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Pepper, cucumber and weed response to V-10142.

Trial ID: Veg9-05(v-pep-cu) Study Dir.: Culpepper
 Location: Ponder 5161 Investigator: Stanley Culpepper

Reps: 3 Plots: 6 by 25 feet
 Spray vol: 14.8 gal/ac Mix size: 1 liters (min .57876)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	Appl Code	Amt Product to Measure	Plot No. By Rep		
									1	2	3
1	Non-treated								101	213	302
2	V-10142	3.3	FL	0.1	lb ai/a	PD	A	2.047 ml/mx	102	208	306
	COC		L	1	pt/a	PD	A	8.445 ml/mx			
3	V-10142	3.3	FL	0.2	lb ai/a	PD	A	4.095 ml/mx	103	206	309
	COC		L	1	pt/a	PD	A	8.445 ml/mx			
4	V-10142	3.3	FL	0.3	lb ai/a	PD	A	6.142 ml/mx	104	212	303
	COC		L	1	pt/a	PD	A	8.445 ml/mx			
5	Valor	51	WDG	3	oz/a	PD	A	1.518 g/mx	105	210	305
	Dual Magnum	7.62	L	1	pt/a	PD	A	8.445 ml/mx			
	Prowl	3.3	EC	2	pt/a	PD	A	16.89 ml/mx			
	COC		L	1	% v/v	PD	A	9.999 ml/mx			
6	Valor	51	WDG	3	oz/a	PD	A	1.518 g/mx	106	207	313
	COC		L	1	pt/a	PD	A	8.445 ml/mx			
7	Valor	51	WDG	3	oz/a	PD	A	1.518 g/mx	107	201	304
	COC		L	1	% v/v	PD	A	9.999 ml/mx			
	V-10142	3.3	FL	0.1	lb ai/a	PD	A	2.047 ml/mx			
8	Valor	51	WDG	3	oz/a	PD	A	1.518 g/mx	108	204	308
	COC		L	1	% v/v	PD	A	9.999 ml/mx			
	V-10142	3.3	FL	0.2	lb ai/a	PD	A	4.095 ml/mx			
9	Valor	51	WDG	3	oz/a	PD	A	1.518 g/mx	109	203	311
	Dual Magnum	7.62	L	1	pt/a	PD	A	8.445 ml/mx			
	Prowl	3.3	EC	2	pt/a	PD	A	16.89 ml/mx			
	COC		L	1	% v/v	PD	A	9.999 ml/mx			
	Gramoxone	3	L	1.5	pt/a	PD	A	12.67 ml/mx			
10	V-10142	3.3	FL	0.05	lb ai/a	POST	B	1.024 ml/mx	110	211	312
	NIS		L	0.25	% v/v	POST	B	2.5 ml/mx			
11	V-10142	3.3	FL	0.1	lb ai/a	POST	B	2.047 ml/mx	111	202	301
	NIS		L	0.25	% v/v	POST	B	2.5 ml/mx			
12	V-10142	3.3	FL	0.2	lb ai/a	POST	B	4.095 ml/mx	112	209	310
	NIS		L	0.25	% v/v	POST	B	2.5 ml/mx			
13	Sandea	75	DF	0.75	oz/a	POST	B	0.3795 g/mx	113	205	307
	NIS		L	0.25	% v/v	POST	B	2.5 ml/mx			

Sort Order: Treatment

Product quantities required for listed treatments and applications in one trial:

Amount*	Unit	Treatment Name	Lot Code
31.989	ml	V-10142 3.3 FL	
92.220	ml	COC L	
9.488	g	Valor 51 WDG	
21.113	ml	Dual Magnum 7.62 L	
42.225	ml	Prowl 3.3 EC	
15.834	ml	Gramoxone 3 L	
12.499	ml	NIS L	
0.474	g	Sandea 75 DF	

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Reps: 3 Plots: 6 by 25 feet
 Spray vol: 14.8 gal/ac Mix size: 1 liters (min .57876)

Trt No.	Tr> N>	Form Conc	Form Type	Plot No. By Rep
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Product quantities required for listed treatments and applications in one trial:

Amount*	Unit	Treatment Name	Lot Code
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- * '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.

Trial Comments

OBJECTIVE: Evaluate V10142 in pepper and cucumber.

VISUAL CROP RESPONSE:

1. Precision directed applications caused less than 12% injury regardless of crop. Injury (necrotic spotting) from directed mixtures were greatest with the Gramoxone + Valor mixture followed by other Valor mixtures in cucumber.
2. Topical applications of V-10142 injured pepper (mostly chlorosis) up to 28%. In general, the higher the rate the more injury. Pepper did visually recover by 26 days after treatment.
3. Topical applications of V-10142 injured cucumber (chlorosis and stunting) up to 23%. Cucumber did visually recover by 26 days after treatment.

PLANT HEIGHTS:

1. At 12 day after treatment, pepper heights were not impacted by treatments.
2. At 12 day after treatment, cucumber heights were reduced by V-10142 at 0.2 lb ai/A when compared to the non-treated. The trend was apparent for height reduction with V-10142 at 0.1 lb ai/A and Sandea.

YIELD (Only selected treatments were harvested):

1. Five pepper plants per plot were harvested only once. Pepper yield from the non-treated, Valor + V-10142 in the row middle only, and V-10142 at 0.05 lb did not impact yield. However, V-10142 at 0.1 or 0.2 lb ai/A applied topically reduced yield significantly as did Sandea.
2. Cucumber yields with all harvested treatments were equal to or greater than the non-treated control.

WEED RESPONSE:

Yellow and purple nutsedge (control was variable as the nutsedge was spotty):

1. Ratings were made for the row middle as well as the bed; thus, the row middle treatments were at a disadvantage in weed control.
2. When comparing row middle treatments, the Gramoxone + Valor + Dual + Prowl and the Valor + V-10142 mixtures were generally the most effective treatments.
3. When comparing topical applications, Sandea was more effective than V-10142.

Primrose control:

1. Control was poor by V-10142 and Sandea.
2. Valor, without Gramoxone, mixtures were only marginally effective.
3. The Gramoxone mixture was clearly the most effective row middle application.

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Pepper, cucumber and weed response to V-10142.

Trial ID: Veg9-05(v-pep-cu)

Study Dir.: Culpepper

Location: Ponder 5161

Investigator: Stanley Culpepper

Weed Code		pepper injury percent	pepper injury percent	pepper injury percent	pepper injury percent	cucumber injury percent	cucumber injury percent	cucumber injury percent	cucumber injury percent		
Crop Code		May-16-05	May-19-05	May-24-05	Jun-07-05	May-16-05	May-19-05	May-24-05	Jun-07-05		
Rating Data Type		4 DA-A	7 DA-A	12 DA-A	26 DA-A	4 DA-A	7 DA-A	12 DA-A	26 DA-A		
Rating Unit											
Rating Date											
Trt-Eval Interval											
ARM Action Codes											
# Subsamples, Dec.											
Trt No.	Treatment Name	Rate	Unit	1	2	3	4	5	6	7	8
1	Non-treated			0	0	0	0	0	0	0	0
2	V-10142 COC	0.1 lb ai/a 1 pt/a		0	2	0	0	0	0	0	0
3	V-10142 COC	0.2 lb ai/a 1 pt/a		0	1	0	0	0	0	0	0
4	V-10142 COC	0.3 lb ai/a 1 pt/a		0	0	0	0	0	0	0	0
5	Valor Dual Magnum Prowl COC	3 oz/a 1 pt/a 2 pt/a 1 % v/v		0	0	0	0	5	7	8	0
6	Valor COC	3 oz/a 1 pt/a		0	3	0	0	6	9	6	0
7	Valor COC V-10142	3 oz/a 1 % v/v 0.1 lb ai/a		1	1	0	0	4	6	7	0
8	Valor COC V-10142	3 oz/a 1 % v/v 0.2 lb ai/a		0	2	0	3	5	7	6	0
9	Valor Dual Magnum Prowl COC Gramoxone	3 oz/a 1 pt/a 2 pt/a 1 % v/v 1.5 pt/a		4	7	3	0	12	11	8	0
10	V-10142 NIS	0.05 lb ai/a 0.25 % v/v		10	7	0	0	14	11	0	0
11	V-10142 NIS	0.1 lb ai/a 0.25 % v/v		12	16	0	2	16	19	3	3
12	V-10142 NIS	0.2 lb ai/a 0.25 % v/v		12	28	13	0	18	20	23	0
13	Sandea NIS	0.75 oz/a 0.25 % v/v		21	35	43	33	11	13	3	0
LSD (P=.05)				4.2	5.6	8.2	4.0	6.9	7.9	6.3	2.7
Standard Deviation				2.5	3.4	4.9	2.4	4.1	4.7	3.8	1.6
CV				54.11	43.42	106.36	79.93	57.53	59.54	76.03	624.5

Means followed by same letter do not significantly differ (P=.05, LSD)

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Weed Code	CYPZZ	CYPZZ	CYPZZ	CYPZZ	OEOLA	OEOLA	OEOLA	plant 1			
Crop Code								pepper			
Rating Data Type	control	control	control	control	control	control	control	ht			
Rating Unit	percent	percent	percent	percent	percent	percent	percent	cm			
Rating Date	May-16-05	May-19-05	May-24-05	Jun-07-05	May-16-05	May-19-05	May-24-05	May-03-05			
Trt-Eval Interval	4 DA-A	7 DA-A	12 DA-A	26 DA-A	4 DA-A	7 DA-A	12 DA-A	-9 DA-A			
ARM Action Codes											
# Subsamples, Dec.											
Trt No.	Treatment Name	Rate	Unit	9	10	11	12	13	14	15	16
1	Non-treated			0	0	3	0	0	0	0	16
2	V-10142 COC	0.1 1	lb ai/a pt/a	13	15	20	31	17	10	10	15
3	V-10142 COC	0.2 1	lb ai/a pt/a	13	28	30	27	30	30	28	17
4	V-10142 COC	0.3 1	lb ai/a pt/a	12	10	42	57	30	25	27	15
5	Valor Dual Magnum Prowl COC	3 1 2 1	oz/a pt/a pt/a % v/v	67	32	52	60	70	56	57	14
6	Valor COC	3 1	oz/a pt/a	42	43	17	33	60	62	54	13
7	Valor COC V-10142	3 1 0.1	oz/a % v/v lb ai/a	55	57	76	73	65	67	55	16
8	Valor COC V-10142	3 1 0.2	oz/a % v/v lb ai/a	56	60	81	80	72	65	53	14
9	Valor Dual Magnum Prowl COC Gramoxone	3 1 2 1 1.5	oz/a pt/a pt/a % v/v pt/a	81	78	83	82	94	94	90	12
10	V-10142 NIS	0.05 0.25	lb ai/a % v/v	7	12	17	57	12	7	5	14
11	V-10142 NIS	0.1 0.25	lb ai/a % v/v	5	15	17	57	10	10	0	14
12	V-10142 NIS	0.2 0.25	lb ai/a % v/v	12	13	28	72	13	8	2	14
13	Sandea NIS	0.75 0.25	oz/a % v/v	13	17	58	93	10	18	10	15
LSD (P=.05)				11.6	22.0	14.8	18.6	13.3	8.8	5.5	3.7
Standard Deviation				6.9	13.0	8.8	11.0	7.9	5.2	3.3	2.2
CV				23.88	44.6	21.85	19.87	21.32	14.93	10.91	15.29

Means followed by same letter do not significantly differ (P=.05, LSD)

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Weed Code	plant 2 pepper	plant 3 pepper	plant 4 pepper	plant 5 pepper	Avg5plan pepper	plant 1 pepper	plant 2 pepper	plant 3 pepper
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	May-03-05	May-03-05	May-03-05	May-03-05	May-03-05	May-24-05	May-24-05	May-24-05
Trt-Eval Interval	-9 DA-A	-9 DA-A	-9 DA-A	-9 DA-A	-9 DA-A	12 DA-A	12 DA-A	12 DA-A
ARM Action Codes					T1			
# Subsamples, Dec.					1			
Trt Treatment								
No. Name Rate Unit	17	18	19	20	21	22	23	24
1 Non-treated	14	16	16	15	15.2	28	28	24
2 V-10142 COC 0.1 lb ai/a 1 pt/a	12	15	14	15	14.3	29	25	21
3 V-10142 COC 0.2 lb ai/a 1 pt/a	15	15	13	15	14.8	16	28	31
4 V-10142 COC 0.3 lb ai/a 1 pt/a	14	15	14	14	14.3	27	26	26
5 Valor Dual Magnum 3 oz/a 1 pt/a Prowl 2 pt/a COC 1 % v/v	13	16	14	14	13.9	24	28	25
6 Valor COC 3 oz/a 1 pt/a	14	15	15	15	14.6	27	26	26
7 Valor COC 3 oz/a 1 % v/v V-10142 0.1 lb ai/a	16	13	13	16	14.7	28	30	30
8 Valor COC 3 oz/a 1 % v/v V-10142 0.2 lb ai/a	12	15	13	15	13.8	30	26	26
9 Valor Dual Magnum 3 oz/a 1 pt/a Prowl 2 pt/a COC 1 % v/v Gramoxone 1.5 pt/a	16	13	16	13	14.0	24	25	26
10 V-10142 NIS 0.05 lb ai/a 0.25 % v/v	15	15	14	16	14.8	28	24	25
11 V-10142 NIS 0.1 lb ai/a 0.25 % v/v	14	11	13	13	12.9	22	26	25
12 V-10142 NIS 0.2 lb ai/a 0.25 % v/v	15	14	16	14	14.7	23	26	23
13 Sandea NIS 0.75 oz/a 0.25 % v/v	14	14	12	13	13.9	22	21	21
LSD (P=.05)	3.3	3.6	3.2	2.8	2.45	8.8	4.4	8.4
Standard Deviation	2.0	2.1	1.9	1.7	1.45	5.2	2.6	5.0
CV	14.02	14.88	13.49	11.64	10.16	20.74	9.93	19.68

Means followed by same letter do not significantly differ (P=.05, LSD)

Column 21: T1 = @AVG([C16],[C20])

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Weed Code	plant 4 pepper	plant 5 pepper	Avg5plan pepper	plant 1 cucumber	plant 2 cucumber	plant 3 cucumber	plant 4 cucumber	plant 5 cucumber			
Crop Code	pepper	pepper	pepper	cucumber	cucumber	cucumber	cucumber	cucumber			
Rating Data Type	ht	ht	ht	dt	dt	dt	dt	dt			
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm			
Rating Date	May-24-05	May-24-05	May-24-05	May-03-05	May-03-05	May-03-05	May-03-05	May-03-05			
Trt-Eval Interval	12 DA-A	12 DA-A	12 DA-A	-9 DA-A	-9 DA-A	-9 DA-A	-9 DA-A	-9 DA-A			
ARM Action Codes			T2								
# Subsamples, Dec.			1								
Trt No.	Treatment Name	Rate	Rate Unit	25	26	27	28	29	30	31	32
1	Non-treated			29	30	27.9	11	10	9	12	10
2	V-10142 COC	0.1 lb ai/a 1 pt/a		26	26	25.1	12	10	12	10	10
3	V-10142 COC	0.2 lb ai/a 1 pt/a		27	29	26.3	11	11	13	12	12
4	V-10142 COC	0.3 lb ai/a 1 pt/a		28	26	26.7	11	10	10	11	12
5	Valor Dual Magnum Prowl COC	3 oz/a 1 pt/a 2 pt/a 1 % v/v		24	25	25.2	11	11	11	8	10
6	Valor COC	3 oz/a 1 pt/a		24	24	25.5	12	13	13	12	13
7	Valor COC V-10142	3 oz/a 1 % v/v 0.1 lb ai/a		25	29	28.5	12	12	12	12	11
8	Valor COC V-10142	3 oz/a 1 % v/v 0.2 lb ai/a		29	21	26.3	12	12	10	10	12
9	Valor Dual Magnum Prowl COC Gramoxone	3 oz/a 1 pt/a 2 pt/a 1 % v/v 1.5 pt/a		23	21	23.9	11	11	10	11	11
10	V-10142 NIS	0.05 lb ai/a 0.25 % v/v		25	26	25.5	11	10	11	12	12
11	V-10142 NIS	0.1 lb ai/a 0.25 % v/v		21	22	23.1	12	11	12	10	10
12	V-10142 NIS	0.2 lb ai/a 0.25 % v/v		22	22	23.4	10	9	10	12	11
13	Sandea NIS	0.75 oz/a 0.25 % v/v		19	21	20.9	11	10	11	9	10
LSD (P=.05)				9.0	7.7	4.29	2.8	3.0	2.6	3.5	3.4
Standard Deviation				5.4	4.6	2.55	1.7	1.8	1.6	2.1	2.0
CV				21.57	18.42	10.08	14.85	16.71	14.09	18.89	18.47

Means followed by same letter do not significantly differ (P=.05, LSD)

Column 27: T2 = @AVG([C22].[C26])

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Weed Code	Avg5plan	plant 1	plant 2	plant 3	plant 4	plant 5	Avg5plan	Harv 1			
Crop Code	cucumber	cucumber	cucumber	cucumber	cucumber	cucumber	cucumber	pepper			
Rating Data Type	dt	dt	dt	dt	dt	dt	dt	fruit			
Rating Unit	cm	cm	cm	cm	cm	cm	cm	#			
Rating Date	May-03-05	May-24-05	May-24-05	May-24-05	May-24-05	May-24-05	May-24-05	Jun-08-05			
Trt-Eval Interval	-9 DA-A	12 DA-A	12 DA-A	12 DA-A	12 DA-A	12 DA-A	12 DA-A	27 DA-A			
ARM Action Codes	T3						T4				
# Subsamples, Dec.	1						1				
Trt No.	Treatment Name	Rate	Unit	33	34	35	36	37	38	39	40
1	Non-treated			10.5	57	61	59	47	79	60.7	13
2	V-10142 COC	0.1 1	lb ai/a pt/a	10.7	72	68	59	60	58	63.3	
3	V-10142 COC	0.2 1	lb ai/a pt/a	11.9	48	48	75	77	79	65.7	
4	V-10142 COC	0.3 1	lb ai/a pt/a	10.7	62	65	57	69	82	66.9	
5	Valor Dual Magnum Prowl COC	3 1 2 1	oz/a pt/a pt/a % v/v	10.0	62	71	64	69	68	66.8	
6	Valor COC	3 1	oz/a pt/a	12.6	83	67	69	75	90	76.8	
7	Valor COC V-10142	3 1 0.1	oz/a % v/v lb ai/a	11.9	73	74	76	95	81	79.7	
8	Valor COC V-10142	3 1 0.2	oz/a % v/v lb ai/a	11.1	78	59	59	79	72	69.3	15
9	Valor Dual Magnum Prowl COC Gramoxone	3 1 2 1 1.5	oz/a pt/a pt/a % v/v pt/a	10.9	62	79	70	79	85	74.9	
10	V-10142 NIS	0.05 0.25	lb ai/a % v/v	11.3	59	67	65	49	68	61.7	12
11	V-10142 NIS	0.1 0.25	lb ai/a % v/v	10.9	40	51	62	51	48	50.5	3
12	V-10142 NIS	0.2 0.25	lb ai/a % v/v	10.6	33	34	46	41	49	40.7	5
13	Sandea NIS	0.75 0.25	oz/a % v/v	10.1	44	45	58	52	51	50.2	3
LSD (P=.05)				1.89	34.8	30.7	23.7	19.2	20.7	16.24	4.7
Standard Deviation				1.12	20.6	18.2	14.1	11.4	12.3	9.63	2.6
CV				10.19	34.72	29.95	22.34	17.53	17.54	15.14	30.3

Means followed by same letter do not significantly differ (P=.05, LSD)

Column 33: T3 = @AVG([C28].[C32])

Column 39: T4 = @AVG([C34].[C38])

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Weed Code	Harv 1	Harv 1	Harv 1	Harv 2	Harv 2	Harv 3	Harv 3	Harv 4		
Crop Code	pepper	cucumber	cucumber	cucumber	cucumber	cucumber	cucumber	cucumber		
Rating Data Type	fruit	fruit	fruit	fruit	fruit	fruit	fruit	fruit		
Rating Unit	wt	#	wt/lb	#	wt/lb	#	wt/lb	#		
Rating Date	Jun-08-05	May-30-05	May-30-05	May-23-05	May-23-05	Jun-03-05	Jun-03-05	Jun-08-05		
Trt-Eval Interval	27 DA-A	18 DA-A	18 DA-A	11 DA-A	11 DA-A	22 DA-A	22 DA-A	27 DA-A		
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate		
		Unit	Unit	Unit	Unit	Unit	Unit	Unit		
		41	42	43	44	45	46	47	48	
1	Non-treated		1	5	3	2	1	5	2	7
2	V-10142 COC	0.1 lb ai/a 1 pt/a								
3	V-10142 COC	0.2 lb ai/a 1 pt/a								
4	V-10142 COC	0.3 lb ai/a 1 pt/a								
5	Valor Dual Magnum Prowl COC	3 oz/a 1 pt/a 2 pt/a 1 % v/v								
6	Valor COC	3 oz/a 1 pt/a								
7	Valor COC V-10142	3 oz/a 1 % v/v 0.1 lb ai/a								
8	Valor COC V-10142	3 oz/a 1 % v/v 0.2 lb ai/a	1	5	3	11	3	7	4	8
9	Valor Dual Magnum Prowl COC Gramoxone	3 oz/a 1 pt/a 2 pt/a 1 % v/v 1.5 pt/a								
10	V-10142 NIS	0.05 lb ai/a 0.25 % v/v	1	8	6	10	4	7	4	11
11	V-10142 NIS	0.1 lb ai/a 0.25 % v/v	0	6	4	4	1	7	4	9
12	V-10142 NIS	0.2 lb ai/a 0.25 % v/v	0	7	4	4	1	7	4	10
13	Sandea NIS	0.75 oz/a 0.25 % v/v	0	8	5	3	1	7	4	13
LSD (P=.05)			0.4	5.7	3.8	3.8	1.7	4.9	2.6	4.9
Standard Deviation			0.2	3.1	2.1	2.1	0.9	2.7	1.5	2.7
CV			33.45	47.16	47.4	36.53	48.34	40.8	41.33	27.58

Means followed by same letter do not significantly differ (P=.05, LSD)

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Weed Code	Harv 4	Tot.Harv	Tot.Harv		
Crop Code	cucumber	cucumber	cucumber		
Rating Data Type	fruit	fruit	fruit		
Rating Unit	wt/lb	#	wt/lb		
Rating Date	Jun-08-05	Aug-30-05	Aug-30-05		
Trt-Eval Interval	27 DA-A	110 DA-A	110 DA-A		
ARM Action Codes		T5	T6		
# Subsamples, Dec.		1	1		
Trt No.	Treatment Name	Rate	Unit		
49	50	51			
1	Non-treated	3	19.7	9.9	
2	V-10142 COC	0.1 lb ai/a 1 pt/a			
3	V-10142 COC	0.2 lb ai/a 1 pt/a			
4	V-10142 COC	0.3 lb ai/a 1 pt/a			
5	Valor Dual Magnum Prowl COC	3 oz/a 1 pt/a 2 pt/a 1 % v/v			
6	Valor COC	3 oz/a 1 pt/a			
7	Valor COC V-10142	3 oz/a 1 % v/v 0.1 lb ai/a			
8	Valor COC V-10142	3 oz/a 1 % v/v 0.2 lb ai/a	4	31.0	14.3
9	Valor Dual Magnum Prowl COC Gramoxone	3 oz/a 1 pt/a 2 pt/a 1 % v/v 1.5 pt/a			
10	V-10142 NIS	0.05 lb ai/a 0.25 % v/v	6	36.0	20.1
11	V-10142 NIS	0.1 lb ai/a 0.25 % v/v	4	26.7	13.4
12	V-10142 NIS	0.2 lb ai/a 0.25 % v/v	4	28.3	13.6
13	Sandea NIS	0.75 oz/a 0.25 % v/v	6	31.0	16.3
LSD (P=.05)		3.0	10.57	7.29	
Standard Deviation		1.7	5.81	4.01	
CV		35.23	20.2	27.45	

Means followed by same letter do not significantly differ (P=.05, LSD)

Column 50: T5 = [C42]+[C44]+[C46]+[C48]

Column 51: T6 = [C43]+[C45]+[C47]+[C49]

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Pepper, cucumber and weed response to V-10142.

Trial ID: Veg9-05(v-pep-cu) Study Dir.: Culpepper
 Location: Ponder 5161 Investigator: Stanley Culpepper

GENERAL TRIAL INFORMATION

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

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

TRIAL LOCATION

City: TyTy **Trial Status:** completed
State/Prov.: GA **Trial Reliability:** fair
Postal Code: 31794 **Initiation Date:** Mar-18-05
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.	OEOLA	cutleaf eveningprimrose	
2.	CYPZZ	nutsedge species	

Crop 1: CPSAN PEPPER **Variety:** Stelleto
Planting Date: Mar-18-05 **Planting Method:** transplant
Rate: 1 per ft **Depth:** 1 in **Perennial Age:** _____
Row Spacing: 15 inch **Spacing Within Row:** 12 inch **Seed Bed:** plastic mulch
Soil Temperature: 60 F **Soil Moisture:** moist **Emergence Date:** _____

Crop 2: CUMSA CUCUMBER **Variety:** Thunder
Planting Date: Mar-18-05 **Planting Method:** transplant
Rate: 1 per ft **Depth:** 12 in **Perennial Age:** _____
Row Spacing: 6 foot **Spacing Within Row:** 12 inch **Seed Bed:** plastic mulch
Soil Temperature: 60 F **Soil Moisture:** moist **Emergence Date:** _____

SITE AND DESIGN

Plot Width, Unit: 6 FT **Plot Length, Unit:** 25 FT **Reps:** 3
Site Type: research station
Tillage Type: no-tillage **Study Design:** RANDOMIZED COMPLETE BLOCK

Trial Initiation Comments:

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	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: 1.1	Texture: sand	
% Silt: 2	pH: 6.2	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
Application Date:	May-12-05	May-12-05
Time of Day:	7 am	7 am
Application Method:	various	various
Application Timing:	PD/POST	PD/POST
Applic. Placement:	various	various
Air Temp., Unit:	72 F	72 F
% Relative Humidity:	60	60
Wind Velocity, Unit:	1 mph	1 mph
Dew Presence (Y/N):	n	n
Water Hardness:		
Soil Temp., Unit:	71 F	71 F
Soil Moisture:	moist	moist
% Cloud Cover:	25	25

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	CPSAN PD/POST	CPSAN PD/POST
Stage Scale:	14 leaf	14 leaf
Height, Unit:	7 inch	7 inch
Crop 2 Code, Stage:	CUMSA PD/POST	CUMSA PD/POST
Stage Scale:	6 leaf	6 leaf
Height, Unit:	6 inch	6 inch

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WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	OEOLA PD/POST	OEOLA PD/POST
Stage Scale:	12-20 in	12-20 in
Density, Unit:	2 ydsq	2 ydsq
Weed 2 Code, Stage:	CYPZZ PD/POST	CYPZZ PD/POST
Stage Scale:	8-12bloom	8-12bloom
Density, Unit:	4 ydsq	4 ydsq

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	backpack	backpack
Operating Pressure:	23	23
Nozzle Type:	flat fan	flat fan
Nozzle Size:	11002	11002
Nozzle Spacing, Unit:	12 inch	18 inch
Nozzles/Row:	3	4
Band Width, Unit:		
Boom Length, Unit:	24 inch	4.5 feet
Boom Height, Unit:	12 inch	15 inch
Ground Speed, Unit:	3 mph	3 mph
Incorporation Equip.:		
Hours to Incorp.:		
Incorp. Depth, Unit:		
Carrier:	water	water
Spray Volume, Unit:	14.8 GPA	14.8 GPA
Spray pH:		
Propellant:	CO2	CO2
Tank Mix (Y/N):	Y	Y

Trt No	Treatment Application Comment