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Seeded turnip and transplant cabbage tolerance to numerous herbicides.

Trial ID: Veg10-06 Study Dir.: Stanley Culpepper
Location: Ponder 5137 Investigator: Stanley Culpepper

Reps: 4 Plots: 6 by 15 feet
Spray vol: 14.8 gal/ac Mix size: 1 liters (min .46301)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Plot No. By Rep 1	2	3	4
1	Valor	51	DG	0.5	OZ/A	PRE	A	0.253 g/mx	101	207	322	416
2	Valor	51	DG	1.0	OZ/A	PRE	A	0.506 g/mx	102	203	312	423
3	Valor	51	DG	1.5	OZ/A	PRE	A	0.759 g/mx	103	221	320	417
4	Valor	51	DG	2.0	OZ/A	PRE	A	1.012 g/mx	104	214	319	424
5	Treflan	4	L	0.5	PT/A	PRE	A	4.223 ml/mx	105	218	307	420
6	Treflan	4	L	0.5	PT/A	PRE	A	4.223 ml/mx	106	222	315	404
	Dual Magnum	7.62	L	8	OZ/A	2WAP	B	4.223 ml/mx				
7	Non-treated								107	215	301	408
8	Treflan	4	L	0.5	PT/A	PRE	A	4.223 ml/mx	108	210	306	413
	Dual Magnum	7.62	L	12	OZ/A	2WAP	B	6.334 ml/mx				
9	Dual Magnum	7.62	L	8	OZ/A	PRE	A	4.223 ml/mx	109	224	321	405
10	Dual Magnum	7.62	L	12	OZ/A	PRE	A	6.334 ml/mx	110	216	311	418
11	Dual Magnum	7.62	L	8	OZ/A	2WAP	B	4.223 ml/mx	111	206	302	403
12	Dual Magnum	7.62	L	12	OZ/A	2WAP	B	6.334 ml/mx	112	202	314	419
13	Outlook	6	L	8	OZ/A	PRE	A	4.223 ml/mx	113	219	316	401
14	Outlook	6	L	12	OZ/A	PRE	A	6.334 ml/mx	114	208	317	406
15	Outlook	6	L	8	OZ/A	2WAP	B	4.223 ml/mx	115	204	305	421
16	Outlook	6	L	12	OZ/A	2WAP	B	6.334 ml/mx	116	212	309	411
17	Prowl H20	3.8	L	12	OZ/A	PRE	A	6.334 ml/mx	117	201	308	415
18	Prowl H20	3.8	L	24	OZ/A	PRE	A	12.67 ml/mx	118	220	303	409
19	Prowl H20	3.8	L	12	OZ/A	2WAP	B	6.334 ml/mx	119	223	304	410
20	Prowl H20	3.8	L	24	OZ/A	2WAP	B	12.67 ml/mx	120	205	313	407
21	Sulfentrazone	4	L	0.1	LB A/A	PRE	A	1.689 ml/mx	121	209	318	412
22	Sulfentrazone	4	L	0.1	LB A/A	2WAP	B	1.689 ml/mx	123	213	310	402
23	Define	4	L	12	OZ/A	PRE	A	6.334 ml/mx	124	211	324	414
24	Define	4	L	12	OZ/A	2WAP	B	6.334 ml/mx	122	217	323	422

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
3.163	g	Valor	51	DG	
15.834	ml	Treflan	4	L	
39.590	ml	Dual Magnum	7.62	L	
26.394	ml	Outlook	6	L	
47.509	ml	Prowl H20	3.8	L	
4.223	ml	Sulfentrazone	4	L	
15.836	ml	Define	4	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.

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Trial ID: Veg10-06 Study Dir.: Stanley Culpepper
Location: Ponder 5137 Investigator: Stanley Culpepper

Trial Comments

OBJECTIVE: Develop the most effective weed management program in seeded turnip and transplant cabbage.

WEED CONTROL:
1. All products except Treflan alone and Dual Mag. at 8 oz/A PRE provided excellent control of henbit. POST residual treatments were effective because the weed emerged after POST application were made.
2. Swinecress control was greater than 90% only with Valor, Treflan fb Dual Mag., and Prowl H20 PRE at 24 oz/A.

CROP EVALUATIONS WERE MADE IN AN AREA OF THE PLOT THAT WAS MAINTAINED WEED FREE

VISUAL TURNIP INJURY:
1. Less than 16% injury was noted throughout the season with Treflan, Treflan fb Dual Mag., Dual Mag or Outlook POST at 8 oz/A, and Prowl H20 at 12 oz/A PRE.

TURNIP STAND COUNTS:
1. Stand counts were taken prior to POST applications. Valor, sulfentrazone,and Define PRE reduced plant stand at least 70%.
2. Outlook PRE and Dual Magnum 12 oz PRE tended to reduce stand counts.

TURNIP PLANT HEIGHTS (measured 10 living plants):
1. Compared to Treflan alone or the control, heights were not impacted by only Treflan fb Dual Magnum, Dual Mag POST at 8 oz/A and Prowl H20 at 12 oz/A PRE or POST.

TURNIP TOP YIELDS (Harvested 5 row feet):
1. Compared to Treflan alone, turnip weights were not significantly impacted by Treflan fb Dual Magnum, Dual Mag. or Outlook PRE at 8 oz/A; Dual Mag POST or Outlook POST at 8 oz/A and Prowl H20 at 12 oz/A PRE or POST.
2. Yield data was very variable and when noting yield trends, it appears that yields were not impacted with only the Treflan fb Dual systems and the Prowl at 12 oz treatments.

VISUAL CABBAGE INJURY:
1. Valor, Dual Magnum PRE, Outlook PRE, Sulfentrazone and Define caused excessive cabbage injury.
2. Treflan fb Dual, Dual or Outlook POST, and Prowl caused only minor injury throughout the season.

CABBAGE PLANT HEIGHTS (measured 10 living plants):
1. Compared to Treflan alone, heights were only reduced by Valor at 1.5 and 2 oz/A; Dual Magnum 12 oz/A PRE, Outlook PRE, and Define applied PRE.

CABBAGE YIELDS:
1. Seven plants per plot were harvested even though in some plots had stand loss.
2. Of the plants surviving, only Outlook PRE reduced cabbage heads.

CONCLUSION:
1. Turnip: Develop programs using Treflan, low rates of Dual POST, low rates of Outlook POST, and low rates of Prowl H20 PRE.
2. Cabbage: Develop programs using Treflan, Dual or Outlook POST, and Prowl H20 PRE or POST.
3. Develop row middle applications for Valor.

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Seeded turnip and transplant cabbage tolerance to numerous herbicides.

Trial ID: Veg10-06 Study Dir.: Stanley Culpepper
Location: Ponder 5137 Investigator: Stanley Culpepper

Trt No.	Treatment Name	Rate	Rate Unit	1	2	3	4	5	6	7	8
Weed Code				LAMAM	COPDI	BSRSS	BSRSS	BSRSS	BSRSS	plant 1 BSRSS	plant 2 BSRSS
Crop Code											
Rating Data Type				control	control	control	injury	injury	stand cts	ht	ht
Rating Unit				percent	percent	percent	percent	percent	#	cm	cm
Rating Date				Mar-21-06	Mar-21-06	Feb-24-06	Mar-07-06	Mar-21-06	Feb-27-06	Mar-27-06	Mar-27-06
Trt-Eval Interval				41 DA-A	41 DA-A	16 DA-A	27 DA-A	41 DA-A	19 DA-A	47 DA-A	47 DA-A
ARM Action Codes											
1	Valor	0.5	OZ/A	100 a	100 a	100 a	100 a	100 a	0 d	0 g	0 g
2	Valor	1.0	OZ/A	100 a	100 a	100 a	100 a	100 a	0 d	0 g	0 g
3	Valor	1.5	OZ/A	100 a	100 a	100 a	100 a	100 a	0 d	0 g	0 g
4	Valor	2.0	OZ/A	100 a	100 a	100 a	100 a	100 a	0 d	0 g	0 g
5	Treflan	0.5	PT/A	48 c	29 j	0 c	1 gh	0 h	22 a	12 ab	11 ab
6	Treflan Dual Magnum	0.5 8	PT/A OZ/A	100 a	74 fg	0 c	1 gh	0 h	23 a	13 a	13 a
7	Non-treated			0 d	0 k	0 c	0 h	0 h	23 a	13 a	13 a
8	Treflan Dual Magnum	0.5 12	PT/A OZ/A	99 ab	97 ab	0 c	3 fgh	1 h	19 abc	10 abc	9 a-d
9	Dual Magnum	8	OZ/A	87 b	46 i	14 b	12 e	19 g	21 abc	7 b-e	6 c-f
10	Dual Magnum	12	OZ/A	98 ab	59 h	13 b	18 e	39 ef	17 bc	8 b-e	7 b-f
11	Dual Magnum	8	OZ/A	99 ab	74 fg	0 c	13 e	15 g	23 a	12 ab	10 abc
12	Dual Magnum	12	OZ/A	99 ab	86 cd	0 c	15 e	14 g	19 abc	7 b-e	8 a-e
13	Outlook	8	OZ/A	97 ab	68 gh	16 b	18 e	49 e	17 bc	6 cde	6 c-f
14	Outlook	12	OZ/A	98 ab	74 efg	17 b	28 d	61 d	16 c	5 cde	5 d-g
15	Outlook	8	OZ/A	98 ab	79 def	0 c	9 efg	16 g	22 ab	6 cde	7 b-f
16	Outlook	12	OZ/A	99 ab	88 bcd	0 c	13 e	40 ef	20 abc	9 a-d	7 b-f
17	Prowl H20	12	OZ/A	98 ab	60 h	2 c	1 gh	9 gh	23 a	11 ab	10 abc
18	Prowl H20	24	OZ/A	99 ab	95 abc	0 c	18 e	75 c	21 abc	4 efg	6 c-f
19	Prowl H20	12	OZ/A	93 ab	38 ij	0 c	11 ef	16 g	22 ab	10 abc	10 abc
20	Prowl H20	24	OZ/A	97 ab	68 gh	0 c	2 gh	34 f	23 a	8 b-e	7 b-f
21	Sulfentrazone	0.1	LB A/A	90 ab	38 ij	100 a	80 b	67 cd	5 d	7 cde	5 c-f
22	Sulfentrazone	0.1	LB A/A	93 ab	65 gh	0 c	69 c	63 d	21 abc	5 def	4 efg
23	Define	12	OZ/A	95 ab	84 de	100 a	100 a	100 a	1 d	1 fg	0 g
24	Define	12	OZ/A	92 ab	84 de	0 c	68 c	86 b	22 ab	4 efg	3 fg
LSD (P=.05)				9.9	8.8	6.3	7.7	10.2	4.5	3.8	4.0
Standard Deviation				7.0	6.2	4.5	5.5	7.2	3.2	2.7	2.8
CV				7.7	8.8	16.27	14.98	15.66	20.25	42.29	46.78
Bartlett's X2				92.44	28.87	7.436	32.391	31.536	31.216	28.684	25.08
P(Bartlett's X2)				0.001*	0.05*	0.115	0.013*	0.007*	0.038*	0.071	0.123

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

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Weed Code				plant 3	plant 4	plant 5	plant 6	plant 7	plant 8	plant 9	plant 10
Crop Code				BSRSS	BSRSS	BSRSS	BSRSS	BSRSS	BSRSS	BSRSS	BSRSS
Rating Data Type				ht	ht	ht	ht	ht	ht	ht	ht
Rating Unit				cm	cm	cm	cm	cm	cm	cm	cm
Rating Date				Mar-27-06	Mar-27-06	Mar-27-06	Mar-27-06	Mar-27-06	Mar-27-06	Mar-27-06	Mar-27-06
Trt-Eval Interval				47 DA-A	47 DA-A	47 DA-A	47 DA-A	47 DA-A	47 DA-A	47 DA-A	47 DA-A
ARM Action Codes											
Trt No.	Treatment Name	Rate	Rate Unit	9	10	11	12	13	14	15	16
1	Valor	0.5	OZ/A	0 h	0 g	0 h	0 f	0 j	0 g	0 g	0 h
2	Valor	1.0	OZ/A	0 h	0 g	0 h	0 f	0 j	0 g	0 g	0 h
3	Valor	1.5	OZ/A	0 h	0 g	0 h	0 f	0 j	0 g	0 g	0 h
4	Valor	2.0	OZ/A	0 h	0 g	0 h	0 f	0 j	0 g	0 g	0 h
5	Treflan	0.5	PT/A	11 a-d	13 a	12 ab	13 a	11 ab	11 ab	11 ab	12 ab
6	Treflan Dual Magnum	0.5 8	PT/A OZ/A	13 a	13 a	12 ab	14 a	13 a	13 a	14 a	13 a
7	Non-treated			12 ab	12 a	11 ab	14 a	13 a	11 ab	12 a	12 ab
8	Treflan Dual Magnum	0.5 12	PT/A OZ/A	9 b-e	9 abc	10 a-e	10 abc	8 c-f	8 bcd	11 abc	10 a-d
9	Dual Magnum	8	OZ/A	7 d-g	7 bcd	7 c-g	6 de	7 c-g	7 b-e	7 d	7 c-f
10	Dual Magnum	12	OZ/A	7 c-f	6 c-f	6 efg	7 cde	7 d-h	7 b-e	5 de	5 efg
11	Dual Magnum	8	OZ/A	11 abc	12 a	11 abc	8 b-e	10 a-d	8 bcd	8 bcd	10 a-d
12	Dual Magnum	12	OZ/A	7 d-g	8 bcd	8 b-f	8 b-e	8 b-e	7 b-e	8 bcd	7 c-f
13	Outlook	8	OZ/A	6 efg	6 c-f	6 d-g	5 de	6 e-i	7 b-e	7 cd	7 c-f
14	Outlook	12	OZ/A	4 fg	5 def	6 d-g	4 ef	4 hij	4 d-g	4 def	4 e-h
15	Outlook	8	OZ/A	6 efg	7 bcd	7 c-g	6 cde	8 c-f	8 bcd	8 bcd	7 c-f
16	Outlook	12	OZ/A	7 d-g	6 c-f	5 fg	5 de	6 e-i	6 c-f	5 de	5 efg
17	Prowl H20	12	OZ/A	10 a-e	11 a	13 a	12 ab	11 abc	10 ab	11 ab	11 abc
18	Prowl H20	24	OZ/A	4 fg	3 fg	4 gh	5 de	4 f-i	3 efg	3 efg	4 efg
19	Prowl H20	12	OZ/A	9 b-e	10 ab	10 a-d	9 bcd	9 b-e	10 abc	8 bcd	8 b-e
20	Prowl H20	24	OZ/A	8 b-f	7 cde	7 c-g	6 cde	9 b-e	7 b-e	7 d	7 def
21	Sulfentrazone	0.1	LB A/A	7 d-g	6 c-f	5 fg	4 def	4 ghi	4 d-g	3 efg	4 fgh
22	Sulfentrazone	0.1	LB A/A	4 fg	4 def	4 gh	4 def	3 ij	3 efg	6 de	4 fgh
23	Define	12	OZ/A	0 h	0 g	0 h	0 f	0 j	0 g	0 g	0 h
24	Define	12	OZ/A	3 gh	3 efg	3 gh	4 def	3 ij	2 fg	1 fg	2 gh
LSD (P=.05)				3.5	3.3	3.5	3.8	3.2	3.8	3.2	3.6
Standard Deviation				2.5	2.3	2.5	2.7	2.3	2.7	2.3	2.5
CV				41.99	38.2	41.78	44.53	38.25	48.43	40.2	44.66
Bartlett's X2				35.614	24.304	25.406	24.264	23.556	21.353	14.584	12.771
P(Bartlett's X2)				0.008*	0.145	0.114	0.147	0.17	0.262	0.69	0.805

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

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Weed Code				Avg10pla	Harv 1	Harv 1				plant 1	plant 2
Crop Code				BSRSS	BSRSS	BSRSS	BRSOL	BRSOL	BRSOL	BRSOL	BRSOL
Rating Data Type				ht	wt/5 row ft	yield	injury	injury	injury	ht	ht
Rating Unit				cm	lb	lbs/A	percent	percent	percent	cm	cm
Rating Date				Mar-27-06	Apr-06-06	Apr-06-06	Feb-24-06	Mar-07-06	Mar-21-06	Mar-27-06	Mar-27-06
Trt-Eval Interval				47 DA-A	57 DA-A		16 DA-A	16 DA-A	41 DA-A	47 DA-A	47 DA-A
ARM Action Codes				T1		T3					
Trt No.	Treatment Name	Rate	Rate Unit	17	18	19	20	21	22	23	24
1	Valor	0.5	OZ/A	0 j	0 i	0 i	13 cd	19 d	12 efg	17 abc	18 abc
2	Valor	1.0	OZ/A	0 j	0 i	0 i	9 de	18 de	18 ef	14 a-e	16 a-d
3	Valor	1.5	OZ/A	0 j	0 i	0 i	34 a	36 b	41 bc	17 abc	17 abc
4	Valor	2.0	OZ/A	0 j	0 i	0 i	31 a	64 a	55 a	13 b-e	11 de
5	Treflan	0.5	PT/A	11 abc	4 ab	10788 ab	0 f	3 fg	0 g	19 abc	17 a-d
6	Treflan Dual Magnum	0.5 8	PT/A OZ/A	13 a	4 a	11013 a	0 f	1 fg	0 g	20 a	18 abc
7	Non-treated			12 ab	3 abc	8719 abc	0 f	0 g	0 g	20 a	21 a
8	Treflan Dual Magnum	0.5 12	PT/A OZ/A	9 b-e	3 abc	9031 abc	0 f	1 fg	0 g	18 abc	18 abc
9	Dual Magnum	8	OZ/A	7 e-h	2 cde	7166 cde	10 de	19 d	21 de	15 a-e	16 a-e
10	Dual Magnum	12	OZ/A	6 e-h	2 c-f	6207 c-f	10 d	23 cd	31 cd	16 a-d	14 cde
11	Dual Magnum	8	OZ/A	10 bcd	3 bcd	7979 bcd	0 f	0 g	3 g	19 ab	17 abc
12	Dual Magnum	12	OZ/A	8 def	2 cde	6970 cde	0 f	1 fg	2 g	19 ab	19 abc
13	Outlook	8	OZ/A	6 e-h	2 c-f	6512 c-f	17 bc	36 b	51 ab	10 e	10 e
14	Outlook	12	OZ/A	4 ghi	2 efg	4697 efg	18 bc	38 b	57 a	10 de	11 e
15	Outlook	8	OZ/A	7 d-g	3 cde	7442 cde	0 f	4 fg	0 g	17 abc	18 abc
16	Outlook	12	OZ/A	6 fgh	2 d-g	5184 d-g	0 f	10 d-g	6 fg	19 abc	18 abc
17	Prowl H20	12	OZ/A	11 abc	3 abc	8342 abc	3 ef	6 efg	3 g	18 abc	19 abc
18	Prowl H20	24	OZ/A	4 hi	1 hi	1735 hi	0 f	3 fg	4 g	20 a	21 ab
19	Prowl H20	12	OZ/A	9 cde	3 abc	8429 abc	0 f	14 def	11 efg	19 abc	22 a
20	Prowl H20	24	OZ/A	7 d-g	2 d-g	4966 d-g	0 f	5 fg	6 fg	16 a-d	16 a-e
21	Sulfentrazone	0.1	LB A/A	5 f-i	1 fgh	3870 fgh	9 de	18 de	18 ef	17 abc	18 abc
22	Sulfentrazone	0.1	LB A/A	4 hi	1 ghi	2998 ghi	0 f	19 d	7 fg	18 abc	19 abc
23	Define	12	OZ/A	0 j	0 i	123 i	20 b	34 bc	39 bc	12 cde	15 b-e
24	Define	12	OZ/A	3 ij	0 hi	1162 hi	0 f	4 fg	24 de	16 a-d	17 abc
LSD (P=.05)				2.6	0.9	2626.3	6.1	11.3	11.6	5.2	4.9
Standard Deviation				1.8	0.6	1857.1	4.3	8.0	8.2	3.6	3.5
CV				31.0	36.14	36.14	59.67	51.49	48.6	22.12	20.81
Bartlett's X2				48.167	39.03	39.03	11.784	45.042	21.664	43.5	23.91
P(Bartlett's X2)				0.001*	0.004*	0.004*	0.30	0.002*	0.247	0.006*	0.409

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)
Column 17: T1 = @AVG([C7].[C16])
Column 19: T3 = [18]*4/30*43560

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Trt No.	Treatment Name	Rate	Rate Unit	plant 3	plant 4	plant 5	plant 6	plant 7	plant 8	plant 9	plant 10
Weed Code				BRSOL	BRSOL	BRSOL	BRSOL	BRSOL	BRSOL	BRSOL	BRSOL
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				Mar-27-06	Mar-27-06	Mar-27-06	Mar-27-06	Mar-27-06	Mar-27-06	Mar-27-06	Mar-27-06
Trt-Eval Interval				47 DA-A	47 DA-A	47 DA-A	47 DA-A	47 DA-A	47 DA-A	47 DA-A	47 DA-A
ARM Action Codes											
				25	26	27	28	29	30	31	32
1	Valor	0.5	OZ/A	16 b-g	18 a-d	16 a-g	17 a-e	14 c-h	15 b-f	17 a-d	16 a-e
2	Valor	1.0	OZ/A	15 b-g	18 a-d	14 d-h	15 c-g	16 a-g	18 a-e	18 a-d	18 a-d
3	Valor	1.5	OZ/A	16 b-g	14 def	16 a-g	11 gh	12 fgh	13 d-g	16 b-e	11 fg
4	Valor	2.0	OZ/A	13 efg	12 ef	14 c-g	8 h	11 gh	9 g	11 fg	13 d-g
5	Treflan	0.5	PT/A	18 a-e	17 b-e	17 a-e	20 a-d	19 abc	21 ab	18 abc	22 a
6	Treflan Dual Magnum	0.5 8	PT/A OZ/A	18 a-d	17 b-e	19 abc	17 a-e	21 ab	17 a-e	18 a-d	19 a-d
7	Non-treated			23 a	23 a	20 a	17 a-e	21 ab	21 a	21 ab	19 abc
8	Treflan Dual Magnum	0.5 12	PT/A OZ/A	17 b-e	21 ab	20 a	23 a	21 a	22 a	19 abc	21 ab
9	Dual Magnum	8	OZ/A	15 b-g	17 b-e	16 a-f	15 b-g	15 b-h	16 a-e	15 c-f	15 b-f
10	Dual Magnum	12	OZ/A	14 c-g	15 c-f	13 e-h	14 d-g	13 e-h	15 c-g	14 c-f	14 c-g
11	Dual Magnum	8	OZ/A	16 b-f	19 a-d	19 ab	18 a-e	18 a-e	19 a-d	19 abc	21 ab
12	Dual Magnum	12	OZ/A	20 ab	20 abc	19 ab	19 a-d	20 abc	20 abc	18 a-d	20 ab
13	Outlook	8	OZ/A	11 g	14 def	11 gh	10 gh	13 d-h	13 efg	13 d-g	11 efg
14	Outlook	12	OZ/A	11 fg	10 f	9 h	11 fgh	10 h	10 fg	9 g	9 g
15	Outlook	8	OZ/A	20 ab	16 b-e	18 a-d	17 a-f	18 a-e	16 a-e	19 abc	18 a-d
16	Outlook	12	OZ/A	18 a-d	19 a-d	20 ab	17 a-e	15 b-h	19 a-d	21 a	19 abc
17	Prowl H20	12	OZ/A	19 abc	20 abc	19 abc	21 ab	20 ab	19 abc	18 a-d	19 abc
18	Prowl H20	24	OZ/A	20 ab	20 abc	18 a-d	21 abc	19 a-d	18 a-e	19 abc	20 ab
19	Prowl H20	12	OZ/A	18 a-e	18 a-d	18 a-e	17 a-e	20 abc	16 a-e	18 a-d	17 a-e
20	Prowl H20	24	OZ/A	18 a-e	19 a-d	18 a-d	19 a-e	20 ab	19 a-d	20 ab	19 abc
21	Sulfentrazone	0.1	LB A/A	16 b-g	19 a-d	15 b-g	16 b-g	15 b-h	17 a-e	18 a-d	17 a-d
22	Sulfentrazone	0.1	LB A/A	21 ab	19 a-d	17 a-f	19 a-e	18 a-e	20 abc	19 abc	19 a-d
23	Define	12	OZ/A	13 d-g	14 def	12 fgh	13 e-h	13 d-h	12 efg	11 efg	10 fg
24	Define	12	OZ/A	20 ab	16 b-e	18 a-d	17 a-f	17 a-f	16 a-e	16 b-e	16 a-e
LSD (P=.05)				4.6	4.6	4.1	5.1	5.0	4.9	4.2	4.7
Standard Deviation				3.3	3.3	2.9	3.6	3.5	3.5	3.0	3.3
CV				19.44	19.18	17.84	22.28	21.2	20.82	17.72	19.81
Bartlett's X2				24.401	21.794	22.605	14.586	20.726	20.837	31.617	24.005
P(Bartlett's X2)				0.382	0.533	0.484	0.909	0.598	0.591	0.108	0.404

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

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Trt No.	Treatment Name	Rate	Rate Unit	Avg.10pl BRSOL ht cm Mar-27-06 47 DA-A T2 33	Harv 1 BRSOL per 7 plts number May-11-06 34	Harv 1 BRSOL wt/7plants lbs May-11-06 35	Harv 1 BRSOL yield lbs/A May-11-06 T4 36
1	Valor	0.5	OZ/A	16 c-f	7 a	22 abc	44639 abc
2	Valor	1.0	OZ/A	16 def	7 a	23 ab	47138 ab
3	Valor	1.5	OZ/A	14 fg	7 a	20 abc	40926 abc
4	Valor	2.0	OZ/A	11 gh	7 a	17 a-d	34884 a-d
5	Treflan	0.5	PT/A	19 a-d	7 a	17 a-d	35377 a-d
6	Treflan Dual Magnum	0.5 8	PT/A OZ/A	18 a-e	7 a	17 a-d	35418 a-d
7	Non-treated			21 a	7 a	18 a-d	36564 a-d
8	Treflan Dual Magnum	0.5 12	PT/A OZ/A	20 ab	7 a	19 abc	39266 abc
9	Dual Magnum	8	OZ/A	15 ef	7 a	15 bcd	31866 bcd
10	Dual Magnum	12	OZ/A	14 fg	7 a	14 cde	29559 cde
11	Dual Magnum	8	OZ/A	18 a-d	7 a	18 a-d	37560 a-d
12	Dual Magnum	12	OZ/A	19 abc	7 a	21 abc	42720 abc
13	Outlook	8	OZ/A	12 gh	7 a	8 e	16205 e
14	Outlook	12	OZ/A	10 h	7 a	11 de	21987 de
15	Outlook	8	OZ/A	18 a-e	7 a	17 a-d	36227 a-d
16	Outlook	12	OZ/A	19 a-d	7 a	18 a-d	37508 a-d
17	Prowl H20	12	OZ/A	19 abc	7 a	19 abc	39064 abc
18	Prowl H20	24	OZ/A	19 abc	7 a	22 abc	45634 abc
19	Prowl H20	12	OZ/A	18 a-e	7 a	17 a-d	35242 a-d
20	Prowl H20	24	OZ/A	18 a-e	7 a	19 abc	39064 abc
21	Sulfentrazone	0.1	LB A/A	17 c-f	7 a	17 a-d	34319 a-d
22	Sulfentrazone	0.1	LB A/A	19 a-d	7 a	18 a-d	37270 a-d
23	Define	12	OZ/A	12 gh	7 a	19 abc	38940 abc
24	Define	12	OZ/A	17 b-f	7 a	24 a	50540 a
LSD (P=.05)				2.5	0.0	6.7	13797.2
Standard Deviation				1.8	0.0	4.7	9756.1
CV				10.83	0.0	26.37	26.37
Bartlett's X2				16.237	0.0	32.784	32.784
P(Bartlett's X2)				0.845	.	0.085	0.085

Means followed by same letter do not significantly differ (P=.05, Duncan's New MRT)
Column 33: T2 = @AVG([C23].[C32])
Column 36: T4 = [35]*2/42*43560

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Seeded turnip and transplant cabbage tolerance to numerous herbicides.

Trial ID: Veg10-06 Study Dir.: Stanley Culpepper
Location: Ponder 5137 Investigator: Stanley Culpepper

GENERAL TRIAL INFORMATION

Study Director: Andrew MacRae **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:** good
Postal Code: 31794 **Initiation Date:** Feb-08-06
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.	LAMAM	henbit	
2.	COPDI	Swinecress	Coronopus didymus

Crop 1: BRSRR TURNIP **Variety:** White Globe Turnip Top
Planting Date: Feb-08-06 **Planting Method:** seeded
Rate: 8 per ft **Depth:** 0.15 in **Perennial Age:** _____ _____
Row Spacing: 36 inch **Spacing Within Row:** 0.33 inch **Seed Bed:** flat
Soil Temperature: 54 F **Soil Moisture:** moist **Emergence Date:** Feb-17-06

Crop 2: BRSOL CABBAGE **Variety:** Bravo
Planting Date: Feb-10-06 **Planting Method:** transplant
Rate: 1 per ft **Depth:** 1 in **Perennial Age:** _____ _____
Row Spacing: 36 inch **Spacing Within Row:** 12 inch **Seed Bed:** flat
Soil Temperature: 58 F **Soil Moisture:** moist **Emergence Date:** _____

SITE AND DESIGN

Plot Width, Unit: 6 FT **Plot Length, Unit:** 15 FT **Reps:** 4
Site Type: Research station
Tillage Type: Conventional **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:** 6.1 **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: irrigated
Closest Weather Station: _____ **Distance:** _____ **Unit:** __

APPLICATION DESCRIPTION

	A	B
Application Date:	Feb-08-06	Feb-27-06
Time of Day:	10 am	6 pm
Application Method:	broadcast	broadcast
Application Timing:	PRE	2WAP
Applic. Placement:	on soil	overtop
Air Temp., Unit:	54 F	59 F
% Relative Humidity:	24	28
Wind Velocity, Unit:	2 mph	1 mph
Dew Presence (Y/N):	n	n
Water Hardness:		
Soil Temp., Unit:	54 F	62 F
Soil Moisture:	moist	moist
% Cloud Cover:	0	0

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	BRSRR PRE	BRSRR 2 WAP
Stage Scale:	not up	1-2 lf
Height, Unit:	0 inch	0.5 inch
Crop 2 Code, Stage:	BRSOL PRE	BRSOL 2 WAP
Stage Scale:	not plant	2 new lf
Height, Unit:	0 inch	3 inch

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WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	LAMAM PRE	LAMAM 2 WAP
Stage Scale:	not up	not up
Density, Unit:	10 ydsq	10 ydsq
Weed 2 Code, Stage:	COPDI PRE	COPDI 2 WAP
Stage Scale:	not up	0.25 inch
Density, Unit:	0 ydsq	8 ydsq

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	backpack	backpack
Operating Pressure:	24	24
Nozzle Type:	flat fan	flat fan
Nozzle Size:	11002	11002
Nozzle Spacing, Unit:	18 inch	18 inch
Nozzles/Row:	2	2
Band Width, Unit:		
Boom Length, Unit:	4.5 feet	4.5 feet
Boom Height, Unit:	15 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