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WEED CONTROL IN SESAME - II

Trial ID: SM-02-15 Study Dir.: JACK ROSE
 Location: PONDER FARM Investigator: Eric P. Prostko

Reps: 4 Plots: 6 by 25 feet
 Spray vol: 15 GAL/AC Mix Size: 1.5 liters (calculated mix size .78211)

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Rep 1	Rep 2	Rep 3	Rep 4
1	NTC							101	204	309	411
2	DUAL MAGNUM	7.62 EC		16.0 oz/a	PRE	A	12.5 ml/mx	102	201	314	402
3	WARRANT	3 ME		48.0 oz/a	PRE	A	37.5 ml/mx	103	205	301	415
4	ZIDUA	85 WG		1.5 oz/a	PRE	A	1.123 g/mx	104	214	306	410
5	COTORAN	4 L		32.0 oz/a	PRE	A	25.0 ml/mx	105	203	307	414
6	DIREX	4 L		32.0 oz/a	PRE	A	25.0 ml/mx	106	207	303	407
7	DIREX NIS	4 L		32.0 oz/a 0.25 % v/v	POST	B	25.0 ml/mx 3.75 ml/mx	107	208	304	403
8	ANTHEM NIS	2.15 SC		4.8 oz/a 0.25 % v/v	POST	B	3.75 ml/mx 3.75 ml/mx	108	210	313	408
9	ANTHEM FLEX NIS	4 SC		2.7 oz/a 0.25 % v/v	POST	B	2.109 ml/mx 3.75 ml/mx	109	212	302	404
10	COTORAN DIREX NIS	4 L 4 L		32.0 oz/a 32.0 oz/a 0.25 % v/v	PRE POST	A B	25.0 ml/mx 25.0 ml/mx 3.75 ml/mx	110	209	311	409
11	DUAL MAGNUM DIREX NIS	7.62 EC 4 L		16.0 oz/a 32.0 oz/a 0.25 % v/v	PRE POST	A B	12.5 ml/mx 25.0 ml/mx 3.75 ml/mx	111	215	305	413
12	WARRANT DIREX NIS	3 ME 4 L		48.0 oz/a 32.0 oz/a 0.25 % v/v	PRE POST	A B	37.5 ml/mx 25.0 ml/mx 3.75 ml/mx	112	213	308	406
13	ZIDUA DIREX NIS	85 WG 4 L		1.5 oz/a 32.0 oz/a 0.25 % v/v	PRE POST	A B	1.123 g/mx 25.0 ml/mx 3.75 ml/mx	113	202	315	401
14	DIREX DUAL MAGNUM	4 L 7.62 EC		32.0 oz/a 16.0 oz/a	POST POST	B B	25.0 ml/mx 12.5 ml/mx	114	211	312	405
15	DIREX WARRANT NIS	4 L 3 ME		32.0 oz/a 48.0 oz/a 0.25 % v/v	POST POST	B B	25.0 ml/mx 37.5 ml/mx 3.75 ml/mx	115	206	310	412

Sort Order: Treatment

Trial Comments

ANTHEM 2.15SC = PYROXASULFONE (2.087 LB) + FLUTHIACET (0.063 LB)

ANTHEM FLEX 4SC = PYROXASULFONE (3.733 LB) + CARFENTRAZONE (0.267 LB)

MONOSEM PLANTER SETTINGS: SPROCKET C6-12012 PLATE- 0 AIR-11/16" SPACING (~296,208 SEED/A OR 1.74 LBS/A)

PLOTS 404, 405, 406 407 WATER LOGGED AREA OF FIELD

MAY 19, 2015 = 100 LB/A N SIDEDRESS

SUMMARY:

- 1) AT 7 DAT, NONE OF THE PRE TREATMENTS HAD A NEGATIVE EFFECT ON SESAME PLANT POPULATIONS (P = 0.1011).
- 2) ALL PRE TREATMENTS CAUSED SIGNIFICANT SESAME STUNTING.
- 3) THE PRE HERBICIDE THAT CAUSED THE MOST CROP INJURY WAS ZIDUA. ZIDUA WOULD NOT BE A GOOD CANDIDATE FOR PRE USE IN SESAME.
- 4) POST APPLICATIONS OF ANTHEM AND ANTHEM FLEX CAUSED SIGNIFICANT SESAME INJURY. THESE HERBICIDES WOULD ALSO NOT BE GOOD CANDIDATES FOR SESAME WEED CONTROL.
- 5) BY JUNE 30 (68 DAP), PALMER AMARANTH WAS EXCELLENT (99%) WITH ALL PRE TREATMENTS EXCEPT COTORAN (25%).

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6) POST APPLICATIONS OF DIREX CAUSED SLIGHT SESAME LEAF BURN (DATA NOT REPORTED).

7) PRE DUAL OR WARRANT FB POST DIREX MAY BE A GOOD OPTION FOR USE IN SESAME.

8) ON JUNE 30 (68 DAP), SESAME PLANTS HEIGHTS WERE NOT SIGNIFICANTLY REDUCED BY ANY TREATMENT (P = 0.1891).

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WEED CONTROL IN SESAME - II

Trial ID: SM-02-15 Study Dir.: JACK ROSE
 Location: PONDER FARM Investigator: Eric P. Prostko

GENERAL TRIAL INFORMATION

Study Director: JACK ROSE **Title:** _____
Affiliation: _____ **Postal Code:** _____

Investigator: Eric P. Prostko **Title:** _____
Affiliation: _____ **Postal Code:** _____

Trial Status: _____ **Initiation Date:** _____ **Country:** _____
City: _____ **State/Prov.:** _____ **Postal Code:** _____
Conducted Under GLP (Y/N): N **Conducted Under GEP (Y/N):** N

Objective: _____
Conclusions: _____

CROP AND PEST DESCRIPTION

Weed 1: MOLVE CARPETWEED **2.** AMAPA PALMER AMARANTH
Weed 3: AGRASS CRAB+CROW+GOOS+TPANICUM **4.** _____

Crop 1: SESAM SESAME **Variety:** S39 **Planting Date:** Apr-23-15
Planting Method: MONOSEM **Rate:** 296208 SEED/A **Depth:** 0.5 IN
Perennial Age: _____ **Row Spacing:** 30 IN **Seed Bed:** _____
Soil Temperature: _____ **Soil Moisture:** NORMAL **Emergence Date:** _____

Plot Width, Unit: 6 FT **Plot Length, Unit:** 25 FT **Reps:** 4
Site Type: _____
Tillage Type: CONVENTIONAL **Study Design:** RACOBL
Trial Initiation Comments: _____

Previous: Crops **Pesticides** **Year**
 1. FALLOW 2014 _____

MAINTENANCE

Field Prep./Maintenance: _____
 Form Form Form Rate
No. Date Treatment Name Conc Unit Type Rate Unit
 1. _____

SOIL DESCRIPTION

Texture: SAND **% OM:** 0.61 **% Sand:** 94 **% Silt:** 2 **% Clay:** 4
pH: 6.0 **CEC:** 2.2 **Soil Name:** TIFTON **Fertility Level:** GOOD

MOISTURE CONDITIONS

On: Date	Time	Amount	Unit	Type	Interval	Unit
1. Apr-25-15	_____	0.68	IN	RAINFALL	_____	_____
2. Apr-28-15	_____	0.09	IN	RAINFALL	_____	_____
3. Apr-29-15	_____	1.09	IN	RAINFALL	_____	_____
4. May-12-15	_____	0.5	IN	SPRINKLER - LATERAL MOVE	_____	_____
5. _____	_____	_____	_____	_____	_____	_____

Overall Moisture Conditions: _____
Closest Weather Station: _____ **Distance:** _____ **Unit:** _____

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	Apr-23-15	May-29-15	_____	_____	_____	_____
Time of Day:	10:30 AM	8:00 AM	_____	_____	_____	_____
Application Method:	BROADCAST	BROADCAST	_____	_____	_____	_____
Application Timing:	PRE	POST	_____	_____	_____	_____
Applic. Placement:	SOIL	FOLIAGE	_____	_____	_____	_____
Air Temp., Unit:	81 F	83 F	_____	_____	_____	_____
% Relative Humidity:	46	47	_____	_____	_____	_____
Wind Velocity, Unit:	4 MPH	0 MPH	_____	_____	_____	_____
Dew Presence (Y/N):	N	Y	_____	_____	_____	_____
Water Hardness:	__	__	_____	_____	_____	_____
Soil Temp., Unit:	72 F	76 F	_____	_____	_____	_____
Soil Moisture:	OPTIMUM	OPTIMUM	_____	_____	_____	_____
% Cloud Cover:	10	10	_____	_____	_____	_____

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 Stage: SESAM	_____	_____	_____	_____	_____	_____
Stage Scale:	_____	7-8 LEAF	_____	_____	_____	_____
Height, Unit:	_____	5 IN	_____	_____	_____	_____

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		WEED STAGE AT EACH APPLICATION					
		A	B	C	D	E	F
Weed 1	Stage: MOLVE	0.5"					
	Stage Scale:	RUNNING					
	Density, Unit:						
Weed 2	Stage: AMAPA	1-7"					
	Stage Scale:						
	Density, Unit:						
Weed 3	Stage: AGRASS	1-2"					
	Stage Scale:						
	Density, Unit:						

		APPLICATION EQUIPMENT					
		A	B	C	D	E	F
Appl. Equipment:	BACKPACK	BACKPACK					
Operating Pressure:	42	40					
Nozzle Type:	AIXR	FLAT FAN					
Nozzle Size:	11002	11002DG					
Nozzle Spacing, Unit:	20	IN 20	IN				
Nozzles/Row:							
Band Width, Unit:							
Boom Length, Unit:	60	IN 60	IN				
Boom Height, Unit:	20	IN 20	IN				
Ground Speed, Unit:	3.5	MPH 3.5	MPH				
Incorporation Equip.:							
Hours to Incorp.:							
Incorp. Depth, Unit:							
Carrier:	WATER	WATER					
Spray Volume, Unit:	15	GPA 15	GPA				
Spray pH:							
Propellant:	CO2	CO2					
Tank Mix (Y/N):	-	-	-	-	-	-	-

Trt No	Treatment Application Comment

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WEED CONTROL IN SESAME - II															
Trial ID: SM-02-15		Study Dir.: JACK ROSE													
Location: PONDER FARM		Investigator: Eric P. Prostko													
Weed Code		----- SESAME		----- SESAME PLANT - STUNTING		MOLVE ----- CONTROL		----- SESAME PLANT - STUNTING		MOLVE ----- CONTROL		AMAPA ----- CONTROL		ANNUAL GRASS CONTROL	
Crop Code		3 FT ROW		PERCENT		PERCENT		PERCENT		PERCENT		PERCENT		PERCENT	
Part Rated		Apr-30-15		May-9-15		May-9-15		May-19-15		May-19-15		May-19-15		May-19-15	
Rating Data Type															
Rating Unit															
Rating Date															
PRM Data Type															
# Subsamples, Dec.															
Trt	Treatment	Form	Form	Rate	Grow	Appl									
No.		Conc	Type	Unit	Stg	Code	1	2	3	4	5	6	7		
1	NTC						36.3 a	0.0 e	0.0 c	0.0 f	0.0 d	0.0 c	0.0 e		
2	DUAL MAGNUM	7.62	EC	16.0 oz/a	PRE	A	31.5 a	47.5 b	99.0 a	36.3 c	56.3 c	99.0 a	93.5 bc		
3	WARRANT	3	ME	48.0 oz/a	PRE	A	37.3 a	32.5 d	99.0 a	12.5 e	94.5 a	99.0 a	93.3 bc		
4	ZIDUA	85	WG	1.5 oz/a	PRE	A	27.8 a	63.8 a	74.3 b	76.3 a	99.0 a	99.0 a	99.0 a		
5	COTORAN	4	L	32.0 oz/a	PRE	A	45.3 a	52.5 b	99.0 a	53.8 b	99.0 a	94.5 b	86.3 d		
6	DIREX	4	L	32.0 oz/a	PRE	A	36.8 a	37.5 cd	99.0 a	21.3 de	99.0 a	99.0 a	93.5 bc		
7	DIREX NIS	4	L	32.0 oz/a 0.25 % v/v	POST POST	B B	43.8 a	0.0 e	0.0 c	0.0 f	0.0 d	0.0 c	0.0 e		
8	ANTHEM NIS	2.15	SC	4.8 oz/a 0.25 % v/v	POST POST	B B	36.5 a	0.0 e	0.0 c	0.0 f	0.0 d	0.0 c	0.0 e		
9	ANTHEM FLEX NIS	4	SC	2.7 oz/a 0.25 % v/v	POST POST	B B	36.3 a	0.0 e	0.0 c	0.0 f	0.0 d	0.0 c	0.0 e		
10	COTORAN DIREX NIS	4 4	L L	32.0 oz/a 32.0 oz/a 0.25 % v/v	PRE POST POST	A B B	35.8 a	52.5 b	99.0 a	52.5 b	99.0 a	95.5 ab	88.5 cd		
11	DUAL MAGNUM DIREX NIS	7.62 4	EC L	16.0 oz/a 32.0 oz/a 0.25 % v/v	PRE POST POST	A B B	28.3 a	47.5 b	99.0 a	46.3 b	85.0 b	99.0 a	97.0 ab		
12	WARRANT DIREX NIS	3 4	ME L	48.0 oz/a 32.0 oz/a 0.25 % v/v	PRE POST POST	A B B	31.5 a	40.0 c	99.0 a	23.8 d	97.0 a	98.0 a	98.0 ab		
13	ZIDUA DIREX NIS	85 4	WG L	1.5 oz/a 32.0 oz/a 0.25 % v/v	PRE POST POST	A B B	30.5 a	63.8 a	99.0 a	78.8 a	99.0 a	99.0 a	99.0 a		
14	DIREX DUAL MAGNUM	4 7.62	L EC	32.0 oz/a 16.0 oz/a	POST POST	B B	28.5 a	0.0 e	0.0 c	0.0 f	0.0 d	0.0 c	0.0 e		
15	DIREX WARRANT NIS	4 3	L ME	32.0 oz/a 48.0 oz/a 0.25 % v/v	POST POST POST	B B B	40.0 a	0.0 e	0.0 c	0.0 f	0.0 d	0.0 c	0.0 e		
	LSD P=.10						9.92	7.09	15.20	9.01	5.12	3.05	4.59		
	Standard Deviation						8.34	5.96	12.78	7.58	4.30	2.56	3.86		
	CV						23.81	20.44	22.13	28.32	7.8	4.36	6.83		
	Grand Mean						35.05	29.17	57.75	26.75	55.18	58.80	56.53		
	Bartlett's X2						9.54	16.31	0.0	11.935	6.349	4.011	8.378		
	P(Bartlett's X2)						0.795	0.038*	.	0.154	0.096	0.135	0.212		
	Replicate F						2.285	1.829	1.000	1.576	0.672	0.717	1.715		
	Replicate Prob(F)						0.0927	0.1565	0.4023	0.2095	0.5738	0.5473	0.1785		
	Treatment F						1.665	76.022	59.286	57.523	494.193	1505.027	616.000		
	Treatment Prob(F)						0.1011	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001		

Means followed by same letter do not significantly differ (P=.10, Duncan's New MRT)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Weed Code Crop Code Part Rated Rating Data Type							----- SESAME PLANT - STUNTING	AMAPA ----- CONTROL	ANNUAL GRASS CONTROL	AMAPA ----- CONTROL	ANNUAL GRASS CONTROL	----- SESAME PLANT - HGT1	----- SESAME PLANT - HGT2	
Rating Unit Rating Date PRM Data Type # Subsamples, Dec.							PERCENT Jun-8-15	PERCENT Jun-8-15	PERCENT Jun-8-15	PERCENT Jun-30-15	PERCENT Jun-30-15	CM Jun-30-15	CM Jun-30-15	
Trt	Treatment	Form	Form	Rate	Grow	Appl	8	9	10	11	12	13	14	
No.	Name	Conc	Type	Rate	Unit	Stg	Code							
1	NTC							0.0 i	0.0 c	0.0 e	0.0 c	0.0 e	98.8 a	105.3 ab
2	DUAL MAGNUM	7.62	EC	16.0	oz/a	PRE	A	7.5 hi	99.0 a	78.5 ab	99.0 a	71.3 ab	100.8 a	107.3 a
3	WARRANT	3	ME	48.0	oz/a	PRE	A	3.8 hi	99.0 a	88.5 a	99.0 a	87.5 a	102.3 a	104.5 abc
4	ZIDUA	85	WG	1.5	oz/a	PRE	A	58.8 bc	99.0 a	89.8 a	99.0 a	77.5 ab	299.0 a	77.3 de
5	COTORAN	4	L	32.0	oz/a	PRE	A	31.3 ef	37.3 b	41.3 cd	24.8 c	38.8 cd	82.3 a	85.8 cde
6	DIREX	4	L	32.0	oz/a	PRE	A	11.3 ghi	99.0 a	87.0 a	99.0 a	80.0 ab	101.0 a	104.5 abc
7	DIREX NIS	4	L	32.0 0.25 % v/v	oz/a	POST POST	B B	17.5 fgh	99.0 a	52.5 bc	99.0 a	57.5 bc	89.5 a	93.5 a-d
8	ANTHEM NIS	2.15	SC	4.8 0.25 % v/v	oz/a	POST POST	B B	32.5 def	74.3 a	12.5 de	49.5 b	20.0 de	77.3 a	79.5 de
9	ANTHEM FLEX NIS	4	SC	2.7 0.25 % v/v	oz/a	POST POST	B B	71.3 ab	12.5 bc	37.3 cd	0.0 c	38.8 cd	55.8 a	59.3 f
10	COTORAN DIREX NIS	4 4	L L	32.0 32.0 0.25 % v/v	oz/a	PRE POST POST	A B B	58.8 bc	76.5 a	83.5 a	99.0 a	72.5 ab	80.8 a	78.3 de
11	DUAL MAGNUM DIREX NIS	7.62 4	EC L	16.0 32.0 0.25 % v/v	oz/a	PRE POST POST	A B B	48.8 cd	99.0 a	88.5 a	99.0 a	88.5 a	76.8 a	78.5 de
12	WARRANT DIREX NIS	3 4	ME L	48.0 32.0 0.25 % v/v	oz/a	PRE POST POST	A B B	25.0 efg	99.0 a	84.8 a	99.0 a	87.5 a	89.5 a	90.0 a-e
13	ZIDUA DIREX NIS	85 4	WG L	1.5 32.0 0.25 % v/v	oz/a	PRE POST POST	A B B	78.8 a	99.0 a	92.0 a	99.0 a	83.8 a	57.5 a	70.8 ef
14	DIREX DUAL MAGNUM	4 7.62	L EC	32.0 16.0	oz/a	POST POST	B B	40.0 de	99.0 a	12.5 de	99.0 a	17.5 de	78.0 a	78.8 de
15	DIREX WARRANT NIS	4 3	L ME	32.0 48.0 0.25 % v/v	oz/a	POST POST POST	B B B	37.5 de	99.0 a	16.3 de	99.0 a	18.8 de	85.8 a	86.8 b-e
LSD P=.10							15.00	24.86	27.04	23.69	22.19	141.02	16.67	
Standard Deviation							12.62	20.90	22.74	19.92	18.66	118.57	14.02	
CV							36.22	26.34	39.44	25.68	33.32	120.6	16.17	
Grand Mean							34.83	79.37	57.65	77.55	55.98	98.32	86.65	
Bartlett's X2							14.292	1.433	27.178	0.061	27.043	171.463	24.109	
P(Bartlett's X2)							0.354	0.698	0.012*	0.805	0.012*	0.001*	0.044*	
Replicate F							1.916	2.822	1.825	0.412	4.763	0.995	3.458	
Replicate Prob(F)							0.1416	0.0503	0.1574	0.7454	0.0060	0.4043	0.0247	
Treatment F							15.302	10.745	9.195	14.882	10.880	0.934	4.086	
Treatment Prob(F)							0.0001	0.0001	0.0001	0.0001	0.0001	0.5318	0.0002	

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.							----- SESAME PLANT - HGT3 CM Jun-30-15	----- SESAME PLANT - HGT4 CM Jun-30-15	----- SESAME PLANT - HGT5 CM Jun-30-15	----- SESAME PLANT - HGT-AVG CM Jun-30-15 T1 - 0
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Grow Stg	Appl Code	15	16	17	18
1	NTC						104.5 ab	100.0 ab	100.3 a	102 a
2	DUAL MAGNUM	7.62	EC	16.0 oz/a	PRE	A	106.5 a	103.5 a	97.0 ab	103 a
3	WARRANT	3	ME	48.0 oz/a	PRE	A	106.5 a	100.0 ab	104.8 a	104 a
4	ZIDUA	85	WG	1.5 oz/a	PRE	A	73.5 ef	77.3 cde	89.8 a-d	123 a
5	COTORAN	4	L	32.0 oz/a	PRE	A	90.0 b-e	96.0 ab	94.8 abc	90 a
6	DIREX	4	L	32.0 oz/a	PRE	A	99.8 abc	95.0 abc	94.3 abc	99 a
7	DIREX NIS	4	L	32.0 oz/a 0.25 % v/v	POST POST	B B	98.5 a-d	95.0 abc	89.8 a-d	93 a
8	ANTHEM NIS	2.15	SC	4.8 oz/a 0.25 % v/v	POST POST	B B	84.5 cde	83.3 bcd	77.5 cd	80 a
9	ANTHEM FLEX NIS	4	SC	2.7 oz/a 0.25 % v/v	POST POST	B B	60.8 f	59.5 f	54.8 f	58 a
10	COTORAN DIREX NIS	4 4	L L	32.0 oz/a 32.0 oz/a 0.25 % v/v	PRE POST POST	A B B	73.3 ef	68.3 def	71.8 de	74 a
11	DUAL MAGNUM DIREX NIS	7.62 4	EC L	16.0 oz/a 32.0 oz/a 0.25 % v/v	PRE POST POST	A B B	81.8 e	85.0 bcd	87.3 a-d	82 a
12	WARRANT DIREX NIS	3 4	ME L	48.0 oz/a 32.0 oz/a 0.25 % v/v	PRE POST POST	A B B	87.5 cde	89.5 abc	96.3 abc	91 a
13	ZIDUA DIREX NIS	85 4	WG L	1.5 oz/a 32.0 oz/a 0.25 % v/v	PRE POST POST	A B B	73.5 ef	62.5 ef	58.8 ef	65 a
14	DIREX DUAL MAGNUM	4 7.62	L EC	32.0 oz/a 16.0 oz/a	POST POST	B B	82.8 de	83.5 bcd	81.3 bcd	81 a
15	DIREX WARRANT NIS	4 3	L ME	32.0 oz/a 48.0 oz/a 0.25 % v/v	POST POST POST	B B B	87.5 cde	90.0 abc	86.0 a-d	87 a
LSD P=.10							14.39	15.25	16.00	33.1
Standard Deviation							12.10	12.82	13.46	27.8
CV							13.85	14.93	15.72	31.35
Grand Mean							87.38	85.88	85.60	88.8
Bartlett's X2							7.018	15.621	19.763	73.396
P(Bartlett's X2)							0.934	0.337	0.138	0.001*
Replicate F							4.978	5.233	2.884	1.370
Replicate Prob(F)							0.0048	0.0037	0.0469	0.2652
Treatment F							5.197	4.602	4.687	1.414
Treatment Prob(F)							0.0001	0.0001	0.0001	0.1891

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Trial ID: SM-02-15 Study Dir.: JACK ROSE
Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code

MOLVE = CARPETWEED / MOLLUGO VERTICILLATA L.
AMAPA = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS.

Part Rated

PLANT = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf)

PRM Data Type

T1 = ([13]+[14]+[15]+[16]+[17])/5

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 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code						-----	-----	MOLVE	-----	MOLVE	AMAPA				
Crop Code						SESAME	SESAME	-----	SESAME	-----	-----				
Part Rated						PLANTS	PLANT -	CONTROL	PLANT -	CONTROL	CONTROL				
Rating Data Type						3 FT ROW	STUNTING	PERCENT	STUNTING	PERCENT	PERCENT				
Rating Unit						Apr-30-15	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT				
Rating Date						May-9-15	May-9-15	May-9-15	May-19-15	May-19-15	May-19-15				
PRM Data Type															
# Subsamples, Dec.															
Trt	Treatment	Form	Form	Rate	Grow	Appl									
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot	1	2	3	4	5	6	
1	NTC							101	31.0	0.0	0.0	0.0	0.0	0.0	
								204	53.0	0.0	0.0	0.0	0.0	0.0	
								309	38.0	0.0	0.0	0.0	0.0	0.0	
								411	23.0	0.0	0.0	0.0	0.0	0.0	
								Mean =	36.3	0.0	0.0	0.0	0.0	0.0	
2	DUAL MAGNUM	7.62 EC		16.0 oz/a	PRE	A		102	34.0	40.0	99.0	25.0	50.0	99.0	
								201	33.0	50.0	99.0	30.0	50.0	99.0	
								314	21.0	50.0	99.0	40.0	50.0	99.0	
								402	38.0	50.0	99.0	50.0	75.0	99.0	
								Mean =	31.5	47.5	99.0	36.3	56.3	99.0	
3	WARRANT	3 ME		48.0 oz/a	PRE	A		103	41.0	40.0	99.0	20.0	99.0	99.0	
								205	31.0	30.0	99.0	10.0	99.0	99.0	
								301	44.0	30.0	99.0	10.0	85.0	99.0	
								415	33.0	30.0	99.0	10.0	95.0	99.0	
								Mean =	37.3	32.5	99.0	12.5	94.5	99.0	
4	ZIDUA	85 WG		1.5 oz/a	PRE	A		104	27.0	60.0	99.0	80.0	99.0	99.0	
								214	35.0	65.0	99.0	80.0	99.0	99.0	
								306	21.0	65.0	99.0	65.0	99.0	99.0	
								410	28.0	65.0	0.0	80.0	99.0	99.0	
								Mean =	27.8	63.8	74.3	76.3	99.0	99.0	
5	COTORAN	4 L		32.0 oz/a	PRE	A		105	47.0	50.0	99.0	60.0	99.0	99.0	
								203	42.0	60.0	99.0	65.0	99.0	99.0	
								307	41.0	50.0	99.0	40.0	99.0	85.0	
								414	51.0	50.0	99.0	50.0	99.0	95.0	
								Mean =	45.3	52.5	99.0	53.8	99.0	94.5	
6	DIREX	4 L		32.0 oz/a	PRE	A		106	37.0	40.0	99.0	20.0	99.0	99.0	
								207	34.0	30.0	99.0	20.0	99.0	99.0	
								303	47.0	30.0	99.0	15.0	99.0	99.0	
								407	29.0	50.0	99.0	30.0	99.0	99.0	
								Mean =	36.8	37.5	99.0	21.3	99.0	99.0	
7	DIREX NIS	4 L		32.0 oz/a	POST	B		107	54.0	0.0	0.0	0.0	0.0	0.0	
								208	46.0	0.0	0.0	0.0	0.0	0.0	
								304	32.0	0.0	0.0	0.0	0.0	0.0	
								403	43.0	0.0	0.0	0.0	0.0	0.0	
								Mean =	43.8	0.0	0.0	0.0	0.0	0.0	
8	ANTHEM NIS	2.15 SC		4.8 oz/a	POST	B		108	30.0	0.0	0.0	0.0	0.0	0.0	
								210	43.0	0.0	0.0	0.0	0.0	0.0	
								313	36.0	0.0	0.0	0.0	0.0	0.0	
								408	37.0	0.0	0.0	0.0	0.0	0.0	
								Mean =	36.5	0.0	0.0	0.0	0.0	0.0	
9	ANTHEM FLEX NIS	4 SC		2.7 oz/a	POST	B		109	45.0	0.0	0.0	0.0	0.0	0.0	
								212	40.0	0.0	0.0	0.0	0.0	0.0	
								302	26.0	0.0	0.0	0.0	0.0	0.0	
								404	34.0	0.0	0.0	0.0	0.0	0.0	
								Mean =	36.3	0.0	0.0	0.0	0.0	0.0	
10	COTORAN DIREX NIS	4 L		32.0 oz/a	PRE	A		110	31.0	60.0	99.0	65.0	99.0	99.0	
								209	38.0	50.0	99.0	45.0	99.0	85.0	
		4 L		32.0 oz/a	POST	B			311	53.0	50.0	99.0	60.0	99.0	99.0
									409	21.0	50.0	99.0	40.0	99.0	99.0
		Mean =	35.8	52.5	99.0	52.5	99.0	95.5							
11	DUAL MAGNUM DIREX NIS	7.62 EC		16.0 oz/a	PRE	A		111	41.0	50.0	99.0	55.0	95.0	99.0	
								215	26.0	30.0	99.0	40.0	85.0	99.0	
		4 L		32.0 oz/a	POST	B			305	35.0	50.0	99.0	40.0	85.0	99.0
									413	11.0	60.0	99.0	50.0	75.0	99.0
		Mean =	28.3	47.5	99.0	46.3	85.0	99.0							

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.							----- SESAME PLANTS 3 FT ROW Apr-30-15	----- SESAME PLANT - STUNTING PERCENT May-9-15	MOLVE ----- CONTROL PERCENT May-9-15	----- SESAME PLANT - STUNTING PERCENT May-19-15	MOLVE ----- CONTROL PERCENT May-19-15	AMAPA ----- CONTROL PERCENT May-19-15
Trit	Treatment	Form	Form	Rate	Grow	Appl	1	2	3	4	5	6
No. Name	Conc	Type	Rate	Unit	Stg	Code Plot						
12	WARRANT	3 ME	48.0 oz/a	PRE	A	112	36.0	30.0	99.0	20.0	99.0	99.0
	DIREX	4 L	32.0 oz/a	POST	B	213	31.0	30.0	99.0	10.0	95.0	99.0
	NIS		0.25 % v/v	POST	B	308	26.0	40.0	99.0	15.0	95.0	95.0
						406	33.0	60.0	99.0	50.0	99.0	99.0
						Mean =	31.5	40.0	99.0	23.8	97.0	98.0
13	ZIDUA	85 WG	1.5 oz/a	PRE	A	113	26.0	65.0	99.0	80.0	99.0	99.0
	DIREX	4 L	32.0 oz/a	POST	B	202	34.0	60.0	99.0	75.0	99.0	99.0
	NIS		0.25 % v/v	POST	B	315	39.0	65.0	99.0	80.0	99.0	99.0
						401	23.0	65.0	99.0	80.0	99.0	99.0
						Mean =	30.5	63.8	99.0	78.8	99.0	99.0
14	DIREX	4 L	32.0 oz/a	POST	B	114	40.0	0.0	0.0	0.0	0.0	0.0
	DUAL MAGNUM	7.62 EC	16.0 oz/a	POST	B	211	29.0	0.0	0.0	0.0	0.0	0.0
						312	27.0	0.0	0.0	0.0	0.0	0.0
						405	18.0	0.0	0.0	0.0	0.0	0.0
						Mean =	28.5	0.0	0.0	0.0	0.0	0.0
15	DIREX	4 L	32.0 oz/a	POST	B	115	46.0	0.0	0.0	0.0	0.0	0.0
	WARRANT	3 ME	48.0 oz/a	POST	B	206	47.0	0.0	0.0	0.0	0.0	0.0
	NIS		0.25 % v/v	POST	B	310	27.0	0.0	0.0	0.0	0.0	0.0
						412	40.0	0.0	0.0	0.0	0.0	0.0
						Mean =	40.0	0.0	0.0	0.0	0.0	0.0

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.						ANNUAL GRASS	----- SESAME PLANT -	AMAPA -----	ANNUAL GRASS	AMAPA -----	ANNUAL GRASS			
						CONTROL PERCENT May-19-15	STUNTING PERCENT Jun-8-15	CONTROL PERCENT Jun-8-15	CONTROL PERCENT Jun-8-15	CONTROL PERCENT Jun-30-15	CONTROL PERCENT Jun-30-15			
Trt	Treatment	Form	Form	Rate	Grow	Appl								
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot	7	8	9	10	11	12
1	NTC							101	0.0	0.0	0.0	0.0	0.0	0.0
								204	0.0	0.0	0.0	0.0	0.0	0.0
								309	0.0	0.0	0.0	0.0	0.0	0.0
								411	0.0	0.0	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0	0.0	0.0
2	DUAL MAGNUM	7.62 EC		16.0 oz/a	PRE	A		102	85.0	0.0	99.0	65.0	99.0	45.0
								201	95.0	0.0	99.0	85.0	99.0	65.0
								314	95.0	20.0	99.0	65.0	99.0	85.0
								402	99.0	10.0	99.0	99.0	99.0	90.0
								Mean =	93.5	7.5	99.0	78.5	99.0	71.3
3	WARRANT	3 ME		48.0 oz/a	PRE	A		103	85.0	15.0	99.0	85.0	99.0	85.0
								205	99.0	0.0	99.0	99.0	99.0	95.0
								301	90.0	0.0	99.0	85.0	99.0	85.0
								415	99.0	0.0	99.0	85.0	99.0	85.0
								Mean =	93.3	3.8	99.0	88.5	99.0	87.5
4	ZIDUA	85 WG		1.5 oz/a	PRE	A		104	99.0	60.0	99.0	85.0	99.0	65.0
								214	99.0	60.0	99.0	90.0	99.0	85.0
								306	99.0	30.0	99.0	99.0	99.0	85.0
								410	99.0	85.0	99.0	85.0	99.0	75.0
								Mean =	99.0	58.8	99.0	89.8	99.0	77.5
5	COTORAN	4 L		32.0 oz/a	PRE	A		105	85.0	30.0	99.0	50.0	99.0	0.0
								203	95.0	35.0	0.0	50.0	0.0	65.0
								307	75.0	30.0	50.0	0.0	0.0	50.0
								414	90.0	30.0	0.0	65.0	0.0	40.0
								Mean =	86.3	31.3	37.3	41.3	24.8	38.8
6	DIREX	4 L		32.0 oz/a	PRE	A		106	90.0	10.0	99.0	65.0	99.0	65.0
								207	99.0	15.0	99.0	99.0	99.0	95.0
								303	90.0	0.0	99.0	85.0	99.0	85.0
								407	95.0	20.0	99.0	99.0	99.0	75.0
								Mean =	93.5	11.3	99.0	87.0	99.0	80.0
7	DIREX NIS	4 L		32.0 oz/a 0.25 % v/v	POST POST	B B		107	0.0	30.0	99.0	40.0	99.0	50.0
								208	0.0	15.0	99.0	85.0	99.0	75.0
								304	0.0	15.0	99.0	85.0	99.0	85.0
								403	0.0	10.0	99.0	0.0	99.0	20.0
								Mean =	0.0	17.5	99.0	52.5	99.0	57.5
8	ANTHEM NIS	2.15 SC		4.8 oz/a 0.25 % v/v	POST POST	B B		108	0.0	40.0	99.0	50.0	0.0	50.0
								210	0.0	10.0	0.0	0.0	0.0	0.0
								313	0.0	50.0	99.0	0.0	99.0	30.0
								408	0.0	30.0	99.0	0.0	99.0	0.0
								Mean =	0.0	32.5	74.3	12.5	49.5	20.0
9	ANTHEM FLEX NIS	4 SC		2.7 oz/a 0.25 % v/v	POST POST	B B		109	0.0	85.0	0.0	0.0	0.0	20.0
								212	0.0	75.0	0.0	50.0	0.0	50.0
								302	0.0	75.0	50.0	99.0	0.0	85.0
								404	0.0	50.0	0.0	0.0	0.0	0.0
								Mean =	0.0	71.3	12.5	37.3	0.0	38.8
10	COTORAN DIREX NIS	4 L 4 L		32.0 oz/a 32.0 oz/a 0.25 % v/v	PRE POST POST	A B B		110	85.0	65.0	99.0	85.0	99.0	65.0
								209	85.0	40.0	9.0	85.0	99.0	75.0
								311	99.0	65.0	99.0	99.0	99.0	85.0
								409	85.0	65.0	99.0	65.0	99.0	65.0
								Mean =	88.5	58.8	76.5	83.5	99.0	72.5
11	DUAL MAGNUM DIREX NIS	7.62 EC 4 L		16.0 oz/a 32.0 oz/a 0.25 % v/v	PRE POST POST	A B B		111	99.0	50.0	99.0	99.0	99.0	99.0
								215	95.0	50.0	99.0	85.0	99.0	85.0
								305	95.0	30.0	99.0	85.0	99.0	85.0
								413	99.0	65.0	99.0	85.0	99.0	85.0
								Mean =	97.0	48.8	99.0	88.5	99.0	88.5

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.						ANNUAL GRASS	----- SESAME PLANT - STUNTING PERCENT	AMAPA -----	ANNUAL GRASS	AMAPA -----	ANNUAL GRASS		
						CONTROL PERCENT May-19-15	CONTROL PERCENT Jun-8-15	CONTROL PERCENT Jun-8-15	CONTROL PERCENT Jun-8-15	CONTROL PERCENT Jun-30-15	CONTROL PERCENT Jun-30-15		
Trt	Treatment	Form	Form	Rate	Grow	Appl							
No. Name	Conc	Type	Rate	Unit	Stg	Code	Plot	7	8	9	10	11	12
12	WARRANT	3 ME	48.0 oz/a	PRE	A	112		99.0	20.0	99.0	99.0	99.0	95.0
	DIREX	4 L	32.0 oz/a	POST	B	213		99.0	10.0	99.0	90.0	99.0	95.0
	NIS		0.25 % v/v	POST	B	308		95.0	20.0	99.0	65.0	99.0	85.0
						406		99.0	50.0	99.0	85.0	99.0	75.0
						Mean =		98.0	25.0	99.0	84.8	99.0	87.5
13	ZIDUA	85 WG	1.5 oz/a	PRE	A	113		99.0	75.0	99.0	99.0	99.0	75.0
	DIREX	4 L	32.0 oz/a	POST	B	202		99.0	65.0	99.0	99.0	99.0	90.0
	NIS		0.25 % v/v	POST	B	315		99.0	90.0	99.0	85.0	99.0	85.0
						401		99.0	85.0	99.0	85.0	99.0	85.0
						Mean =		99.0	78.8	99.0	92.0	99.0	83.8
14	DIREX	4 L	32.0 oz/a	POST	B	114		0.0	20.0	99.0	0.0	99.0	0.0
	DUAL MAGNUM	7.62 EC	16.0 oz/a	POST	B	211		0.0	30.0	99.0	50.0	99.0	50.0
						312		0.0	60.0	99.0	0.0	99.0	20.0
						405		0.0	50.0	99.0	0.0	99.0	0.0
						Mean =		0.0	40.0	99.0	12.5	99.0	17.5
15	DIREX	4 L	32.0 oz/a	POST	B	115		0.0	30.0	99.0	0.0	99.0	0.0
	WARRANT	3 ME	48.0 oz/a	POST	B	206		0.0	30.0	99.0	65.0	99.0	75.0
	NIS		0.25 % v/v	POST	B	310		0.0	40.0	99.0	0.0	99.0	0.0
						412		0.0	50.0	99.0	0.0	99.0	0.0
						Mean =		0.0	37.5	99.0	16.3	99.0	18.8

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date PRM Data Type # Subsamples, Dec.						----- SESAME PLANT - HGT1 CM Jun-30-15	----- SESAME PLANT - HGT2 CM Jun-30-15	----- SESAME PLANT - HGT3 CM Jun-30-15	----- SESAME PLANT - HGT4 CM Jun-30-15	----- SESAME PLANT - HGT5 CM Jun-30-15	----- SESAME PLANT - HGT-AVG CM Jun-30-15 T1 - 0			
Trt	Treatment	Form	Form	Rate	Grow	Appl								
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot	13	14	15	16	17	18
1	NTC							101	113.0	116.0	121.0	115.0	121.0	117
								204	97.0	96.0	88.0	103.0	107.0	98
								309	105.0	106.0	109.0	103.0	99.0	104
								411	80.0	103.0	100.0	79.0	74.0	87
								Mean =	98.8	105.3	104.5	100.0	100.3	102
2	DUAL MAGNUM	7.62 EC		16.0 oz/a	PRE	A		102	115.0	113.0	124.0	121.0	103.0	115
								201	106.0	115.0	115.0	110.0	98.0	109
								314	85.0	95.0	87.0	90.0	91.0	90
								402	97.0	106.0	100.0	93.0	96.0	98
								Mean =	100.8	107.3	106.5	103.5	97.0	103
3	WARRANT	3 ME		48.0 oz/a	PRE	A		103	93.0	116.0	123.0	110.0	111.0	111
								205	104.0	98.0	104.0	108.0	92.0	101
								301	101.0	98.0	103.0	90.0	118.0	102
								415	111.0	106.0	96.0	92.0	98.0	101
								Mean =	102.3	104.5	106.5	100.0	104.8	104
4	ZIDUA	85 WG		1.5 oz/a	PRE	A		104	103.0	93.0	77.0	80.0	98.0	90
								214	55.0	91.0	70.0	96.0	97.0	82
								306	983.0	95.0	90.0	100.0	90.0	272
								410	55.0	30.0	57.0	33.0	74.0	50
								Mean =	299.0	77.3	73.5	77.3	89.8	123
5	COTORAN	4 L		32.0 oz/a	PRE	A		105	66.0	85.0	77.0	84.0	88.0	80
								203	90.0	97.0	105.0	98.0	88.0	96
								307	87.0	78.0	90.0	96.0	97.0	90
								414	86.0	83.0	88.0	106.0	106.0	94
								Mean =	82.3	85.8	90.0	96.0	94.8	90
6	DIREX	4 L		32.0 oz/a	PRE	A		106	109.0	105.0	98.0	100.0	101.0	103
								207	104.0	110.0	108.0	94.0	108.0	105
								303	114.0	98.0	103.0	108.0	98.0	104
								407	77.0	105.0	90.0	78.0	70.0	84
								Mean =	101.0	104.5	99.8	95.0	94.3	99
7	DIREX NIS	4 L		32.0 oz/a 0.25 % v/v	POST POST	B B		107	76.0	77.0	91.0	86.0	80.0	82
								208	103.0	90.0	91.0	92.0	86.0	92
								304	98.0	113.0	109.0	104.0	96.0	104
								403	81.0	94.0	103.0	98.0	97.0	95
								Mean =	89.5	93.5	98.5	95.0	89.8	93
8	ANTHEM NIS	2.15 SC		4.8 oz/a 0.25 % v/v	POST POST	B B		108	76.0	81.0	80.0	74.0	65.0	75
								210	88.0	95.0	96.0	96.0	88.0	93
								313	79.0	75.0	74.0	79.0	74.0	76
								408	66.0	67.0	88.0	84.0	83.0	78
								Mean =	77.3	79.5	84.5	83.3	77.5	80
9	ANTHEM FLEX NIS	4 SC		2.7 oz/a 0.25 % v/v	POST POST	B B		109	51.0	43.0	46.0	52.0	46.0	48
								212	56.0	57.0	65.0	63.0	65.0	61
								302	53.0	64.0	58.0	45.0	50.0	54
								404	63.0	73.0	74.0	78.0	58.0	69
								Mean =	55.8	59.3	60.8	59.5	54.8	58
10	COTORAN DIREX NIS	4 L 4 L		32.0 oz/a 32.0 oz/a 0.25 % v/v	PRE POST POST	A B B		110	80.0	73.0	83.0	65.0	61.0	72
								209	81.0	82.0	79.0	76.0	88.0	81
								311	95.0	83.0	68.0	66.0	80.0	78
								409	67.0	75.0	63.0	66.0	58.0	66
								Mean =	80.8	78.3	73.3	68.3	71.8	74
11	DUAL MAGNUM DIREX NIS	7.62 EC 4 L		16.0 oz/a 32.0 oz/a 0.25 % v/v	PRE POST POST	A B B		111	75.0	78.0	75.0	88.0	77.0	79
								215	85.0	86.0	99.0	89.0	85.0	89
								305	71.0	87.0	87.0	89.0	100.0	87
								413	76.0	63.0	66.0	74.0	87.0	73
								Mean =	76.8	78.5	81.8	85.0	87.3	82

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Weed Code							-----	-----	-----	-----	-----	-----
Crop Code							SESAME	SESAME	SESAME	SESAME	SESAME	SESAME
Part Rated							PLANT -	PLANT -	PLANT -	PLANT -	PLANT -	PLANT -
Rating Data Type							HGT1	HGT2	HGT3	HGT4	HGT5	HGT-AVG
Rating Unit							CM	CM	CM	CM	CM	CM
Rating Date							Jun-30-15	Jun-30-15	Jun-30-15	Jun-30-15	Jun-30-15	Jun-30-15
PRM Data Type												T1
# Subsamples, Dec.												- 0
Trt	Treatment	Form	Form	Rate	Grow	Appl						
No. Name	Conc	Type	Rate	Unit	Stg	Code Plot	13	14	15	16	17	18
12	WARRANT	3	ME	48.0 oz/a	PRE	A 112	95.0	91.0	97.0	87.0	106.0	95
	DIREX	4	L	32.0 oz/a	POST	B 213	96.0	103.0	105.0	113.0	109.0	105
	NIS			0.25 % v/v	POST	B 308	91.0	87.0	88.0	90.0	96.0	90
						406	76.0	79.0	60.0	68.0	74.0	71
						Mean =	89.5	90.0	87.5	89.5	96.3	91
13	ZIDUA	85	WG	1.5 oz/a	PRE	A 113	45.0	83.0	90.0	73.0	77.0	74
	DIREX	4	L	32.0 oz/a	POST	B 202	95.0	109.0	95.0	80.0	91.0	94
	NIS			0.25 % v/v	POST	B 315	40.0	40.0	62.0	52.0	20.0	43
						401	50.0	51.0	47.0	45.0	47.0	48
						Mean =	57.5	70.8	73.5	62.5	58.8	65
14	DIREX	4	L	32.0 oz/a	POST	B 114	78.0	84.0	92.0	94.0	87.0	87
	DUAL MAGNUM	7.62	EC	16.0 oz/a	POST	B 211	93.0	96.0	92.0	102.0	99.0	96
						312	62.0	63.0	75.0	71.0	68.0	68
						405	79.0	72.0	72.0	67.0	71.0	72
						Mean =	78.0	78.8	82.8	83.5	81.3	81
15	DIREX	4	L	32.0 oz/a	POST	B 115	95.0	102.0	96.0	98.0	86.0	95
	WARRANT	3	ME	48.0 oz/a	POST	B 206	99.0	89.0	100.0	90.0	86.0	93
	NIS			0.25 % v/v	POST	B 310	84.0	85.0	83.0	94.0	91.0	87
						412	65.0	71.0	71.0	78.0	81.0	73
						Mean =	85.8	86.8	87.5	90.0	86.0	87

University of Georgia

WEED CONTROL IN SESAME - II

Trial ID: SM-02-15 Study Dir.: JACK ROSE
Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code

MOLVE = CARPETWEED / MOLLUGO VERTICILLATA L.
AMAPA = AMARANTH, PALMER / AMARANTHUS PALMERI S.WATS.

Part Rated

PLANT = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf)

PRM Data Type

T1 = ([13]+[14]+[15]+[16]+[17])/5