

University of Georgia

Seeded mustard and transplant cabbage tolerance to PRE and POST herbicides.

Trial ID: Veg3-06

Study Dir.: Andrew MacRae

Location: Ponder 5138

Investigator: Stanley Culpepper

Reps: 4

Plots: 6 by 15 feet

Spray vol: 14.8 gal/ac

Mix size: 2 liters (min .46301)

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	4
1	Valor	51	DG	0.5	OZ/A	PRE	B	0.506 g/mx	101	226	322	416
2	Valor	51	DG	1.0	OZ/A	PRE	B	1.012 g/mx	102	203	312	423
3	Valor	51	DG	1.5	OZ/A	PRE	B	1.518 g/mx	103	221	320	417
4	Valor	51	DG	2.0	OZ/A	PRE	B	2.024 g/mx	104	225	319	424
5	Treflan	4	L	0.5	PT/A	PPI	A	8.445 ml/mx	105	218	307	420
6	Treflan	4	L	0.5	PT/A	PPI	A	8.445 ml/mx	106	222	315	404
	Dual Magnum	7.62	L	8	OZ/A	2WAP	C	8.446 ml/mx				
7	Non-treated								107	215	301	408
8	Treflan	4	L	0.5	PT/A	PPI	A	8.445 ml/mx	108	210	306	413
	Dual Magnum	7.62	L	12	OZ/A	2WAP	C	12.67 ml/mx				
9	Dual Magnum	7.62	L	8	OZ/A	PRE	B	8.446 ml/mx	109	224	321	426
10	Dual Magnum	7.62	L	12	OZ/A	PRE	B	12.67 ml/mx	110	216	311	418
11	Dual Magnum	7.62	L	8	OZ/A	2WAP	C	8.446 ml/mx	111	206	302	403
12	Dual Magnum	7.62	L	12	OZ/A	2WAP	C	12.67 ml/mx	112	202	314	419
13	Outlook	6	L	8	OZ/A	PRE	B	8.446 ml/mx	113	219	316	401
14	Outlook	6	L	12	OZ/A	PRE	B	12.67 ml/mx	114	208	326	406
15	Outlook	6	L	8	OZ/A	2WAP	C	8.446 ml/mx	115	204	305	421
16	Outlook	6	L	12	OZ/A	2WAP	C	12.67 ml/mx	116	212	309	411
17	Prowl H20	3.8	L	12	OZ/A	PRE	B	12.67 ml/mx	117	201	308	415
18	Prowl H20	3.8	L	24	OZ/A	PRE	B	25.34 ml/mx	118	220	303	409
19	Prowl H20	3.8	L	12	OZ/A	2WAP	C	12.67 ml/mx	119	223	304	410
20	Prowl H20	3.8	L	24	OZ/A	2WAP	C	25.34 ml/mx	120	205	325	407
21	Sulfentrazone	4	L	0.1	LB A/A	PRE	B	3.378 ml/mx	121	209	318	412
22	Sulfentrazone	4	L	0.15	LB A/A	PRE	B	5.067 ml/mx	122	207	313	425
23	Sulfentrazone	4	L	0.1	LB A/A	2WAP	C	3.378 ml/mx	123	213	310	402
24	Define	4	L	12	OZ/A	PRE	B	12.67 ml/mx	124	211	324	414
25	Define	4	L	12	OZ/A	2WAP	B	12.67 ml/mx	125	217	323	422
26	Non-treated								126	214	317	405

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
6.325	g	Valor	51	DG	
31.669	ml	Treflan	4	L	
79.181	ml	Dual Magnum	7.62	L	
52.787	ml	Outlook	6	L	
95.017	ml	Prowl H20	3.8	L	
14.779	ml	Sulfentrazone	4	L	
31.672	ml	Define	4	L	

* 'Per area' calculations based on spray volume= 14.8 gal/ac, mix size= 2 liters (mix size basis).

* Product amount calculations increased 25 % for overage adjustment.

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Seeded mustard and transplant cabbage tolerance to PRE and POST herbicides.

Trial ID: Veg3-06

Study Dir.: Andrew MacRae

Location: Ponder 5138

Investigator: Stanley Culpepper

Trial Comments

OBJECTIVE: Seeded mustard and transplant cabbage herbicide screening to determine potential products that could be labeled for growers through IR-4.

Visual Transplant Cabbage Response:

- 1) Products that have promise for use in transplant cabbage (10% or less injury for most of the season) include: Treflan (already labeled); Dual Magnum 8 or 12 oz POST; Outlook 8 to 12 oz POST; Prowl H20 12 oz PRE; Prowl H20 12 or 24 oz POST; sulfentrazone 0.1 lb A/A PRE.
 - 2) Products that have marginal tolerance in transplant cabbage include: Valor 0.5 oz PRE; sulfentrazone 0.15 lb PRE; sulfentrazone 0.1 lb POST.
- Number of cabbage transplants per 7 feet (a plant was planted every foot):
1. Valor at 1.5 and 2 oz/A reduced plant stand compared to the non-treated control.
 2. No other treatments impacted plant stand.

Cabbage Yield (Harvested 7 heads in each plot, even those with stand loss):

1. Yields tended to be less when plots were treated with Define or Outlook PRE.
2. Valor yields were actually the highest but again 7 plants per plot were harvested and since the Valor removed some of the plants present it allowed those surviving to produce extremely large heads.

Seeded Mustard Visual Response:

1. Products that have potential for use in seeded mustard include 1) Treflan; Dual 8 oz/A PRE or POST; Outlook 8 oz/A PRE and POST; Prowl H20 12 oz PRE or POST; sulfentrazone 0.1 lb A/A PRE.
2. Products that have marginal tolerance in seeded mustard include 1) Dual Magnum 12 oz/A PRE or POST; Outlook 12 oz/A PRE and POST, Prowl 24 oz/A POST, and sulfentrazone 0.15 lb A/A PRE.

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Weed Code		BRSJU	BRSJU	BRSJU	BRSJU	BRSJU	BRSJU	plant 1	plant 2		
Crop Code		BRSJU	BRSJU	BRSJU	BRSJU	BRSJU	BRSJU	BRSOL	BRSOL		
Rating Data Type		injury	injury	stunt	stunt	stunt	stunt	ht	ht		
Rating Unit		percent	percent	percent	percent	percent	percent	cm	cm		
Rating Date		Oct-10-05	Nov-01-05	Sep-27-05	Oct-04-05	Oct-11-05	Oct-24-05	Oct-04-05	Oct-04-05		
Assessed By		SC	SC	AM	AM	Am	AM				
Trt-Eval Interval		25 DA-A	47 DA-A	12 DA-A	19 DA-A	26 DA-A	39 DA-A	19 DA-A	19 DA-A		
ARM Action Codes											
Trt No.	Treatment Name	Rate	Unit	9	10	11	12	13	14	15	16
1	Valor	0.5	OZ/A	98 a	75 b	99 a	51 abc	99 a	97 a	16 abc	19 a
2	Valor	1.0	OZ/A	99 a	96 a	100 a	53 abc	98 a	97 a	14 bc	16 abc
3	Valor	1.5	OZ/A	99 a	96 a	98 a	70 a	98 a	90 a	15 abc	14 a-d
4	Valor	2.0	OZ/A	100 a	100 a	100 a	70 a	100 a	100 a	11 c	11 cd
5	Treflan	0.5	PT/A	6 e-h	7 fgh	0 d	9 ef	0 f	0 e	18 ab	16 abc
6	Treflan Dual Magnum	0.5 8	PT/A OZ/A	7 e-h	7 fgh	0 d	9 ef	0 f	3 e	17 ab	16 ab
7	Non-treated			0 h	0 h	0 d	0 f	0 f	0 e	17 ab	19 a
8	Treflan Dual Magnum	0.5 12	PT/A OZ/A	12 d-h	4 fgh	0 d	19 def	1 f	0 e	19 ab	18 ab
9	Dual Magnum	8	OZ/A	7 e-h	3 gh	8 d	31 cde	3 f	0 e	16 abc	15 a-d
10	Dual Magnum	12	OZ/A	8 e-h	0 h	3 d	30 c-f	3 f	0 e	14 abc	13 bcd
11	Dual Magnum	8	OZ/A	2 gh	2 gh	0 d	14 def	0 f	0 e	18 ab	19 a
12	Dual Magnum	12	OZ/A	13 d-g	4 gh	0 d	25 c-f	13 ef	8 de	17 ab	17 ab
13	Outlook	8	OZ/A	3 gh	3 gh	10 cd	35 b-e	0 f	0 e	18 ab	15 a-d
14	Outlook	12	OZ/A	16 c-f	4 gh	18 c	41 bcd	10 f	3 e	16 abc	15 a-d
15	Outlook	8	OZ/A	2 gh	2 gh	0 d	9 ef	0 f	3 e	19 ab	18 a
16	Outlook	12	OZ/A	9 e-h	14 ef	0 d	15 def	3 f	5 e	14 abc	17 ab
17	Prowl H20	12	OZ/A	10 d-h	11 efg	0 d	9 ef	0 f	5 e	19 ab	19 a
18	Prowl H20	24	OZ/A	25 c	29 d	8 d	21 def	30 cd	35 c	19 ab	18 a
19	Prowl H20	12	OZ/A	5 fgh	5 fgh	0 d	8 ef	0 f	10 de	18 ab	18 a
20	Prowl H20	24	OZ/A	18 cde	19 e	0 d	15 def	16 def	30 c	17 ab	17 ab
21	Sulfentrazone	0.1	LB A/A	6 e-h	3 gh	5 d	14 def	3 f	5 e	19 ab	17 ab
22	Sulfentrazone	0.15	LB A/A	6 e-h	7 fgh	3 d	15 def	0 f	0 e	18 ab	19 a
23	Sulfentrazone	0.1	LB A/A	46 b	50 c	0 d	41 bcd	68 b	55 b	17 ab	17 ab
24	Define	12	OZ/A	21 cd	1 gh	48 b	63 ab	33 c	1 e	14 abc	11 d
25	Define	12	OZ/A	14 c-g	10 fgh	0 d	28 c-f	28 cde	23 cd	18 ab	18 a
26	Non-treated			0 h	0 h	0 d	0 f	0 f	0 e	20 a	18 ab
LSD (P=.05)				10.3	8.3	8.5	24.9	15.0	14.5	5.0	4.2
Standard Deviation				7.3	5.9	6.0	17.6	10.6	10.2	3.5	3.0
CV				30.0	27.72	31.72	66.14	45.84	46.88	21.07	17.99
Bartlett's X2				39.737	38.157	26.434	40.205	71.763	58.395	21.041	22.576
P(Bartlett's X2)				0.012*	0.012*	0.003*	0.015*	0.001*	0.001*	0.69	0.545

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	BRSOL	BRSOL	BRSOL	BRSOL	BRSOL	BRSOL	BRSOL	BRSOL			
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht			
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm			
Rating Date	Oct-04-05	Oct-04-05	Oct-04-05	Oct-04-05	Oct-04-05	Oct-04-05	Oct-04-05	Oct-04-05			
Assessed By											
Trt-Eval Interval	19 DA-A	19 DA-A	19 DA-A	19 DA-A	19 DA-A	19 DA-A	19 DA-A	19 DA-A			
ARM Action Codes											
Trt No.	Treatment Name	Rate	Unit	17	18	19	20	21	22	23	24
1	Valor	0.5	OZ/A	18 ab	17 abc	16 a-f	18 ab	17 a-g	17 abc	13 abc	15 a-d
2	Valor	1.0	OZ/A	15 abc	15 abc	15 a-g	15 a-d	12 fgh	12 cd	12 c	2 e
3	Valor	1.5	OZ/A	16 abc	15 abc	11 g	11 de	13 e-h	6 e	4 d	4 e
4	Valor	2.0	OZ/A	16 abc	15 abc	16 a-g	13 cde	9 h	3 e	0 d	0 e
5	Treflan	0.5	PT/A	16 abc	19 ab	19 ab	17 abc	17 a-g	18 ab	17 ab	17 a-d
6	Treflan Dual Magnum	0.5 8	PT/A OZ/A	16 abc	20 a	20 ab	19 a	20 ab	17 ab	17 abc	17 a-d
7	Non-treated			19 a	18 ab	19 abc	17 abc	18 a-d	17 abc	16 abc	12 d
8	Treflan Dual Magnum	0.5 12	PT/A OZ/A	16 abc	18 ab	16 a-f	16 a-d	15 b-g	16 a-d	15 abc	16 a-d
9	Dual Magnum	8	OZ/A	14 abc	15 abc	13 efg	15 a-d	14 c-g	15 a-d	15 abc	14 cd
10	Dual Magnum	12	OZ/A	16 abc	16 abc	18 a-d	15 a-d	15 b-g	16 a-d	15 abc	13 d
11	Dual Magnum	8	OZ/A	16 abc	15 abc	18 a-d	17 abc	17 a-f	15 a-d	16 abc	14 cd
12	Dual Magnum	12	OZ/A	18 abc	18 ab	17 a-f	15 a-d	19 abc	17 abc	16 abc	17 a-d
13	Outlook	8	OZ/A	16 abc	15 abc	13 d-g	15 a-d	16 a-g	15 a-d	17 ab	17 a-d
14	Outlook	12	OZ/A	13 bc	14 bc	14 c-g	15 a-d	13 d-h	14 bcd	15 abc	14 bcd
15	Outlook	8	OZ/A	19 a	17 abc	19 abc	17 abc	18 abc	18 ab	17 ab	19 abc
16	Outlook	12	OZ/A	16 abc	17 abc	16 a-f	17 abc	18 a-d	17 abc	15 abc	17 a-d
17	Prowl H20	12	OZ/A	20 a	18 ab	15 b-g	18 abc	19 abc	20 a	18 ab	20 a
18	Prowl H20	24	OZ/A	17 abc	16 abc	17 a-e	17 abc	17 a-f	15 a-d	18 ab	16 a-d
19	Prowl H20	12	OZ/A	17 abc	19 a	18 abc	15 a-d	18 a-e	17 ab	17 abc	16 a-d
20	Prowl H20	24	OZ/A	19 a	19 ab	17 a-e	18 abc	18 a-d	18 ab	18 ab	19 ab
21	Sulfentrazone	0.1	LB A/A	17 abc	15 abc	18 a-d	17 abc	14 c-h	18 ab	17 ab	19 abc
22	Sulfentrazone	0.15	LB A/A	16 abc	16 abc	18 a-d	15 a-d	17 a-f	15 a-d	18 ab	16 a-d
23	Sulfentrazone	0.1	LB A/A	17 abc	16 abc	16 a-f	15 a-d	16 a-g	17 abc	16 abc	16 a-d
24	Define	12	OZ/A	12 c	12 c	12 fg	9 e	12 gh	11 d	13 bc	14 cd
25	Define	12	OZ/A	14 abc	17 abc	15 a-g	14 bcd	16 a-g	17 abc	15 abc	16 a-d
26	Non-treated			19 a	15 abc	20 a	19 a	21 a	19 ab	19 a	17 a-d
LSD (P=.05)				4.5	4.2	4.1	4.0	4.2	4.2	4.4	4.3
Standard Deviation				3.2	2.9	2.9	2.8	3.0	3.0	3.1	3.1
CV				19.45	18.1	17.88	17.9	18.62	19.72	21.09	21.19
Bartlett's X2				20.472	22.246	20.991	30.108	30.839	46.066	55.835	23.57
P(Bartlett's X2)				0.722	0.622	0.693	0.22	0.194	0.006*	0.001*	0.486

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

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Weed Code	Avg10pla	plant 1	plant 2	plant 3	plant 4	plant 5	plant 6	plant 7	
Crop Code	BRSOL	BRSJU	BRSJU	BRSJU	BRSJU	BRSJU	BRSJU	BRSJU	
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht	
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm	
Rating Date	Oct-04-05	Oct-04-05	Oct-04-05	Oct-04-05	Oct-04-05	Oct-04-05	Oct-04-05	Oct-04-05	
Assessed By	19 DA-A	19 DA-A	19 DA-A	19 DA-A	19 DA-A	19 DA-A	19 DA-A	19 DA-A	
Trt-Eval Interval	19 DA-A	19 DA-A	19 DA-A	19 DA-A	19 DA-A	19 DA-A	19 DA-A	19 DA-A	
ARM Action Codes	T1								
Trt Treatment	Rate								
No. Name	Rate Unit	25	26	27	28	29	30	31	32
1 Valor	0.5 OZ/A	16 a-e	0 fg	0 fg	0 ef	0 bc	1 d-g	1 bc	0 d
2 Valor	1.0 OZ/A	13 fgh	0 fg	1 efg	0 ef	0 bc	0 fg	0 c	0 d
3 Valor	1.5 OZ/A	11 hi	0 fg	0 fg	1 def	0 bc	1 efg	0 c	1 cd
4 Valor	2.0 OZ/A	9 i	0 g	0 g	0 f	0 c	0 g	0 c	0 d
5 Treflan	0.5 PT/A	17 abc	3 a-e	3 b-e	4 abc	4 a	5 abc	4 ab	6 a
6 Treflan	0.5 PT/A	18 ab	5 ab	4 abc	5 ab	3 ab	6 a	5 a	4 ab
Dual Magnum	8 OZ/A								
7 Non-treated		17 a-d	3 c-g	3 b-e	4 abc	4 a	4 a-e	3 abc	4 ab
8 Treflan	0.5 PT/A	16 a-e	2 efg	2 c-g	3 a-f	2 abc	2 c-g	2 abc	3 bcd
Dual Magnum	12 OZ/A								
9 Dual Magnum	8 OZ/A	15 def	4 a-e	3 b-e	4 a-d	3 abc	3 a-g	4 a	4 ab
10 Dual Magnum	12 OZ/A	15 c-f	2 d-g	3 b-e	5 a	4 a	4 a-e	3 abc	3 bcd
11 Dual Magnum	8 OZ/A	16 a-e	4 a-e	3 b-e	3 a-e	4 a	5 ab	5 a	2 bcd
12 Dual Magnum	12 OZ/A	17 a-d	4 a-e	3 b-e	3 a-f	4 a	4 a-e	3 abc	4 ab
13 Outlook	8 OZ/A	16 b-e	4 a-e	4 ab	4 a-d	3 abc	2 b-g	4 ab	2 bcd
14 Outlook	12 OZ/A	14 efg	2 d-g	2 c-g	4 a-d	3 ab	2 b-g	2 abc	2 bcd
15 Outlook	8 OZ/A	18 ab	3 b-f	4 a-d	3 a-f	5 a	4 a-d	4 a	5 ab
16 Outlook	12 OZ/A	16 a-e	6 a	3 b-e	2 b-f	3 ab	3 a-f	4 ab	3 abc
17 Prowl H20	12 OZ/A	18 ab	4 a-e	3 b-e	3 a-f	4 a	4 a-e	4 ab	3 abc
18 Prowl H20	24 OZ/A	17 a-d	4 a-e	2 b-f	5 abc	3 abc	2 b-g	3 abc	3 abc
19 Prowl H20	12 OZ/A	17 abc	5 ab	4 a-d	4 abc	4 a	3 a-g	4 ab	3 abc
20 Prowl H20	24 OZ/A	18 ab	3 c-g	3 b-e	3 a-f	2 abc	3 a-f	3 abc	4 ab
21 Sulfentrazone	0.1 LB A/A	17 a-d	5 a-d	3 b-e	4 abc	3 abc	4 a-d	3 abc	3 abc
22 Sulfentrazone	0.15 LB A/A	17 a-e	5 abc	6 a	5 abc	3 ab	5 abc	3 abc	3 abc
23 Sulfentrazone	0.1 LB A/A	16 a-e	3 c-g	1 d-g	2 c-f	3 abc	2 b-g	1 bc	3 bc
24 Define	12 OZ/A	12 gh	4 a-e	3 b-e	3 a-e	3 abc	3 a-g	3 abc	4 ab
25 Define	12 OZ/A	16 a-e	2 efg	2 c-g	3 a-f	3 abc	3 a-g	2 abc	2 bcd
26 Non-treated		18 a	4 a-e	3 bcd	4 abc	4 a	5 abc	3 abc	4 ab
LSD (P=.05)		2.2	2.2	1.9	2.5	2.5	2.7	2.7	2.4
Standard Deviation		1.6	1.5	1.3	1.8	1.8	1.9	1.9	1.7
CV		9.83	51.07	53.83	60.0	64.85	63.37	68.18	59.54
Bartlett's X2		19.586	46.968	32.241	36.215	34.839	24.031	24.802	11.141
P(Bartlett's X2)		0.768	0.003*	0.121	0.052	0.071	0.46	0.361	0.973

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

Column 25: T1 = ((C15)+[C16]+[C17]+[C18]+[C19]+[C20]+[C21]+[C22]+[C23]+[C24])/10

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Weed Code	plant 8	plant 9	plant 10	Avg.10pl	Harv 1	Harv 1			
Crop Code	BRSJU	BRSJU	BRSJU	BRSJU	BRSOL	BRSOL			
Rating Data Type	ht	ht	ht	ht	fruit/7ft	wt/7heads			
Rating Unit	cm	cm	cm	cm	#	lb			
Rating Date	Oct-04-05	Oct-04-05	Oct-04-05	Oct-04-05	Dec-19-05	Dec-19-05			
Assessed By									
Trt-Eval Interval	19 DA-A	19 DA-A	19 DA-A	19 DA-A	95 DA-A	95 DA-A			
ARM Action Codes				T2					
Trt No.	Treatment Name	Rate	Unit	33	34	35	36	37	38
1	Valor	0.5	OZ/A	0 b	0 b	0 c	0 c	6 a	15 ab
2	Valor	1.0	OZ/A	0 b	0 b	0 c	0 c	6 a	16 a
3	Valor	1.5	OZ/A	0 b	0 b	0 c	0 c	5 bc	12 a-d
4	Valor	2.0	OZ/A	0 b	0 b	0 c	0 c	5 c	15 ab
5	Treflan	0.5	PT/A	3 ab	2 ab	4 ab	4 a	7 a	10 b-e
6	Treflan	0.5	PT/A	5 a	2 ab	2 bc	4 a	7 a	9 cde
	Dual Magnum	8	OZ/A						
7	Non-treated			4 a	5 a	2 bc	4 ab	7 a	8 cde
8	Treflan	0.5	PT/A	3 ab	4 a	4 ab	3 ab	7 a	11 a-d
	Dual Magnum	12	OZ/A						
9	Dual Magnum	8	OZ/A	3 a	4 a	4 ab	3 ab	7 a	7 cde
10	Dual Magnum	12	OZ/A	3 ab	3 ab	3 ab	3 ab	7 a	9 cde
11	Dual Magnum	8	OZ/A	4 a	4 a	5 ab	4 a	7 a	8 cde
12	Dual Magnum	12	OZ/A	3 ab	2 ab	3 ab	3 ab	7 a	8 cde
13	Outlook	8	OZ/A	3 a	4 a	2 bc	3 ab	7 a	6 de
14	Outlook	12	OZ/A	3 ab	3 ab	4 ab	3 ab	6 a	5 e
15	Outlook	8	OZ/A	5 a	3 ab	3 ab	4 a	7 a	11 a-d
16	Outlook	12	OZ/A	3 a	4 a	3 ab	3 ab	7 a	13 abc
17	Prowl H20	12	OZ/A	3 ab	5 a	6 a	4 a	7 a	10 b-e
18	Prowl H20	24	OZ/A	3 ab	3 ab	5 ab	3 ab	7 a	8 cde
19	Prowl H20	12	OZ/A	2 ab	4 a	4 ab	4 a	6 a	7 cde
20	Prowl H20	24	OZ/A	3 ab	4 a	2 bc	3 ab	6 a	10 b-e
21	Sulfentrazone	0.1	LB A/A	4 a	5 a	4 ab	4 a	6 ab	11 a-d
22	Sulfentrazone	0.15	LB A/A	4 a	3 ab	3 ab	4 a	7 a	10 b-e
23	Sulfentrazone	0.1	LB A/A	2 ab	2 ab	2 bc	2 b	7 a	12 a-d
24	Define	12	OZ/A	3 a	3 ab	4 ab	3 ab	7 a	5 e
25	Define	12	OZ/A	3 ab	3 ab	3 bc	2 ab	6 ab	9 cde
26	Non-treated			5 a	4 a	4 ab	4 a	7 a	9 cde
LSD (P=.05)				2.6	2.7	2.3	1.3	1.0	4.8
Standard Deviation				1.8	1.9	1.6	0.9	0.7	3.4
CV				68.48	67.39	56.22	33.1	10.94	34.81
Bartlett's X2				15.017	20.439	20.811	28.346	12.295	18.162
P(Bartlett's X2)				0.822	0.494	0.471	0.246	0.657	0.835

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

Column 36: T2 = ((C26)+[C27]+[C28]+[C29]+[C30]+[C31]+[C32]+[C33]+[C34]+[C35])/10

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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: 92	% OM: 1.0	Texture: loamy sand
% Silt: 4	pH: 6.5	Soil Name: _____
% Clay: 4	CEC: _____	Fert. Level: _____

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit

MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Type	Interval	Unit
1.							

Overall Moisture Conditions: _____

Closest Weather Station: _____ Distance: _____ Unit: _____

APPLICATION DESCRIPTION

	A	B	C
Application Date:	Sep-12-05	Sep-12-05	Sep-28-05
Time of Day:	10 am	11 am	8 am
Application Method:	broadcast	broadcast	broadcast
Application Timing:	PPI	PRE	POST
Applic. Placement:	soil	soil	overtop
Air Temp., Unit:	82 F	82 F	75 F
% Relative Humidity:	46	46	70
Wind Velocity, Unit:	2 mph	2 mph	3 mph
Dew Presence (Y/N):	n	n	n
Water Hardness:			
Soil Temp., Unit:	81 F	81 F	73 F
Soil Moisture:	moist	moist	moist
% Cloud Cover:	20	20	10

CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	BRSOL PPI	BRSOL PRE	BRSOL POST
Stage Scale:	not trans	not trans	7-12 leaf
Height, Unit:	0 inch	0 inch	9 inch
Crop 2 Code, Stage:	BRSJU PPI	BRSJU PRE	BRSJU POST
Stage Scale:	not up	not up	1-3 leaf
Height, Unit:	0 inch	0 inch	2.5 inch

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WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code, Stage:			
Stage Scale:			
Density, Unit:			

APPLICATION EQUIPMENT

	A	B	C
Appl. Equipment:	backpack	backpack	backpack
Operating Pressure:	23	23	23
Nozzle Type:	flat fan	flat fan	flat fan
Nozzle Size:	11002	11002	11002
Nozzle Spacing, Unit:	18 inch	18 inch	18 inch
Nozzles/Row:	2	2	2
Band Width, Unit:			
Boom Length, Unit:	4.5 feet	4.5 feet	4.5 feet
Boom Height, Unit:	15 inch	15 inch	15 inch
Ground Speed, Unit:	3 mph	3 mph	3 mph
Incorporation Equip.:			
Hours to Incorp.:			
Incorp. Depth, Unit:			
Carrier:	water	water	water
Spray Volume, Unit:	14.8 GPA	14.8 GPA	14.8 GPA
Spray pH:			
Propellant:	CO2	CO2	CO2
Tank Mix (Y/N):	Y	Y	Y

Trt No	Treatment Application Comment