



# University of Georgia

## Tomato Response:

1. No visual chlorosis was noted from any treatment.
2. Plant heights were made 3 times during the season to determine stunting. When measuring 10 plants per plot, there was an initial stunting in growth with V-10142 applied under the mulch. This may be explained by exceptional activation which provided better than normal nutsedge control.

## Broccoli Response:

### A. First Planting (2 months after preplant):

1. At 40 d after planting visual stunting greater than 10% was noted with V-10142 at 0.3 lb and with Reflex.
2. Plant heights (8 plants per plot) also noted shorter plants with V-10142 at 0.3 lb and with Reflex at 45 DAP.
3. By 65 DAP, no impact on plant height was noted.
4. Yield was not impacted.

### B. Second Planting (3 months after preplant)

1. Injury was still detectable with all systems especially V-10142 at 0.3 lb and Reflex.
2. Plant heights were somewhat variable but a tendency for shorter plants were noted with Reflex and most V-10142 treatments at 1 month after planting. No differences were noted at 3 months after planting.
3. A tendency for less yield was noted with all preplant V-10142 treatments as well as all Sandea treatments.

## CONCLUSIONS:

1. Plots need to be larger to distinguish between such subtle difference.

# University of Georgia

Tomato tolerance to V-10142 and V-10142's impact on the following broccoli crop.

Trial ID: Veg33-08

Study Dir.: Stanley Culpepper

Location: Ponder Farm

Investigator: Stanley Culpepper

Weed Code	CYPES	CYPES	CYPES	CYPES	LYPES	LYPES	LYPES	LYPES				
Crop Code												
Rating Data Type	control	control	counts	counts	chlorosis	chlorosis	1	2				
Rating Unit	%	%	pla/plot	pla/plot	%	%	cm	cm				
Rating Date	Sep-24-08	Oct-21-08	Sep-25-08	Oct-13-08	Sep-24-08	Oct-21-08	Sep-25-08	Sep-25-08				
Trt-Eval Interval	15 DA-A	42 DA-A	16 DA-A	34 DA-A	15 DA-A	42 DA-A	16 DA-A	16 DA-A				
ARM Action Codes												
Trt No.	Treatment Name	Rate	Rate	Unit	1	2	3	4	6	7	9	10
1	V-10142	0.15 LB A/A	60 c	64 cd	35 bcd	52 b	0 a	0 a	26 b	27 abc		
2	V-10142	0.225 LB A/A	74 ab	77 abc	25 d	21 d	0 a	0 a	25 b	28 abc		
3	V-10142	0.3 LB A/A	82 a	78 abc	33 bcd	24 cd	0 a	0 a	25 b	25 c		
4	V-10142 NIS	0.2 LB A/A 0.25 % V/V	0 d	58 d	57 a	61 b	0 a	0 a	28 ab	30 a		
5	V-10142 NIS	0.3 LB A/A 0.25 % V/V	0 d	73 a-d	50 abc	56 b	0 a	0 a	28 ab	30 a		
6	V-10142 NIS	0.4 LB A/A 0.25 % V/V	0 d	70 bcd	50 abc	49 b	0 a	0 a	29 ab	30 ab		
7	V-10142 V-10142 NIS	0.15 LB A/A 0.2 LB A/A 0.25 % V/V	61 c	79 abc	34 bcd	27 cd	0 a	0 a	26 b	25 bc		
8	V-10142 V-10142 NIS	0.225 LB A/A 0.3 LB A/A 0.25 % V/V	70 b	88 a	36 bcd	25 cd	0 a	0 a	27 b	28 abc		
9	Dual Sanda	16 OZ/A 0.75 OZ/A	73 b	78 abc	31 cd	27 cd	0 a	0 a	28 ab	27 abc		
10	Sanda Reflex	0.75 OZ/A 16 OZ/A	71 b	70 bcd	28 d	32 cd	0 a	0 a	29 ab	31 a		
11	Dual Sanda	16 OZ/A 0.75 OZ/A	0 d	84 ab	40 a-d	35 c	0 a	0 a	34 a	28 abc		
12	Non-treated		0 d	0 e	53 ab	94 a	0 a	0 a	29 ab	29 abc		
LSD (P=.05)			7.8	15.0	18.0	12.2	0.0	0.0	6.1	4.2		
Standard Deviation			5.4	10.4	12.5	8.5	0.0	0.0	4.2	2.9		
CV			13.3	15.29	31.82	20.23	0.0	0.0	15.27	10.31		
Bartlett's X2			2.186	4.798	5.129	5.802	0.0	0.0	19.53	8.789		
P(Bartlett's X2)			0.902	0.904	0.925	0.886	.	.	0.052	0.641		

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

## University of Georgia

Weed Code		LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES		
Crop Code		3	4	5	6	7	8	9	10		
Rating Data Type		cm	cm	cm	cm	cm	cm	cm	cm		
Rating Unit		Sep-25-08	Sep-25-08	Sep-25-08	Sep-25-08	Sep-25-08	Sep-25-08	Sep-25-08	Sep-25-08		
Rating Date		16 DA-A	16 DA-A	16 DA-A	16 DA-A	16 DA-A	16 DA-A	16 DA-A	16 DA-A		
Trt-Eval Interval											
ARM Action Codes											
Trt No.	Treatment Name	Rate	Unit	11	12	13	14	15	16	17	18
1	V-10142	0.15	LB A/A	26 bc	25 a	25 ab	24 d	26 ab	21 b	27 bcd	25 cd
2	V-10142	0.225	LB A/A	27 bc	28 a	28 ab	26 cd	29 ab	29 ab	29 a-d	25 d
3	V-10142	0.3	LB A/A	24 c	27 a	24 b	27 bcd	25 b	27 ab	27 cd	29 a-d
4	V-10142 NIS	0.2 0.25	LB A/A % V/V	28 abc	29 a	27 ab	29 abc	27 ab	20 b	32 ab	29 a-d
5	V-10142 NIS	0.3 0.25	LB A/A % V/V	34 a	30 a	28 ab	30 abc	28 ab	29 ab	31 abc	31 a
6	V-10142 NIS	0.4 0.25	LB A/A % V/V	28 abc	29 a	31 a	30 abc	31 a	32 a	32 a	30 abc
7	V-10142 V-10142 NIS	0.15 0.2 0.25	LB A/A LB A/A % V/V	27 bc	26 a	28 ab	24 d	28 ab	26 ab	26 d	26 bcd
8	V-10142 V-10142 NIS	0.225 0.3 0.25	LB A/A LB A/A % V/V	27 bc	27 a	26 ab	26 cd	27 ab	24 ab	26 d	27 a-d
9	Dual Sanda	16 0.75	OZ/A OZ/A	28 abc	29 a	30 ab	32 a	30 ab	30 ab	29 a-d	29 a-d
10	Sanda Reflex	0.75 16	OZ/A OZ/A	31 ab	30 a	30 ab	28 bcd	30 ab	32 a	30 a-d	31 ab
11	Dual Sanda	16 0.75	OZ/A OZ/A	29 abc	22 a	29 ab	29 abc	29 ab	28 ab	29 a-d	30 a-d
12	Non-treated			30 abc	27 a	30 ab	31 ab	27 ab	27 ab	28 a-d	26 bcd
LSD (P=.05)				5.1	7.6	5.4	3.7	5.2	8.7	4.3	4.5
Standard Deviation				3.5	5.3	3.7	2.6	3.6	6.0	3.0	3.1
CV				12.61	19.38	13.42	9.3	12.87	22.41	10.45	11.03
Bartlett's X2				18.234	37.464	26.662	9.64	12.552	35.447	12.846	14.525
P(Bartlett's X2)				0.076	0.001*	0.005*	0.563	0.324	0.001*	0.304	0.205

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

## University of Georgia

Weed Code	AVG10PLA	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Crop Code	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES
Rating Data Type	height	1	2	3	4	5	6	7	
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm	
Rating Date	Sep-25-08	Sep-30-08	Sep-30-08	Sep-30-08	Sep-30-08	Sep-30-08	Sep-30-08	Sep-30-08	
Trt-Eval Interval	16 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A	
ARM Action Codes	T1								
Trt Treatment	Rate	19	21	22	23	24	25	26	27
No. Name	Rate Unit								
1 V-10142	0.15 LB A/A	25 e	35 a	36 ab	37 a	33 a	34 b	34 ab	32 a
2 V-10142	0.225 LB A/A	27 b-e	35 a	38 a	36 a	39 a	40 a	38 ab	39 a
3 V-10142	0.3 LB A/A	26 de	36 a	35 ab	35 a	33 a	34 b	36 ab	35 a
4 V-10142	0.2 LB A/A	28 a-d	36 a	38 a	37 a	36 a	34 b	35 ab	35 a
NIS	0.25 % V/V								
5 V-10142	0.3 LB A/A	30 a	37 a	37 ab	39 a	35 a	36 ab	35 ab	36 a
NIS	0.25 % V/V								
6 V-10142	0.4 LB A/A	30 a	35 a	38 a	37 a	38 a	38 ab	38 ab	37 a
NIS	0.25 % V/V								
7 V-10142	0.15 LB A/A	26 cde	34 a	36 ab	33 a	37 a	38 ab	36 ab	37 a
V-10142	0.2 LB A/A								
NIS	0.25 % V/V								
8 V-10142	0.225 LB A/A	26 cde	36 a	37 ab	37 a	38 a	36 ab	37 ab	36 a
V-10142	0.3 LB A/A								
NIS	0.25 % V/V								
9 Dual	16 OZ/A	29 ab	36 a	34 ab	37 a	35 a	35 ab	37 ab	36 a
Sandea	0.75 OZ/A								
10 Sandea	0.75 OZ/A	30 a	37 a	38 a	39 a	36 a	37 ab	38 ab	35 a
Reflex	16 OZ/A								
11 Dual	16 OZ/A	28 abc	32 a	33 b	34 a	37 a	37 ab	34 b	34 a
Sandea	0.75 OZ/A								
12 Non-treated		28 a-d	36 a	37 ab	37 a	36 a	37 ab	40 a	36 a
LSD (P=.05)		2.3	5.2	4.0	5.9	5.5	4.2	4.8	5.7
Standard Deviation		1.6	3.6	2.8	4.1	3.8	2.9	3.3	3.9
CV		5.83	10.25	7.73	11.2	10.66	8.06	9.08	11.12
Bartlett's X2		16.253	4.473	6.441	19.174	24.234	21.242	6.498	17.0
P(Bartlett's X2)		0.132	0.954	0.842	0.058	0.012*	0.031*	0.838	0.108

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

Column 17: T1 = @AVG([C9].[C18])

## University of Georgia

Weed Code		LYPES	LYPES	LYPES	AVG10PLA	LYPES	LYPES	LYPES	LYPES
Crop Code		8	9	10	height	1	2	3	4
Rating Data Type		cm	cm	cm	cm				
Rating Unit		Sep-30-08	Sep-30-08	Sep-30-08	Sep-30-08	Oct-13-08	Oct-13-08	Oct-13-08	Oct-13-08
Rating Date		21 DA-A	21 DA-A	21 DA-A	21 DA-A	34 DA-A	34 DA-A	34 DA-A	34 DA-A
Trt-Eval Interval					T2				
ARM Action Codes									
Trt Treatment	Rate								
No. Name	Rate Unit	28	29	30	31	33	34	35	36
1 V-10142	0.15 LB A/A	34 a	35 a	36 a	34 c	70 a	56 b	63 a	67 a
2 V-10142	0.225 LB A/A	40 a	35 a	37 a	38 a	68 a	66 a	68 a	63 a
3 V-10142	0.3 LB A/A	36 a	36 a	38 a	35 abc	69 a	65 a	66 a	64 a
4 V-10142	0.2 LB A/A	28 a	33 a	36 a	35 bc	68 a	71 a	72 a	70 a
NIS	0.25 % V/V								
5 V-10142	0.3 LB A/A	36 a	36 a	38 a	36 abc	69 a	70 a	68 a	70 a
NIS	0.25 % V/V								
6 V-10142	0.4 LB A/A	37 a	39 a	37 a	37 ab	72 a	69 a	70 a	65 a
NIS	0.25 % V/V								
7 V-10142	0.15 LB A/A	39 a	36 a	35 a	36 abc	64 a	70 a	65 a	67 a
V-10142	0.2 LB A/A								
NIS	0.25 % V/V								
8 V-10142	0.225 LB A/A	35 a	36 a	37 a	36 abc	67 a	63 ab	65 a	64 a
V-10142	0.3 LB A/A								
NIS	0.25 % V/V								
9 Dual	16 OZ/A	37 a	36 a	38 a	36 abc	62 a	66 a	69 a	63 a
Sandea	0.75 OZ/A								
10 Sandea	0.75 OZ/A	33 a	36 a	37 a	36 abc	64 a	67 a	67 a	70 a
Reflex	16 OZ/A								
11 Dual	16 OZ/A	35 a	36 a	35 a	35 c	64 a	67 a	68 a	67 a
Sandea	0.75 OZ/A								
12 Non-treated		36 a	35 a	36 a	36 abc	67 a	65 a	66 a	66 a
LSD (P=.05)		9.9	5.7	5.3	2.3	8.5	7.9	9.3	6.8
Standard Deviation		6.8	4.0	3.6	1.6	5.9	5.5	6.4	4.7
CV		19.29	11.09	9.95	4.42	8.82	8.24	9.55	7.14
Bartlett's X2		41.853	13.455	11.799	9.38	14.173	12.964	15.728	5.648
P(Bartlett's X2)		0.001*	0.265	0.379	0.587	0.224	0.296	0.152	0.896

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

Column 28: T2 = @AVG([C21].[C30])

## University of Georgia

Weed Code		LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	AVG10PLA	Plantin1		
Crop Code		5	6	7	8	9	10	LYPES	BRSOK		
Rating Data Type								height	injury		
Rating Unit								cm	%		
Rating Date		Oct-13-08	Oct-13-08	Oct-13-08	Oct-13-08	Oct-13-08	Oct-13-08	Oct-13-08	Nov-15-08		
Trt-Eval Interval		34 DA-A	34 DA-A	34 DA-A	34 DA-A	34 DA-A	34 DA-A	34 DA-A	67 DA-A		
ARM Action Codes								T3			
Trt No.	Treatment Name	Rate	Unit	37	38	39	40	41	42	43	45
1	V-10142	0.15	LB A/A	63 a	65 a	65 ab	63 ab	74 a	66 a	65 a	8 bc
2	V-10142	0.225	LB A/A	69 a	68 a	66 ab	64 ab	69 ab	69 a	67 a	8 bc
3	V-10142	0.3	LB A/A	68 a	59 a	67 ab	65 ab	63 ab	72 a	66 a	8 bc
4	V-10142 NIS	0.2 0.25	LB A/A % V/V	66 a	67 a	67 ab	59 b	65 ab	65 a	67 a	3 de
5	V-10142 NIS	0.3 0.25	LB A/A % V/V	68 a	61 a	68 ab	66 ab	66 ab	72 a	68 a	1 de
6	V-10142 NIS	0.4 0.25	LB A/A % V/V	68 a	67 a	68 ab	72 a	68 ab	69 a	69 a	0 e
7	V-10142 V-10142 NIS	0.15 0.2 0.25	LB A/A LB A/A % V/V	66 a	69 a	66 ab	69 ab	68 ab	63 a	67 a	5 cd
8	V-10142 V-10142 NIS	0.225 0.3 0.25	LB A/A LB A/A % V/V	68 a	59 a	71 a	63 ab	64 ab	63 a	64 a	8 bc
9	Dual Sanda	16 0.75	OZ/A OZ/A	63 a	60 a	61 b	60 b	70 ab	62 a	63 a	10 b
10	Sanda Reflex	0.75 16	OZ/A OZ/A	63 a	65 a	64 ab	63 ab	62 b	63 a	65 a	15 a
11	Dual Sanda	16 0.75	OZ/A OZ/A	68 a	69 a	67 ab	63 ab	62 b	65 a	66 a	0 e
12	Non-treated			65 a	66 a	66 ab	64 ab	68 ab	68 a	66 a	0 e
LSD (P=.05)				7.4	9.9	7.3	10.1	9.5	9.8	4.4	4.0
Standard Deviation				5.1	6.9	5.0	7.0	6.6	6.8	3.1	2.8
CV				7.73	10.64	7.58	10.9	9.9	10.28	4.66	52.02
Bartlett's X2				11.797	11.234	12.491	13.615	11.07	13.56	11.286	2.726
P(Bartlett's X2)				0.379	0.424	0.328	0.255	0.437	0.258	0.42	0.909

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

Column 39: T3 = @AVG([C33].[C42])

## University of Georgia

Weed Code	Plantin1 BRSOK	Plantin2 BRSOK	Plantin2 BRSOK	BRSOK	BRSOK	BRSOK	BRSOK	BRSOK			
Crop Code	injury	injury	injury	1st plant	1st plant	1st plant	1st plant	1st plant			
Rating Data Type	%	%	%	1-ht	2-ht	3-ht	4-ht	5-ht			
Rating Unit	%	%	%	1-ht	2-ht	3-ht	4-ht	5-ht			
Rating Date	Dec-09-08	Dec-09-08	Jan-19-09	Dec-15-08	Dec-15-08	Dec-15-08	Dec-15-08	Dec-15-08			
Trt-Eval Interval	91 DA-A	91 DA-A	132 DA-A	97 DA-A	97 DA-A	97 DA-A	97 DA-A	97 DA-A			
ARM Action Codes											
Trt No.	Treatment Name	Rate	Rate Unit	46	48	49	51	52	53	54	55
1	V-10142	0.15	LB A/A	4 bc	0 a	3 de	18 ab	17 a	17 ab	19 a	17 a
2	V-10142	0.225	LB A/A	9 bc	0 a	10 ab	17 ab	17 a	16 bc	17 a	14 a
3	V-10142	0.3	LB A/A	13 b	0 a	11 ab	17 ab	13 a	16 bc	15 a	15 a
4	V-10142 NIS	0.2 0.25	LB A/A % V/V	3 c	0 a	4 cde	16 ab	15 a	16 bc	19 a	18 a
5	V-10142 NIS	0.3 0.25	LB A/A % V/V	6 bc	0 a	4 cde	18 ab	18 a	19 ab	17 a	15 a
6	V-10142 NIS	0.4 0.25	LB A/A % V/V	3 c	0 a	5 cde	20 a	18 a	18 ab	18 a	16 a
7	V-10142 V-10142 NIS	0.15 0.2 0.25	LB A/A LB A/A % V/V	8 bc	0 a	8 bcd	18 ab	16 a	17 ab	16 a	16 a
8	V-10142 V-10142 NIS	0.225 0.3 0.25	LB A/A LB A/A % V/V	6 bc	0 a	9 bc	12 b	16 a	16 bc	17 a	15 a
9	Dual Sanda	16 0.75	OZ/A OZ/A	9 bc	0 a	4 cde	18 ab	14 a	17 ab	17 a	15 a
10	Sanda Reflex	0.75 16	OZ/A OZ/A	30 a	0 a	14 a	15 ab	16 a	13 c	6 b	15 a
11	Dual Sanda	16 0.75	OZ/A OZ/A	0 c	0 a	3 de	19 ab	18 a	20 a	19 a	18 a
12	Non-treated			0 c	0 a	0 e	17 ab	17 a	18 ab	19 a	19 a
LSD (P=.05)				7.7	0.0	4.5	6.1	6.1	3.5	5.0	4.6
Standard Deviation				5.3	0.0	3.1	4.2	4.2	2.4	3.4	3.2
CV				71.74	0.0	51.1	24.86	26.09	14.36	20.94	20.09
Bartlett's X2				8.51	0.0	3.935	9.49	17.371	7.805	26.388	22.601
P(Bartlett's X2)				0.484	.	0.916	0.577	0.067	0.731	0.006*	0.02*

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



## University of Georgia

Weed Code		BRSOK	BRSOK	BRSOK	AVG8PLAN	BRSOK	BRSOK	BRSOK	BRSOK		
Crop Code		1st plant	1st plant	1st plant	BRSOK	Planting1	Planting1	Planting1	Planting1		
Rating Data Type		6-ht	7-ht	8-ht	1stplanting	1-HEIGHT	2-HEIGHT	3-HEIGHT	4-HEIGHT		
Rating Unit					ht (cm)						
Rating Date		Dec-15-08	Dec-15-08	Dec-15-08	Dec-15-08	Jan-06-09	Jan-06-09	Jan-06-09	Jan-06-09		
Trt-Eval Interval		97 DA-A	97 DA-A	97 DA-A	97 DA-A	119 DA-A	119 DA-A	119 DA-A	119 DA-A		
ARM Action Codes					T4						
Trt No.	Treatment Name	Rate	Unit								
				56	57	58	59	61	62	63	64
1	V-10142	0.15	LB A/A	13 a	13 a	16 ab	16 ab	18 b	20 a	19 ab	19 abc
2	V-10142	0.225	LB A/A	14 a	15 a	17 ab	16 bc	19 ab	18 a	22 ab	23 ab
3	V-10142	0.3	LB A/A	12 a	12 a	12 b	14 cd	19 ab	18 a	18 b	18 bc
4	V-10142 NIS	0.2 0.25	LB A/A % V/V	15 a	16 a	14 ab	16 ab	18 b	20 a	21 ab	21 abc
5	V-10142 NIS	0.3 0.25	LB A/A % V/V	12 a	15 a	16 ab	16 ab	21 ab	22 a	19 ab	22 abc
6	V-10142 NIS	0.4 0.25	LB A/A % V/V	14 a	13 a	19 a	17 ab	18 b	20 a	22 ab	21 abc
7	V-10142 V-10142 NIS	0.15 0.2 0.25	LB A/A LB A/A % V/V	15 a	14 a	17 ab	16 ab	19 ab	20 a	20 ab	21 abc
8	V-10142 V-10142 NIS	0.225 0.3 0.25	LB A/A LB A/A % V/V	15 a	14 a	15 ab	15 bc	19 ab	23 a	20 ab	24 a
9	Dual Sanda	16 0.75	OZ/A OZ/A	13 a	12 a	16 ab	15 bc	22 ab	20 a	20 ab	21 abc
10	Sanda Reflex	0.75 16	OZ/A OZ/A	12 a	13 a	15 ab	13 d	21 ab	20 a	19 ab	19 abc
11	Dual Sanda	16 0.75	OZ/A OZ/A	14 a	16 a	19 a	18 a	23 a	23 a	18 b	17 c
12	Non-treated			15 a	14 a	13 b	16 ab	24 a	24 a	24 a	21 abc
LSD (P=.05)				4.6	4.0	4.4	1.6	4.4	5.6	4.6	4.3
Standard Deviation				3.2	2.8	3.1	1.1	3.0	3.9	3.2	3.0
CV				23.89	20.18	19.67	7.19	15.08	18.86	15.82	14.53
Bartlett's X2				4.889	8.251	4.063	12.221	8.356	13.366	5.497	9.705
P(Bartlett's X2)				0.936	0.691	0.968	0.347	0.681	0.27	0.905	0.557

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

Column 52: T4 = @AVG([C51].[C58])

## University of Georgia

Weed Code		BRSOK	BRSOK	BRSOK	BRSOK	AVG8PLAN	BRSOK	BRSOK	BRSOK
Crop Code		Planting1	Planting1	Planting1	Planting1	BRSOK	Planting2	Planting2	Planting2
Rating Data Type		5-HEIGHT	6-HEIGHT	7-HEIGHT	8-HEIGHT	Planting1	1-HEIGHT	2-HEIGHT	3-HEIGHT
Rating Unit		5-HEIGHT	6-HEIGHT	7-HEIGHT	8-HEIGHT	ht (cm)	1-HEIGHT	2-HEIGHT	3-HEIGHT
Rating Date		Jan-06-09	Jan-06-09	Jan-06-09	Jan-06-09	Jan-06-09	Jan-06-09	Jan-06-09	Jan-06-09
Trt-Eval Interval		119 DA-A	119 DA-A	119 DA-A	119 DA-A	119 DA-A	119 DA-A	119 DA-A	119 DA-A
ARM Action Codes						T7			
Trt Treatment	Rate								
No. Name	Rate Unit	65	66	67	68	69	71	72	73
1 V-10142	0.15 LB A/A	18 ab	21 ab	20 a	20 a	19 b	6 b	8 a	7 cd
2 V-10142	0.225 LB A/A	17 b	20 ab	22 a	15 a	19 ab	8 ab	8 a	8 a-d
3 V-10142	0.3 LB A/A	20 ab	20 ab	19 a	18 a	19 b	8 ab	7 a	8 bcd
4 V-10142	0.2 LB A/A	21 ab	16 b	16 ab	18 a	19 b	7 ab	7 a	7 d
NIS	0.25 % V/V								
5 V-10142	0.3 LB A/A	21 ab	22 a	19 a	17 a	20 ab	8 ab	8 a	8 a-d
NIS	0.25 % V/V								
6 V-10142	0.4 LB A/A	21 ab	19 ab	19 a	18 a	20 ab	8 ab	8 a	7 cd
NIS	0.25 % V/V								
7 V-10142	0.15 LB A/A	21 ab	22 a	21 a	18 a	20 ab	8 ab	7 a	8 bcd
V-10142	0.2 LB A/A								
NIS	0.25 % V/V								
8 V-10142	0.225 LB A/A	24 a	23 a	22 a	11 a	20 ab	7 ab	8 a	8 bcd
V-10142	0.3 LB A/A								
NIS	0.25 % V/V								
9 Dual	16 OZ/A	21 ab	21 a	11 b	10 a	18 b	9 ab	9 a	9 abc
Sandea	0.75 OZ/A								
10 Sandea	0.75 OZ/A	19 ab	20 ab	19 a	20 a	19 ab	7 ab	8 a	8 a-d
Reflex	16 OZ/A								
11 Dual	16 OZ/A	17 b	22 a	20 a	20 a	20 ab	7 ab	9 a	10 ab
Sandea	0.75 OZ/A								
12 Non-treated		21 ab	23 a	23 a	19 a	22 a	10 a	9 a	10 a
LSD (P=.05)		5.2	5.0	7.1	8.9	2.7	2.8	2.3	1.8
Standard Deviation		3.6	3.5	4.9	6.2	1.9	2.0	1.6	1.3
CV		18.06	17.03	25.51	36.5	9.48	25.57	19.9	15.74
Bartlett's X2		8.152	4.745	26.878	31.717	8.756	29.703	14.578	23.023
P(Bartlett's X2)		0.70	0.943	0.005*	0.001*	0.644	0.002*	0.203	0.018*

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

Column 61: T7 = @AVG([C61].[C68])

# University of Georgia

Weed Code		BRSOK	BRSOK	BRSOK	BRSOK	BRSOK	AVG8PLAN	BRSOK	BRSOK		
Crop Code		Planting2	Planting2	Planting2	Planting2	Planting2	BRSOK	Planting2	Planting2		
Rating Data Type		4-HEIGHT	5-HEIGHT	6-HEIGHT	7-HEIGHT	8-HEIGHT	Planting2	1-HEIGHT	2-HEIGHT		
Rating Unit		4-HEIGHT	5-HEIGHT	6-HEIGHT	7-HEIGHT	8-HEIGHT	Ht (cm)	1-HEIGHT	2-HEIGHT		
Rating Date		Jan-06-09	Jan-06-09	Jan-06-09	Jan-06-09	Jan-06-09	Jan-06-09	Mar-17-09	Mar-17-09		
Trt-Eval Interval		119 DA-A	119 DA-A	119 DA-A	119 DA-A	119 DA-A	119 DA-A	189 DA-A	189 DA-A		
ARM Action Codes							T8				
Trt No.	Treatment Name	Rate	Unit	74	75	76	77	78	79	81	82
1	V-10142	0.15	LB A/A	7 ab	7 ab	7 cd	8 c	7 b	7 bc	36 a	39 a
2	V-10142	0.225	LB A/A	8 ab	7 ab	7 cd	7 c	8 b	8 bc	33 a	36 a
3	V-10142	0.3	LB A/A	7 ab	5 b	7 cd	7 c	6 b	7 c	36 a	36 a
4	V-10142 NIS	0.2 0.25	LB A/A % V/V	7 ab	7 ab	8 bcd	7 c	8 b	7 bc	42 a	39 a
5	V-10142 NIS	0.3 0.25	LB A/A % V/V	8 ab	8 a	7 cd	7 c	8 b	8 bc	43 a	37 a
6	V-10142 NIS	0.4 0.25	LB A/A % V/V	8 ab	8 a	8 bcd	8 c	7 b	8 bc	43 a	36 a
7	V-10142 V-10142 NIS	0.15 0.2 0.25	LB A/A LB A/A % V/V	7 b	7 ab	6 d	8 bc	8 b	7 bc	34 a	22 b
8	V-10142 V-10142 NIS	0.225 0.3 0.25	LB A/A LB A/A % V/V	8 ab	9 a	8 bcd	9 bc	8 b	8 b	35 a	37 a
9	Dual Sanda	16 0.75	OZ/A OZ/A	9 ab	9 a	10 abc	10 ab	9 ab	9 a	32 a	34 ab
10	Sanda Reflex	0.75 16	OZ/A OZ/A	8 ab	8 a	9 a-d	8 bc	9 ab	8 b	38 a	32 ab
11	Dual Sanda	16 0.75	OZ/A OZ/A	9 ab	9 a	11 a	9 bc	9 ab	9 a	38 a	38 a
12	Non-treated			10 a	8 a	10 ab	11 a	11 a	10 a	39 a	38 a
LSD (P=.05)				2.1	2.3	2.4	1.6	2.8	0.9	10.1	12.7
Standard Deviation				1.5	1.6	1.6	1.1	1.9	0.6	7.0	8.8
CV				18.14	21.5	20.26	14.1	24.21	7.91	18.84	25.14
Bartlett's X2				18.571	21.253	19.08	9.07	25.276	15.663	18.866	11.951
P(Bartlett's X2)				0.069	0.031*	0.06	0.431	0.008*	0.154	0.064	0.367

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

Column 70: T8 = @AVG([C71].[C78])

## University of Georgia

Weed Code		BRSOK	BRSOK	BRSOK	BRSOK	BRSOK	BRSOK	AVG8PLAN	HAR1
Crop Code		BRSOK	BRSOK	BRSOK	BRSOK	BRSOK	BRSOK	BRSOK	BRSOK
Rating Data Type		Planting2	Planting2	Planting2	Planting2	Planting2	Planting2	Planting2	Planting1
Rating Unit		3-HEIGHT	4-HEIGHT	5-HEIGHT	6-HEIGHT	7-HEIGHT	8-HEIGHT	ht (cm)	# PLANTS
Rating Date		Mar-17-09	Mar-17-09	Mar-17-09	Mar-17-09	Mar-17-09	Mar-17-09	Mar-17-09	Jan-23-09
Trt-Eval Interval		189 DA-A	189 DA-A	189 DA-A	189 DA-A	189 DA-A	189 DA-A	189 DA-A	136 DA-A
ARM Action Codes								T9	
Trt Treatment	Rate								
No. Name	Rate Unit	83	84	85	86	87	88	89	91
1 V-10142	0.15 LB A/A	38 a	30 a	31 a	43 a	39 a	44 ab	37 a	7 ab
2 V-10142	0.225 LB A/A	39 a	41 a	34 a	36 ab	39 a	42 ab	37 a	6 abc
3 V-10142	0.3 LB A/A	37 a	30 a	38 a	43 a	41 a	37 ab	37 a	6 abc
4 V-10142	0.2 LB A/A	35 a	39 a	34 a	27 b	34 ab	36 ab	36 a	7 a
NIS	0.25 % V/V								
5 V-10142	0.3 LB A/A	36 a	37 a	37 a	38 ab	39 a	37 ab	38 a	7 abc
NIS	0.25 % V/V								
6 V-10142	0.4 LB A/A	39 a	39 a	40 a	40 ab	39 a	44 ab	40 a	7 a
NIS	0.25 % V/V								
7 V-10142	0.15 LB A/A	23 b	32 a	33 a	10 c	24 b	31 b	26 b	6 abc
V-10142	0.2 LB A/A								
NIS	0.25 % V/V								
8 V-10142	0.225 LB A/A	37 a	37 a	34 a	36 ab	40 a	37 ab	36 a	6 abc
V-10142	0.3 LB A/A								
NIS	0.25 % V/V								
9 Dual	16 OZ/A	34 a	32 a	32 a	39 ab	36 ab	35 ab	34 a	5 bc
Sandea	0.75 OZ/A								
10 Sandea	0.75 OZ/A	38 a	40 a	36 a	30 ab	39 a	39 ab	36 a	4 c
Reflex	16 OZ/A								
11 Dual	16 OZ/A	35 a	35 a	45 a	36 ab	41 a	48 a	38 a	6 abc
Sandea	0.75 OZ/A								
12 Non-treated		38 a	35 a	33 a	41 a	35 ab	42 ab	37 a	5 abc
LSD (P=.05)		10.7	11.4	12.9	11.8	12.9	11.8	7.6	2.0
Standard Deviation		7.4	7.9	8.9	8.2	9.0	8.2	5.2	1.4
CV		20.78	22.23	25.15	23.56	24.22	20.81	14.49	24.06
Bartlett's X2		25.08	19.866	15.628	26.75	22.693	12.788	20.016	16.324
P(Bartlett's X2)		0.009*	0.047*	0.156	0.005*	0.02*	0.307	0.045*	0.13

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

Column 79: T9 = @AVG([C81].[C88])

## University of Georgia

Weed Code	HAR1 BRSOK	HAR2 BRSOK	HAR2 BRSOK	HAR1-2 BRSOK	HAR1-2 BRSOK	HAR1 BRSOK	HAR1 BRSOK			
Crop Code	Planting1	Planting1	Planting1	Planting1	Planting1	Planting2	Planting2			
Rating Data Type	WEIGHT	# PLANTS	WEIGHT	#heads	wt (lbs)	#heads	wt (lbs)			
Rating Unit										
Rating Date	Jan-23-09	Jan-30-09	Jan-30-09	Jan-30-09	Jan-30-09	Mar-17-09	Mar-17-09			
Trt-Eval Interval	136 DA-A	143 DA-A	143 DA-A	143 DA-A	143 DA-A	189 DA-A	189 DA-A			
ARM Action Codes				T5	T6					
Trt No.	Treatment Name	Rate	Unit	92	93	94	96	97	99	100
1	V-10142	0.15	LB A/A	1 a-d	1 bc	1 ab	8 a	2 ab	7 abc	6 abc
2	V-10142	0.225	LB A/A	1 bcd	1 bc	0 ab	7 a	1 b	7 ab	5 bc
3	V-10142	0.3	LB A/A	1 a-d	2 abc	1 ab	7 a	2 ab	7 ab	6 bc
4	V-10142 NIS	0.2 0.25	LB A/A % V/V	2 abc	1 bc	0 ab	8 a	2 ab	7 bc	5 c
5	V-10142 NIS	0.3 0.25	LB A/A % V/V	2 a	1 bc	0 ab	8 a	2 a	8 a	7 ab
6	V-10142 NIS	0.4 0.25	LB A/A % V/V	2 ab	0 c	0 b	7 a	2 ab	8 a	8 a
7	V-10142 V-10142 NIS	0.15 0.2 0.25	LB A/A LB A/A % V/V	1 cd	2 abc	1 ab	8 a	1 b	7 abc	6 abc
8	V-10142 V-10142 NIS	0.225 0.3 0.25	LB A/A LB A/A % V/V	1 d	2 abc	1 ab	8 a	2 ab	8 a	5 bc
9	Dual Sandea	16 0.75	OZ/A OZ/A	1 d	4 a	1 a	8 a	2 ab	8 a	4 c
10	Sandea Reflex	0.75 16	OZ/A OZ/A	1 d	3 ab	1 a	7 a	2 ab	6 c	4 c
11	Dual Sandea	16 0.75	OZ/A OZ/A	1 d	2 abc	1 ab	7 a	1 b	7 abc	5 bc
12	Non-treated			1 bcd	3 ab	1 ab	8 a	2 ab	8 a	6 abc
LSD (P=.05)				0.7	1.9	0.7	1.6	0.8	1.1	2.0
Standard Deviation				0.5	1.3	0.5	1.1	0.5	0.7	1.4
CV				39.01	78.69	84.5	14.49	30.76	10.12	24.82
Bartlett's X2				17.459	11.897	16.437	15.623	20.287	6.785	12.132
P(Bartlett's X2)				0.095	0.371	0.126	0.075	0.042*	0.66	0.354

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

Column 84: T5 = [C91]+[C93]

Column 85: T6 = [C92]+[C94]



# University of Georgia

### SITE AND DESIGN

Plot Width, Unit: 6 FT Plot Length, Unit: 25 FT Reps: 4  
 Site Type: Ponder 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: 92      % OM: 1.3      Texture: sand  
 % Silt: 3      pH: 6.4      Soil Name: Tifton sandy loam  
 % Clay: 5      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: Ponder Research Farm

Distance: 200 Unit: yd

### APPLICATION DESCRIPTION

	A	B
Application Date:	Sep-09-08	Sep-24-08
Time of Day:	10 am	8 am
Application Method:	banded	broadcast
Application Timing:	preplant	POST
Applic. Placement:	un mulch	overtop
Air Temp., Unit:	78 F	60 F
% Relative Humidity:	44	45
Wind Velocity, Unit:	4 mph	2 mph
Dew Presence (Y/N):	n	n
Water Hardness:		
Soil Temp., Unit:	80 F	65 F
Soil Moisture:	moist	moist
% Cloud Cover:	0	0

# University of Georgia

### CROP STAGE AT EACH APPLICATION

	A	B
<b>Crop 1 Code, Stage:</b>	LYPES preplant	LYPES POST
<b>Stage Scale:</b>	not up	12 leaf
<b>Height, Unit:</b>	0 inch	14 inch
<b>Crop 2 Code, Stage:</b>	BRSOK preplant	BRSOK preplant
<b>Stage Scale:</b>	not up	not up
<b>Height, Unit:</b>	0 inch	0 inch
<b>Crop 3 Code, Stage:</b>	BRSOK preplant	BRSOK preplant
<b>Stage Scale:</b>	not up	not up
<b>Height, Unit:</b>	0 inch	0 inch

### WEED STAGE AT EACH APPLICATION

	A	B
<b>Weed 1 Code, Stage:</b>	CYPES preplant	CYPES POST
<b>Stage Scale:</b>	not up	1-5lf, <6"
<b>Density, Unit:</b>	see data	see data

### APPLICATION EQUIPMENT

	A	B
<b>Appl. Equipment:</b>	super bed	backpack
<b>Operating Pressure:</b>	24	24
<b>Nozzle Type:</b>	flat fan	flat fan
<b>Nozzle Size:</b>	11002	11002
<b>Nozzle Spacing, Unit:</b>	8 inch	18 inch
<b>Nozzles/Row:</b>	5	4
<b>Band Width, Unit:</b>		
<b>Boom Length, Unit:</b>	5 feet	4.5 feet
<b>Boom Height, Unit:</b>	8 inch	15 inch
<b>Ground Speed, Unit:</b>	3 mph	3 mph
<b>Incorporation Equip.:</b>		
<b>Hours to Incorp.:</b>		
<b>Incorp. Depth, Unit:</b>		
<b>Carrier:</b>	water	water
<b>Spray Volume, Unit:</b>	25 GPA	14.8 GPA
<b>Spray pH:</b>		
<b>Propellant:</b>	CO2	CO2
<b>Tank Mix (Y/N):</b>	Y	Y

Trt No	Treatment Application Comment