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Weed management in snap beans.

Trial ID: Veg17-05(snap)

Study Dir.: Culpepper

Location: Ponder Farm

Investigator: Stanley Culpepper

Reps: 4

Plots: 6 by 25 feet

Spray vol: 14.8 gal/ac

Mix size: 1 liters (min .77168)

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	Non-treated								101	213	307	409
2	Sandea	75	DF	0.75	oz/a	PRE	B	0.3795 g/mx	102	221	312	411
3	Sandea NIS	75	DF	0.75	oz/a	POST-3T	C	0.3795 g/mx	103	211	321	423
		L		0.25	% v/v	POST-3T	C	2.5 ml/mx				
4	Reflex	2	L	1	pt/a	PRE	B	8.445 ml/mx	104	209	314	406
5	Reflex NIS	2	L	1	pt/a	POST-3T	C	8.445 ml/mx	105	206	303	408
		L		0.25	% v/v	POST-3T	C	2.5 ml/mx				
6	Reflex	2	L	1.5	pt/a	PRE	B	12.67 ml/mx	106	215	318	416
7	Reflex NIS	2	L	1.5	pt/a	POST-3T	C	12.67 ml/mx	107	208	322	413
		L		0.25	% v/v	POST-3T	C	2.5 ml/mx				
8	Eptam (3 in incorp)	7	E	3.5	pt/a	PPI	A	29.56 ml/mx	108	202	320	404
9	Eptam	7	E	3.5	pt/a	PRE	B	29.56 ml/mx	109	219	308	402
10	Dual Magnum	7.64	L	1	pt/a	PPI	A	8.445 ml/mx	110	218	311	415
11	Dual Magnum	7.64	L	1	pt/a	PRE	B	8.445 ml/mx	111	205	324	401
12	Eptam (3 in incorp) Sandea NIS	7	E	3.5	pt/a	PPI	A	29.56 ml/mx	112	207	313	414
		75	DF	0.75	oz/a	POST-3T	C	0.3795 g/mx				
		L		0.25	% v/v	POST-3T	C	2.5 ml/mx				
13	Eptam (1 in incorp) Sandea NIS	7	E	3.5	pt/a	PPI	A	29.56 ml/mx	113	203	323	422
		75	DF	0.75	oz/a	POST-3T	C	0.3795 g/mx				
		L		0.25	% v/v	POST-3T	C	2.5 ml/mx				
14	Eptam (1 in incorp) Sandea (1 in incorp)	7.64	L	3.5	pt/a	PPI	A	29.56 ml/mx	114	222	315	410
		75	DF	0.75	oz/a	PPI	A	0.3795 g/mx				
15	Eptam (3 in incorp) Sandea (3 in incorp)	7.64	L	3.5	pt/a	PPI	A	29.56 ml/mx	115	214	309	407
		75	DF	0.75	oz/a	PPI	A	0.3795 g/mx				
16	Targa NIS	0.88	E	8	oz/a	POST-3T	C	4.223 ml/mx	116	204	306	420
		L		0.25	% v/v	POST-3T	C	2.5 ml/mx				
17	Targa NIS	0.88	E	10	oz/a	POST-3T	C	5.279 ml/mx	117	220	317	403
		L		0.25	% v/v	POST-3T	C	2.5 ml/mx				
18	Targa NIS Sandea	0.88	E	8	oz/a	POST-3T	C	4.223 ml/mx	118	216	305	424
		L		0.25	% v/v	POST-3T	C	2.5 ml/mx				
		75	DF	0.75	oz/a	POST-3T	C	0.3795 g/mx				
19	Targa COC Basagran	0.88	E	8	oz/a	POST-3T	C	4.223 ml/mx	119	217	301	418
		L		1	% v/v	POST-3T	C	9.999 ml/mx				
		4	L	1.5	pt/a	POST-3T	C	12.67 ml/mx				
20	Targa NIS Basagran Sandea	0.88	E	8	oz/a	POST-3T	C	4.223 ml/mx	120	224	316	421
		L		0.25	% v/v	POST-3T	C	2.5 ml/mx				
		4	L	1.5	pt/a	POST-3T	C	12.67 ml/mx				
		75	DF	0.75	oz/a	POST-3T	C	0.3795 g/mx				
21	Dual Magnum Targa NIS	7.64	L	1	pt/a	PRE	B	8.445 ml/mx	121	223	319	412
		0.88	E	8	oz/a	POST-3T	C	4.223 ml/mx				
		L		0.25	% v/v	POST-3T	C	2.5 ml/mx				
22	Dual Magnum Select COC	7.64	L	1	pt/a	PRE	B	8.445 ml/mx	122	212	302	417
		2	EC	6	oz/a	POST-3T	C	3.167 ml/mx				
		L		1	% v/v	POST-3T	C	9.999 ml/mx				
23	Dual Magnum Targa NIS Sandea	7.64	L	1	pt/a	PRE	B	8.445 ml/mx	123	210	304	419
		0.88	E	8	oz/a	POST-3T	C	4.223 ml/mx				
		L		0.25	% v/v	POST-3T	C	2.5 ml/mx				
		75	DF	0.75	oz/a	POST-3T	C	0.3795 g/mx				

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Reps: 4 Plots: 6 by 25 feet
 Spray vol: 14.8 gal/ac Mix size: 1 liters (min .77168)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Stg	Appl Code	Amt Product to Measure	Plot No. By Rep			
									1	2	3	4
24	Dual Magnum	7.64	L	1	pt/a	PRE	B	8.445 ml/mx	124	201	310	405
	Select	2	EC	6	oz/a	POST-3T	C	3.167 ml/mx				
	COC		L	1	% v/v	POST-3T	C	9.999 ml/mx				
	Sandea	75	DF	0.75	oz/a	POST-3T	C	0.3795 g/mx				

Sort Order: Treatment

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

Amount*	Unit	Treatment Name	Lot Code
3.795	g	Sandea 75 DF	
34.371	ml	NIS L	
52.782	ml	Reflex 2 L	
73.894	ml	Eptam (3 in incorp) 7 E	
36.947	ml	Eptam 7 E	
63.338	ml	Dual Magnum 7.64 L	
36.947	ml	Eptam (1 in incorp) 7 E	
36.947	ml	Eptam (1 in incorp) 7.64 L	
0.474	g	Sandea (1 in incorp) 75 DF	
36.947	ml	Eptam (3 in incorp) 7.64 L	
0.474	g	Sandea (3 in incorp) 75 DF	
38.271	ml	Targa 0.88 E	
37.496	ml	COC L	
31.669	ml	Basagran 4 L	
7.918	ml	Select 2 EC	

- * '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 snap bean and grass response to Sandea, Eptam, Targa, and Reflex.

VISUAL INJURY:

1. Visual ratings noted no significant injury throughout the season.

PLANT HEIGHTS:

1. Soil applied herbicide applications were followed by a heavy rain (actually started raining while applying PRE's).
2. At 33 day after soil applied applications, shorter snap beans were noted with nearly all soil applied herbicides. However, by 43 DAP bean heights were not affected by soil-applied or POST herbicides.

WEED RESPONSE:

Texas panicum:

1. Targa alone or in tank mixtures provided excellent control.
2. Eptam incorporated was much more effective than when applied PRE (remember it rained during PRE applications so activation was optimal). Additionally, the 1 inch incorporation with Eptam + Sandea even seemed to be less effective than Eptam alone incorporated 3 inches.

Florida pusley:

1. Dual systems provided good to excellent control.
2. Eptam incorporated 3 inch deep provided good control while PRE applications stunk.
3. Reflex post provided excellent control.

Carpetweed:

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1. Carpetweed was difficult to see under the other weeds present and ratings are extremely variable.
2. Dual, Reflex PRE, and Eptam 3 inch incorporation provided fair to good early season control.
3. Reflex POST provided excellent control.

YIELD (5 row feet of Charon snap bean were harvested):

1. Snap bean total biomass and the number of beans harvested were not impacted by treatments.
2. Weight of beans harvested appeared to follow trends in response to both grass control and pusley control.

GENERAL COMMENTS:

1. Each plot contained one row of Charon and one row of Bronco snap bean. No cultivar differences were noted so injury is reported together.

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Weed management in snap beans.

Trial ID: Veg17-05(snap)

Study Dir.: Culpepper

Location: Ponder Farm

Investigator: Stanley Culpepper

Weed Code		snapbean injury percent	snapbean injury percent	snapbean injury percent	PANTE control percent	PANTE control percent	RCHSC control percent	RCHSC control percent	MOLVE control percent		
Crop Code		Apr-22-05	May-16-05	May-20-05	May-20-05	Jun-02-05	May-20-05	Jun-02-05	May-20-05		
Rating Data Type		10 DA-A	34 DA-A	38 DA-A	38 DA-A	51 DA-A	38 DA-A	51 DA-A	38 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	Sandea	0.75	oz/a	0	0	3	69	36	85	80	78
3	Sandea NIS	0.75 0.25	oz/a % v/v	0	0	4	58	35	68	74	79
4	Reflex	1	pt/a	0	0	0	77	57	87	70	90
5	Reflex NIS	1 0.25	pt/a % v/v	0	0	0	81	68	96	94	99
6	Reflex	1.5	pt/a	0	0	0	92	68	84	74	96
7	Reflex NIS	1.5 0.25	pt/a % v/v	3	0	4	84	58	99	98	99
8	Eptam (3 in incorp)	3.5	pt/a	0	0	3	85	74	89	89	70
9	Eptam	3.5	pt/a	0	0	3	66	41	50	61	47
10	Dual Magnum	1	pt/a	3	0	0	69	36	99	91	38
11	Dual Magnum	1	pt/a	0	0	6	77	47	98	91	76
12	Eptam (3 in incorp) Sandea NIS	3.5 0.75 0.25	pt/a oz/a % v/v	0	0	4	80	64	89	86	97
13	Eptam (1 in incorp) Sandea NIS	3.5 0.75 0.25	pt/a oz/a % v/v	0	0	0	62	38	74	69	57
14	Eptam (1 in incorp) Sandea (1 in incorp)	3.5 0.75	pt/a oz/a	0	0	3	74	41	99	85	81
15	Eptam (3 in incorp) Sandea (3 in incorp)	3.5 0.75	pt/a oz/a	3	0	3	77	37	91	88	97
16	Targa NIS	8 0.25	oz/a % v/v	0	0	0	94	99	0	0	0
17	Targa NIS	10 0.25	oz/a % v/v	0	0	0	92	99	0	0	0
18	Targa NIS Sandea	8 0.25 0.75	oz/a % v/v oz/a	0	0	7	95	99	64	54	26
19	Targa COC Basagran	8 1 1.5	oz/a % v/v pt/a	2	0	6	81	98	59	58	30
20	Targa NIS Basagran Sandea	8 0.25 1.5 0.75	oz/a % v/v pt/a oz/a	1	0	4	92	99	69	75	28
21	Dual Magnum Targa NIS	1 8 0.25	pt/a oz/a % v/v	0	0	0	95	99	98	93	86

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Weed Code			snapbean	snapbean	snapbean	PANTE	PANTE	RCHSC	RCHSC	MOLVE
Crop Code			injury	injury	injury	control	control	control	control	control
Rating Data Type			percent	percent	percent	percent	percent	percent	percent	percent
Rating Unit										
Rating Date			Apr-22-05	May-16-05	May-20-05	May-20-05	Jun-02-05	May-20-05	Jun-02-05	May-20-05
Trt-Eval Interval			10 DA-A	34 DA-A	38 DA-A	38 DA-A	51 DA-A	38 DA-A	51 DA-A	38 DA-A
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate Rate Unit	1	2	3	4	5	6	7	8
22	Dual Magnum Select COC	1 pt/a 6 oz/a 1 % v/v	3	0	0	95	98	99	91	77
23	Dual Magnum Targa NIS Sanda	1 pt/a 8 oz/a 0.25 % v/v 0.75 oz/a	0	0	0	95	98	99	98	94
24	Dual Magnum Select COC Sanda	1 pt/a 6 oz/a 1 % v/v 0.75 oz/a	1	0	2	95	99	99	94	91
LSD (P=.05)			3.4	0.0	6.4	10.7	10.5	10.0	9.8	25.5
Standard Deviation			2.4	0.0	4.5	7.6	7.4	7.1	6.9	18.0
CV			385.11	0.0	216.79	9.66	11.24	9.44	9.68	28.26

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

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Weed Code		MOLVE	plant 1	plant 2	plant 3	plant 4	plant 5	plant 6	plant 7	
Crop Code			snapbean	snapbean	snapbean	snapbean	snapbean	snapbean	snapbean	
Rating Data Type		control	ht	ht	ht	ht	ht	ht	ht	
Rating Unit		percent	cm	cm	cm	cm	cm	cm	cm	
Rating Date		Jun-02-05	May-15-05	May-15-05	May-15-05	May-15-05	May-15-05	May-15-05	May-15-05	
Trt-Eval Interval		51 DA-A	33 DA-A	33 DA-A	33 DA-A	33 DA-A	33 DA-A	33 DA-A	33 DA-A	
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	9	10	11	12	13	14	15	16
		Rate Unit								
1	Non-treated		0	23	22	25	23	21	22	22
2	Sandea	0.75 oz/a	55	17	17	17	16	16	16	15
3	Sandea NIS	0.75 oz/a 0.25 % v/v	54							
4	Reflex	1 pt/a	85	18	18	17	19	20	19	20
5	Reflex NIS	1 pt/a 0.25 % v/v	95							
6	Reflex	1.5 pt/a	74	19	18	17	18	19	18	19
7	Reflex NIS	1.5 pt/a 0.25 % v/v	98							
8	Eptam (3 in incorp)	3.5 pt/a	36	18	19	17	16	17	17	17
9	Eptam	3.5 pt/a	58	19	19	17	20	19	18	19
10	Dual Magnum	1 pt/a	35	20	21	21	20	21	19	18
11	Dual Magnum	1 pt/a	59	18	19	18	19	18	19	17
12	Eptam (3 in incorp) Sandea NIS	3.5 pt/a 0.75 oz/a 0.25 % v/v	81	15	20	18	17	19	20	18
13	Eptam (1 in incorp) Sandea NIS	3.5 pt/a 0.75 oz/a 0.25 % v/v	45	21	20	20	21	22	19	19
14	Eptam (1 in incorp) Sandea (1 in incorp)	3.5 pt/a 0.75 oz/a	54	13	17	18	18	18	18	18
15	Eptam (3 in incorp) Sandea (3 in incorp)	3.5 pt/a 0.75 oz/a	83	18	18	17	17	16	16	15
16	Targa NIS	8 oz/a 0.25 % v/v	0							
17	Targa NIS	10 oz/a 0.25 % v/v	0							
18	Targa NIS Sandea	8 oz/a 0.25 % v/v 0.75 oz/a	13							
19	Targa COC Basagran	8 oz/a 1 % v/v 1.5 pt/a	28							
20	Targa NIS Basagran Sandea	8 oz/a 0.25 % v/v 1.5 pt/a 0.75 oz/a	20							
21	Dual Magnum Targa NIS	1 pt/a 8 oz/a 0.25 % v/v	45	17	16	16	17	16	16	17
22	Dual Magnum Select COC	1 pt/a 6 oz/a 1 % v/v	66	17	16	15	15	16	17	17
23	Dual Magnum Targa NIS Sandea	1 pt/a 8 oz/a 0.25 % v/v 0.75 oz/a	79	19	19	16	17	18	17	18

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Weed Code	MOLVE	plant 1	plant 2	plant 3	plant 4	plant 5	plant 6	plant 7		
Crop Code		snapbean	snapbean	snapbean	snapbean	snapbean	snapbean	snapbean		
Rating Data Type	control	ht	ht	ht	ht	ht	ht	ht		
Rating Unit	percent	cm	cm	cm	cm	cm	cm	cm		
Rating Date	Jun-02-05	May-15-05	May-15-05	May-15-05	May-15-05	May-15-05	May-15-05	May-15-05		
Trt-Eval Interval	51 DA-A	33 DA-A	33 DA-A	33 DA-A	33 DA-A	33 DA-A	33 DA-A	33 DA-A		
ARM Action Codes										
# Subsamples, Dec.										
Trt No.	Treatment Name	Rate	Rate	Rate	Rate	Rate	Rate	Rate		
		Unit								
			9	10	11	12	13	14	15	16
24	Dual Magnum	1 pt/a	77	18	18	19	21	19	19	19
	Select	6 oz/a								
	COC	1 % v/v								
	Sandea	0.75 oz/a								
LSD (P=.05)			30.1	3.7	5.3	4.5	5.3	4.8	4.0	4.7
Standard Deviation			21.3	2.6	3.7	3.2	3.7	3.4	2.8	3.3
CV			41.38	14.41	20.36	17.66	20.34	18.25	15.69	18.3

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

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Weed Code	plant 8	plant 9	plant 10	Avg10pla	plant 1	plant 2	plant 3	plant 4			
Crop Code	snapbean	snapbean	snapbean	snapbean	snapbean	snapbean	snapbean	snapbean			
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht			
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm			
Rating Date	May-15-05	May-15-05	May-15-05	May-15-05	May-26-05	May-26-05	May-26-05	May-26-05			
Trt-Eval Interval	33 DA-A	33 DA-A	33 DA-A	33 DA-A	44 DA-A	44 DA-A	44 DA-A	44 DA-A			
ARM Action Codes				T1							
# Subsamples, Dec.				1							
Trt No.	Treatment Name	Rate	Unit	17	18	19	20	21	22	23	24
1	Non-treated			19	24	26	22.6	30	31	29	30
2	Sandea	0.75 oz/a		17	18	16	16.3	27	25	28	29
3	Sandea NIS	0.75 oz/a 0.25 % v/v						27	28	30	28
4	Reflex	1 pt/a		18	17	18	18.5	27	27	29	29
5	Reflex NIS	1 pt/a 0.25 % v/v						31	31	31	29
6	Reflex	1.5 pt/a		19	17	19	18.3	25	27	30	26
7	Reflex NIS	1.5 pt/a 0.25 % v/v						26	27	27	29
8	Eptam (3 in incorp)	3.5 pt/a		20	19	18	17.6	28	27	28	29
9	Eptam	3.5 pt/a		20	19	19	18.7	28	28	27	27
10	Dual Magnum	1 pt/a		21	21	20	20.0	30	30	29	30
11	Dual Magnum	1 pt/a		19	17	19	18.1	30	28	29	30
12	Eptam (3 in incorp) Sandea NIS	3.5 pt/a 0.75 oz/a 0.25 % v/v		18	17	20	18.0	27	27	26	25
13	Eptam (1 in incorp) Sandea NIS	3.5 pt/a 0.75 oz/a 0.25 % v/v		20	22	23	20.6	27	32	31	31
14	Eptam (1 in incorp) Sandea (1 in incorp)	3.5 pt/a 0.75 oz/a		16	20	19	17.4	29	31	30	28
15	Eptam (3 in incorp) Sandea (3 in incorp)	3.5 pt/a 0.75 oz/a		19	18	15	16.7	29	29	30	28
16	Targa NIS	8 oz/a 0.25 % v/v						28	31	32	31
17	Targa NIS	10 oz/a 0.25 % v/v						31	25	28	29
18	Targa NIS Sandea	8 oz/a 0.25 % v/v 0.75 oz/a						26	27	26	26
19	Targa COC Basagran	8 oz/a 1 % v/v 1.5 pt/a						26	27	27	28
20	Targa NIS Basagran Sandea	8 oz/a 0.25 % v/v 1.5 pt/a 0.75 oz/a						26	27	27	26
21	Dual Magnum Targa NIS	1 pt/a 8 oz/a 0.25 % v/v		19	19	20	17.1	27	29	26	27
22	Dual Magnum Select COC	1 pt/a 6 oz/a 1 % v/v		17	17	17	16.3	25	29	30	28
23	Dual Magnum Targa NIS Sandea	1 pt/a 8 oz/a 0.25 % v/v 0.75 oz/a		16	17	17	17.3	30	29	30	30

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Weed Code		plant 8	plant 9	plant 10	Avg10pla	plant 1	plant 2	plant 3	plant 4
Crop Code		snapbean	snapbean	snapbean	snapbean	snapbean	snapbean	snapbean	snapbean
Rating Data Type		ht	ht	ht	ht	ht	ht	ht	ht
Rating Unit		cm	cm	cm	cm	cm	cm	cm	cm
Rating Date		May-15-05	May-15-05	May-15-05	May-15-05	May-26-05	May-26-05	May-26-05	May-26-05
Trt-Eval Interval		33 DA-A	33 DA-A	33 DA-A	33 DA-A	44 DA-A	44 DA-A	44 DA-A	44 DA-A
ARM Action Codes					T1				
# Subsamples, Dec.					1				
Trt Treatment	Rate								
No. Name	Rate Unit	17	18	19	20	21	22	23	24
24 Dual Magnum	1 pt/a	21	20	19	19.3	29	32	29	29
Select	6 oz/a								
COC	1 % v/v								
Sandea	0.75 oz/a								
LSD (P=.05)		5.0	4.7	5.2	3.29	5.5	5.2	4.8	5.6
Standard Deviation		3.5	3.3	3.6	2.30	3.9	3.6	3.4	4.0
CV		18.81	17.57	19.15	12.58	14.17	12.82	11.97	14.03

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

Column 20: T1 = @AVG([C10],[C19])

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Weed Code	plant 5	plant 6	plant 7	plant 8	plant 9	plant 10	Avg10pla	plant 1			
Crop Code	snapbean	snapbean	snapbean	snapbean	snapbean	snapbean	snapbean	snapbean			
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht			
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm			
Rating Date	May-26-05	May-26-05	May-26-05	May-26-05	May-26-05	May-26-05	May-26-05	Jun-02-05			
Trt-Eval Interval	44 DA-A	44 DA-A	44 DA-A	44 DA-A	44 DA-A	44 DA-A	44 DA-A	51 DA-A			
ARM Action Codes							T2				
# Subsamples, Dec.							1				
Trt No.	Treatment Name	Rate	Unit	25	26	27	28	29	30	31	32
1	Non-treated			30	30	30	33	30	32	30.3	34
2	Sandea	0.75	oz/a	26	24	24	26	28	28	26.3	29
3	Sandea NIS	0.75 0.25	oz/a % v/v	30	29	25	26	27	28	27.7	29
4	Reflex	1	pt/a	28	29	26	28	27	27	27.6	30
5	Reflex NIS	1 0.25	pt/a % v/v	31	31	30	30	30	31	30.5	31
6	Reflex	1.5	pt/a	28	27	26	29	29	27	27.3	32
7	Reflex NIS	1.5 0.25	pt/a % v/v	29	29	27	25	26	29	27.4	30
8	Eptam (3 in incorp)	3.5	pt/a	30	30	28	30	28	29	28.6	33
9	Eptam	3.5	pt/a	26	26	26	25	28	30	27.0	30
10	Dual Magnum	1	pt/a	31	30	31	30	31	31	30.2	32
11	Dual Magnum	1	pt/a	30	30	30	29	28	29	29.2	32
12	Eptam (3 in incorp) Sandea NIS	3.5 0.75 0.25	pt/a oz/a % v/v	25	25	23	25	27	23	25.2	32
13	Eptam (1 in incorp) Sandea NIS	3.5 0.75 0.25	pt/a oz/a % v/v	30	29	30	30	31	31	30.1	35
14	Eptam (1 in incorp) Sandea (1 in incorp)	3.5 0.75	pt/a oz/a	27	29	30	28	29	29	28.9	33
15	Eptam (3 in incorp) Sandea (3 in incorp)	3.5 0.75	pt/a oz/a	30	28	29	27	27	25	28.1	32
16	Targa NIS	8 0.25	oz/a % v/v	30	29	28	27	29	30	29.4	33
17	Targa NIS	10 0.25	oz/a % v/v	28	27	29	29	27	29	28.1	34
18	Targa NIS Sandea	8 0.25 0.75	oz/a % v/v oz/a	26	27	26	25	27	26	26.1	30
19	Targa COC Basagran	8 1 1.5	oz/a % v/v pt/a	26	25	26	26	27	27	26.4	29
20	Targa NIS Basagran Sandea	8 0.25 1.5 0.75	oz/a % v/v pt/a oz/a	27	27	24	28	24	24	26.1	29
21	Dual Magnum Targa NIS	1 8 0.25	pt/a oz/a % v/v	27	29	27	26	27	27	27.1	30
22	Dual Magnum Select COC	1 6 1	pt/a oz/a % v/v	29	29	30	28	25	29	28.1	27
23	Dual Magnum Targa NIS Sandea	1 8 0.25 0.75	pt/a oz/a % v/v oz/a	33	30	30	31	27	26	29.5	31

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Weed Code		plant 5	plant 6	plant 7	plant 8	plant 9	plant 10	Avg10pla	plant 1
Crop Code		snapbean	snapbean	snapbean	snapbean	snapbean	snapbean	snapbean	snapbean
Rating Data Type		ht	ht	ht	ht	ht	ht	ht	ht
Rating Unit		cm	cm	cm	cm	cm	cm	cm	cm
Rating Date		May-26-05	May-26-05	May-26-05	May-26-05	May-26-05	May-26-05	May-26-05	Jun-02-05
Trt-Eval Interval		44 DA-A	44 DA-A	44 DA-A	44 DA-A	44 DA-A	44 DA-A	44 DA-A	51 DA-A
ARM Action Codes								T2	
# Subsamples, Dec.								1	
Trt Treatment	Rate								
No. Name	Rate Unit	25	26	27	28	29	30	31	32
24 Dual Magnum	1 pt/a	30	31	30	29	29	29	29.6	33
Select	6 oz/a								
COC	1 % v/v								
Sandea	0.75 oz/a								
LSD (P=.05)		5.7	6.2	6.5	5.6	5.8	5.6	4.40	5.8
Standard Deviation		4.0	4.4	4.6	3.9	4.1	3.9	3.11	4.1
CV		14.03	15.52	16.69	14.14	14.68	13.97	11.07	13.24

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

Column 31: T2 = @AVG([C21].[C30])

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Weed Code		plant 2	plant 3	plant 4	plant 5	plant 6	plant 7	plant 8	plant 9		
Crop Code		snapbean	snapbean	snapbean	snapbean	snapbean	snapbean	snapbean	snapbean		
Rating Data Type		ht	ht	ht	ht	ht	ht	ht	ht		
Rating Unit		cm	cm	cm	cm	cm	cm	cm	cm		
Rating Date		Jun-02-05	Jun-02-05	Jun-02-05	Jun-02-05	Jun-02-05	Jun-02-05	Jun-02-05	Jun-02-05		
Trt-Eval Interval		51 DA-A	51 DA-A	51 DA-A	51 DA-A	51 DA-A	51 DA-A	51 DA-A	51 DA-A		
ARM Action Codes											
# Subsamples, Dec.											
Trt No.	Treatment Name	Rate	Unit	33	34	35	36	37	38	39	40
1	Non-treated			34	33	32	32	31	31	31	30
2	Sandea	0.75	oz/a	30	29	27	28	29	28	29	29
3	Sandea NIS	0.75 0.25	oz/a % v/v	32	32	31	32	29	30	29	31
4	Reflex	1	pt/a	30	30	30	33	30	31	32	33
5	Reflex NIS	1 0.25	pt/a % v/v	31	31	32	32	29	31	31	32
6	Reflex	1.5	pt/a	32	31	33	31	33	33	33	32
7	Reflex NIS	1.5 0.25	pt/a % v/v	30	30	29	32	29	31	30	31
8	Eptam (3 in incorp)	3.5	pt/a	30	29	30	30	31	28	33	32
9	Eptam	3.5	pt/a	30	32	28	26	28	29	26	28
10	Dual Magnum	1	pt/a	33	33	33	31	31	31	33	32
11	Dual Magnum	1	pt/a	35	32	32	31	32	33	32	32
12	Eptam (3 in incorp) Sandea NIS	3.5 0.75 0.25	pt/a oz/a % v/v	32	30	27	28	29	29	30	29
13	Eptam (1 in incorp) Sandea NIS	3.5 0.75 0.25	pt/a oz/a % v/v	35	34	32	34	32	36	33	33
14	Eptam (1 in incorp) Sandea (1 in incorp)	3.5 0.75	pt/a oz/a	33	30	31	31	32	32	33	33
15	Eptam (3 in incorp) Sandea (3 in incorp)	3.5 0.75	pt/a oz/a	33	31	32	30	31	29	28	31
16	Targa NIS	8 0.25	oz/a % v/v	31	32	29	31	31	32	31	31
17	Targa NIS	10 0.25	oz/a % v/v	33	32	31	31	31	33	31	32
18	Targa NIS Sandea	8 0.25 0.75	oz/a % v/v oz/a	28	28	28	28	26	27	27	28
19	Targa COC Basagran	8 1 1.5	oz/a % v/v pt/a	31	30	27	27	28	29	29	29
20	Targa NIS Basagran Sandea	8 0.25 1.5 0.75	oz/a % v/v pt/a oz/a	33	30	30	32	27	29	29	28
21	Dual Magnum Targa NIS	1 8 0.25	pt/a oz/a % v/v	30	29	28	27	27	31	28	29
22	Dual Magnum Select COC	1 6 1	pt/a oz/a % v/v	30	31	31	32	30	31	32	30
23	Dual Magnum Targa NIS Sandea	1 8 0.25 0.75	pt/a oz/a % v/v oz/a	31	32	31	33	32	32	31	29

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Weed Code	plant 2	plant 3	plant 4	plant 5	plant 6	plant 7	plant 8	plant 9
Crop Code	snapbean	snapbean	snapbean	snapbean	snapbean	snapbean	snapbean	snapbean
Rating Data Type	ht	ht	ht	ht	ht	ht	ht	ht
Rating Unit	cm	cm	cm	cm	cm	cm	cm	cm
Rating Date	Jun-02-05	Jun-02-05	Jun-02-05	Jun-02-05	Jun-02-05	Jun-02-05	Jun-02-05	Jun-02-05
Trt-Eval Interval	51 DA-A	51 DA-A	51 DA-A	51 DA-A	51 DA-A	51 DA-A	51 DA-A	51 DA-A
ARM Action Codes								
# Subsamples, Dec.								
Trt Treatment	Rate							
No. Name	Rate Unit	33	34	35	36	37	38	39
24 Dual Magnum	1 pt/a	32	34	31	32	31	31	32
Select	6 oz/a							
COC	1 % v/v							
Sandea	0.75 oz/a							
LSD (P=.05)		5.0	5.4	5.2	5.6	5.9	6.1	5.5
Standard Deviation		3.5	3.8	3.7	3.9	4.2	4.3	3.9
CV		11.28	12.35	12.16	12.91	13.96	14.13	12.8
								6.1
								4.3
								14.06

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

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Weed Code	plant 10	Avg10pla	biomass	biomass	biomass	biomass			
Crop Code	snapbean	snapbean	snapbean	snapbean	snapbean	snapbean			
Rating Data Type	ht	ht	wt/5ft	beans	beans	beans			
Rating Unit	cm	cm	lbs	#/5ft	kg/5ft	g/5ft			
Rating Date	Jun-02-05	Jun-02-05	Jun-09-05	Jun-09-05	Jun-09-05	Jun-09-05			
Trt-Eval Interval	51 DA-A	51 DA-A	58 DA-A	58 DA-A	58 DA-A	58 DA-A			
ARM Action Codes		T3				T4			
# Subsamples, Dec.		1				1			
Trt No.	Treatment Name	Rate	Unit	41	42	43	44	45	46
1	Non-treated			30	31.7	2	137	0	372.5
2	Sandea	0.75 oz/a		29	28.7	2	142	0	427.5
3	Sandea NIS	0.75 oz/a 0.25 % v/v		30	30.4	2	140	0	375.0
4	Reflex	1 pt/a		31	31.0	2	187	1	571.3
5	Reflex NIS	1 pt/a 0.25 % v/v		31	31.1	3	196	1	692.5
6	Reflex	1.5 pt/a		31	31.7	3	194	1	687.5
7	Reflex NIS	1.5 pt/a 0.25 % v/v		30	30.1	2	133	0	367.5
8	Eptam (3 in incorp)	3.5 pt/a		31	30.7	2	150	1	570.0
9	Eptam	3.5 pt/a		29	28.5	2	137	0	410.0
10	Dual Magnum	1 pt/a		31	32.0	2	137	0	431.3
11	Dual Magnum	1 pt/a		30	31.9	2	170	1	522.5
12	Eptam (3 in incorp) Sandea NIS	3.5 pt/a 0.75 oz/a 0.25 % v/v		30	29.4	2	137	1	525.0
13	Eptam (1 in incorp) Sandea NIS	3.5 pt/a 0.75 oz/a 0.25 % v/v		35	33.8	3	173	1	617.5
14	Eptam (1 in incorp) Sandea (1 in incorp)	3.5 pt/a 0.75 oz/a		30	31.7	2	171	1	561.3
15	Eptam (3 in incorp) Sandea (3 in incorp)	3.5 pt/a 0.75 oz/a		28	30.3	3	180	1	636.3
16	Targa NIS	8 oz/a 0.25 % v/v		32	31.3	2	182	1	593.8
17	Targa NIS	10 oz/a 0.25 % v/v		28	31.3	2	130	0	421.0
18	Targa NIS Sandea	8 oz/a 0.25 % v/v 0.75 oz/a		29	27.8	2	172	1	567.5
19	Targa COC Basagran	8 oz/a 1 % v/v 1.5 pt/a		29	28.9	2	154	1	586.5
20	Targa NIS Basagran Sandea	8 oz/a 0.25 % v/v 1.5 pt/a 0.75 oz/a		29	29.5	2	130	0	431.3
21	Dual Magnum Targa NIS	1 pt/a 8 oz/a 0.25 % v/v		28	28.7	2	167	1	532.5
22	Dual Magnum Select COC	1 pt/a 6 oz/a 1 % v/v		27	29.9	2	142	0	466.3
23	Dual Magnum Targa NIS Sandea	1 pt/a 8 oz/a 0.25 % v/v 0.75 oz/a		28	30.8	2	132	0	432.5

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Weed Code	plant 10	Avg10pla	biomass	biomass	biomass	biomass	
Crop Code	snapbean	snapbean	snapbean	snapbean	snapbean	snapbean	
Rating Data Type	ht	ht	wt/5ft	beans	beans	beans	
Rating Unit	cm	cm	lbs	#/5ft	kg/5ft	g/5ft	
Rating Date	Jun-02-05	Jun-02-05	Jun-09-05	Jun-09-05	Jun-09-05	Jun-09-05	
Trt-Eval Interval	51 DA-A	51 DA-A	58 DA-A	58 DA-A	58 DA-A	58 DA-A	
ARM Action Codes		T3				T4	
# Subsamples, Dec.		1				1	
Trt Treatment	Rate						
No. Name	Rate Unit	41	42	43	44	45	46
24 Dual Magnum	1 pt/a	32	31.9	3	157	1	592.5
Select	6 oz/a						
COC	1 % v/v						
Sandea	0.75 oz/a						
LSD (P=.05)		7.0	4.41	0.9	51.7	0.2	210.88
Standard Deviation		5.0	3.12	0.6	36.6	0.1	149.11
CV		16.6	10.22	28.15	23.42	28.88	28.88

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

Column 42: T3 = @AVG([C32].[C41])

Column 46: T4 = [45]*1000

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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: irrigated

Closest Weather Station: _____ Distance: _____ Unit: ____

APPLICATION DESCRIPTION

	A	B	C
Application Date:	Apr-12-05	Apr-12-05	May-15-05
Time of Day:	7 pm	7 pm	7 pm
Application Method:	broadcast	broadcast	broadcast
Application Timing:	PPI	PRE	POST
Applic. Placement:	on soil	on soil	overtop
Air Temp., Unit:	70 F	70 F	81 F
% Relative Humidity:	84	94	36
Wind Velocity, Unit:	2 mph	2 mph	1 mph
Dew Presence (Y/N):	n	n	n
Water Hardness:			
Soil Temp., Unit:	69 F	69 F	85 F
Soil Moisture:	moist	moist	moist
% Cloud Cover:	100	100	100

CROP STAGE AT EACH APPLICATION

	A	B	C
Crop 1 Code, Stage:	PHSVN PPI	PHSVN PRE	PHSVN POST
Stage Scale:	not up	not up	3 trifoli
Height, Unit:	0 in	0 in	5 inch

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WEED STAGE AT EACH APPLICATION

	A	B	C
Weed 1 Code, Stage:	PANTE PPI	PANTE PRE	PANTE POST
Stage Scale:	not up	not up	1-3T,3inc
Density, Unit:	0 ydsq	0 ydsq	8 ydsq
Weed 2 Code, Stage:	RCHSC PPI	RCHSC PRE	RCHSC POST
Stage Scale:	not up	not up	1-2 inch
Density, Unit:	0 ydsq	0 ydsq	5 ydsq
Weed 3 Code, Stage:	MOLVE PPI	MOLVE PRE	MOLVE POST
Stage Scale:	not up	not up	2 inch
Density, Unit:	0 ydsq	0 ydsq	7 ydsq

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:	4	4	4
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