

University of Georgia

GRAIN SORGHUM RESPONSE TO SINBAR AND REFLEX YEAR 3 (APPLIED 96 DBP)			
Trial ID:	GS-01-21	Study Dir.:	CHAD ABBOTT
Location:	PONDER FARM	Investigator:	Eric P. Prostko

Reps: 4 Plots: 6 by 25 feet
 Appl. Amount: 15 GAL/AC Mix Size: 1.5 L (total for 4 plots; minimum=0.782 L)

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Grow Unit	Appl Stg	Code	Amt Product to Measure	Diluent	Rep			
										1	2	3	4
1	NTC								-	101	206	310	411
2	SINBAR	80 WG		1.0 oz/a	PRE	A		0.7489 g/mx	1499.3 mL	102	203	306	404
3	SINBAR	80 WG		2.0 oz/a	PRE	A		1.498 g/mx	1498.5 mL	103	207	309	406
4	SINBAR	80 WG		3.0 oz/a	PRE	A		2.247 g/mx	1497.8 mL	104	209	307	402
5	SINBAR	80 WG		4.0 oz/a	PRE	A		2.996 g/mx	1497.0 mL	105	211	302	407
6	REFLEX	2 SL		2.0 oz/a	PRE	A		1.562 mL/mx	1498.4 mL	106	204	303	401
7	REFLEX	2 SL		4.0 oz/a	PRE	A		3.125 mL/mx	1496.9 mL	107	205	304	408
8	REFLEX	2 SL		8.0 oz/a	PRE	A		6.249 mL/mx	1493.8 mL	108	202	301	410
9	REFLEX	2 SL		12.0 oz/a	PRE	A		9.374 mL/mx	1490.6 mL	109	201	305	403
10	REFLEX	2 SL		16.0 oz/a	PRE	A		12.5 mL/mx	1487.5 mL	110	208	311	405
11	NTC								-	111	210	308	409

Sort Order: Treatment

Trial Comments

MAINTAINED WEED-FREE

HARVEST DATE: 11/03/21
 HARVEST MOISTURE: 17.3% MOISTURE
 YIELDS ADJUSTED TO 13% MOISTURE.

LAST TILLAGE ON 04/06/21

GRAMOXONE 2SL @ 48 OZ/A + DUAL MAGNUM @ 16 OZ/A - MAY 17
 LIBERTY @ 32 OZ/A + ROUNDUP @ 32 OZ/A - JUNE 14
 ROUNDUP P-MAX3 @ 48 OZ/A + AIM @ 2 OZ/A + DUAL MAGNUM @ 16 OZ/A - JULY 12
 ROUNDUP P-MAX @ 45 OZ/A + LIBERTY @ 18 OZ/A - 07/14/21
 ATRAZINE @ 32 OZ/A + DUAL MAGNUM @ 16 OZ/A - 08/02/21
 PRIAXOR @ 8 OZ/A - 10/11/21

SUMMARY:

- 1) SINBAR HAD NO EFFECT ON SORGHUM STAND, BIOMASS, HEIGHT, STUNTING, LEAF NECROSIS, AND YIELD.
- 2) REFLEX AT 12 AND 16 OZ/A CAUSED SORGHUM LEAF NECROSIS BUT NO OTHER EFFECTS WERE OBSERVED.
- 3) AS IN 20120, ANTHRACNOSE WAS PREVALENT WHICH LIKELY RESULTED IN REDUCED SORGHUM YIELDS YIELDS (PRIAXOR FUNGICIDE APPLICATION WAS TOO LATE).

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GRAIN SORGHUM RESPONSE TO SINBAR AND REFLEX
YEAR 3 (APPLIED 96 DBP)

Trial ID: GS-01-21 Study Dir.: CHAD ABBOTT
Location: PONDER FARM Investigator: Eric P. Prostko

GENERAL TRIAL INFORMATION

Study Director: CHAD ABBOTT **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: SORBI SORGHUM **Variety:** DKS 40-76 +CONCEP **Planting Date:** Jul-12-21
Planting Method: MONOSEM **Rate:** 82000 SEED/A **Depth:** 1.5 IN
Perennial Age: _____ **Row Spacing:** 36 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: 300 LBS/A 5-15-30 PREPLANT; 24-0-0-3 @ 46 GPA (127 LBS/N) - 08/09/21;

Previous: Crops	Pesticides	Year
1. PEANUT		2020

MAINTENANCE

Field Prep./Maintenance: _____

No.	Date	Treatment Name	Form	Form	Form	Rate	Unit
			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-7-21		0.5	IN	SPRINKLER - LATERAL MOVE		
2. Apr-15-21		0.5	IN	SPRINKLER - LATERAL MOVE		
3. Apr-15-21		0.5	IN	RAINFALL		

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

APPLICATION DESCRIPTION

	A	B	C	D	E	F
Application Date: Apr-7-21						
Time of Day: 7:40 AM						
Application Method: BROADCAST						
Application Timing: PRE						
Applic. Placement: SOIL						
Air Temp., Unit: 56 F						
% Relative Humidity: 69						
Wind Velocity, Unit: 2 MPH						
Dew Presence (Y/N): Y						
Water Hardness: --						
Soil Temp., Unit: 60 F						
Soil Moisture: OPTIMUM						
% Cloud Cover: 0						

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Trial ID:	GS-01-21	Study Dir.:	CHAD ABBOTT
Location:	PONDER FARM	Investigator:	Eric P. Prostko

CROP STAGE AT EACH APPLICATION							
		A	B	C	D	E	F
Crop 1	Stage: SORBI	_____	_____	_____	_____	_____	_____
Stage Scale:		_____	_____	_____	_____	_____	_____
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:	35	_____	_____	_____	_____	_____	_____
Nozzle Type:	AIXR	_____	_____	_____	_____	_____	_____
Nozzle Size:	11002	_____	_____	_____	_____	_____	_____
Nozzle Spacing, Unit:	20	IN	_____	_____	_____	_____	_____
Nozzles/Row:	2	_____	_____	_____	_____	_____	_____
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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Trial ID: GS-01-21		Study Dir.: CHAD ABBOTT					
Location: PONDER FARM		Investigator: Eric P. Prostko					
Weed Code	----- Sorbi	----- Sorbi	----- Sorbi	----- Sorbi	----- Sorbi	----- Sorbi	----- Sorbi
Crop Code	Plant, -	Leaf, -	Stand	g/3ft	#plt/3ft	wgt/plnt	Hgt1
Part Rated	Stand	Necrosis	#/25ft	Grams	Number	grams	Inches
Rating Data Type	#/3ft	%	Jul-26-21	Jul-26-21	Jul-26-21	Jul-26-21	Aug-10-21
Rating Unit	Jul-21-21	Jul-21-21	Jul-26-21	Jul-26-21	Jul-26-21	Jul-26-21	Aug-10-21
Rating Date	Jul-21-21	Jul-21-21	Jul-26-21	Jul-26-21	Jul-26-21	Jul-26-21	Aug-10-21
Trt No.	1	2	3	4	5	6	7
Treatment Name	1	2	3	4	5	6	7
Form Conc	1	2	3	4	5	6	7
Form Type	1	2	3	4	5	6	7
Rate	1	2	3	4	5	6	7
Grow Stg	1	2	3	4	5	6	7
Appl Code	1	2	3	4	5	6	7
1 NTC	17.8 a	0.0 c	102.5 a	5.73 a	13.0 a	0.4 a	10.38 a
2 SINBAR 80 WG 1.0 oz/a PRE A	17.0 a	0.0 c	92.0 a	3.70 a	13.8 a	0.3 a	10.25 a
3 SINBAR 80 WG 2.0 oz/a PRE A	17.0 a	0.0 c	101.0 a	4.53 a	13.5 a	0.4 a	10.13 a
4 SINBAR 80 WG 3.0 oz/a PRE A	17.0 a	0.0 c	96.5 a	4.55 a	11.3 a	0.4 a	10.00 a
5 SINBAR 80 WG 4.0 oz/a PRE A	15.0 a	0.0 c	82.3 a	3.40 a	8.3 a	0.3 a	8.38 a
6 REFLEX 2 SL 2.0 oz/a PRE A	15.3 a	0.0 c	85.3 a	6.43 a	13.0 a	0.4 a	10.50 a
7 REFLEX 2 SL 4.0 oz/a PRE A	16.3 a	0.0 c	80.3 a	4.00 a	11.8 a	0.3 a	7.63 a
8 REFLEX 2 SL 8.0 oz/a PRE A	16.3 a	0.0 c	92.8 a	6.55 a	14.5 a	0.4 a	10.25 a
9 REFLEX 2 SL 12.0 oz/a PRE A	17.5 a	5.0 b	107.8 a	6.60 a	14.3 a	0.4 a	10.88 a
10 REFLEX 2 SL 16.0 oz/a PRE A	17.5 a	15.0 a	100.0 a	4.78 a	14.8 a	0.3 a	8.75 a
11 NTC	14.5 a	0.0 c	88.8 a	4.05 a	12.5 a	0.3 a	9.50 a
LSD P=.10	2.77	3.37	26.11	4.228	4.03	0.26	2.416
Standard Deviation	2.31	2.81	21.75	3.523	3.36	0.22	2.013
CV	14.02	154.38	23.25	71.37	26.32	57.95	20.76
Grand Mean	16.45	1.82	93.55	4.936	12.77	0.37	9.693
Bartlett's X2^	10.04	59.92	11.26	15.901	10.459	14.498	7.032
P(Bartlett's X2)	0.437	0.00*	0.338	0.103	0.401	0.151	0.722

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.

Missing data estimates are included in columns: Average=15,16

^Calculated from residual.

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Trial ID: GS-01-21		Study Dir.: CHAD ABBOTT					
Location: PONDER FARM		Investigator: Eric P. Prostko					
Weed Code	----- Sorbi	----- Sorbi	----- Sorbi	----- Sorbi	----- Sorbi	----- Sorbi	----- Sorbi
Crop Code							
Part Rated							
Rating Data Type	Hgt2	Hgt3	Hgt4	Hgt5	Hgt- AVG	Stunt	Necrosis
Rating Unit	Inches	Inches	Inches	Inches	Inches	%	%
Rating Date	Aug-10-21	Aug-10-21	Aug-10-21	Aug-10-21	Aug-10-21	Aug-26-21	Aug-26-21
Trt No.	8	9	10	11	12	13	14
Treatment Name							
Form Conc							
Form Type							
Rate							
Grow Stg							
Appl Code							
1 NTC	9.88 a	10.38 a	9.75 a	9.25 a	9.9 a	0.0 a	0.0 b
2 SINBAR 80 WG 1.0 oz/a PRE A	10.25 a	10.75 a	9.00 a	9.75 a	10.0 a	2.5 a	0.0 b
3 SINBAR 80 WG 2.0 oz/a PRE A	10.63 a	9.38 a	10.75 a	10.25 a	10.2 a	1.3 a	1.3 b
4 SINBAR 80 WG 3.0 oz/a PRE A	10.25 a	11.25 a	10.00 a	8.50 a	10.0 a	1.3 a	0.0 b
5 SINBAR 80 WG 4.0 oz/a PRE A	10.75 a	9.75 a	10.50 a	9.38 a	9.8 a	5.0 a	1.3 b
6 REFLEX 2 SL 2.0 oz/a PRE A	10.88 a	10.00 a	10.63 a	9.88 a	10.4 a	3.8 a	1.3 b
7 REFLEX 2 SL 4.0 oz/a PRE A	9.25 a	9.00 a	10.50 a	8.25 a	8.9 a	3.8 a	2.5 b
8 REFLEX 2 SL 8.0 oz/a PRE A	9.50 a	9.00 a	9.13 a	9.88 a	9.6 a	1.3 a	0.0 b
9 REFLEX 2 SL 12.0 oz/a PRE A	9.88 a	10.13 a	10.50 a	11.00 a	10.5 a	1.3 a	0.0 b
10 REFLEX 2 SL 16.0 oz/a PRE A	8.25 a	9.75 a	9.88 a	9.63 a	9.3 a	6.3 a	8.8 a
11 NTC	9.63 a	9.38 a	9.88 a	10.75 a	9.8 a	0.0 a	0.0 b
LSD P=.10	2.086	2.002	2.244	2.504	1.61	4.88	3.71
Standard Deviation	1.738	1.668	1.869	2.086	1.34	4.06	3.09
CV	17.52	16.87	18.61	21.55	13.62	170.3	226.57
Grand Mean	9.920	9.886	10.045	9.682	9.85	2.39	1.36
Bartlett's X2^	9.034	6.753	11.564	19.804	2.801	28.53	46.696
P(Bartlett's X2)	0.529	0.749	0.315	0.031*	0.986	0.001*	0.00*

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.

Missing data estimates are included in columns: Average=15,16

^Calculated from residual.

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GRAIN SORGHUM RESPONSE TO SINBAR AND REFLEX YEAR 3 (APPLIED 96 DBP)						
Trial ID:		GS-01-21		Study Dir.:		CHAD ABBOTT
Location:		PONDER FARM		Investigator:		Eric P. Prostko
Weed Code						
Crop Code				-----	-----	
Part Rated				SORBI	SORBI	
Rating Data Type				PLOT, -	PLOT, -	
Rating Unit				YIELD	YIELD	
Rating Date				LBS/PLOT	BU/A	
				Nov-3-21	Nov-3-21	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Code
1	NTC					
2	SINBAR	80 WG		1.0 oz/a	PRE	A
3	SINBAR	80 WG		2.0 oz/a	PRE	A
4	SINBAR	80 WG		3.0 oz/a	PRE	A
5	SINBAR	80 WG		4.0 oz/a	PRE	A
6	REFLEX	2 SL		2.0 oz/a	PRE	A
7	REFLEX	2 SL		4.0 oz/a	PRE	A
8	REFLEX	2 SL		8.0 oz/a	PRE	A
9	REFLEX	2 SL		12.0 oz/a	PRE	A
10	REFLEX	2 SL		16.0 oz/a	PRE	A
11	NTC					
LSD P=.10						
Standard Deviation						
CV						
Grand Mean						
Bartlett's X2^						
P(Bartlett's X2)						

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.

Missing data estimates are included in columns: Average=15,16

^Calculated from residual.

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Trial ID:	GS-01-21	Study Dir.:	CHAD ABBOTT		
Location:	PONDER FARM	Investigator:	Eric P. Prostko		
Randomized Complete Block (RCB) AOV For ----- Sorbi Plant Stand #/3ft Jul-21-21 (Data Column 1)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	228.909091			
Replicate	3	20.363636	6.787879	1.276	0.3006
Treatment	10	48.909091	4.890909	0.919	0.5291
Error	30	159.636364	5.321212		
Randomized Complete Block (RCB) AOV For ----- Sorbi Leaf Necrosis % Jul-21-21 (Data Column 2)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	1104.545455			
Replicate	3	13.636364	4.545455	0.577	0.6347
Treatment	10	854.545455	85.454545	10.846	0.0001
Error	30	236.363636	7.878788		
Randomized Complete Block (RCB) AOV For ----- Sorbi Stand #/25ft Jul-26-21 (Data Column 3)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	19786.909091			
Replicate	3	2443.090909	814.363636	1.721	0.1838
Treatment	10	3148.409091	314.840909	0.665	0.7466
Error	30	14195.409091	473.180303		
Randomized Complete Block (RCB) AOV For ----- Sorbi g/3ft Grams Jul-26-21 (Data Column 4)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	444.721818			
Replicate	3	15.921818	5.307273	0.428	0.7347
Treatment	10	56.421818	5.642182	0.455	0.9058
Error	30	372.378182	12.412606		
Randomized Complete Block (RCB) AOV For ----- Sorbi #plt/3ft Number Jul-26-21 (Data Column 5)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	479.727273			
Replicate	3	2.454545	0.818182	0.072	0.9743
Treatment	10	138.227273	13.822727	1.223	0.3165
Error	30	339.045455	11.301515		
Randomized Complete Block (RCB) AOV For ----- Sorbi wgt/plnt grams Jul-26-21 (Data Column 6)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	1.606510			
Replicate	3	0.056548	0.018849	0.402	0.7526
Treatment	10	0.143094	0.014309	0.305	0.9741
Error	30	1.406867	0.046896		
Randomized Complete Block (RCB) AOV For ----- Sorbi Hgt1 Inches Aug-10-21 (Data Column 7)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	234.107955			
Replicate	3	71.153409	23.717803	5.855	0.0028
Treatment	10	41.420455	4.142045	1.022	0.4486
Error	30	121.534091	4.051136		
Randomized Complete Block (RCB) AOV For ----- Sorbi Hgt2 Inches Aug-10-21 (Data Column 8)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	187.971591			
Replicate	3	74.017045	24.672348	8.163	0.0004
Treatment	10	23.284091	2.328409	0.770	0.6555
Error	30	90.670455	3.022348		
Randomized Complete Block (RCB) AOV For ----- Sorbi Hgt3 Inches Aug-10-21 (Data Column 9)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	140.931818			
Replicate	3	37.295455	12.431818	4.469	0.0104
Treatment	10	20.181818	2.018182	0.725	0.6947
Error	30	83.454545	2.781818		
Randomized Complete Block (RCB) AOV For ----- Sorbi Hgt4 Inches Aug-10-21 (Data Column 10)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	138.409091			
Replicate	3	19.409091	6.469697	1.851	0.1592
Treatment	10	14.159091	1.415909	0.405	0.9335
Error	30	104.840909	3.494697		

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Randomized Complete Block (RCB) AOV For ----- Sorbi Hgt5 Inches Aug-10-21 (Data Column 11)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	215.545455			
Replicate	3	56.954545	18.984848	4.363	0.0115
Treatment	10	28.045455	2.804545	0.644	0.7643
Error	30	130.545455	4.351515		

Randomized Complete Block (RCB) AOV For ----- Sorbi Hgt- AVG Inches Aug-10-21 (Data Column 12)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	107.969091			
Replicate	3	45.316364	15.105455	8.398	0.0003
Treatment	10	8.694091	0.869409	0.483	0.8875
Error	30	53.958636	1.798621		

Randomized Complete Block (RCB) AOV For ----- Sorbi Stunt % Aug-26-21 (Data Column 13)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	1024.431818			
Replicate	3	360.795455	120.265152	7.282	0.0008
Treatment	10	168.181818	16.818182	1.018	0.4516
Error	30	495.454545	16.515152		

Randomized Complete Block (RCB) AOV For ----- Sorbi Necrosis % Aug-26-21 (Data Column 14)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	43	568.181818			
Replicate	3	13.636364	4.545455	0.476	0.7012
Treatment	10	268.181818	26.818182	2.810	0.0139
Error	30	286.363636	9.545455		

Randomized Complete Block (RCB) AOV For ----- SORBI PLOT YIELD LBS/PLOT Nov-3-21 (Data Column 15)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	41	215.244318			
Replicate	3	2.869773	0.956591	0.187	0.9045
Treatment	10	69.011818	6.901182	1.348	0.2546
Error	28	143.362727	5.120097		

Randomized Complete Block (RCB) AOV For ----- SORBI PLOT YIELD BU/A Nov-3-21 (Data Column 16)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	41	5230.237144			
Replicate	3	69.732814	23.244271	0.187	0.9045
Treatment	10	1676.923126	167.692313	1.348	0.2546
Error	28	3483.581205	124.413614		

Part Rated
 Plant = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf)
 Leaf = LEAF / FOLIAGE
PRM Data Type
 T1 = [4]/[5]
 T2 = ([7]+[8]+[9]+[10]+[11])/5
 TY3 = 4.92940887*[15]

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YEAR 3 (APPLIED 96 DBP)
 Trial ID: GS-01-21 Study Dir.: CHAD ABBOTT
 Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code														
Crop Code	Sorbi	Sorbi	Sorbi	Sorbi	Sorbi	Sorbi	Sorbi							
Part Rated	Plant, -	Leaf, -	Stand	g/3ft	#plt/3ft	wgt/plnt	Hgt1							
Rating Data Type	Stand	Necrosis	#/25ft	Grams	Number	grams	Inches							
Rating Unit	#/3ft	%												
Rating Date	Jul-21-21	Jul-21-21	Jul-26-21	Jul-26-21	Jul-26-21	Jul-26-21	Aug-10-21							
Trt	Form	Form	Rate	Grow	Appl									
No.	Name	Conc	Type	Rate	Unit	Stg	Code							
							Plot							
							1							
							2							
							3							
							4							
							5							
							6							
							7							
1	NTC						101	16.0	0.0	123.0	8.10	14.0	0.6	11.50
							206	17.0	0.0	79.0	4.90	14.0	0.4	9.00
							310	17.0	0.0	96.0	3.80	11.0	0.3	11.00
							411	21.0	0.0	112.0	6.10	13.0	0.5	10.00
							Mean =	17.8	0.0	102.5	5.73	13.0	0.4	10.38
2	SINBAR	80	WG	1.0	oz/a	PRE A	102	17.0	0.0	93.0	4.10	14.0	0.3	10.00
							203	19.0	0.0	100.0	4.50	14.0	0.3	7.00
							306	15.0	0.0	98.0	2.90	15.0	0.2	10.00
							404	17.0	0.0	77.0	3.30	12.0	0.3	14.00
							Mean =	17.0	0.0	92.0	3.70	13.8	0.3	10.25
3	SINBAR	80	WG	2.0	oz/a	PRE A	103	18.0	0.0	129.0	4.10	18.0	0.2	11.50
							207	18.0	0.0	85.0	3.40	7.0	0.5	6.00
							309	14.0	0.0	101.0	7.50	14.0	0.5	10.00
							406	18.0	0.0	89.0	3.10	15.0	0.2	13.00
							Mean =	17.0	0.0	101.0	4.53	13.5	0.4	10.13
4	SINBAR	80	WG	3.0	oz/a	PRE A	104	17.0	0.0	122.0	6.40	16.0	0.4	11.00
							209	16.0	0.0	110.0	2.90	9.0	0.3	9.00
							307	18.0	0.0	80.0	5.40	11.0	0.5	6.00
							402	17.0	0.0	74.0	3.50	9.0	0.4	14.00
							Mean =	17.0	0.0	96.5	4.55	11.3	0.4	10.00
5	SINBAR	80	WG	4.0	oz/a	PRE A	105	15.0	0.0	70.0	0.60	6.0	0.1	7.00
							211	16.0	0.0	123.0	8.00	12.0	0.7	9.50
							302	14.0	0.0	59.0	1.10	6.0	0.2	11.00
							407	15.0	0.0	77.0	3.90	9.0	0.4	6.00
							Mean =	15.0	0.0	82.3	3.40	8.3	0.3	8.38
6	REFLEX	2	SL	2.0	oz/a	PRE A	106	12.0	0.0	47.0	1.10	8.0	0.1	9.00
							204	17.0	0.0	116.0	6.40	15.0	0.4	9.00
							303	13.0	0.0	90.0	4.10	14.0	0.3	9.00
							401	19.0	0.0	88.0	14.10	15.0	0.9	15.00
							Mean =	15.3	0.0	85.3	6.43	13.0	0.4	10.50
7	REFLEX	2	SL	4.0	oz/a	PRE A	107	16.0	0.0	62.0	2.00	5.0	0.4	6.00
							205	18.0	0.0	101.0	4.00	13.0	0.3	5.00
							304	14.0	0.0	91.0	6.60	15.0	0.4	9.00
							408	17.0	0.0	67.0	3.40	14.0	0.2	10.50
							Mean =	16.3	0.0	80.3	4.00	11.8	0.3	7.63
8	REFLEX	2	SL	8.0	oz/a	PRE A	108	17.0	0.0	102.0	2.90	15.0	0.2	8.00
							202	15.0	0.0	79.0	2.40	11.0	0.2	8.00
							301	19.0	0.0	115.0	16.90	17.0	1.0	12.00
							410	14.0	0.0	75.0	4.00	15.0	0.3	13.00
							Mean =	16.3	0.0	92.8	6.55	14.5	0.4	10.25
9	REFLEX	2	SL	12.0	oz/a	PRE A	109	16.0	10.0	99.0	8.70	15.0	0.6	9.00
							201	20.0	0.0	120.0	8.70	17.0	0.5	10.50
							305	20.0	10.0	111.0	6.70	17.0	0.4	10.00
							403	14.0	0.0	101.0	2.30	8.0	0.3	14.00
							Mean =	17.5	5.0	107.8	6.60	14.3	0.4	10.88
10	REFLEX	2	SL	16.0	oz/a	PRE A	110	13.0	20.0	74.0	3.80	17.0	0.2	7.00
							208	22.0	20.0	126.0	3.70	15.0	0.2	9.00
							311	17.0	5.0	127.0	9.30	14.0	0.7	10.00
							405	18.0	15.0	73.0	2.30	13.0	0.2	9.00
							Mean =	17.5	15.0	100.0	4.78	14.8	0.3	8.75
11	NTC						111	16.0	0.0	120.0	5.80	14.0	0.4	9.00
							210	15.0	0.0	102.0	3.20	15.0	0.2	9.00
							308	16.0	0.0	56.0	1.00	8.0	0.1	10.00
							409	11.0	0.0	77.0	6.20	13.0	0.5	10.00
							Mean =	14.5	0.0	88.8	4.05	12.5	0.3	9.50

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GRAIN SORGHUM RESPONSE TO SINBAR AND REFLEX
YEAR 3 (APPLIED 96 DBP)

Trial ID: GS-01-21 Study Dir.: CHAD ABBOTT
Location: PONDER FARM Investigator: Eric P. Prostko

Weed Code						
Crop Code	Sorbi	Sorbi	Sorbi	Sorbi	Sorbi	Sorbi
Part Rated						
Rating Data Type	Hgt2	Hgt3	Hgt4	Hgt5	Hgt- AVG	Stunt
Rating Unit	Inches	Inches	Inches	Inches	Inches	%
Rating Date	Aug-10-21	Aug-10-21	Aug-10-21	Aug-10-21	Aug-10-21	Aug-26-21
Trt	Treatment	Form	Form	Rate	Grow	Appl
No.	Name	Conc	Type	Rate	Unit	Stg
						Code
						Plot
						8
						9
						10
						11
						12
						13
1 NTC						
	101					11.50
	206					7.00
	310					8.00
	411					13.00
	Mean =					9.88
2 SINBAR	80 WG	1.0 oz/a	PRE	A		
	102					9.00
	203					8.00
	306					10.00
	404					14.00
	Mean =					10.25
3 SINBAR	80 WG	2.0 oz/a	PRE	A		
	103					11.00
	207					9.00
	309					9.50
	406					13.00
	Mean =					10.63
4 SINBAR	80 WG	3.0 oz/a	PRE	A		
	104					11.00
	209					10.00
	307					6.00
	402					14.00
	Mean =					10.25
5 SINBAR	80 WG	4.0 oz/a	PRE	A		
	105					10.00
	211					10.00
	302					12.00
	407					11.00
	Mean =					10.75
6 REFLEX	2 SL	2.0 oz/a	PRE	A		
	106					11.00
	204					9.00
	303					9.50
	401					14.00
	Mean =					10.88
7 REFLEX	2 SL	4.0 oz/a	PRE	A		
	107					8.00
	205					8.00
	304					9.00
	408					12.00
	Mean =					9.25
8 REFLEX	2 SL	8.0 oz/a	PRE	A		
	108					8.00
	202					9.00
	301					11.00
	410					10.00
	Mean =					9.50
9 REFLEX	2 SL	12.0 oz/a	PRE	A		
	109					10.50
	201					12.00
	305					6.00
	403					11.00
	Mean =					9.88
10 REFLEX	2 SL	16.0 oz/a	PRE	A		
	110					6.00
	208					9.00
	311					9.00
	405					9.00
	Mean =					8.25
11 NTC						
	111					11.00
	210					8.50
	308					7.00
	409					12.00
	Mean =					9.63

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GRAIN SORGHUM RESPONSE TO SINBAR AND REFLEX
YEAR 3 (APPLIED 96 DBP)

Trial ID: GS-01-21 Study Dir.: CHAD ABBOTT
Location: PONDER FARM Investigator: Eric P. Prostko

							----- Sorbi Necrosis % Aug-26-21	----- SORBI PLOT, - YIELD LBS/PLOT Nov-3-21	----- SORBI PLOT, - YIELD BU/A Nov-3-21	
Weed Code	Crop Code	Part Rated	Rating Data Type	Rating Unit	Rating Date					
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Appl Stg	Code	Plot		
							14	15	16	
1	NTC						101	0.0	6.8	33.5
							206	0.0	7.8	38.4
							310	0.0	2.9	14.3
							411	0.0	2.7	13.3
							Mean =	0.0	5.1	24.9
2	SINBAR	80 WG	1.0 oz/a	PRE	A		102	0.0	6.5	32.0
							203	0.0	3.9	19.2
							306	0.0	8.3	40.9
							404	0.0	2.2	10.8
							Mean =	0.0	5.2	25.8
3	SINBAR	80 WG	2.0 oz/a	PRE	A		103	0.0	4.8	23.7
							207	0.0	4.1	20.2
							309	5.0	3.3	16.3
							406	0.0	8.4	41.4
							Mean =	1.3	5.2	25.4
4	SINBAR	80 WG	3.0 oz/a	PRE	A		104	0.0	8.3	40.9
							209	0.0	2.9	14.3
							307	0.0	5.4	26.6
							402	0.0	4.5	22.2
							Mean =	0.0	5.3	26.0
5	SINBAR	80 WG	4.0 oz/a	PRE	A		105	0.0	2.9	14.3
							211	5.0	3.1	15.3
							302	0.0	3.7	18.2
							407	0.0	4.4	21.7
							Mean =	1.3	3.5	17.4
6	REFLEX	2 SL	2.0 oz/a	PRE	A		106	0.0	8.2	40.4
							204	0.0	3.5	17.3
							303	5.0	4.6	22.7
							401	0.0	10.8	53.2
							Mean =	1.3	6.8	33.4
7	REFLEX	2 SL	4.0 oz/a	PRE	A		107	0.0	.	.
							205	5.0	2.9	14.3
							304	5.0	3.5	17.3
							408	0.0	4.4	21.7
							Mean =	2.5	3.6	17.7
8	REFLEX	2 SL	8.0 oz/a	PRE	A		108	0.0	7.2	35.5
							202	0.0	7.1	35.0
							301	0.0	9.5	46.8
							410	0.0	3.3	16.3
							Mean =	0.0	6.8	33.4
9	REFLEX	2 SL	12.0 oz/a	PRE	A		109	0.0	3.5	17.3
							201	0.0	8.2	40.4
							305	0.0	3.7	18.2
							403	0.0	4.9	24.2
							Mean =	0.0	5.1	25.0
10	REFLEX	2 SL	16.0 oz/a	PRE	A		110	5.0	3.1	15.3
							208	10.0	.	.
							311	0.0	3.0	14.8
							405	20.0	2.9	14.3
							Mean =	8.8	3.0	14.8
11	NTC						111	0.0	2.2	10.8
							210	0.0	2.8	13.8
							308	0.0	4.4	21.7
							409	0.0	3.5	17.3
							Mean =	0.0	3.2	15.9

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GRAIN SORGHUM RESPONSE TO SINBAR AND REFLEX
YEAR 3 (APPLIED 96 DBP)
Trial ID: GS-01-21 Study Dir.: CHAD ABBOTT
Location: PONDER FARM Investigator: Eric P. Prostko

Part Rated
Plant = PLANT / PLANT BIOMASS (includes Shrub, Tree, Turf)
Leaf = LEAF / FOLIAGE
PRM Data Type
T1 = [4]/[5]
T2 = ([7]+[8]+[9]+[10]+[11])/5
TY3 = 4.92940887*[15]