

University of Georgia

CONTROLLING VOLUNTEER XTEND COTTON

Trial ID: CT-01-20 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

Reps: 3 Plots: 6 by 25 feet
Appl. Amount: 15 GAL/AC Mix Size: 1.5 L (total for 3 plots; minimum=0.5866 L)

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Diluent	Rep 1	2	3
1	NTC								-	101	215	314
2	GRAMOXONE NIS	3 SL		32.0 oz/a	0.25 % v/v	POST1 A		25.0 mL/mx 3.75 mL/mx	1471.3 mL	102	220	304
3	ENLIST ONE	3.8 SL		16.0 oz/a		POST1 A		12.5 mL/mx	1487.5 mL	103	201	310
4	LAUDIS COC	3.45 SC		3.0 oz/a	1.0 % v/v	POST1 A		2.343 mL/mx 15.0 mL/mx	1482.7 mL	104	208	318
5	CALLISTO COC	4 SC		3.0 oz/a	1.0 % v/v	POST1 A		2.343 mL/mx 15.0 mL/mx	1482.7 mL	105	219	303
6	ATRAZINE COC	4 L		32.0 oz/a	1.0 % v/v	POST1 A		25.0 mL/mx 15.0 mL/mx	1460 mL	106	202	312
7	ATRAZINE COC	4 L		64.0 oz/a	1.0 % v/v	POST1 A		49.99 mL/mx 15.0 mL/mx	1435.0 mL	107	214	320
8	CLASSIC NIS	25 DG		0.5 oz/a	0.25 % v/v	POST1 A		0.3745 g/mx 3.75 mL/mx	1495.9 mL	108	206	301
9	REFLEX NIS	2 SL		24.0 oz/a	0.25 % v/v	POST1 A		18.75 mL/mx 3.75 mL/mx	1477.5 mL	109	213	306
10	COBRA COC	2 EC		12.5 oz/a	1.0 % v/v	POST1 A		9.765 mL/mx 15.0 mL/mx	1475.2 mL	110	218	315
11	ULTRA BLAZER NIS	2 SL		24.0 oz/a	0.25 % v/v	POST1 A		18.75 mL/mx 3.75 mL/mx	1477.5 mL	111	204	308
12	GRAMOXONE VALOR SX NIS	3 SL 51 WG		32.0 oz/a 2.0 oz/a	0.25 % v/v	POST1 A POST1 A		25.0 mL/mx 1.498 g/mx 3.75 mL/mx	1469.8 mL	112	207	309
13	GRAMOXONE TRICOR NIS	3 SL 4 L		32.0 oz/a 8.0 oz/a	0.25 % v/v	POST1 A POST1 A		25.0 mL/mx 6.249 mL/mx 3.75 mL/mx	1465.0 mL	113	212	313
14	TRICOR NIS	4 SL		8.0 oz/a	0.25 % v/v	POST1 A		6.249 mL/mx 3.75 mL/mx	1490.0 mL	114	217	305
15	REVULIN Q COC	51.2 DG		3.5 oz/a	1.0 % v/v	POST1 A		2.621 g/mx 15.0 mL/mx	1482.4 mL	115	216	319
16	ACURON NIS	3.44 SC		48.0 oz/a	0.25 % v/v	POST1 A		37.5 mL/mx 3.75 mL/mx	1458.8 mL	116	203	317
17	EVIK NIS	80 DG		2.0 lb/a	0.25 % v/v	POST1 A		23.97 g/mx 3.75 mL/mx	1472.3 mL	117	209	316
18	CADRE COC	2 AS		4.0 oz/a	1.0 % v/v	POST1 A		3.125 mL/mx 15.0 mL/mx	1481.9 mL	118	205	302
19	STRONGARM NIS	84 WG		0.30 oz/a	0.25 % v/v	POST1 A		0.2247 g/mx 3.75 mL/mx	1496.0 mL	119	211	307
20	2,4-DB COC	1.75 SL		24.0 oz/a	1.0 % v/v	POST1 A		18.75 mL/mx 15.0 mL/mx	1466.3 mL	120	210	311

Sort Order: Treatment

Trial Comments

ACURON =S-METOLACHLOR (2.14 LB/GAL) + ATRAZINE (1.0 LB AI/GAL) + MESOTRIONE (0.24 LB/GAL) + BICYCLOPYRONE (0.06 LB/GAL)

REVULIN Q = NICOSULFURON (14.4.%) + MESOTRIONE (36.8%)

MAINTAIN WEED-FREE

COC = AGRIDEX
NIS = INDUCE

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CONTROLLING VOLUNTEER XTEND COTTON

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DATA WAS NOT COLLECTED FROM TRT#17 - EVIK - NOZZLES WERE CLOGGING DURING APPLICATION

SUMMARY:

1) TREATMENTS THAT PROVIDED 90%+ BIOMASS REDUCTION OF COTTON AT 14 DAT WERE AS FOLLOWS:

GRAMOXONE 3SL @ 32 OZ/A = 98%
GRAMOXONE 3SL @ 32 OZ/A + VALOR 51WG @ 2 OZ/A = 98%
GRAMOXONE 3SL @ 32 OZ/A + TRICOR 4L @ 8 OZ/A = 98%
TRICOR 4L @ 8 OZ/A = 96%
ACURON 3.44SC @ 48 OZ/A = 92%

2) TREATMENTS THAT PROVIDED 80-89% BIOMASS REDUCTION OF COTTON AT 14 DAT WERE AS FOLLOWS:

CALLISTO 4SC @ 3 OZ/A = 88%
ATRAZINE 4L @ 32 OZ/A = 81%
ATRAZINE 4L @ 64 OZ/A = 88%
CLASSIC 25DG @ 0.5 OZ/A = 82%
REFLEX 2SL @ 24 OZ/A = 85%
COBRA 2EC @ 12.5 OZ/A = 86%
REVULIN Q 51.2DG @ 3.5 OZ/A = 87%

3) TREATMENTS THAT PROVIDED 70-79% BIOMASS REDUCTION OF COTTON AT 14 DAT WERE AS FOLLOWS:

ENLIST ONE 3.8SL @ 16 OZ/A = 76%
ULTRA BLAZER 2SL @ 24 OZ/A = 71%
CADRE 2AS @ 4 OZ/A = 73%

4) TREATMENTS THAT PROVIDED 69% OR LESS BIOMASS REDUCTION OF COTTON AT 14 DAT WERE AS FOLLOWS:

LAUDIS 3.45SC @ 3 OZ/A = 65%
STRONGARM 84WG @ 0.3 OZ/A = 51%
2,4-DB 1.75SL @ 24 OZ/A = 56%

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Trial ID: CT-01-20 Study Dir.:
Location: PONDER FARM Investigator: Eric P. Prostko

GENERAL TRIAL INFORMATION

Study Director: _____ Title: _____
Affiliation: _____ Postal Code: _____

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

Trial Status: E 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. _____ 2. _____

Crop 1: GOSHI COTTON Variety: DP1646B2XF Planting Date: May-12-20
Planting Method: MONOSEM Rate: _____ Depth: 1 IN
Perennial Age: _____ Row Spacing: 36 IN Seed Bed: _____
Soil Temperature: _____ Soil Moisture: DRY Emergence Date: _____

Plot Width, Unit: 6 FT Plot Length, Unit: 25 FT Reps: 3
Site Type: _____
Tillage Type: CONVENTIONAL Study Design: RACOB
Trial Initiation Comments: 2 SEED EVERY 6" HILL DROP

Previous: Crops Pesticides Year
1. SORGHUM _____ 2019

MAINTENANCE

Field Prep./Maintenance:

No.	Date	Treatment Name	Form	Form	Form	Rate	Unit
1.	_____	_____	_____	_____	_____	_____	_____

SOIL DESCRIPTION

Texture: SAND % OM: 0.91 % Sand: 94 % Silt: 0 % Clay: 6
pH: 6.21 CEC: 3.6 Soil Name: TIFTON Fertility Level: GOOD

MOISTURE CONDITIONS

On: Date	Time	Amount	Unit	Type	Interval	Unit
1. May-13-20	_____	0.35	IN	SPRINKLER - LATERAL MOVE	_____	_____
2. May-15-20	_____	0.35	IN	SPRINKLER - LATERAL MOVE	_____	_____
3. May-17-20	_____	0.11	IN	RAINFALL	_____	_____
4. May-20-20	_____	1.3	IN	RAINFALL	_____	_____
5. May-22-20	_____	1.2	IN	RAINFALL	_____	_____
6. May-26-20	_____	0.26	IN	RAINFALL	_____	_____
7. May-28-20	_____	0.41	IN	RAINFALL	_____	_____
8. May-29-20	_____	0.19	IN	RAINFALL	_____	_____
9. Jun-3-20	_____	0.5	IN	SPRINKLER - LATERAL MOVE	_____	_____
10. Jun-6-20	_____	0.07	IN	RAINFALL	_____	_____
11. Jun-7-20	_____	0.59	IN	RAINFALL	_____	_____
12. Jun-9-20	_____	0.15	IN	RAINFALL	_____	_____
13. Jun-12-20	_____	2.67	IN	RAINFALL	_____	_____

Overall Moisture Conditions:

Closest Weather Station: _____ Distance: _____ Unit: _____

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Trial ID: CT-01-20 Study Dir.:
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		APPLICATION DESCRIPTION					
		A	B	C	D	E	F
Application Date:	Jun-5-20						
Time of Day:	7:30 AM						
Application Method:	BROADCAST						
Application Timing:	POST1						
Applic. Placement:	FOLIAGE						
Air Temp., Unit:	74 F						
% Relative Humidity:	87						
Wind Velocity, Unit:	0 MPH						
Dew Presence (Y/N):	N						
Water Hardness:	---						
Soil Temp., Unit:	78 F						
Soil Moisture:	OPTIMUM						
% Cloud Cover:	0						

		CROP STAGE AT EACH APPLICATION					
		A	B	C	D	E	F
Crop 1	Stage: GOSHI						
Stage Scale:	4LF/4-6"						
Height, Unit:							

		WEED STAGE AT EACH APPLICATION					
		A	B	C	D	E	F
Weed 1	Stage:						
Stage Scale:							
Density, Unit:							

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

Trt No	Treatment Application Comment

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Weed Code							----	----	-----	-----	
Crop Code							GOSHI	GOSHI	GOSHI	GOSHI	
Part Rated							PLANT -	BIOMAS -	PLANT -	PLANT -	
Rating Data Type							BIOMASS	REDUCTIO	BIOMASS	BIOMASS	
Rating Unit							g/3 ft	Percent	G/3 FT	PERCENT	
Rating Date							Jun-12-20	Jun-12-20	Jun-19-20	Jun-19-20	
Trt-Eval Interval							7 DA-A	7 DA-A	14 DA-A	14 DA-A	
# Subsamples, Dec.									- 1	- 1	
Trt	Treatment	Form	Form	Rate	Grow	Appl					
No.	Name	Conc	Type	Rate	Unit	Stg	Code				
								1	2	3	4
1	NTC							93.0 a	0.0 g	154.9 a	0.0 k
2	GRAMOXONE NIS	3 SL		32.0 oz/a	POST1 A			2.7 i	97.0 a	2.7 m	98.3 a
				0.25 % v/v	POST1 A						
3	ENLIST ONE	3.8 SL		16.0 oz/a	POST1 A			39.3 c	55.3 e	35.9 efg	76.4 efg
4	LAUDIS COC	3.45 SC		3.0 oz/a	POST1 A			34.7 cd	60.3 de	52.0 cd	64.7 hi
				1.0 % v/v	POST1 A						
5	CALLISTO COC	4 SC		3.0 oz/a	POST1 A			25.3 d-g	71.7 cd	18.9 h-k	87.6 bcd
				1.0 % v/v	POST1 A						
6	ATRAZINE COC	4 L		32.0 oz/a	POST1 A			33.0 cde	63.0 de	29.1 e-h	81.3 def
				1.0 % v/v	POST1 A						
7	ATRAZINE COC	4 L		64.0 oz/a	POST1 A			30.3 c-f	66.7 cde	18.3 h-l	87.5 bcd
				1.0 % v/v	POST1 A						
8	CLASSIC NIS	25 DG		0.5 oz/a	POST1 A			21.3 e-h	77.0 bc	26.2 f-i	82.2 def
				0.25 % v/v	POST1 A						
9	REFLEX NIS	2 SL		24.0 oz/a	POST1 A			20.3 fgh	76.7 bc	21.3 ghi	84.7 de
				0.25 % v/v	POST1 A						
10	COBRA COC	2 EC		12.5 oz/a	POST1 A			13.7 ghi	85.7 ab	22.7 ghi	85.5 cde
				1.0 % v/v	POST1 A						
11	ULTRA BLAZER NIS	2 SL		24.0 oz/a	POST1 A			13.0 hi	85.7 ab	44.0 de	70.5 gh
				0.25 % v/v	POST1 A						
12	GRAMOXONE VALOR SX NIS	3 SL 51 WG		32.0 oz/a 2.0 oz/a	POST1 A POST1 A			5.7 i	94.0 a	3.5 lm	97.9 ab
				0.25 % v/v	POST1 A						
13	GRAMOXONE TRICOR NIS	3 SL 4 L		32.0 oz/a 8.0 oz/a	POST1 A POST1 A			4.7 i	95.0 a	3.9 klm	97.6 ab
				0.25 % v/v	POST1 A						
14	TRICOR NIS	4 SL		8.0 oz/a	POST1 A			11.3 hi	87.0 ab	5.8 j-m	96.1 abc
				0.25 % v/v	POST1 A						
15	REVULIN Q COC	51.2 DG		3.5 oz/a	POST1 A			38.3 c	60.0 de	20.5 hij	86.6 cde
				1.0 % v/v	POST1 A						
16	ACURON NIS	3.44 SC		48.0 oz/a	POST1 A			21.0 e-h	76.7 bc	12.7 i-m	91.7 a-d
				0.25 % v/v	POST1 A						
17	EVIK NIS	80 DG		2.0 lb/a	POST1 A						
				0.25 % v/v	POST1 A						
18	CADRE COC	2 AS		4.0 oz/a	POST1 A			34.7 cd	62.0 de	40.4 def	73.1 fgh
				1.0 % v/v	POST1 A						
19	STRONGARM NIS	84 WG		0.30 oz/a	POST1 A			33.0 cde	64.3 cde	71.8 b	51.3 j
				0.25 % v/v	POST1 A						
20	2,4-DB COC	1.75 SL		24.0 oz/a	POST1 A			55.3 b	39.0 f	65.0 bc	56.3 ij
				1.0 % v/v	POST1 A						
LSD P=.10							12.26	13.25	15.24	10.65	
Standard Deviation							8.89	9.62	11.06	7.73	
CV							31.84	13.87	32.34	9.99	
Grand Mean							27.93	69.32	34.19	77.33	
Bartlett's X2							34.29	31.595	40.492	43.42	
P(Bartlett's X2)							0.012*	0.017*	0.002*	0.001*	

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).

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

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Randomized Complete Block (RCB) AOV For ---- GOSHI PLANT BIOMASS g/3 ft Jun-12-20 7 DA-A (Data Column 1)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	56	26851.719298			
Replicate	2	291.508772	145.754386	1.843	0.1730
Treatment	18	23712.385965	1317.354776	16.653	0.0001
Error	36	2847.824561	79.106238		

Randomized Complete Block (RCB) AOV For ---- GOSHI BIOMAS REDUCTIO Percent Jun-12-20 7 DA-A (Data Column 2)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	56	32658.315789			
Replicate	2	1527.473684	763.736842	8.260	0.0011
Treatment	18	27802.315789	1544.573099	16.705	0.0001
Error	36	3328.526316	92.459064		

Randomized Complete Block (RCB) AOV For ----- GOSHI PLANT BIOMASS G/3 FT Jun-19-20 14 DA-A 1 (Data Column 3)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	56	72604.597193			
Replicate	2	516.065614	258.032807	2.110	0.1360
Treatment	18	67685.950526	3760.330585	30.748	0.0001
Error	36	4402.581053	122.293918		

Randomized Complete Block (RCB) AOV For ----- GOSHI PLANT BIOMASS PERCENT Jun-19-20 14 DA-A 1 (Data Column 4)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	56	32161.703158			
Replicate	2	1184.000000	592.000000	9.913	0.0004
Treatment	18	28827.869825	1601.548324	26.819	0.0001
Error	36	2149.833333	59.717593		

Crop Code

GOSHI = COTTON, SHORT STAPLE / GOSSYPIMUM HIRSUTUM L.

Part Rated

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

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date Trt-Eval Interval # Subsamples, Dec.						----- GOSHI PLANT - BIOMASS g/3 ft Jun-12-20 7 DA-A	----- GOSHI BIOMAS - REDUCTIO Percent Jun-12-20 7 DA-A	----- GOSHI PLANT - BIOMASS G/3 FT Jun-19-20 14 DA-A - 1	----- GOSHI PLANT - BIOMASS PERCENT Jun-19-20 14 DA-A - 1
Trt	Treatment	Form	Form	Rate	Grow	Appl			
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot	
1	NTC						101	93.0	0.0
							215	111.0	0.0
							314	75.0	0.0
							Mean =	93.0	0.0
2	GRAMOXONE	3 SL		32.0 oz/a	POST1 A		102	3.0	97.0
	NIS			0.25 % v/v	POST1 A		220	1.0	99.0
							304	4.0	95.0
							Mean =	2.7	97.0
3	ENLIST ONE	3.8 SL		16.0 oz/a	POST1 A		103	18.0	81.0
							201	44.0	60.0
							310	56.0	25.0
							Mean =	39.3	55.3
4	LAUDIS	3.45 SC		3.0 oz/a	POST1 A		104	28.0	70.0
	COC			1.0 % v/v	POST1 A		208	29.0	74.0
							318	47.0	37.0
							Mean =	34.7	60.3
5	CALLISTO	4 SC		3.0 oz/a	POST1 A		105	21.0	77.0
	COC			1.0 % v/v	POST1 A		219	26.0	77.0
							303	29.0	61.0
							Mean =	25.3	71.7
6	ATRAZINE	4 L		32.0 oz/a	POST1 A		106	36.0	61.0
	COC			1.0 % v/v	POST1 A		202	28.0	75.0
							312	35.0	53.0
							Mean =	33.0	63.0
7	ATRAZINE	4 L		64.0 oz/a	POST1 A		107	19.0	80.0
	COC			1.0 % v/v	POST1 A		214	36.0	68.0
							320	36.0	52.0
							Mean =	30.3	66.7
8	CLASSIC	25 DG		0.5 oz/a	POST1 A		108	12.0	87.0
	NIS			0.25 % v/v	POST1 A		206	30.0	73.0
							301	22.0	71.0
							Mean =	21.3	77.0
9	REFLEX	2 SL		24.0 oz/a	POST1 A		109	11.0	88.0
	NIS			0.25 % v/v	POST1 A		213	21.0	81.0
							306	29.0	61.0
							Mean =	20.3	76.7
10	COBRA	2 EC		12.5 oz/a	POST1 A		110	15.0	84.0
	COC			1.0 % v/v	POST1 A		218	17.0	85.0
							315	9.0	88.0
							Mean =	13.7	85.7
11	ULTRA BLAZER	2 SL		24.0 oz/a	POST1 A		111	8.0	91.0
	NIS			0.25 % v/v	POST1 A		204	16.0	86.0
							308	15.0	80.0
							Mean =	13.0	85.7
12	GRAMOXONE	3 SL		32.0 oz/a	POST1 A		112	4.0	96.0
	VALOR SX	51 WG		2.0 oz/a	POST1 A		207	6.0	95.0
	NIS			0.25 % v/v	POST1 A		309	7.0	91.0
							Mean =	5.7	94.0
13	GRAMOXONE	3 SL		32.0 oz/a	POST1 A		113	3.0	97.0
	TRICOR	4 L		8.0 oz/a	POST1 A		212	6.0	95.0
	NIS			0.25 % v/v	POST1 A		313	5.0	93.0
							Mean =	4.7	95.0

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Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date Trt-Eval Interval # Subsamples, Dec.							----- GOSHI PLANT - BIOMASS g/3 ft Jun-12-20 7 DA-A	----- GOSHI BIOMAS - REDUCTIO Percent Jun-12-20 7 DA-A	----- GOSHI PLANT - BIOMASS G/3 FT Jun-19-20 14 DA-A - 1	----- GOSHI PLANT - BIOMASS PERCENT Jun-19-20 14 DA-A - 1		
Trt	Treatment	Form	Form	Rate	Grow	Appl						
No.	Name	Conc	Type	Rate	Unit	Stg	Code	Plot	1	2	3	4
14	TRICOR NIS	4	SL	8.0 oz/a 0.25 % v/v	POST1 A POST1 A	114		9.0		90.0	6.2	96.4
						217		11.0		90.0	6.2	96.2
						305		14.0		81.0	5.1	95.6
						Mean =		11.3		87.0	5.8	96.1
15	REVULIN Q COC	51.2	DG	3.5 oz/a 1.0 % v/v	POST1 A POST1 A	115		45.0		52.0	15.6	91.0
						216		50.0		55.0	28.2	82.8
						319		20.0		73.0	17.8	86.0
						Mean =		38.3		60.0	20.5	86.6
16	ACURON NIS	3.44	SC	48.0 oz/a 0.25 % v/v	POST1 A POST1 A	116		18.0		81.0	8.8	94.9
						203		20.0		82.0	18.1	89.0
						317		25.0		67.0	11.3	91.2
						Mean =		21.0		76.7	12.7	91.7
17	EVIK NIS	80	DG	2.0 lb/a 0.25 % v/v	POST1 A POST1 A	117		.		.	.	.
						209		.		.	.	.
						316		.		.	.	.
						Mean =		.		.	.	.
18	CADRE COC	2	AS	4.0 oz/a 1.0 % v/v	POST1 A POST1 A	118		34.0		63.0	40.7	76.6
						205		38.0		66.0	36.0	78.0
						302		32.0		57.0	44.6	64.8
						Mean =		34.7		62.0	40.4	73.1
19	STRONGARM NIS	84	WG	0.30 oz/a 0.25 % v/v	POST1 A POST1 A	119		30.0		68.0	50.7	70.9
						211		39.0		65.0	72.9	55.5
						307		30.0		60.0	91.7	27.6
						Mean =		33.0		64.3	71.8	51.3
20	2,4-DB COC	1.75	SL	24.0 oz/a 1.0 % v/v	POST1 A POST1 A	120		67.0		28.0	47.2	72.9
						210		49.0		56.0	70.5	57.0
						311		50.0		33.0	77.2	39.1
						Mean =		55.3		39.0	65.0	56.3

Crop Code
GOSHI = COTTON, SHORT STAPLE / GOSSYPIMUM HIRSUTUM L.
Part Rated
PLANT = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf)