 117: T9 = @AVG([C117].[C126])

University of Georgia

Weed Code	plant 4	plant 5	plant 6	plant 7	plant 8	plant 9	plant 10	Avg10 pl
Crop Code	red cab	red cab	red cab	red cab	red cab	red cab	red cab	red cab
Part Rated	right	right	right	right	right	right	right	right
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm
Rating Date	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07
Assessed By								
Trt-Eval Interval	206 DA-A	206 DA-A	206 DA-A	206 DA-A	206 DA-A	206 DA-A	206 DA-A	206 DA-A
ARM Action Codes								T10
Trt Treatment	Rate							
No. Name	Rate Unit	132	133	134	135	136	137	138
1 No herbicide		18 a	17 a	19 a	19 a	22 a	18 a	16 a
2 Reflex	1 PT/A	12 ab	12 ab	13 ab	12 ab	10 b	12 ab	8 b
3 Reflex	2 PT/A	7 bc	8 bc	7 bc	7 bc	5 bc	5 b	4 b
4 Reflex	2 PT/A	2 c	3 c	3 c	3 c	2 c	3 b	3 b
Dual Magnum	12 OZ/A							
LSD (P=.05)		6.7	7.8	8.6	8.4	7.2	10.1	8.2
Standard Deviation		4.2	4.9	5.3	5.2	4.5	6.3	5.1
CV		42.64	49.76	51.25	51.66	47.72	67.99	66.0
Bartlett's X2		6.441	5.457	1.997	4.26	8.307	1.604	3.773
P(Bartlett's X2)		0.092	0.141	0.573	0.235	0.04*	0.658	0.287

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

Column 128: T10 = @AVG([C129].[C138])

University of Georgia

Weed Code	plant 1	plant 2	plant 3	plant 4	plant 5	plant 6	plant 7	plant 8
Crop Code	red cab	red cab	red cab	red cab	red cab	red cab	red cab	red cab
Part Rated	left	left	left	left	left	left	left	left
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm
Rating Date	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07	Sep-20-07
Assessed By								
Trt-Eval Interval	206 DA-A	206 DA-A	206 DA-A	206 DA-A	206 DA-A	206 DA-A	206 DA-A	206 DA-A
ARM Action Codes								
Trt No.	141	142	143	144	145	146	147	148
Treatment Name								
Rate								
Unit								
1 No herbicide	19 a	19 a	21 a	25 a	19 a	21 a	14 a	17 a
2 Reflex 1 PT/A	12 ab	16 ab	12 b	14 b	11 ab	11 b	9 a	4 b
3 Reflex 2 PT/A	10 b	10 b	9 b	13 b	9 ab	3 bc	5 a	3 b
4 Reflex 2 PT/A Dual Magnum 12 OZ/A	13 ab	13 ab	5 b	5 c	6 b	0 c	0 a	0 b
LSD (P=.05)	7.0	6.9	7.4	7.7	10.2	9.4	13.8	10.5
Standard Deviation	4.4	4.3	4.7	4.8	6.4	5.9	8.6	6.6
CV	32.52	29.76	39.61	34.3	58.78	69.44	126.56	111.94
Bartlett's X2	7.186	5.474	3.43	10.177	4.569	6.017	0.094	1.315
P(Bartlett's X2)	0.066	0.14	0.33	0.017*	0.206	0.049*	0.954	0.518

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

University of Georgia

Weed Code	plant 9	plant 10	Avg10pla	harv 1	harv 1	harv 2	harv 2	harv 3	
Crop Code	red cab	red cab	red cab	tran sq	tran sq	tran sq	tran sq	tran sq	
Part Rated	left	left	left						
Rating Data Type	ht	ht	ht	#	wt/lb	#	wt/lb	#	
Rating Unit	cm	cm	cm	per plot	per plot	per plot	per plot	per plot	
Rating Date	Sep-20-07	Sep-20-07	Sep-20-07	Sep-11-07	Sep-11-07	Sep-14-07	Sep-14-07	Sep-17-07	
Assessed By									
Trt-Eval Interval	206 DA-A	206 DA-A	206 DA-A	197 DA-A	197 DA-A	200 DA-A	200 DA-A	203 DA-A	
ARM Action Codes			T11						
Trt Treatment	Rate								
No. Name	Rate Unit	149	150	151	165	166	167	168	169
1 No herbicide		14 a	6 a	17 a	3 a	0 a	3 a	1 a	6 a
2 Reflex	1 PT/A	0 b	0 a	9 b	1 b	0 b	2 a	0 a	4 a
3 Reflex	2 PT/A	0 b	0 a	6 b	1 ab	0 b	3 a	0 a	4 a
4 Reflex	2 PT/A	0 b	0 a	4 b	0 b	0 b	3 a	0 a	3 a
Dual Magnum	12 OZ/A								
LSD (P=.05)		8.4	6.0	4.9	2.2	0.3	2.7	0.6	3.9
Standard Deviation		5.3	3.8	3.1	1.4	0.2	1.7	0.3	2.4
CV		153.19	274.54	33.69	109.95	116.91	70.48	93.09	57.1
Bartlett's X2		0.0	0.0	2.481	5.514	9.263	2.399	4.187	5.461
P(Bartlett's X2)		.	.	0.479	0.138	0.026*	0.494	0.242	0.141

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

Column 139: T11 = @AVG([C141].[C150])

University of Georgia

Weed Code	harv 3	harv 4	harv 4	harv 5	harv 5	harv 6	harv 6	harv 7	
Crop Code	tran sq	tran sq	tran sq	tran sq	tran sq	tran sq	tran sq	tran sq	
Part Rated									
Rating Data Type	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb	#	
Rating Unit	per plot	per plot	per plot	per plot	per plot	per plot	per plot	per plot	
Rating Date	Sep-17-07	Sep-19-07	Sep-19-07	Sep-21-07	Sep-21-07	Sep-24-07	Sep-24-07	Sep-26-07	
Assessed By									
Trt-Eval Interval	203 DA-A	205 DA-A	205 DA-A	207 DA-A	207 DA-A	210 DA-A	210 DA-A	212 DA-A	
ARM Action Codes									
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate	
Unit									
170		171	172	173	174	175	176	177	
1	No herbicide	1 a	3 a	1 a	9 a	2 a	9 a	2 a	7 a
2	Reflex 1 PT/A	1 a	4 a	1 a	8 a	1 ab	12 a	2 a	12 a
3	Reflex 2 PT/A	0 a	4 a	0 a	6 a	1 b	11 a	2 a	11 a
4	Reflex 2 PT/A Dual Magnum 12 OZ/A	0 a	3 a	0 a	7 a	1 ab	10 a	2 a	9 a
LSD (P=.05)	0.7	2.1	0.3	2.6	0.6	4.3	1.3	5.5	
Standard Deviation	0.4	1.3	0.2	1.6	0.4	2.7	0.8	3.4	
CV	68.01	41.03	32.77	22.13	30.15	25.97	35.76	36.3	
Bartlett's X2	7.958	0.95	1.597	1.731	2.504	2.98	9.558	0.055	
P(Bartlett's X2)	0.047*	0.813	0.66	0.63	0.475	0.225	0.023*	0.997	

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

University of Georgia

Weed Code	harv 7 tran sq	harv 8 tran sq	harv 8 tran sq	harv 9 tran sq	harv 9 tran sq	harv 10 tran sq	harv 10 tran sq	harv 11 tran sq
Crop Code								
Part Rated								
Rating Data Type	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb	#
Rating Unit	per plot	per plot	per plot	per plot	per plot	per plot	per plot	per plot
Rating Date	Sep-26-07	Sep-28-07	Sep-28-07	Oct-01-07	Oct-01-07	Oct-03-07	Oct-03-07	Oct-05-07
Assessed By								
Trt-Eval Interval	212 DA-A	214 DA-A	214 DA-A	217 DA-A	217 DA-A	219 DA-A	219 DA-A	221 DA-A
ARM Action Codes								
Trt Treatment								
No. Name								
Rate Unit	178	179	180	181	182	183	184	185
1 No herbicide	2 a	11 a	1 a	12 a	2 a	9 a	1 b	12 a
2 Reflex 1 PT/A	2 a	11 a	1 a	14 a	2 a	11 a	1 a	13 a
3 Reflex 2 PT/A	2 a	9 a	1 a	15 a	2 a	11 a	1 a	12 a
4 Reflex 2 PT/A Dual Magnum 12 OZ/A	2 a	10 a	1 a	15 a	2 a	12 a	1 a	10 a
LSD (P=.05)	1.4	4.0	0.5	5.3	0.8	3.7	0.5	4.0
Standard Deviation	0.9	2.5	0.3	3.3	0.5	2.3	0.3	2.5
CV	51.16	25.12	30.11	23.44	26.75	21.51	27.07	21.41
Bartlett's X2	0.932	0.498	2.012	0.5	1.452	5.44	1.245	2.631
P(Bartlett's X2)	0.818	0.919	0.57	0.919	0.693	0.142	0.742	0.452

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

University of Georgia

Weed Code	harv 11 tran sq	harv 12 tran sq	harv 12 tran sq	harv 13 tran sq	harv 13 tran sq	harv 14 tran sq	harv 14 tran sq	harv 15 tran sq	harv 15 tran sq
Crop Code									
Part Rated									
Rating Data Type	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb
Rating Unit	per plot	per plot	per plot	per plot	per plot	per plot	per plot	per plot	per plot
Rating Date	Oct-05-07	Oct-08-07	Oct-08-07	Oct-10-07	Oct-10-07	Oct-12-07	Oct-12-07	Oct-15-07	Oct-15-07
Assessed By									
Trt-Eval Interval	221 DA-A	224 DA-A	224 DA-A	226 DA-A	226 DA-A	228 DA-A	228 DA-A	231 DA-A	231 DA-A
ARM Action Codes									
Trt Treatment									
Rate									
No. Name Rate Unit	186	187	188	189	190	191	192	193	194
1 No herbicide	1 a	21 a	3 a	13 a	1 a	14 a	1 a	19 a	3 a
2 Reflex 1 PT/A	2 a	17 a	4 a	15 a	2 a	10 a	1 a	22 a	3 a
3 Reflex 2 PT/A	2 a	19 a	4 a	12 a	2 a	11 a	1 a	21 a	3 a
4 Reflex 2 PT/A Dual Magnum 12 OZ/A	2 a	15 a	3 a	15 a	2 a	17 a	2 a	21 a	3 a
LSD (P=.05)	1.1	6.8	2.2	6.2	1.0	8.1	0.9	10.1	1.5
Standard Deviation	0.7	4.3	1.4	3.8	0.7	5.1	0.5	6.3	0.9
CV	38.23	23.73	36.61	27.73	33.67	39.72	41.88	30.45	32.77
Bartlett's X2	1.556	3.183	2.271	6.299	2.68	6.075	1.441	1.268	3.439
P(Bartlett's X2)	0.669	0.364	0.518	0.098	0.444	0.108	0.696	0.737	0.329

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

University of Georgia

Weed Code	harv 16	harv 16	harv 1-4	harv 1-4	harv1-8	harv 1-8	harv1-16	harv1-16
Crop Code	tran sq	tran sq	tran sq	tran sq	tran sq	tran sq	tran sq	tran sq
Part Rated								
Rating Data Type	#	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb
Rating Unit	per plot	per plot	per plot	per plot	per plot	per plot	per plot	per plot
Rating Date	Oct-19-07	Oct-19-07	Nov-30-07	Nov-30-07	Nov-30-07	Nov-30-07	Nov-30-07	Nov-30-07
Assessed By								
Trt-Eval Interval	235 DA-A	235 DA-A						
ARM Action Codes			T12	T13	T14	T15	T16	T17
Trt Treatment	Rate							
No. Name	Rate Unit	195	196	197	198	199	200	201
1 No herbicide	8 a	2 a	15 a	3 a	50 a	9 a	158 a	24 a
2 Reflex	1 PT/A	13 a	3 a	10 a	1 b	52 a	8 a	166 a
3 Reflex	2 PT/A	13 a	3 a	12 a	1 b	48 a	7 a	162 a
4 Reflex	2 PT/A	13 a	3 a	8 a	1 b	43 a	7 a	161 a
Dual Magnum	12 OZ/A							
LSD (P=.05)	6.7	1.7	6.9	1.1	11.0	2.5	33.4	6.2
Standard Deviation	4.2	1.1	4.3	0.7	6.9	1.5	20.9	3.9
CV	36.01	37.22	38.74	43.57	14.28	19.5	12.91	15.15
Bartlett's X2	4.376	2.544	3.38	5.671	0.91	1.54	5.854	1.876
P(Bartlett's X2)	0.224	0.467	0.337	0.129	0.823	0.673	0.119	0.599

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

Column 172: T12 = ([C165]+[C167]+[C169]+[C171])

Column 173: T13 = ([C166]+[C168]+[C170]+[C172])

Column 174: T14 = ([C197]+[C173]+[C175]+[C177]+[C179])

Column 175: T15 = ([C198]+[C174]+[C176]+[C178]+[C180])

Column 176: T16 = ([C199]+[C181]+[C183]+[C185]+[C187]+[C189]+[C191]+[C193]+[C195])

Column 177: T17 = ([C200]+[C182]+[C184]+[C186]+[C188]+[C190]+[C192]+[C194]+[C196])

University of Georgia

Weed Code	harv 1	harv 1	harv 2	harv 2	harv 3	harv 3	harv 4	harv 4		
Crop Code	tran cu	tran cu	tran cu	tran cu	tran cu	tran cu	tran cu	tran cu		
Part Rated										
Rating Data Type	#	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb		
Rating Unit	per plot	per plot	per plot	per plot	per plot	per plot	per plot	per plot		
Rating Date	Sep-21-07	Sep-21-07	Sep-24-07	Sep-24-07	Sep-26-07	Sep-26-07	Sep-28-07	Sep-28-07		
Assessed By										
Trt-Eval Interval	207 DA-A	207 DA-A	210 DA-A	210 DA-A	212 DA-A	212 DA-A	214 DA-A	214 DA-A		
ARM Action Codes										
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate		
Unit										
204			205		206		207			
							208			
								209		
								210		
								211		
1	No herbicide	3 a	1 a	3 a	1 a	1 a	0 a	3 a	1 a	
2	Reflex	1 PT/A	2 ab	1 ab	5 a	2 a	3 a	1 a	4 a	1 a
3	Reflex	2 PT/A	1 b	0 b	3 a	1 a	2 a	1 a	2 a	1 a
4	Reflex Dual Magnum	2 PT/A 12 OZ/A	1 b	0 b	2 a	1 a	3 a	1 a	2 a	1 a
LSD (P=.05)		1.6	0.7	3.9	1.4	2.4	0.9	2.3	0.8	
Standard Deviation		1.0	0.4	2.5	0.9	1.5	0.5	1.4	0.5	
CV		71.71	74.64	87.14	82.36	64.56	65.26	53.44	63.27	
Bartlett's X2		3.246	4.717	1.712	0.668	5.278	2.742	1.452	0.017	
P(Bartlett's X2)		0.355	0.194	0.634	0.881	0.153	0.433	0.693	0.999	

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

University of Georgia

Weed Code	harv 5	harv 5	harv 6	harv 6	harv 7	harv 7	harv 8	harv 8	harv 9	
Crop Code	tran cu	tran cu	tran cu	tran cu	tran cu	tran cu	tran cu	tran cu	tran cu	
Part Rated										
Rating Data Type	#	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb	#	
Rating Unit	per plot	per plot	per plot	per plot	per plot	per plot	per plot	per plot	per plot	
Rating Date	Oct-01-07	Oct-01-07	Oct-03-07	Oct-03-07	Oct-05-07	Oct-05-07	Oct-08-07	Oct-08-07	Oct-10-07	
Assessed By										
Trt-Eval Interval	217 DA-A	217 DA-A	219 DA-A	219 DA-A	221 DA-A	221 DA-A	224 DA-A	224 DA-A	226 DA-A	
ARM Action Codes										
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	
		Unit								
		212	213	214	215	216	217	218	219	220
1	No herbicide	6 a	2 a	5 a	1 a	5 a	2 a	12 a	6 a	4 a
2	Reflex 1 PT/A	3 a	1 a	5 a	2 a	5 a	2 a	8 ab	4 ab	6 a
3	Reflex 2 PT/A	4 a	1 a	2 a	1 a	3 a	1 a	6 b	3 b	5 a
4	Reflex 2 PT/A Dual Magnum 12 OZ/A	2 a	1 a	3 a	1 a	4 a	1 a	7 b	3 b	4 a
LSD (P=.05)		3.5	1.8	3.6	1.0	4.0	1.4	4.0	1.8	3.0
Standard Deviation		2.2	1.1	2.3	0.6	2.5	0.9	2.5	1.1	1.9
CV		59.66	91.62	58.82	57.97	60.61	55.41	30.96	28.84	41.69
Bartlett's X2		5.552	9.332	0.823	0.264	1.233	1.808	3.735	1.47	5.933
P(Bartlett's X2)		0.136	0.025*	0.844	0.967	0.745	0.613	0.292	0.689	0.115

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

University of Georgia

Weed Code	harv 9 tran cu	harv 10 tran cu	harv 10 tran cu	harv 11 tran cu	harv 11 tran cu	harv 12 tran cu	harv 12 tran cu	harv1-4 tran cu
Part Rated								
Rating Data Type	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb	#
Rating Unit	per plot	per plot	per plot	per plot	per plot	per plot	per plot	per plot
Rating Date	Oct-10-07	Oct-12-07	Oct-12-07	Oct-15-07	Oct-15-07	Oct-19-07	Oct-19-07	Nov-30-07
Assessed By								
Trt-Eval Interval	226 DA-A	228 DA-A	228 DA-A	231 DA-A	231 DA-A	235 DA-A	235 DA-A	
ARM Action Codes								T18
Trt Treatment								
No. Name Rate Unit	221	222	223	224	225	226	227	228
1 No herbicide	1 a	3 a	1 a	4 a	2 a	11 a	5 a	9 ab
2 Reflex 1 PT/A	3 a	2 a	1 a	4 a	1 a	12 a	5 a	13 a
3 Reflex 2 PT/A	2 a	4 a	1 a	3 a	1 a	9 a	4 a	7 b
4 Reflex 2 PT/A Dual Magnum 12 OZ/A	1 a	4 a	1 a	4 a	2 a	8 a	4 a	7 b
LSD (P=.05)	1.5	3.7	1.4	3.7	1.9	4.1	2.8	4.2
Standard Deviation	0.9	2.3	0.9	2.3	1.2	2.6	1.7	2.6
CV	50.36	78.26	96.25	65.2	73.49	26.09	38.55	28.26
Bartlett's X2	10.166	0.32	1.633	4.755	2.467	0.154	0.458	1.25
P(Bartlett's X2)	0.017*	0.956	0.652	0.191	0.481	0.985	0.928	0.741

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

Column 202: T18 = ([C204]+[C206]+[C208]+[C210])

University of Georgia

Weed Code	harv1-4	harv1-8	harv1-8	harv1-12	harv1-12	harv 1	harv 1	harv 1
Crop Code	tran cu	tran cu	tran cu	tran cu	tran cu	seed col	seed col	tran col
Part Rated								
Rating Data Type	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb	#
Rating Unit	per plot	per plot	per plot	per plot	per plot	per plot	per plot	per plot
Rating Date	Nov-30-07	Nov-30-07	Nov-30-07	Nov-30-07	Nov-30-07	Oct-23-07	Oct-23-07	Oct-23-07
Assessed By								
Trt-Eval Interval						217 DA-A	217 DA-A	239 DA-A
ARM Action Codes	T19	T20	T21	T22	T23			
Trt Treatment	Rate							
No. Name	Rate Unit	229	230	231	232	233	235	238
1 No herbicide		4 ab	37 a	13 a	58 a	22 a	16 a	8 a
2 Reflex	1 PT/A	4 a	34 a	11 ab	57 a	21 ab	10 b	5 b
3 Reflex	2 PT/A	2 b	22 b	7 c	42 b	15 b	7 b	4 b
4 Reflex	2 PT/A	2 b	24 b	7 bc	42 b	15 b	7 b	5 b
Dual Magnum	12 OZ/A							2 c
LSD (P=.05)		1.6	7.8	3.9	12.1	6.0	3.8	2.4
Standard Deviation		1.0	4.9	2.4	7.6	3.8	2.4	1.5
CV		30.54	16.74	25.6	15.18	20.67	25.15	27.72
Bartlett's X2		1.768	0.367	0.625	1.239	1.28	4.973	6.836
P(Bartlett's X2)		0.622	0.947	0.891	0.744	0.734	0.174	0.077

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

Column 203: T19 = ([C205]+[C207]+[C209]+[C211])

Column 204: T20 = ([C228]+[C212]+[C214]+[C216]+[C218])

Column 205: T21 = ([C229]+[C213]+[C215]+[C217]+[C219])

Column 206: T22 = ([C230]+[C220]+[C222]+[C224]+[C226])

Column 207: T23 = ([C231]+[C221]+[C223]+[C225]+[C227])

University of Georgia

Weed Code	harv 1 tran col	harv 1 broccoli fruit	harv 1 broccoli fruit	biomass broccoli	biomass broccoli	harv 1 cabbage	harv 1 cabbage	harv 2 cabbage
Part Rated								
Rating Data Type	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb	#
Rating Unit	per plot	per plot	per plot	per plot	per plot	per plot	per plot	per plot
Rating Date	Oct-23-07	Oct-26-07	Oct-26-07	Oct-26-07	Oct-26-07	Nov-06-07	Nov-06-07	Nov-14-07
Assessed By								
Trt-Eval Interval	239 DA-A	239 DA-A	239 DA-A	239 DA-A	239 DA-A	242 DA-A	242 DA-A	253 DA-A
ARM Action Codes								
Trt No.	239	241	242	244	245	247	248	249
Treatment Name								
Rate								
Unit								
1 No herbicide	32 a	9 a	4 a	10 a	18 a	4 a	11 a	2 a
2 Reflex 1 PT/A	10 b	3 b	1 b	5 b	4 b	2 b	6 b	0 ab
3 Reflex 2 PT/A	2 c	0 c	0 b	3 bc	0 b	0 c	0 c	1 ab
4 Reflex 2 PT/A Dual Magnum 12 OZ/A	0 c	0 c	0 b	1 c	1 b	0 c	0 c	0 b
LSD (P=.05)	3.9	2.4	1.1	3.2	5.1	0.7	3.7	1.3
Standard Deviation	2.5	1.5	0.7	2.0	3.2	0.4	2.3	0.8
CV	22.63	50.19	53.03	44.48	55.92	27.22	56.55	127.89
Bartlett's X2	20.942	2.966	0.747	10.631	20.268	0.0	0.912	2.899
P(Bartlett's X2)	0.001*	0.085	0.387	0.014*	0.001*	.	0.34	0.235

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

University of Georgia

Weed Code	harv 2	harv 1-2	harv1- 2	harv 1	harv 1	harv 2	harv 2	harv 1-2
Crop Code	cabbage	cabbage	cabbage	red cab	red cab	red cab	red cab	red cab
Part Rated								
Rating Data Type	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb	#
Rating Unit	per plot	per plot	per plot	per plot	per plot	per plot	per plot	per plot
Rating Date	Nov-14-07	Nov-30-07	Nov-30-07	Nov-06-07	Nov-06-07	Nov-14-07	Nov-14-07	Nov-30-07
Assessed By								
Trt-Eval Interval	253 DA-A			253 DA-A	253 DA-A	261 DA-A	261 DA-A	
ARM Action Codes		T24	T25					T26
Trt Treatment								
Rate								
No. Name	250	251	252	254	255	256	257	258
1 No herbicide	2 a	6 a	13 a	4 a	8 a	8 a	15 a	12 a
2 Reflex 1 PT/A	0 a	2 b	6 b	3 ab	7 a	3 b	5 b	6 b
3 Reflex 2 PT/A	1 a	1 c	1 c	1 b	2 b	1 b	1 b	2 c
4 Reflex 2 PT/A Dual Magnum 12 OZ/A	0 a	0 c	0 c	1 b	1 b	2 b	3 b	3 c
LSD (P=.05)	2.1	1.4	3.8	2.1	4.5	2.9	5.3	2.3
Standard Deviation	1.3	0.9	2.4	1.3	2.8	1.8	3.3	1.5
CV	136.69	42.24	47.31	59.14	61.83	55.23	56.36	26.77
Bartlett's X2	4.021	2.899	0.901	0.155	2.736	4.712	5.601	1.876
P(Bartlett's X2)	0.134	0.235	0.637	0.984	0.434	0.194	0.133	0.598

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

Column 220: T24 = ([C247]+[C249])

Column 221: T25 = ([C248]+[C250])

Column 226: T26 = ([C254]+[C256])

University of Georgia

Weed Code	harv 1-2
Crop Code	red cab
Part Rated	
Rating Data Type	wt/lb
Rating Unit	per plot
Rating Date	Nov-30-07
Assessed By	
Trt-Eval Interval	
ARM Action Codes	T27
Trt Treatment	Rate
No. Name	Rate Unit
	259
1 No herbicide	23 a
2 Reflex 1 PT/A	11 b
3 Reflex 2 PT/A	3 c
4 Reflex 2 PT/A	4 c
Dual Magnum 12 OZ/A	
LSD (P=.05)	3.9
Standard Deviation	2.5
CV	23.59
Bartlett's X2	3.984
P(Bartlett's X2)	0.263

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

Column 227: T27 = ([C255]+[C257])

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Cucumber, squash, sweet corn, and cole crops planted in the fall after
applying Reflex under mulch in the spring.

Trial ID: Veg14B-07

Study Dir.: Stanley Culpepper

Location: Ponder Farm

Investigator: Stanley Culpepper

GENERAL TRIAL INFORMATION

Study Director: Stanley Culpepper
Affiliation: Univ. of Georgia
Postal Code: 31794

Title: Ext. Weed Science

Investigator: Stanley Culpepper
Affiliation: Univ. of Georgia
Postal Code: 31794

Title: Ext. Weed Science

TRIAL LOCATION

City: TyTy **Trial Status:** Completed
State/Prov.: GA **Trial Reliability:** excellent
Postal Code: 31795 **Initiation Date:** Feb-26-07
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.	.		

Crop 1: SOLME eggplant **Variety:** Santana
Planting Date: Mar-19-07 **Planting Method:** transplanted
Rate: 1 per 20 in **Depth:** 1.5 in **Perennial Age:** _____
Row Spacing: 6 feet **Spacing Within Row:** 20 inch **Seed Bed:** mulched
Soil Temperature: 77 F **Soil Moisture:** drip **Emergence Date:** _____

Crop 2: LYPES tomato **Variety:** Amelia
Planting Date: Mar-19-07 **Planting Method:** transplanted
Rate: 1 per 20 in **Depth:** 1.5 in **Perennial Age:** _____
Row Spacing: 6 feet **Spacing Within Row:** 20 inch **Seed Bed:** mulched
Soil Temperature: 77 F **Soil Moisture:** drip **Emergence Date:** _____

Crop 3: CUMSA cucumber **Variety:** Conquistador
Planting Date: Mar-19-07 **Planting Method:** transplant
Rate: 1 12 inch **Depth:** 1.5 in **Perennial Age:** _____
Row Spacing: 6 feet **Spacing Within Row:** 12 inch **Seed Bed:** mulched
Soil Temperature: 77 F **Soil Moisture:** drip **Emergence Date:** _____

University of Georgia

Crop 4: CPSAN bell pepper **Variety:** Hertiage
Planting Date: Mar-19-07 **Planting Method:** transplant
Rate: 1 12 inch **Depth:** 1.5 in **Perennial Age:** ____ ____
Row Spacing: 6 feet **Spacing Within Row:** 12 inch **Seed Bed:** mulched
Soil Temperature: 77 F **Soil Moisture:** drip **Emergence Date:** _____

Crop 5: BRSOL red cabbage **Variety:** Scarlett
Planting Date: Aug-20-07 **Planting Method:** transplant
Rate: 1 12 inch **Depth:** 1.5 IN **Perennial Age:** ____ ____
Row Spacing: 20 inch **Spacing Within Row:** 12 inch **Seed Bed:** mulched
Soil Temperature: 104 F **Soil Moisture:** wet **Emergence Date:** _____

Crop 6: BRSOA collard **Variety:** Top Bunch
Planting Date: Aug-20-07 **Planting Method:** transplant
Rate: 1 12 inch **Depth:** 1.5 IN **Perennial Age:** ____ ____
Row Spacing: 20 inch **Spacing Within Row:** 12 inch **Seed Bed:** mulched
Soil Temperature: 104 F **Soil Moisture:** wet **Emergence Date:** _____

Crop 7: BRSOA collard **Variety:** Top Bunch
Planting Date: Aug-20-07 **Planting Method:** seeded
Rate: 1 12 inch **Depth:** 0.5 IN **Perennial Age:** ____ ____
Row Spacing: 20 inch **Spacing Within Row:** 12 inch **Seed Bed:** mulched
Soil Temperature: 104 F **Soil Moisture:** wet **Emergence Date:** Aug-25-07

Crop 8: BRSOK broccli **Variety:** Green Magic
Planting Date: Aug-20-07 **Planting Method:** transplant
Rate: 1 12 inch **Depth:** 1.5 IN **Perennial Age:** ____ ____
Row Spacing: 20 inch **Spacing Within Row:** 12 inch **Seed Bed:** mulched
Soil Temperature: 104 F **Soil Moisture:** wet **Emergence Date:** _____

Crop 9: BRSOL cabbage **Variety:** Bravo
Planting Date: Aug-20-07 **Planting Method:** transplant
Rate: 1 12 inch **Depth:** 1.5 IN **Perennial Age:** ____ ____
Row Spacing: 20 inch **Spacing Within Row:** 12 inch **Seed Bed:** mulched
Soil Temperature: 104 F **Soil Moisture:** wet **Emergence Date:** _____

Crop 10: CUUPE squash **Variety:** Prelude II
Planting Date: Aug-20-07 **Planting Method:** transplant
Rate: 1 12 inch **Depth:** 1.5 IN **Perennial Age:** ____ ____
Row Spacing: 20 inch **Spacing Within Row:** 12 inch **Seed Bed:** mulched
Soil Temperature: 104 F **Soil Moisture:** wet **Emergence Date:** _____

Crop 11: CUUPE squash **Variety:** Prelude II
Planting Date: Aug-20-07 **Planting Method:** seeded
Rate: 1 12 inch **Depth:** 0.5 IN **Perennial Age:** ____ ____
Row Spacing: 20 inch **Spacing Within Row:** 12 inch **Seed Bed:** mulched
Soil Temperature: 104 F **Soil Moisture:** wet **Emergence Date:** Aug-25-07

Crop 12: CUMSA cucumber **Variety:** Thunder
Planting Date: Aug-20-07 **Planting Method:** transplant
Rate: 1 12 inch **Depth:** 1.5 IN **Perennial Age:** ____ ____
Row Spacing: 20 inch **Spacing Within Row:** 12 inch **Seed Bed:** mulched
Soil Temperature: 104 F **Soil Moisture:** wet **Emergence Date:** _____

Crop 13: CUMSA cucumber **Variety:** Thunder
Planting Date: Aug-20-07 **Planting Method:** seeded
Rate: 1 12 inch **Depth:** 0.5 IN **Perennial Age:** ____ ____
Row Spacing: 20 inch **Spacing Within Row:** 12 inch **Seed Bed:** mulched
Soil Temperature: 104 F **Soil Moisture:** wet **Emergence Date:** Aug-25-07

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Crop 14: ZEAMS corn **Variety:** SuperSweet numbered
Planting Date: Aug-20-07 **Planting Method:** seeded
Rate: 1 12inch **Depth:** 0.5 in **Perennial Age:** ____ ____
Row Spacing: 20 inch **Spacing Within Row:** 12 inch **Seed Bed:** mulched
Soil Temperature: 104 F **Soil Moisture:** wet **Emergence Date:** Aug-25-07

SITE AND DESIGN

Plot Width, Unit: 6 FT **Plot Length, Unit:** 80 FT **Reps:** 4
Site Type: Ponder Farm Research Farm
Tillage Type: Conventional **Study Design:** RANDOMIZED COMPLETE BLOCK

Trial Initiation Comments:

	Previous Crops	Previous Pesticides	Year
1.			

MAINTENANCE

Field Prep./Maintenance:

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

SOIL DESCRIPTION

% Sand: 94 **% OM:** 1.3 **Texture:** sand
% Silt: 2 **pH:** 6.4 **Soil Name:** Tifton sandy loam
% Clay: 4 **CEC:** _____ **Fert. Level:** _____

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions: drip irrigation

Closest Weather Station: _____ **Distance:** _____ **Unit:** ____

APPLICATION DESCRIPTION

	A
Application Date:	Feb-26-07
Time of Day:	2 pm
Application Method:	broadcast
Application Timing:	preplant
Applic. Placement:	und-mulch
Air Temp., Unit:	70 F
% Relative Humidity:	40
Wind Velocity, Unit:	3 mph
Dew Presence (Y/N):	n
Water Hardness:	
Soil Temp., Unit:	66 F
Soil Moisture:	moist
% Cloud Cover:	20

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CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	SOLME preplant
Stage Scale:	not up
Height, Unit:	0 inch
Crop 2 Code, Stage:	LYPES preplant
Stage Scale:	not up
Height, Unit:	0 inch
Crop 3 Code, Stage:	CUMSA preplant
Stage Scale:	not up
Height, Unit:	0 inch
Crop 4 Code, Stage:	CPSAN preplant
Stage Scale:	not up
Height, Unit:	0 inch
Crop 5 Code, Stage:	BRSOL preplant
Stage Scale:	not up
Height, Unit:	0 inch
Crop 6 Code, Stage:	BRSOA preplant
Stage Scale:	not up
Height, Unit:	0 inch
Crop 7 Code, Stage:	BRSOA preplant
Stage Scale:	not up
Height, Unit:	0 inch
Crop 8 Code, Stage:	BRSOK preplant
Stage Scale:	not up
Height, Unit:	0 inch
Crop 9 Code, Stage:	BRSOL preplant
Stage Scale:	not up
Height, Unit:	0 inch
Crop10 Code, Stage:	CUUPE preplant
Stage Scale:	not up
Height, Unit:	0 inch
Crop11 Code, Stage:	CUUPE preplant
Stage Scale:	not up
Height, Unit:	0 inch
Crop12 Code, Stage:	CUMSA preplant
Stage Scale:	not up
Height, Unit:	0 inch
Crop13 Code, Stage:	CUMSA preplant
Stage Scale:	not up
Height, Unit:	0 inch
Crop14 Code, Stage:	ZEAMS preplant
Stage Scale:	not up
Height, Unit:	0 inch

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	. .
Stage Scale:	.
Density, Unit:	. .

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APPLICATION EQUIPMENT

	A
Appl. Equipment:	superbedd
Operating Pressure:	28
Nozzle Type:	flat fan
Nozzle Size:	11002
Nozzle Spacing, Unit:	12 inch
Nozzles/Row:	6
Band Width, Unit:	
Boom Length, Unit:	6 feet
Boom Height, Unit:	12 inch
Ground Speed, Unit:	3 mph
Incorporation Equip.:	
Hours to Incorp.:	
Incorp. Depth, Unit:	
Carrier:	water
Spray Volume, Unit:	24 GPA
Spray pH:	
Propellant:	CO2
Tank Mix (Y/N):	Y

Trt No	Treatment Application Comment