

University of Georgia

Reps: 3

Plots: 6 by 20 feet

Spray vol: 14.8 gal/ac

Mix size: 1 liters (min .46301)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Grow Unit	Appl Stg	Code	Amt Product to Measure	Plot No. By Rep		
										1	2	3
12	PEPPER									112	215	314
	Dual	7.64		L	24	OZ/A	POST	B	12.67 ml/mx			
	Select Max	2		EC	24	OZ/A	POST	B	12.67 ml/mx			
	NIS			L	0.25	% V/V	POST	B	2.5 ml/mx			
13	PEPPPER									113	214	309
	WeatherMax	4.5		L	22	OZ/A	preplant	A	11.61 ml/mx			
	Dual	7.64		L	12	OZ/A	preplant	A	6.334 ml/mx			
	Command	3		L	2	PT/A	preplant	A	16.89 ml/mx			
14	PEPPPER									114	213	310
	WeatherMax	4.5		L	22	OZ/A	preplant	A	11.61 ml/mx			
	Dual	7.64		L	12	OZ/A	preplant	A	6.334 ml/mx			
	Reflex	2		L	1	PT/A	preplant	A	8.445 ml/mx			
15	PEPPER									115	212	313
	WeatherMax	4.5		L	22	OZ/A	preplant	A	11.61 ml/mx			
	Dual	7.64		L	12	OZ/A	preplant	A	6.334 ml/mx			
	Sandea	75		DF	0.75	OZ/A	preplant	A	0.3795 g/mx			
16	PEPPER									116	211	315
	WeatherMax	4.5		L	22	OZ/A	preplant	A	11.61 ml/mx			
	Dual	7.64		L	12	OZ/A	preplant	A	6.334 ml/mx			
	Sencor	75		DF	0.5	LB/A	preplant	A	4.048 g/mx			
17	PEPPER									117	210	312
	WeatherMax	4.5		L	22	OZ/A	preplant	A	11.61 ml/mx			
	Dual	7.64		L	12	OZ/A	preplant	A	6.334 ml/mx			
	Dual	7.64		L	12	OZ/A	POST	B	6.334 ml/mx			
18	PEPPER									118	209	317
	Non-treated											
	WeatherMax	4.5		L	22	OZ/A	preplant	A	11.61 ml/mx			
	Dual	7.64		L	24	OZ/A	POST	B	12.67 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
203.231	ml	WeatherMax	4.5	L	
205.870	ml	Dual	7.64	L	
31.373	g	Sencor	75	DF	
24.997	ml	NIS		L	
31.672	ml	Select Max	2	EC	
1.423	g	Sandea	75	DF	
31.669	ml	Reflex	2	L	
21.113	ml	Command	3	L	

* 'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 1 liters (mix size basis).

* Product amount calculations increased 25 % for overage adjustment.

* 'Per volume' calculations use spray volume= 14.8 gal/ac, mix size= 1 liters.

University of Georgia

Pepper and tomato weed management programs in bareground production.

Trial ID: Veg26-08
Location: Ponder farm

Study Dir.: Culpepper, Davis
Investigator: Stanley Culpepper

Trial Comments

OBJECTIVE: Managing weeds in bareground tomato and pepper.

VISUAL TOMATO AND PEPPER INJURY:

1. Tomato was only stunted greater than 5% when Dual was applied at 24 oz/A (2X rate). Tomato recovered from the early season stunting very rapidly.
2. Sencor, Sandea, and Reflex did not impact tomato injury.
3. Dual Magnum 12 oz/A preplant stunted pepper up to 12%.
4. Dual Magnum plus Sandea preplant stunted pepper up to 21%.
- 5 Sencor applied POST to pepper injured pepper up to 73%.

TOMATO AND PEPPER HEIGHTS (10 plants per plot):

1. Compared to the control, all treatments with Dual applied preplant reduced tomato heights during early Sept. Dual applied POST did not impact heights.
2. All treatments with Dual reduced Pepper plant heights in late August and early Sept.
3. Although the height data suggest herbicides reduced crop growth, the differences were actually in response to crops in the control trying to "outgrow" weeds in the control. Both the tomato and pepper plants in the control were leggy with less fruit allowing the plant to grower taller when compared to plots treated with herbicides.

TOMATO YIELD (entire plot harvested twice):

1. Few Jumbo and large tomato were presented in the non-treated control. Tomato from all herbicides systems had yields greater than the control.
2. The total post program had less Jumbo fruit but had a similar number of other fruit when compared to programs including preplant herbicide applications.
3. No differences were noted in programs including preplant residual herbicides.

PEPPER YIELD:

1. Weed control in the peppers was so bad, no plot could be harvested.

WEED RESPONSE:

Palmer amaranth:

1. Tomato: All programs including preplant residual herbicides provided excellent control. The POST application of Sencor and Select provided only fair late-season control.
2. Pepper: All programs including preplant residual herbicides (primarily Dual) provided excellent control. The POST application of Dual and Select provided only fair control as those plants that had already emerged prior to application were not controlled.

Texas Panicum:

1. Good to excellent control was noted with all herbicide systems. Dual provided better than expected control.

Nutsedge (mix of yellow and purple nutsedge):

1. Programs with Sandea POST provided excellent control.
2. Programs with Sandea PRE or Reflex PRE provided fair control. The combination of Reflex and Sandea provided excellent control.
3. Programs with Dual PRE provided suppression.

Pitted Morningglory:

1. Programs with Sencor POST 2 provided excellent control.
2. Programs including Reflex, Sandea, or Sencor preplant provided fair control.

GENERAL COMMENTS:

1. Tillage, bed preparation, and drip tape were implemented as if in normal plasticulture production.

University of Georgia

Pepper and tomato weed management programs in bareground production.

Trial ID: Veg26-08

Study Dir.: Culpepper, Davis

Location: Ponder farm

Investigator: Stanley Culpepper

Weed Code		CROP	CROP	CROP	AMAPA	AMAPA	PANTE	PANTE	CYPSS
Crop Code		INJURY	INJURY	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
Rating Data Type		%	%	%	%	%	%	%	%
Rating Unit									
Rating Date		Aug-29-08	Sep-25-08	Oct-09-08	Aug-29-08	Sep-25-08	Aug-29-08	Sep-25-08	Aug-29-08
Trt-Eval Interval		16 DA-A	42 DA-A	56 DA-A	16 DA-A	42 DA-A	16 DA-A	42 DA-A	16 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
1	TOMATO								
	WeatherMax	22 OZ/A			99 a	99 a	95 a	87 abc	40 cd
	Dual	12 OZ/A							
	Sencor	0.3 LB/A							
	NIS	0.25 % V/V							
2	TOMATO								
	WeatherMax	22 OZ/A	10 b	3 e	0 c	99 a	99 a	93 a	85 bc
	Dual	24 OZ/A							
	Sencor	0.3 LB/A							
	NIS	0.25 % V/V							
3	TOMATO								
	Non-treated		0 b	0 e	0 c	0 c	0 d	0 b	0 d
4	TOMATO								
	Dual	24 OZ/A	0 b	3 e	0 c	83 b	73 b	98 a	90 ab
	Sencor	0.3 LB/A							
	Select Max	24 OZ/A							
	NIS	0.25 % V/V							
5	TOMATO								
	WeatherMax	22 OZ/A	5 b	2 e	0 c	99 a	99 a	98 a	88 abc
	Dual	24 OZ/A							
	Sencor	0.5 LB/A							
	Sencor	0.3 LB/A							
	NIS	0.25 % V/V							
6	TOMATO								
	WeatherMax	22 OZ/A	8 b	2 e	0 c	99 a	99 a	95 a	86 abc
	Dual	24 OZ/A							
	Sandea	0.75 OZ/A							
	Sencor	0.3 LB/A							
	NIS	0.25 % V/V							
7	TOMATO								
	WeatherMax	22 OZ/A	8 b	7 de	0 c	99 a	99 a	95 a	88 abc
	Dual	24 OZ/A							
	Reflex	1 PT/A							
	Sencor	0.3 LB/A							
	NIS	0.25 % V/V							
8	TOMATO								
	WeatherMax	22 OZ/A	11 b	3 e	0 c	99 a	99 a	98 a	91 ab
	Dual	24 OZ/A							
	Reflex	1 PT/A							
	Sandea	0.75 OZ/A							
	Sencor	0.3 LB/A							
	NIS	0.25 % V/V							
9	PEPPPER								
	WeatherMax	22 OZ/A	3 b	3 e	0 c	99 a	94 a	95 a	88 abc
	Dual	12 OZ/A							

University of Georgia

Weed Code				AMAPA	AMAPA	PANTE	PANTE	CYPSS		
Crop Code		CROP	CROP							
Rating Data Type		INJURY	INJURY	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL		
Rating Unit		%	%	%	%	%	%	%		
Rating Date		Aug-29-08	Sep-25-08	Oct-09-08	Aug-29-08	Sep-25-08	Aug-29-08	Sep-25-08	Aug-29-08	
Trt-Eval Interval		16 DA-A	42 DA-A	56 DA-A	16 DA-A	42 DA-A	16 DA-A	42 DA-A	16 DA-A	
ARM Action Codes										
Trt No.	Treatment Name	Rate								
		Rate Unit	1	2	3	5	6	7	8	9
10	PEPPER WeatherMax Dual	22 OZ/A 24 OZ/A	7 b	0 e	0 c	99 a	98 a	98 a	88 abc	37 d
11	PEPPER Non-treated		0 b	0 e	0 c	0 c	0 d	0 b	0 d	0 e
12	PEPPER Dual Select Max NIS	24 OZ/A 24 OZ/A 0.25 % V/V	0 b	0 e	0 c	80 b	60 c	93 a	85 bc	37 d
13	PEPPPER WeatherMax Dual Command	22 OZ/A 12 OZ/A 2 PT/A	0 b	12 cd	0 c	99 a	96 a	98 a	87 abc	47 cd
14	PEPPPER WeatherMax Dual Reflex	22 OZ/A 12 OZ/A 1 PT/A	0 b	12 cd	0 c	99 a	99 a	98 a	92 a	73 ab
15	PEPPER WeatherMax Dual Sanda	22 OZ/A 12 OZ/A 0.75 OZ/A	10 b	21 b	19 b	99 a	99 a	98 a	85 bc	80 ab
16	PEPPER WeatherMax Dual Sencor	22 OZ/A 12 OZ/A 0.5 LB/A	67 a	73 a	57 a	99 a	91 a	98 a	83 c	50 c
17	PEPPER WeatherMax Dual Dual	22 OZ/A 12 OZ/A 12 OZ/A	6 b	8 cde	0 c	99 a	99 a	98 a	85 bc	47 cd
18	PEPPER Non-treated WeatherMax Dual	22 OZ/A 24 OZ/A	2 b	15 bc	0 c	99 a	99 a	92 a	85 bc	40 cd
LSD (P=.05)			12.0	7.1	3.1	9.7	11.8	5.3	5.2	10.0
Standard Deviation			7.2	4.3	1.9	5.8	7.1	3.2	3.1	6.0
CV			92.15	46.25	44.31	6.76	8.46	3.74	4.01	13.18
Bartlett's X2			17.416	11.839	0.027	0.153	10.675	15.262	3.233	4.639
P(Bartlett's X2)			0.066	0.541	0.869	0.695	0.058	0.433	0.987	0.969

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

University of Georgia

Weed Code	CYPSS	IPOLA	IPOLA	LYPES 1	LYPES 2	LYPES 3	LYPES 4	LYPES 5			
Crop Code											
Rating Data Type	CONTROL	CONTROL	CONTROL	LYPES 1	LYPES 2	LYPES 3	LYPES 4	LYPES 5			
Rating Unit	%	%	%	ht	ht	ht	ht	ht			
Rating Date	Sep-25-08	Aug-29-08	Sep-25-08	Aug-28-08	Aug-28-08	Aug-28-08	Aug-28-08	Aug-28-08			
Trt-Eval Interval	42 DA-A	16 DA-A	42 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A			
ARM Action Codes											
Trt No.	Treatment Name	Rate	Unit	10	11	12	14	15	16	17	18
12	PEPPER Dual Select Max NIS	24 24 0.25	OZ/A OZ/A % V/V	50 fg	40 e	37 f					
13	PEPPER WeatherMax Dual Command	22 12 2	OZ/A OZ/A PT/A	48 fg	63 c	72 c					
14	PEPPER WeatherMax Dual Reflex	22 12 1	OZ/A OZ/A PT/A	82 b	82 b	82 b					
15	PEPPER WeatherMax Dual Sanda	22 12 0.75	OZ/A OZ/A OZ/A	73 bc	75 b	72 c					
16	PEPPER WeatherMax Dual Sencor	22 12 0.5	OZ/A OZ/A LB/A	47 g	96 a	77 bc					
17	PEPPER WeatherMax Dual Dual	22 12 12	OZ/A OZ/A OZ/A	53 efg	53 d	60 d					
18	PEPPER Non-treated WeatherMax Dual	22 24	OZ/A OZ/A	47 g	38 e	45 ef					
LSD (P=.05)		8.4		8.4	7.6	9.0	5.3	6.7	9.5	7.1	6.4
Standard Deviation		5.0		5.0	4.6	5.4	3.0	3.8	5.4	4.0	3.6
CV		8.7		8.7	6.88	8.16	13.11	16.2	24.22	17.31	15.21
Bartlett's X2		15.603		15.603	6.035	17.93	5.398	12.682	11.273	7.12	6.815
P(Bartlett's X2)		0.338		0.338	0.979	0.16	0.611	0.08	0.127	0.416	0.448

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

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Weed Code	LYPES 6	LYPES 7	LYPES 8	LYPES 9	LYPES 10	AVG10PLa	LYPES 1	LYPES 2			
Crop Code	ht	ht	ht	ht	ht	ht	ht	ht			
Rating Data Type	cm	cm	cm	cm	cm	cm	cm	cm			
Rating Unit	Aug-28-08	Aug-28-08	Aug-28-08	Aug-28-08	Aug-28-08	Aug-28-08	Sep-04-08	Sep-04-08			
Rating Date	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	21 DA-A	21 DA-A			
Trt-Eval Interval	ARM Action Codes										
ARM Action Codes	T1										
Trt No.	Treatment Name	Rate	Unit	19	20	21	22	23	24	26	27
12	PEPPER										
	Dual	24	OZ/A								
	Select Max	24	OZ/A								
	NIS	0.25	% V/V								
13	PEPPER										
	WeatherMax	22	OZ/A								
	Dual	12	OZ/A								
	Command	2	PT/A								
14	PEPPER										
	WeatherMax	22	OZ/A								
	Dual	12	OZ/A								
	Reflex	1	PT/A								
15	PEPPER										
	WeatherMax	22	OZ/A								
	Dual	12	OZ/A								
	Sandea	0.75	OZ/A								
16	PEPPER										
	WeatherMax	22	OZ/A								
	Dual	12	OZ/A								
	Sencor	0.5	LB/A								
17	PEPPER										
	WeatherMax	22	OZ/A								
	Dual	12	OZ/A								
	Dual	12	OZ/A								
18	PEPPER										
	Non-treated										
	WeatherMax	22	OZ/A								
	Dual	24	OZ/A								
LSD (P=.05)	6.7	10.7	7.9	7.8	8.1	3.6	13.0	10.5			
Standard Deviation	3.8	6.1	4.5	4.4	4.7	2.1	7.4	6.0			
CV	17.42	28.48	20.67	19.33	21.07	9.12	21.98	17.33			
Bartlett's X2	15.735	19.743	12.409	15.392	9.807	11.218	2.295	9.52			
P(Bartlett's X2)	0.028*	0.006*	0.088	0.031*	0.20	0.129	0.942	0.217			

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

Column 22: T1 = @AVG([C14].[C23])

University of Georgia

Weed Code	LYPES 3	LYPES 4	LYPES 5	LYPES 6	LYPES 7	LYPES 8	LYPES 9	LYPES 10								
Crop Code	ht	ht	ht	ht	ht	ht	ht	ht								
Rating Data Type	cm	cm	cm	cm	cm	cm	cm	cm								
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm								
Rating Date	Sep-04-08	Sep-04-08	Sep-04-08	Sep-04-08	Sep-04-08	Sep-04-08	Sep-04-08	Sep-04-08								
Trt-Eval Interval	21 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																
Trt No.	Treatment Name	Rate	Unit	28	29	30	31	32	33	34	35					
12	PEPPER															
	Dual	24	OZ/A													
	Select Max	24	OZ/A													
	NIS	0.25	% V/V													
13	PEPPER															
	WeatherMax	22	OZ/A													
	Dual	12	OZ/A													
	Command	2	PT/A													
14	PEPPER															
	WeatherMax	22	OZ/A													
	Dual	12	OZ/A													
	Reflex	1	PT/A													
15	PEPPER															
	WeatherMax	22	OZ/A													
	Dual	12	OZ/A													
	Sandea	0.75	OZ/A													
16	PEPPER															
	WeatherMax	22	OZ/A													
	Dual	12	OZ/A													
	Sencor	0.5	LB/A													
17	PEPPER															
	WeatherMax	22	OZ/A													
	Dual	12	OZ/A													
	Dual	12	OZ/A													
18	PEPPER															
	Non-treated															
	WeatherMax	22	OZ/A													
	Dual	24	OZ/A													
LSD (P=.05)		10.1		10.1		8.0		10.3		10.4		15.0		9.7		8.7
Standard Deviation		5.8		5.8		4.6		5.9		5.9		8.6		5.6		5.0
CV		16.48		17.25		13.3		17.01		16.49		24.76		16.2		14.27
Bartlett's X2		7.958		9.831		7.677		9.218		11.572		4.408		23.855		12.945
P(Bartlett's X2)		0.336		0.198		0.362		0.237		0.116		0.732		0.001*		0.073

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

University of Georgia

Weed Code		AVG10PLA	CPSAN 1L	CPSAN 2L	CPSAN 3L	CPSAN 4L	CPSAN 5L	CPSAN 6L	CPSAN 7L	
Crop Code										
Rating Data Type		ht	ht	ht	ht	ht	ht	ht	ht	
Rating Unit		cm	cm	cm	cm	cm	cm	cm	cm	
Rating Date		Sep-04-08	Aug-28-08	Aug-28-08	Aug-28-08	Aug-28-08	Aug-28-08	Aug-28-08	Aug-28-08	
Trt-Eval Interval		21 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	
ARM Action Codes		T4								
Trt No.	Treatment Name	Rate								
		Rate Unit								
			36	38	39	40	41	42	43	44
12	PEPPER			19 a	21 a	19 a	20 a	19 ab	18 ab	16 ab
	Dual	24 OZ/A								
	Select Max	24 OZ/A								
	NIS	0.25 % V/V								
13	PEPPER			18 a	15 ab	16 a	18 ab	17 ab	14 b	16 ab
	WeatherMax	22 OZ/A								
	Dual	12 OZ/A								
	Command	2 PT/A								
14	PEPPER			19 a	16 ab	18 a	16 ab	19 ab	19 ab	17 a
	WeatherMax	22 OZ/A								
	Dual	12 OZ/A								
	Reflex	1 PT/A								
15	PEPPER			17 ab	17 a	15 ab	17 ab	15 b	16 b	15 ab
	WeatherMax	22 OZ/A								
	Dual	12 OZ/A								
	Sandea	0.75 OZ/A								
16	PEPPER			12 b	9 b	9 b	10 b	8 c	4 c	8 b
	WeatherMax	22 OZ/A								
	Dual	12 OZ/A								
	Sencor	0.5 LB/A								
17	PEPPER			14 ab	15 ab	16 a	16 ab	17 ab	19 ab	16 ab
	WeatherMax	22 OZ/A								
	Dual	12 OZ/A								
	Dual	12 OZ/A								
18	PEPPER			15 ab	16 ab	16 a	18 ab	16 b	18 ab	22 a
	Non-treated									
	WeatherMax	22 OZ/A								
	Dual	24 OZ/A								
LSD (P=.05)			4.5	4.9	7.1	6.2	6.8	4.8	4.9	7.5
Standard Deviation			2.5	2.9	4.2	3.6	4.0	2.8	2.9	4.4
CV			7.37	17.48	24.91	22.26	23.77	16.9	17.7	26.68
Bartlett's X2			4.129	7.783	10.881	8.829	14.519	19.464	8.07	9.01
P(Bartlett's X2)			0.765	0.556	0.284	0.453	0.105	0.013*	0.527	0.436

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

Column 33: T4 = @AVG([C26].[C35])

University of Georgia

Weed Code	CPSAN 8L	CPSAN 9L	CPSAN10L	AVGCPSAN	CSPAN L1	CPSAN L2	CPSAN L3	CPSAN L4			
Crop Code	ht	ht	ht	ht	ht	ht	ht	ht			
Rating Data Type	cm	cm	cm	cm	cm	cm	cm	cm			
Rating Unit	Aug-28-08	Aug-28-08	Aug-28-08	Aug-28-08	Sep-04-08	Sep-04-08	Sep-04-08	Sep-04-08			
Rating Date	14 DA-A	14 DA-A	14 DA-A	14 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A			
Trt-Eval Interval	T2										
ARM Action Codes											
Trt No.	Treatment Name	Rate	Unit	45	46	47	48	50	51	52	53
12	PEPPER			17 b	14 b	19 ab	18 b	26 ab	29 a	24 ab	28 ab
	Dual	24	OZ/A								
	Select Max	24	OZ/A								
	NIS	0.25	% V/V								
13	PEPPER			18 ab	14 b	12 bc	16 b	29 ab	21 abc	23 ab	16 d
	WeatherMax	22	OZ/A								
	Dual	12	OZ/A								
	Command	2	PT/A								
14	PEPPER			16 b	18 ab	18 ab	18 b	21 abc	19 c	25 a	22 bcd
	WeatherMax	22	OZ/A								
	Dual	12	OZ/A								
	Reflex	1	PT/A								
15	PEPPER			13 bc	15 b	15 abc	16 b	18 abc	21 abc	19 ab	19 cd
	WeatherMax	22	OZ/A								
	Dual	12	OZ/A								
	Sandea	0.75	OZ/A								
16	PEPPER			6 c	3 c	8 c	8 c	10 c	10 d	4 c	0 e
	WeatherMax	22	OZ/A								
	Dual	12	OZ/A								
	Sencor	0.5	LB/A								
17	PEPPER			15 b	16 ab	18 ab	16 b	20 abc	22 abc	20 ab	25 bc
	WeatherMax	22	OZ/A								
	Dual	12	OZ/A								
	Dual	12	OZ/A								
18	PEPPER			18 ab	20 ab	16 abc	18 b	23 abc	23 abc	17 b	20 cd
	Non-treated										
	WeatherMax	22	OZ/A								
	Dual	24	OZ/A								
LSD (P=.05)	7.1	5.7	8.2	2.9	13.3	7.6	6.5	7.1			
Standard Deviation	4.1	3.4	4.8	1.7	7.7	4.5	3.8	4.1			
CV	25.08	21.21	28.95	10.17	35.55	21.2	19.47	20.0			
Bartlett's X2	9.206	10.608	9.337	10.698	15.213	15.134	5.971	13.564			
P(Bartlett's X2)	0.419	0.304	0.407	0.297	0.085	0.087	0.743	0.094			

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

Column 44: T2 = @AVG([C38].[C47])

University of Georgia

Weed Code	CPSAN L5	CPSAN L6	CPSAN L7	CPSAN L8	CPSAN L9	CPSAN10L	AVG10PLA	Har1
Crop Code								LYPES
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	JUMBO
Rating Unit	cm	cm	cm	cm	cm	cm	cm	#
Rating Date	Sep-04-08	Sep-04-08	Sep-04-08	Sep-04-08	Sep-04-08	Sep-04-08	Sep-04-08	Nov-04-08
Trt-Eval Interval	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A	82 DA-A
ARM Action Codes							T3	
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate
54	55	56	57	58	59	60	63	
12	PEPPER							
	Dual	24 OZ/A						
	Select Max	24 OZ/A						
	NIS	0.25 % V/V						
13	PEPPER							
	WeatherMax	22 OZ/A						
	Dual	12 OZ/A						
	Command	2 PT/A						
14	PEPPER							
	WeatherMax	22 OZ/A						
	Dual	12 OZ/A						
	Reflex	1 PT/A						
15	PEPPER							
	WeatherMax	22 OZ/A						
	Dual	12 OZ/A						
	Sandea	0.75 OZ/A						
16	PEPPER							
	WeatherMax	22 OZ/A						
	Dual	12 OZ/A						
	Sencor	0.5 LB/A						
17	PEPPER							
	WeatherMax	22 OZ/A						
	Dual	12 OZ/A						
	Dual	12 OZ/A						
18	PEPPER							
	Non-treated							
	WeatherMax	22 OZ/A						
	Dual	24 OZ/A						
LSD (P=.05)	9.0	7.8	7.2	7.8	6.3	9.8	3.8	29.5
Standard Deviation	5.3	4.5	4.2	4.5	3.7	5.7	2.2	16.9
CV	27.6	23.69	21.0	23.41	17.65	28.83	10.86	59.8
Bartlett's X2	7.823	8.188	6.108	17.123	5.409	7.092	14.127	24.046
P(Bartlett's X2)	0.552	0.515	0.729	0.047*	0.797	0.628	0.118	0.001*

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

Column 55: T3 = @AVG([C50].[C59])

University of Georgia

Weed Code	Har1	Har1	Har1	Har1	Har1	Har1	Har1	Har2								
Crop Code	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES								
Rating Data Type	JUMBO	LARGE	LARGE	MEDIUM	MEDIUM	SMALL	SMALL	JUMBO								
Rating Unit	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb	#								
Rating Date	Nov-04-08	Nov-04-08	Nov-04-08	Nov-04-08	Nov-04-08	Nov-04-08	Nov-04-08	Nov-17-08								
Trt-Eval Interval	82 DA-A	82 DA-A	82 DA-A	82 DA-A	82 DA-A	82 DA-A	82 DA-A	95 DA-A								
ARM Action Codes																
Trt No.	Treatment Name	Rate	Unit	64	65	66	67	68	69	70	72					
12	PEPPER															
	Dual	24	OZ/A													
	Select Max	24	OZ/A													
	NIS	0.25	% V/V													
13	PEPPER															
	WeatherMax	22	OZ/A													
	Dual	12	OZ/A													
	Command	2	PT/A													
14	PEPPER															
	WeatherMax	22	OZ/A													
	Dual	12	OZ/A													
	Reflex	1	PT/A													
15	PEPPER															
	WeatherMax	22	OZ/A													
	Dual	12	OZ/A													
	Sandea	0.75	OZ/A													
16	PEPPER															
	WeatherMax	22	OZ/A													
	Dual	12	OZ/A													
	Sencor	0.5	LB/A													
17	PEPPER															
	WeatherMax	22	OZ/A													
	Dual	12	OZ/A													
	Dual	12	OZ/A													
18	PEPPER															
	Non-treated															
	WeatherMax	22	OZ/A													
	Dual	24	OZ/A													
LSD (P=.05)		8.3		6.8		2.5		7.3		2.2		2.8		0.6		31.0
Standard Deviation		4.7		3.9		1.4		4.2		1.3		1.6		0.3		17.7
CV		34.71		48.23		47.38		126.85		132.57		139.71		138.17		34.26
Bartlett's X2		14.597		8.725		7.214		5.031		6.731		9.336		6.78		10.042
P(Bartlett's X2)		0.042*		0.273		0.407		0.54		0.457		0.229		0.452		0.186

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

University of Georgia

Weed Code	Har2	Har2	Har2	Har2	Har2	Har2	Har2	Har1&2								
Crop Code	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES								
Rating Data Type	JUMBO	LARGE	LARGE	MEDIUM	MEDIUM	SMALL	SMALL	JUMBO								
Rating Unit	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb	#								
Rating Date	Nov-17-08	Nov-17-08	Nov-17-08	Nov-17-08	Nov-17-08	Nov-17-08	Nov-17-08	Nov-17-08								
Trt-Eval Interval	95 DA-A	95 DA-A	95 DA-A	95 DA-A	95 DA-A	95 DA-A	95 DA-A	95 DA-A								
ARM Action Codes								T5								
Trt No.	Treatment Name	Rate	Unit	73	74	75	76	77	78	79	81					
12	PEPPER															
	Dual	24	OZ/A													
	Select Max	24	OZ/A													
	NIS	0.25	% V/V													
13	PEPPER															
	WeatherMax	22	OZ/A													
	Dual	12	OZ/A													
	Command	2	PT/A													
14	PEPPER															
	WeatherMax	22	OZ/A													
	Dual	12	OZ/A													
	Reflex	1	PT/A													
15	PEPPER															
	WeatherMax	22	OZ/A													
	Dual	12	OZ/A													
	Sandea	0.75	OZ/A													
16	PEPPER															
	WeatherMax	22	OZ/A													
	Dual	12	OZ/A													
	Sencor	0.5	LB/A													
17	PEPPER															
	WeatherMax	22	OZ/A													
	Dual	12	OZ/A													
	Dual	12	OZ/A													
18	PEPPER															
	Non-treated															
	WeatherMax	22	OZ/A													
	Dual	24	OZ/A													
LSD (P=.05)		13.0		26.3		5.3		21.3		5.6		111.4		10.4		38.0
Standard Deviation		7.4		15.0		3.0		12.2		3.2		63.6		5.9		21.7
CV		29.98		25.06		14.72		15.52		15.34		25.03		23.24		27.17
Bartlett's X2		5.987		10.29		3.154		4.245		3.415		4.019		6.861		13.326
P(Bartlett's X2)		0.541		0.173		0.87		0.751		0.844		0.778		0.444		0.065

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

Column 72: T5 = [C63]+[C72]

University of Georgia

Weed Code	Har1&2	Har1&2	Har1&2	Har1&2	Har1&2	Har1&2	Har1&2					
Crop Code	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES	LYPES					
Rating Data Type	JUMBO	LARGE	LARGE	MEDIUM	MEDIUM	SMALL	SMALL					
Rating Unit	wt/lb	#	wt/lb	#	wt/lb	#	wt/lb					
Rating Date	Nov-17-08	Nov-17-08	Nov-17-08	Nov-17-08	Nov-17-08	Nov-17-08	Nov-17-08					
Trt-Eval Interval	95 DA-A	95 DA-A	95 DA-A	95 DA-A	95 DA-A	95 DA-A	95 DA-A					
ARM Action Codes	T6	T7	T8	T9	T10	T11	T12					
Trt No.	Treatment Name	Rate	Unit	82	83	84	85	86	87	88		
12	PEPPER											
	Dual	24	OZ/A									
	Select Max	24	OZ/A									
	NIS	0.25	% V/V									
13	PEPPER											
	WeatherMax	22	OZ/A									
	Dual	12	OZ/A									
	Command	2	PT/A									
14	PEPPER											
	WeatherMax	22	OZ/A									
	Dual	12	OZ/A									
	Reflex	1	PT/A									
15	PEPPER											
	WeatherMax	22	OZ/A									
	Dual	12	OZ/A									
	Sandea	0.75	OZ/A									
16	PEPPER											
	WeatherMax	22	OZ/A									
	Dual	12	OZ/A									
	Sencor	0.5	LB/A									
17	PEPPER											
	WeatherMax	22	OZ/A									
	Dual	12	OZ/A									
	Dual	12	OZ/A									
18	PEPPER											
	Non-treated											
	WeatherMax	22	OZ/A									
	Dual	24	OZ/A									
LSD (P=.05)		14.4		27.5		5.9		24.2		5.7	111.2	10.4
Standard Deviation		8.2		15.7		3.3		13.8		3.2	63.5	5.9
CV		21.41		23.11		14.22		16.91		14.95	24.86	22.97
Bartlett's X2		8.149		14.699		7.521		6.546		8.417	3.798	6.529
P(Bartlett's X2)		0.32		0.04*		0.377		0.478		0.297	0.803	0.48

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

Column 73: T6 = [C64]+[C73]

Column 74: T7 = [C65]+[C74]

Column 75: T8 = [C66]+[C75]

Column 76: T9 = [C67]+[C76]

Column 77: T10 = [C68]+[C77]

Column 78: T11 = [C69]+[C78]

Column 79: T12 = [C70]+[C79]

University of Georgia

SITE AND DESIGN

Plot Width, Unit: 6 FT Plot Length, Unit: 20 FT Reps: 3
 Site Type: Ponder research farm
 Tillage Type: Conventional/plasical 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	B	C
Application Date:	Aug-06-08	Aug-14-08	Aug-29-08
Time of Day:	7:30	7:30 am	8 am
Application Method:	broadcast	broadcast	broadcast
Application Timing:	preplant	POST	POST 2
Applic. Placement:	overbeds	overtop	overtop
Air Temp., Unit:	80 F	78 F	75 F
% Relative Humidity:	70	83	70
Wind Velocity, Unit:	0 mph	0 mph	2 mph
Dew Presence (Y/N):	Y	Y	Y
Water Hardness:			
Soil Temp., Unit:	77 F	75 F	75 F
Soil Moisture:	moist	moist	moist
% Cloud Cover:	0	100	25

University of Georgia

CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	LYPES preplant	LYPES POST	LYPES POST2
Stage Scale:	not plant	transplan	7 leaf
Height, Unit:	0 inch	4 inch	11 inch
Crop 2 Code, Stage:	CPSAN preplant	CPSAN POST	CPSAN POST2
Stage Scale:	not plant	trasplant	5 leaf
Height, Unit:	0 inch	3 inch	6 inch

WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code, Stage:	PANTE preplant	PANTE POST	PANTE POST2
Stage Scale:	6 in	6 inch	3 inch
Density, Unit:	4 ydsq	4 ydsq	2 ydsq
Weed 2 Code, Stage:	AMAPA preplant	AMAPA POST	AMAPA POST2
Stage Scale:	8 in	8 inch	3 inch
Density, Unit:	4 ydsq	4 ydsq	2 ydsq
Weed 3 Code, Stage:	IPOLA preplant	IPOLA POST	IPOLA POST2
Stage Scale:	4 in	4 inch	3 inch
Density, Unit:	3 ydsq	3 ydsq	2 ydsq
Weed 4 Code, Stage:	CYPSS preplant	CYPSS POST	CYPSS POST2
Stage Scale:	2 inch	4 inch	2 inch
Density, Unit:	2 ydsq	3 ydsq	1 ydsq

APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	backpack	backpack	backpack
Operating Pressure:	24	24	24
Nozzle Type:	flat fan	flat fan	flat fan
Nozzle Size:	11002	11002	11002
Nozzle Spacing, Unit:	18 in	18 in	18 in
Nozzles/Row:	2	2	2
Band Width, Unit:			
Boom Length, Unit:	4.5 ft	4.5 ft	4.5 ft
Boom Height, Unit:	15 in	15 in	15 in
Ground Speed, Unit:	3 mph	3 mph	3 mph
Incorporation Equip.:			
Hours to Incorp.:			
Incorp. Depth, Unit:			
Carrier:	H2O	H2O	H2O
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA
Spray pH:			
Propellant:	CO2	CO2	CO2
Tank Mix (Y/N):	Y	Y	Y

Trt No	Treatment Application Comment