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WEED CONTROL IN INZEN GRAIN SORGHUM

Trial ID: SG-01-17 Study Dir.: STANLEY ROYAL (USA-17-178)
Location: PONDER FARM Investigator: Eric P. Prostko

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

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Amt Product to Measure	Rep 1	2	3	4
1	LEADOFF	33.4	WG	1.5	oz/a	PRE	A	1.123 g/mx	101	208	303	405
	ATRAZINE	4	L	24.0	oz/a	PRE	A	18.75 ml/mx				
	ZEST	75	WG	0.67	oz/a	POST	C	0.5018 g/mx				
	ATRAZINE	4	SL	24.0	oz/a	POST	C	18.75 ml/mx				
	COC			1.67	% v/v	POST	C	25.05 ml/mx				
	AMS XTRA	3.4	SL	2.0	% v/v	POST	C	30.0 ml/mx				
2	LEADOFF	33.4	WG	1.5	oz/a	PRE	A	1.123 g/mx	102	205	301	409
	CINCH	7.64	EC	21.0	oz/a	PRE	A	16.4 ml/mx				
	ZEST	75	WG	0.67	oz/a	POST	C	0.5018 g/mx				
	COC			1.67	% v/v	POST	C	25.05 ml/mx				
	AMS XTRA	3.4	SL	2.0	% v/v	POST	C	30.0 ml/mx				
3	LEADOFF	33.4	WG	1.5	oz/a	PRE	A	1.123 g/mx	103	207	310	404
	CINCH	7.64	EC	21.0	oz/a	PRE	A	16.4 ml/mx				
	ZEST	75	WG	0.67	oz/a	POST	C	0.5018 g/mx				
	ATRAZINE	4	L	24.0	oz/a	POST	C	18.75 ml/mx				
	COC			1.67	% v/v	POST	C	25.05 ml/mx				
	AMS XTRA	3.4	SL	2.0	% v/v	POST	C	30.0 ml/mx				
4	CINCH ATZ	5.5	SC	32.0	oz/a	PRE	A	25.0 ml/mx	104	201	302	408
	ZEST	75	WG	0.67	oz/a	POST	C	0.5018 g/mx				
	ATRAZINE	4	L	24.0	oz/a	POST	C	18.75 ml/mx				
	COC			1.67	% v/v	POST	C	25.05 ml/mx				
	AMS XTRA	3.4	SL	2.0	% v/v	POST	C	30.0 ml/mx				
5	CINCH ATZ	5.5	SC	51.0	oz/a	EPOST	B	39.84 ml/mx	105	206	308	402
	ZEST	75	WG	0.67	oz/a	EPOST	B	0.5018 g/mx				
	COC			1.67	% v/v	EPOST	B	25.05 ml/mx				
	AMS XTRA	3.4	SL	2.0	% v/v	EPOST	B	30.0 ml/mx				
6	CINCH	7.64	EC	16.0	oz/a	PRE	A	12.5 ml/mx	106	202	307	401
	ZEST	75	WG	0.67	oz/a	POST	C	0.5018 g/mx				
	ATRAZINE	4	L	24.0	oz/a	POST	C	18.75 ml/mx				
	COC			1.67	% v/v	POST	C	25.05 ml/mx				
	AMS XTRA	3.4	SL	2.0	% v/v	POST	C	30.0 ml/mx				
7	CINCH ATZ	5.5	SC	51.0	oz/a	PRE	A	39.84 ml/mx	107	203	309	406
8	WARRANT	3	ME	48.0	oz/a	PRE	A	37.5 ml/mx	108	209	306	410
	ATRAZINE	4	L	64.0	oz/a	POST	C	49.99 ml/mx				
	PROWL H20	3.8	SC	32.0	oz/a	POST	C	25.0 ml/mx				
	COC			1.0	% v/v	POST	C	15.0 ml/mx				
9	DUAL MAGNUM	7.62	EC	21.0	oz/a	PRE	A	16.4 ml/mx	109	210	304	407
	ATRAZINE	4	L	64.0	oz/a	POST	C	49.99 ml/mx				
	PROWL H20	3.8	SC	32.0	oz/a	POST	C	25.0 ml/mx				
	COC			1.0	% v/v	POST	C	15.0 ml/mx				
10	NTC								110	204	305	403

Sort Order: Treatment

Trial Comments

1.67% V/V = 32 OZ/A

LEADOFF 33.4WG = RIMSULFURON (16.7%) + THIFENSULFURON (16.7%)
CINCH ATZ = ATRAZINE (3.1 LBS/GAL) + S-MOC (2.4 LBS/GAL)

ATRAZINE = AATREX

YIELD DATA WAS NOT COLLECTED DUE TO EXCESSIVE BIRD DAMAGE.

SUMMARY:

1) ALL PRE'S, INCLUDING LEADOFF, CAUSE SLIGHT SORGHUM STUNTING (10% OR LESS) EARLY IN THE GROWING SEASON.

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2) PRE APPLICATIONS OF LEADOFF PROVIDED GOOD TO EXCELLENT CONTROL OF ANNUAL GRASSES, PALMER AMARANTH, AND WILD RADISH (>87%).

3) PRE APPLICATIONS OF DUAL MAGNUM OR WARRANT PROVIDED POOR CONTROL OF WILD RADISH (<50%).

4) EPOST APPLICATIONS OF CINCH ATZ + ZEST + COC + AMS XTRA CAUSED SIGNIFICANT SORGHUM STUNTING (40-49%).

5) AT 35 AND 58 DAYS AFTER PLANTING, ALL TREATMENTS PROVIDED EXCELLENT CONTROL OF PALMER AMARANTH (> 97%).

6) AT 35 DAYS AFTER PLANTING, ANNUAL GRASS CONTROL WAS <80% WITH THE FOLLOWING TREATMENTS:

A) CINCH ATZ (PRE) FB ZEST + ATRAZINE + COC + AMS XTRA (POST) = 75% CONTROL
B) CINCH (PRE) FB ZEST + ATRAZINE + COC + AMS XTRA (POST) = 73% CONTROL
C) CINCH ATZ (PRE) = 75% CONTROL
D) WARRANT (PRE) FB ATRAZINE + PROWL H20 + COC (POST) = 54% CONTROL

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WEED CONTROL IN INZEN GRAIN SORGHUM

Trial ID: SG-01-17 Study Dir.: STANLEY ROYAL (USA-17-178)
Location: PONDER FARM Investigator: Eric P. Prostko

GENERAL TRIAL INFORMATION

Study Director: STANLEY ROYAL (USA-17-178) **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. AMAPA PALMER AMARANTH **2.** RAPRA WILD RADISH
Weed 3. AGRASS TEXAS PANICUM +CRABGRASS **4.** _____ _____

Crop 1: SORBI SORGHUM **Variety:** ADV G3250ALS **Planting Date:** Apr-10-17
Planting Method: MONOSEM **Rate:** 87120 SEED/A **Depth:** 2 IN
Perennial Age: ____ _____ **Row Spacing:** 30 IN **Seed Bed:** _____
Soil Temperature: ____ _ **Soil Moisture:** OPTIMUM **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.	COTTON	2016	____

MAINTENANCE

Field Prep./Maintenance: _____

No.	Date	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Unit
1.	_____	_____	____	_____	___	_____	_____

SOIL DESCRIPTION

Texture: SAND **% OM:** 0.93 **% Sand:** 94 **% Silt:** 4 **% Clay:** 2
pH: 6.7 **CEC:** 5.0 **Soil Name:** TIFTON **Fertility Level:** GOOD

MOISTURE CONDITIONS

On:	Date	Time	Amount	Unit	Type	Interval	Unit
1.	Apr-11-17	0.5	_____	IN	SPRINKLER - LATERAL MOVE	_____	___
2.	Apr-13-17	0.5	_____	IN	SPRINKLER - LATERAL MOVE	_____	___
3.	Apr-18-17	0.5	_____	IN	SPRINKLER - LATERAL MOVE	_____	___
4.	Apr-21-17	0.5	_____	IN	SPRINKLER - LATERAL MOVE	_____	___
5.	Apr-23-17	0.17	_____	IN	RAINFALL	_____	___
6.	Apr-26-17	0.5	_____	IN	SPRINKLER - LATERAL MOVE	_____	___
7.	Apr-28-17	0.5	_____	IN	SPRINKLER - LATERAL MOVE	_____	___
8.	May-1-17	0.1	_____	IN	RAINFALL	_____	___
9.	May-2-17	0.75	_____	IN	SPRINKLER - LATERAL MOVE	_____	___
10.	May-2-17	0.01	_____	IN	RAINFALL	_____	___
11.	May-4-17	1.47	_____	IN	RAINFALL	_____	___
12.	May-9-17	0.75	_____	IN	SPRINKLER - LATERAL MOVE	_____	___
13.	May-12-17	0.75	_____	IN	SPRINKLER - LATERAL MOVE	_____	___
14.	May-15-17	_____	_____	IN	SPRINKLER - LATERAL MOVE	_____	___

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

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APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date:	Apr-11-17	Apr-24-17	May-8-17			
Time of Day:	7:30 AM	7:00 AM	7:15 AM			
Application Method:	BROADCAST	BROADCAST	BROADCAST			
Application Timing:	PRE	EPOST	POST			
Applic. Placement:	SOIL	FOLIAGE	FOLIAGE			
Air Temp., Unit:	56 F	54 F	52 F			
% Relative Humidity:	93	97	93			
Wind Velocity, Unit:	0 MPH	3 MPH	0 MPH			
Dew Presence (Y/N):	Y	N	N			
Water Hardness:	--	--	---			
Soil Temp., Unit:	64 F	65 F	60 F			
Soil Moisture:	OPTIMUM	WET	OPT			
% Cloud Cover:	20	100	0			

CROP STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Crop 1 Stage:	SORBI					
Stage Scale:		V2	V5-V6			
Height, Unit:		3 IN	10 IN			

WEED STAGE AT EACH APPLICATION

	A	B	C	D	E	F
Weed 1 Stage:	AMAPA	2"	1-3"			
Stage Scale:						
Density, Unit:						
Weed 2 Stage:	RAPRA	0.5-1"	3-5"			
Stage Scale:						
Density, Unit:						
Weed 3 Stage:	AGRASS	0.5-2"	2-4"			
Stage Scale:						
Density, Unit:						

APPLICATION EQUIPMENT

	A	B	C	D	E	F
Appl. Equipment:	BACKPACK	BACKPACK	SAME AS B			
Operating Pressure:	35	38				
Nozzle Type:	AIXR	AIXR				
Nozzle Size:	11002	11002				
Nozzle Spacing, Unit:	18 IN	20 IN				
Nozzles/Row:	2					
Band Width, Unit:						
Boom Length, Unit:	72 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 INZEN GRAIN SORGHUM

Trial ID: SG-01-17 Study Dir.: STANLEY ROYAL (USA-17-178)
Location: PONDER FARM Investigator: Eric P. Prostko

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	SORBI PLANT - STUNTING PERCENT Apr-20-17	SORGHUM PLANT - CHLOROSI PERCENT Apr-20-17	AMAPA CONTROL PERCENT Apr-20-17	AGRASS CONTROL PERCENT Apr-20-17	RAPRA CONTROL PERCENT Apr-20-17	SORBI PLANT - STUNTING PERCENT May-5-17
								1	2	3	4	5	6
1	LEADOFF	33.4	WG	1.5	oz/a	PRE	A	0.0 a	10.0 a	99.0 a	89.5 ab	99.0 a	10.0 b
	ATRAZINE	4	L	24.0	oz/a	PRE	A						
	ZEST	75	WG	0.67	oz/a	POST	C						
	ATRAZINE	4	SL	24.0	oz/a	POST	C						
	COC			1.67	% v/v	POST	C						
	AMS XTRA	3.4	SL	2.0	% v/v	POST	C						
2	LEADOFF	33.4	WG	1.5	oz/a	PRE	A	0.0 a	12.5 a	99.0 a	99.0 a	99.0 a	10.0 b
	CINCH	7.64	EC	21.0	oz/a	PRE	A						
	ZEST	75	WG	0.67	oz/a	POST	C						
	COC			1.67	% v/v	POST	C						
	AMS XTRA	3.4	SL	2.0	% v/v	POST	C						
3	LEADOFF	33.4	WG	1.5	oz/a	PRE	A	0.0 a	7.5 a	99.0 a	92.0 ab	95.5 a	11.3 b
	CINCH	7.64	EC	21.0	oz/a	PRE	A						
	ZEST	75	WG	0.67	oz/a	POST	C						
	ATRAZINE	4	L	24.0	oz/a	POST	C						
	COC			1.67	% v/v	POST	C						
	AMS XTRA	3.4	SL	2.0	% v/v	POST	C						
4	CINCH ATZ	5.5	SC	32.0	oz/a	PRE	A	0.0 a	10.0 a	99.0 a	82.5 b	94.5 a	10.0 b
	ZEST	75	WG	0.67	oz/a	POST	C						
	ATRAZINE	4	L	24.0	oz/a	POST	C						
	COC			1.67	% v/v	POST	C						
	AMS XTRA	3.4	SL	2.0	% v/v	POST	C						
5	CINCH ATZ	5.5	SC	51.0	oz/a	EPOST	B	0.0 a	0.0 b	0.0 b	0.0 c	0.0 c	48.8 a
	ZEST	75	WG	0.67	oz/a	EPOST	B						
	COC			1.67	% v/v	EPOST	B						
	AMS XTRA	3.4	SL	2.0	% v/v	EPOST	B						
6	CINCH	7.64	EC	16.0	oz/a	PRE	A	0.0 a	6.3 ab	99.0 a	86.0 ab	37.5 b	10.0 b
	ZEST	75	WG	0.67	oz/a	POST	C						
	ATRAZINE	4	L	24.0	oz/a	POST	C						
	COC			1.67	% v/v	POST	C						
	AMS XTRA	3.4	SL	2.0	% v/v	POST	C						
7	CINCH ATZ	5.5	SC	51.0	oz/a	PRE	A	0.0 a	8.8 a	99.0 a	87.5 ab	98.0 a	10.0 b
8	WARRANT	3	ME	48.0	oz/a	PRE	A	0.0 a	8.8 a	99.0 a	86.0 ab	12.5 c	8.8 b
	ATRAZINE	4	L	64.0	oz/a	POST	C						
	PROWL H20	3.8	SC	32.0	oz/a	POST	C						
	COC			1.0	% v/v	POST	C						
9	DUAL MAGNUM	7.62	EC	21.0	oz/a	PRE	A	0.0 a	11.3 a	99.0 a	94.5 ab	50.0 b	7.5 b
	ATRAZINE	4	L	64.0	oz/a	POST	C						
	PROWL H20	3.8	SC	32.0	oz/a	POST	C						
	COC			1.0	% v/v	POST	C						
10	NTC							0.0 a	0.0 b	0.0 b	0.0 c	0.0 c	0.0 c
LSD P=.10								.	6.39	.	11.66	13.88	3.55
Standard Deviation								0.00	5.31	0.00	9.68	11.52	2.95
CV								0.0	70.74	0.0	13.5	19.66	23.34
Grand Mean								0.00	7.50	79.20	71.70	58.60	12.63
Bartlett's X2								0.0	5.157	0.0	3.427	17.23	5.728
P(Bartlett's X2)								.	0.524	.	0.754	0.002*	0.334
Replicate F								0.000	1.362	0.000	4.071	1.144	3.720
Replicate Prob(F)								1.0000	0.2755	1.0000	0.0165	0.3492	0.0233
Treatment F								0.000	2.664	0.000	61.942	56.844	78.952
Treatment Prob(F)								1.0000	0.0235	1.0000	0.0001	0.0001	0.0001

Means followed by same letter or symbol 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.
Could not calculate LSD (% mean diff) for columns 1,3,11 because error mean square = 0.

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	7	8	9	10	11	12	13
	Weed Code							----- AMAPA	----- AGRASS	----- RAPRA	----- SORBI	----- AMAPA	----- AGRASS	----- AMAPA
	Crop Code										PLANT -			
	Part Rated													
	Rating Data Type							CONTROL	CONTROL	CONTROL	STUNTING	CONTROL	CONTROL	CONTROL
	Rating Unit							PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	Rating Date							May-5-17	May-5-17	May-5-17	May-16-17	May-16-17	May-16-17	Jun-8-17
1	LEADOFF	33.4	WG	1.5	oz/a	PRE	A	100.0 a	87.3 ab	95.0 ab	10.0 b	100.0 a	82.5 ab	100.0 a
	ATRAZINE	4	L	24.0	oz/a	PRE	A							
	ZEST	75	WG	0.67	oz/a	POST	C							
	ATRAZINE	4	SL	24.0	oz/a	POST	C							
	COC			1.67	% v/v	POST	C							
	AMS XTRA	3.4	SL	2.0	% v/v	POST	C							
2	LEADOFF	33.4	WG	1.5	oz/a	PRE	A	100.0 a	97.3 a	93.8 ab	8.8 b	100.0 a	96.3 a	100.0 a
	CINCH	7.64	EC	21.0	oz/a	PRE	A							
	ZEST	75	WG	0.67	oz/a	POST	C							
	COC			1.67	% v/v	POST	C							
	AMS XTRA	3.4	SL	2.0	% v/v	POST	C							
3	LEADOFF	33.4	WG	1.5	oz/a	PRE	A	100.0 a	98.5 a	97.5 a	10.0 b	100.0 a	95.0 a	100.0 a
	CINCH	7.64	EC	21.0	oz/a	PRE	A							
	ZEST	75	WG	0.67	oz/a	POST	C							
	ATRAZINE	4	L	24.0	oz/a	POST	C							
	COC			1.67	% v/v	POST	C							
	AMS XTRA	3.4	SL	2.0	% v/v	POST	C							
4	CINCH ATZ	5.5	SC	32.0	oz/a	PRE	A	100.0 a	68.8 cd	83.8 b	11.3 b	100.0 a	75.0 b	100.0 a
	ZEST	75	WG	0.67	oz/a	POST	C							
	ATRAZINE	4	L	24.0	oz/a	POST	C							
	COC			1.67	% v/v	POST	C							
	AMS XTRA	3.4	SL	2.0	% v/v	POST	C							
5	CINCH ATZ	5.5	SC	51.0	oz/a	EPOST	B	100.0 a	96.0 a	100.0 a	40.0 a	100.0 a	95.0 a	100.0 a
	ZEST	75	WG	0.67	oz/a	EPOST	B							
	COC			1.67	% v/v	EPOST	B							
	AMS XTRA	3.4	SL	2.0	% v/v	EPOST	B							
6	CINCH	7.64	EC	16.0	oz/a	PRE	A	100.0 a	66.0 d	0.0 c	7.5 b	100.0 a	72.5 b	100.0 a
	ZEST	75	WG	0.67	oz/a	POST	C							
	ATRAZINE	4	L	24.0	oz/a	POST	C							
	COC			1.67	% v/v	POST	C							
	AMS XTRA	3.4	SL	2.0	% v/v	POST	C							
7	CINCH ATZ	5.5	SC	51.0	oz/a	PRE	A	100.0 a	86.0 abc	91.3 ab	5.0 bc	100.0 a	75.0 b	100.0 a
8	WARRANT	3	ME	48.0	oz/a	PRE	A	97.5 b	72.5 bcd	0.0 c	5.0 bc	100.0 a	53.8 c	97.5 b
	ATRAZINE	4	L	64.0	oz/a	POST	C							
	PROWL H20	3.8	SC	32.0	oz/a	POST	C							
	COC			1.0	% v/v	POST	C							
9	DUAL MAGNUM	7.62	EC	21.0	oz/a	PRE	A	100.0 a	93.3 a	0.0 c	5.0 bc	100.0 a	83.8 ab	100.0 a
	ATRAZINE	4	L	64.0	oz/a	POST	C							
	PROWL H20	3.8	SC	32.0	oz/a	POST	C							
	COC			1.0	% v/v	POST	C							
10	NTC							0.0 c	0.0 e	0.0 c	0.0 c	0.0 b	0.0 d	0.0 c
	LSD P=.10							1.90	16.74	11.63	5.56	.	16.39	1.90
	Standard Deviation							1.58	13.90	9.66	4.61	0.00	13.61	1.58
	CV							1.76	18.15	17.21	45.02	0.0	18.67	1.76
	Grand Mean							89.75	76.55	56.13	10.25	90.00	72.88	89.75
	Bartlett's X2							0.0	16.775	12.156	3.567	0.0	9.543	0.0
	P(Bartlett's X2)							.	0.033*	0.016*	0.828	.	0.145	.
	Replicate F							1.000	0.639	1.471	4.500	0.000	1.003	1.000
	Replicate Prob(F)							0.4079	0.5967	0.2445	0.0110	1.0000	0.4068	0.4079
	Treatment F							1592.111	18.000	100.791	22.617	0.000	17.815	1592.111
	Treatment Prob(F)							0.0001	0.0001	0.0001	0.0001	1.0000	0.0001	0.0001

Means followed by same letter or symbol 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.
Could not calculate LSD (% mean diff) for columns 1,3,11 because error mean square = 0.

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Trial ID: SG-01-17 Study Dir.: STANLEY ROYAL (USA-17-178)
Location: PONDER FARM Investigator: Eric P. Prostko

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

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WEED CONTROL IN INZEN GRAIN SORGHUM

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Location: PONDER FARM Investigator: Eric P. Prostko

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Plot	1	2	3	4	5	6
	Weed Code								-----	-----	-----	------	-----	------
	Crop Code								SORBI	SORGHUM	AMAPA	AGRASS	RAPRA	SORBI
	Part Rated								PLANT -	PLANT -				PLANT -
	Rating Data Type								STUNTING	CHLOROSI	CONTROL	CONTROL	CONTROL	STUNTING
	Rating Unit								PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
	Rating Date								Apr-20-17	Apr-20-17	Apr-20-17	Apr-20-17	Apr-20-17	May-5-17
1	LEADOFF	33.4	WG	1.5	oz/a	PRE	A	101	0.0	10.0	99.0	65.0	99.0	10.0
	ATRAZINE	4	L	24.0	oz/a	PRE	A	208	0.0	0.0	99.0	95.0	99.0	10.0
	ZEST	75	WG	0.67	oz/a	POST	C	303	0.0	20.0	99.0	99.0	99.0	10.0
	ATRAZINE	4	SL	24.0	oz/a	POST	C	405	0.0	10.0	99.0	99.0	99.0	10.0
	COC			1.67	% v/v	POST	C							
	AMS XTRA	3.4	SL	2.0	% v/v	POST	C							
								Mean =	0.0	10.0	99.0	89.5	99.0	10.0
2	LEADOFF	33.4	WG	1.5	oz/a	PRE	A	102	0.0	10.0	99.0	99.0	99.0	10.0
	CINCH	7.64	EC	21.0	oz/a	PRE	A	205	0.0	0.0	99.0	99.0	99.0	15.0
	ZEST	75	WG	0.67	oz/a	POST	C	301	0.0	20.0	99.0	99.0	99.0	10.0
	COC			1.67	% v/v	POST	C	409	0.0	20.0	99.0	99.0	99.0	5.0
	AMS XTRA	3.4	SL	2.0	% v/v	POST	C							
								Mean =	0.0	12.5	99.0	99.0	99.0	10.0
3	LEADOFF	33.4	WG	1.5	oz/a	PRE	A	103	0.0	10.0	99.0	85.0	99.0	15.0
	CINCH	7.64	EC	21.0	oz/a	PRE	A	207	0.0	0.0	99.0	85.0	99.0	10.0
	ZEST	75	WG	0.67	oz/a	POST	C	310	0.0	10.0	99.0	99.0	85.0	10.0
	ATRAZINE	4	L	24.0	oz/a	POST	C	404	0.0	10.0	99.0	99.0	99.0	10.0
	COC			1.67	% v/v	POST	C							
	AMS XTRA	3.4	SL	2.0	% v/v	POST	C							
								Mean =	0.0	7.5	99.0	92.0	95.5	11.3
4	CINCH ATZ	5.5	SC	32.0	oz/a	PRE	A	104	0.0	10.0	99.0	65.0	99.0	10.0
	ZEST	75	WG	0.67	oz/a	POST	C	201	0.0	10.0	99.0	95.0	85.0	10.0
	ATRAZINE	4	L	24.0	oz/a	POST	C	302	0.0	10.0	99.0	85.0	95.0	10.0
	COC			1.67	% v/v	POST	C	408	0.0	10.0	99.0	85.0	99.0	10.0
	AMS XTRA	3.4	SL	2.0	% v/v	POST	C							
								Mean =	0.0	10.0	99.0	82.5	94.5	10.0
5	CINCH ATZ	5.5	SC	51.0	oz/a	EPOST	B	105	0.0	0.0	0.0	0.0	0.0	50.0
	ZEST	75	WG	0.67	oz/a	EPOST	B	206	0.0	0.0	0.0	0.0	0.0	45.0
	COC			1.67	% v/v	EPOST	B	308	0.0	0.0	0.0	0.0	0.0	50.0
	AMS XTRA	3.4	SL	2.0	% v/v	EPOST	B	402	0.0	0.0	0.0	0.0	0.0	50.0
								Mean =	0.0	0.0	0.0	0.0	0.0	48.8
6	CINCH	7.64	EC	16.0	oz/a	PRE	A	106	0.0	5.0	99.0	85.0	50.0	10.0
	ZEST	75	WG	0.67	oz/a	POST	C	202	0.0	10.0	99.0	95.0	0.0	10.0
	ATRAZINE	4	L	24.0	oz/a	POST	C	307	0.0	0.0	99.0	65.0	50.0	10.0
	COC			1.67	% v/v	POST	C	401	0.0	10.0	99.0	99.0	50.0	10.0
	AMS XTRA	3.4	SL	2.0	% v/v	POST	C							
								Mean =	0.0	6.3	99.0	86.0	37.5	10.0
7	CINCH ATZ	5.5	SC	51.0	oz/a	PRE	A	107	0.0	15.0	99.0	65.0	99.0	15.0
								203	0.0	10.0	99.0	95.0	99.0	15.0
								309	0.0	0.0	99.0	95.0	95.0	10.0
								406	0.0	10.0	99.0	95.0	99.0	0.0
								Mean =	0.0	8.8	99.0	87.5	98.0	10.0
8	WARRANT	3	ME	48.0	oz/a	PRE	A	108	0.0	15.0	99.0	85.0	0.0	10.0
	ATRAZINE	4	L	64.0	oz/a	POST	C	209	0.0	10.0	99.0	99.0	0.0	10.0
	PROWL H20	3.8	SC	32.0	oz/a	POST	C	306	0.0	0.0	99.0	65.0	50.0	10.0
	COC			1.0	% v/v	POST	C	410	0.0	10.0	99.0	95.0	0.0	5.0
								Mean =	0.0	8.8	99.0	86.0	12.5	8.8
9	DUAL MAGNUM	7.62	EC	21.0	oz/a	PRE	A	109	0.0	10.0	99.0	85.0	50.0	10.0
	ATRAZINE	4	L	64.0	oz/a	POST	C	210	0.0	10.0	99.0	99.0	50.0	10.0
	PROWL H20	3.8	SC	32.0	oz/a	POST	C	304	0.0	10.0	99.0	99.0	50.0	10.0
	COC			1.0	% v/v	POST	C	407	0.0	15.0	99.0	95.0	50.0	0.0
								Mean =	0.0	11.3	99.0	94.5	50.0	7.5
10	NTC							110	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
								305	0.0	0.0	0.0	0.0	0.0	0.0
								403	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

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Plot	AMAPA CONTROL PERCENT May-5-17	AGRASS CONTROL PERCENT May-5-17	RAPRA CONTROL PERCENT May-5-17	SORBI PLANT - STUNTING PERCENT May-16-17	AMAPA CONTROL PERCENT May-16-17	AGRASS CONTROL PERCENT May-16-17
									7	8	9	10	11	12
1	LEADOFF	33.4	WG	1.5	oz/a	PRE	A	101	100.0	85.0	100.0	10.0	100.0	75.0
	ATRAZINE	4	L	24.0	oz/a	PRE	A	208	100.0	99.0	85.0	10.0	100.0	95.0
	ZEST	75	WG	0.67	oz/a	POST	C	303	100.0	100.0	95.0	10.0	100.0	95.0
	ATRAZINE	4	SL	24.0	oz/a	POST	C	405	100.0	65.0	100.0	10.0	100.0	65.0
	COC			1.67	% v/v	POST	C							
	AMS XTRA	3.4	SL	2.0	% v/v	POST	C							
								Mean =	100.0	87.3	95.0	10.0	100.0	82.5
2	LEADOFF	33.4	WG	1.5	oz/a	PRE	A	102	100.0	100.0	100.0	10.0	100.0	100.0
	CINCH	7.64	EC	21.0	oz/a	PRE	A	205	100.0	90.0	85.0	15.0	100.0	95.0
	ZEST	75	WG	0.67	oz/a	POST	C	301	100.0	100.0	100.0	10.0	100.0	95.0
	COC			1.67	% v/v	POST	C	409	100.0	99.0	90.0	0.0	100.0	95.0
	AMS XTRA	3.4	SL	2.0	% v/v	POST	C							
								Mean =	100.0	97.3	93.8	8.8	100.0	96.3
3	LEADOFF	33.4	WG	1.5	oz/a	PRE	A	103	100.0	100.0	95.0	10.0	100.0	95.0
	CINCH	7.64	EC	21.0	oz/a	PRE	A	207	100.0	95.0	100.0	10.0	100.0	95.0
	ZEST	75	WG	0.67	oz/a	POST	C	310	100.0	100.0	95.0	20.0	100.0	95.0
	ATRAZINE	4	L	24.0	oz/a	POST	C	404	100.0	99.0	100.0	0.0	100.0	95.0
	COC			1.67	% v/v	POST	C							
	AMS XTRA	3.4	SL	2.0	% v/v	POST	C							
								Mean =	100.0	98.5	97.5	10.0	100.0	95.0
4	CINCH ATZ	5.5	SC	32.0	oz/a	PRE	A	104	100.0	50.0	100.0	10.0	100.0	65.0
	ZEST	75	WG	0.67	oz/a	POST	C	201	100.0	75.0	50.0	10.0	100.0	85.0
	ATRAZINE	4	L	24.0	oz/a	POST	C	302	100.0	85.0	85.0	10.0	100.0	85.0
	COC			1.67	% v/v	POST	C	408	100.0	65.0	100.0	15.0	100.0	65.0
	AMS XTRA	3.4	SL	2.0	% v/v	POST	C							
								Mean =	100.0	68.8	83.8	11.3	100.0	75.0
5	CINCH ATZ	5.5	SC	51.0	oz/a	EPOST	B	105	100.0	100.0	100.0	50.0	100.0	95.0
	ZEST	75	WG	0.67	oz/a	EPOST	B	206	100.0	100.0	100.0	35.0	100.0	95.0
	COC			1.67	% v/v	EPOST	B	308	100.0	85.0	100.0	40.0	100.0	95.0
	AMS XTRA	3.4	SL	2.0	% v/v	EPOST	B	402	100.0	99.0	100.0	35.0	100.0	95.0
								Mean =	100.0	96.0	100.0	40.0	100.0	95.0
6	CINCH	7.64	EC	16.0	oz/a	PRE	A	106	100.0	75.0	0.0	10.0	100.0	85.0
	ZEST	75	WG	0.67	oz/a	POST	C	202	100.0	40.0	0.0	10.0	100.0	50.0
	ATRAZINE	4	L	24.0	oz/a	POST	C	307	100.0	50.0	0.0	10.0	100.0	60.0
	COC			1.67	% v/v	POST	C	401	100.0	99.0	0.0	0.0	100.0	95.0
	AMS XTRA	3.4	SL	2.0	% v/v	POST	C							
								Mean =	100.0	66.0	0.0	7.5	100.0	72.5
7	CINCH ATZ	5.5	SC	51.0	oz/a	PRE	A	107	100.0	75.0	100.0	0.0	100.0	50.0
								203	100.0	85.0	100.0	10.0	100.0	75.0
								309	100.0	85.0	65.0	10.0	100.0	85.0
								406	100.0	99.0	100.0	0.0	100.0	90.0
								Mean =	100.0	86.0	91.3	5.0	100.0	75.0
8	WARRANT	3	ME	48.0	oz/a	PRE	A	108	100.0	65.0	0.0	0.0	100.0	50.0
	ATRAZINE	4	L	64.0	oz/a	POST	C	209	100.0	90.0	0.0	10.0	100.0	75.0
	PROWL H20	3.8	SC	32.0	oz/a	POST	C	306	100.0	50.0	0.0	10.0	100.0	40.0
	COC			1.0	% v/v	POST	C	410	90.0	85.0	0.0	0.0	100.0	50.0
								Mean =	97.5	72.5	0.0	5.0	100.0	53.8
9	DUAL MAGNUM	7.62	EC	21.0	oz/a	PRE	A	109	100.0	75.0	0.0	0.0	100.0	50.0
	ATRAZINE	4	L	64.0	oz/a	POST	C	210	100.0	99.0	0.0	10.0	100.0	95.0
	PROWL H20	3.8	SC	32.0	oz/a	POST	C	304	100.0	100.0	0.0	10.0	100.0	95.0
	COC			1.0	% v/v	POST	C	407	100.0	99.0	0.0	0.0	100.0	95.0
								Mean =	100.0	93.3	0.0	5.0	100.0	83.8
10	NTC							110	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
								305	0.0	0.0	0.0	0.0	0.0	0.0
								403	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

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Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code	Plot	13
	Weed Code								-----
	Crop Code								AMAPA
	Part Rated								
	Rating Data Type								CONTROL
	Rating Unit								PERCENT
	Rating Date								Jun-8-17
1	LEADOFF	33.4	WG	1.5	oz/a	PRE	A	101	100.0
	ATRAZINE	4	L	24.0	oz/a	PRE	A	208	100.0
	ZEST	75	WG	0.67	oz/a	POST	C	303	100.0
	ATRAZINE	4	SL	24.0	oz/a	POST	C	405	100.0
	COC			1.67	% v/v	POST	C		
	AMS XTRA	3.4	SL	2.0	% v/v	POST	C		
								Mean =	100.0
2	LEADOFF	33.4	WG	1.5	oz/a	PRE	A	102	100.0
	CINCH	7.64	EC	21.0	oz/a	PRE	A	205	100.0
	ZEST	75	WG	0.67	oz/a	POST	C	301	100.0
	COC			1.67	% v/v	POST	C	409	100.0
	AMS XTRA	3.4	SL	2.0	% v/v	POST	C		
								Mean =	100.0
3	LEADOFF	33.4	WG	1.5	oz/a	PRE	A	103	100.0
	CINCH	7.64	EC	21.0	oz/a	PRE	A	207	100.0
	ZEST	75	WG	0.67	oz/a	POST	C	310	100.0
	ATRAZINE	4	L	24.0	oz/a	POST	C	404	100.0
	COC			1.67	% v/v	POST	C		
	AMS XTRA	3.4	SL	2.0	% v/v	POST	C		
								Mean =	100.0
4	CINCH ATZ	5.5	SC	32.0	oz/a	PRE	A	104	100.0
	ZEST	75	WG	0.67	oz/a	POST	C	201	100.0
	ATRAZINE	4	L	24.0	oz/a	POST	C	302	100.0
	COC			1.67	% v/v	POST	C	408	100.0
	AMS XTRA	3.4	SL	2.0	% v/v	POST	C		
								Mean =	100.0
5	CINCH ATZ	5.5	SC	51.0	oz/a	EPOST	B	105	100.0
	ZEST	75	WG	0.67	oz/a	EPOST	B	206	100.0
	COC			1.67	% v/v	EPOST	B	308	100.0
	AMS XTRA	3.4	SL	2.0	% v/v	EPOST	B	402	100.0
								Mean =	100.0
6	CINCH	7.64	EC	16.0	oz/a	PRE	A	106	100.0
	ZEST	75	WG	0.67	oz/a	POST	C	202	100.0
	ATRAZINE	4	L	24.0	oz/a	POST	C	307	100.0
	COC			1.67	% v/v	POST	C	401	100.0
	AMS XTRA	3.4	SL	2.0	% v/v	POST	C		
								Mean =	100.0
7	CINCH ATZ	5.5	SC	51.0	oz/a	PRE	A	107	100.0
								203	100.0
								309	100.0
								406	100.0
								Mean =	100.0
8	WARRANT	3	ME	48.0	oz/a	PRE	A	108	100.0
	ATRAZINE	4	L	64.0	oz/a	POST	C	209	100.0
	PROWL H20	3.8	SC	32.0	oz/a	POST	C	306	100.0
	COC			1.0	% v/v	POST	C	410	90.0
								Mean =	97.5
9	DUAL MAGNUM	7.62	EC	21.0	oz/a	PRE	A	109	100.0
	ATRAZINE	4	L	64.0	oz/a	POST	C	210	100.0
	PROWL H20	3.8	SC	32.0	oz/a	POST	C	304	100.0
	COC			1.0	% v/v	POST	C	407	100.0
								Mean =	100.0
10	NTC							110	0.0
								204	0.0
								305	0.0
								403	0.0
								Mean =	0.0

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WEED CONTROL IN INZEN GRAIN SORGHUM

Trial ID: SG-01-17 Study Dir.: STANLEY ROYAL (USA-17-178)
Location: PONDER FARM Investigator: Eric P. Prostko

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